HUBBELL PREMISE WIRING

DATA CENTER INFRASTRUCTURE

ENTERPRISE CONNECTIVITY

AUDIO VIDEO SOLUTIONS

HUBBELL

ONE

INTELLIGENT INFRASTRUCTURE SOLUTIONS

HUBBELL®

Hubbell One. One Network Vision.

Solutions that work together to span your entire enterprise.
Simple. Comprehensive. Standardized.

HUBBELL
OptiChannel

High Performance Fiber Solutions
Provide high bandwidth optical fiber systems for data center, campus or enterprise applications.

HUBBELL
NextFrame

Telecommunications Room Infrastructure
Designed to support and manage cable which maintains reliability and stability.

HUBBELL
PowerTrac

Powered Infrastructure
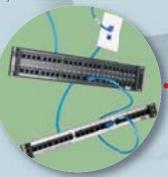PoE Patch Panel and Asset Management software designed to support powered IP applications. Remotely track devices.

HUBBELL
iFrame

Data Center Infrastructure
Cabling and Power solutions supporting dense server deployments, multi-pair cable assemblies and 10GbE copper and fiber.

HUBBELL
NextSpeed

High Performance Copper Connectivity
Designed to the latest networking applications (10GbE over UTP) supporting transmission performance beyond 500MHz.

HUBBELL
Delivery+

Delivery Systems
Provide Voice, Data, and AV connections throughout the enterprise. Crestron, Extron® and FSR compatible.

HUBBELL
iStation

Audio Video Solutions
Providing leading edge AV, Data and Voice connections.

HUBBELL
Advantage
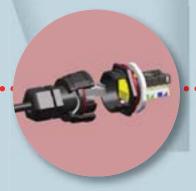
HUBBELL
ReBox

Zone Cabling Systems
Designed to support flexible office environments and overcome bandwidth bottlenecks - remotely place bandwidth closer to the edge of the network.

HUBBELL
HiImpact

Harsh Environments
Rugged components designed to extend the edge of the LAN into harsh environments.

Best in Class Products

With a commitment to quality that reaches back well over a century, Hubbell continually develops innovative solutions that improve the performance and reliability of today's enterprise networks while supporting the applications of tomorrow. Our **MISSION CRITICAL**® 25 Year Warranty, third-party testing, standards leadership and pioneering patent position all demonstrate our dedication to developing the best-in-class products that the industry has come to expect from Hubbell. This includes our latest **NEXTSPEED**® Ascent Category 6A System that combines innovation and reliability to exceed both TIA and ISO component specifications. Learn more about the Ascent System on page A4.

Installation Ease

At Hubbell, we know that ease of installation means faster turn-around and labor savings on the job. Our modular approach to product design provides the flexibility to easily configure and upgrade products for future technology needs. Efficient installation is built into every Hubbell product like our **iSTATION**™ Plug-and-Play AV System that takes the difficulty out of AV connections and reduces installation labor. The secret lies with our patent-pending **X-END**™, a small form factor that is easily pulled through conduit and plugged directly to application end modules. And like all our keystone jacks, **iSTATION**™ modules fit into countless delivery, faceplate, and housing solutions for fewer parts and reduced complexity. Learn more about **iSTATION**™ on page B23.

X-END

Application and Customer Support

Hubbell understands that our customers need more than the best products to compete - they also need the best application support. Through installation guidelines, support forums, AutoCAD drawings, VISIO stencils and CSI specifications, Hubbell also provides the tools our customers need to accurately design, specify and install products for the full range of enterprise applications. Partnerships with associations like ARCOM and ARCAT ensure access to specification information while our interactive webinars explore timely industry issues and solutions to challenging and emerging applications. And as an active participant in standards organizations like TIA and IEEE, Hubbell ensures our customers understand the latest application requirements. Learn more at **www.hubbell-premise.com**.

Environmentally Friendly

All around the globe, there is a movement towards "green" thinking and energy conservation. As a leader in the industry, Hubbell is doing our part. We're moving towards more environmentally friendly and energy-efficient operations like using recycleable materials and developing RoHS-compliant products to reduce hazardous substances. Hubbell's eco-friendly **iFRAME**® Data Center Infrastructure System also saves you green by addressing space utilization, power consumption, and cooling in the data center. Learn more about **iFRAME**® on page H4.

RoHS

U.S. GREEN BUILDING COUNCIL MEMBER

www.hubbell-premise.com   **Call 1-800-626-0005**   **B**

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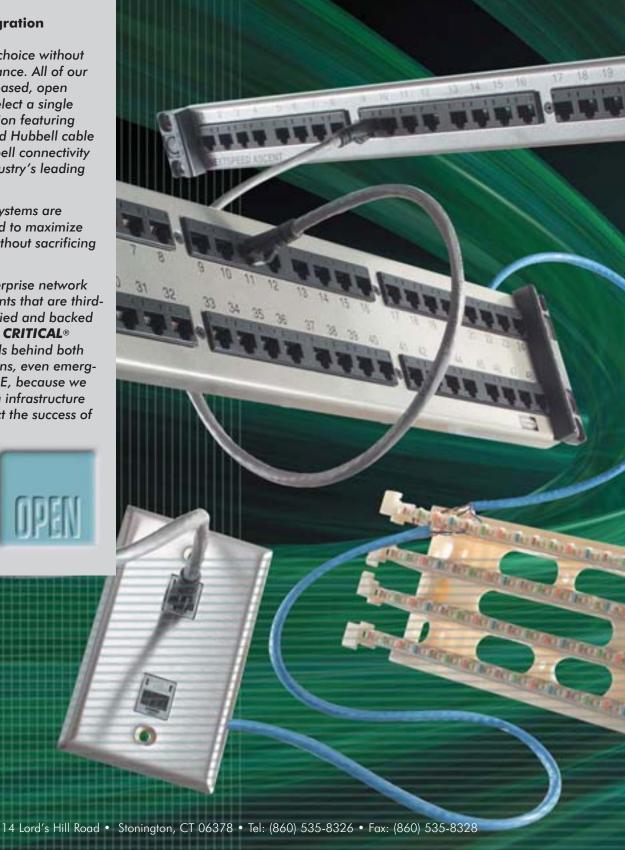
Hubbell gives you true choice without compromising performance. All of our systems are standards based, open architecture. You can select a single brand end-to-end solution featuring Hubbell connectivity and Hubbell cable or mix and match Hubbell connectivity with cable from the industry's leading cable manufacturers.

Hubbell infrastructure systems are designed and developed to maximize system performance, without sacrificing reliability.

With Hubbell, your enterprise network operates with components that are third-party performance verified and backed by a 25-year MISSION CRITICAL® warranty. Hubbell stands behind both products and applications, even emerging technologies like PoE, because we understand that cabling infrastructure performance can impact the success of your enterprise.

ONE vs OPEN
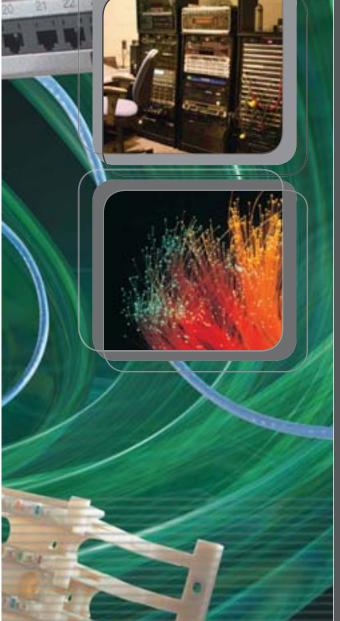
FACE PLATES... ...TEGORY 6 SYSTEMS •SHIELDED JACKS•SPEEDGAIN•1-PUNCH TOOL•JAC
•CATEGORY... ...TSPEED PRODUCTS•XCELERATOR JACKS•ASCENT 6E+ SYSTEM CHANNEL
CONSOLIDA... ...H PANELS•ISTATION PRODUCTS•FACE PLATES•PATCHCORDS•JACKS•CA
GORY 6 SYS... ...EEDGAIN•1-PUNCH TOOL•CATEGORY 5E SYSTEM CHANNEL•NEXTSPEED
PRODUCTS... ...T 6E+ SYSTEM CHANNEL•CONSOLIDATION POINT BLOCKS•PATCH PAN
•ISTATION... ...ACKS•... ...HIELDED JACKS•SPEEDGAIN•1-PUNCH
TOOL•JACK... ...HANNEL•NEXTSPEED PRODUCTS•XCELERATOR JACKS•ASCENT 6E SYSTEM

SYSTEM CONTENTS

PRODUCT	PAGE

HUBBELL
NextSpeed

Ascent Category 6A Channel

Design
• Enhanced common mode design to eliminate residual and reflected NEXT.
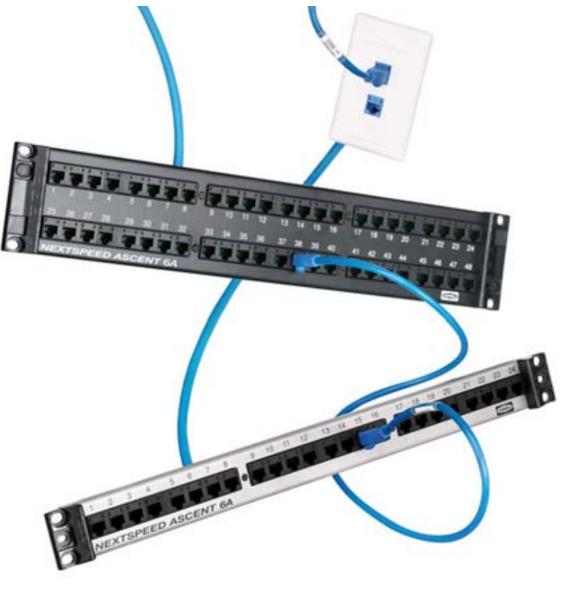
Performance
• Balanced PCB design delivers 5dB+ headroom over the TIA Category 6A standard @ 500MHz providing true 10GbE application assurance.

Reliability
• Application: Third-Party qualified for 10GbE Transmission IEEE 802.3an.
• Component: Third-Party verified for TIA-568-C Category 6A Component Compliance.
• Channel: Third-Party verified for ISO 11801 Class E_A Compliant.
• Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
• Manufacturing: 100% factory tested in a controlled environment.

Standards
● TIA-568-C.2 Category 6 Component Compliant.
● ISO 11801 Class E_A Compliant (Category 6A).
● IEEE 802.3at Compliant.
● UL Listed 1863.

RoHS

HUBBELL
Advantage

■ True TIA and ISO Category 6A Component Compliance.

■ Labor Savings: Exclusive 1-Punch Termination Reduces Termination Time by 75%.

■ Designed for Critical, Bandwidth Intensive 10 Gigabit Ethernet Applications.

■ New Packaging Reduces Waste.

NEXTSPEED® Ascent Category 6A Jacks

The **NEXTSPEED**® Ascent Category 6A jack exceeds TIA and ISO Category 6A component specifications, delivering extended bandwidth and reliability for all LAN, multimedia and Power over Ethernet applications.

Delivery: 1 per Bag/Carton of 25.   25 per Bag/Carton of 1

Catalog No.	**HJ6AXX**	✓**10G**	Catalog No.	**HJ6AXX25**	✓**10G**

XX = See Jack Color Options below.

XX = Jack Color Options

AL=Almond	BK=Black	B=Blue	EI=Electric Ivory	GL=Gold	GY=Gray	GN=Green	LA=Light Almond
OW=Office White	OR=Orange	P=Purple	R=Red	TI=Telco Ivory	W=White	Y=Yellow	

NEXTSPEED® Ascent, Category 6A, Component Patch Panels

Format	Width	Color	Catalog No.	
Standard	19" (483)	Black	**HP6AXXU**	✓**10G**
Standard	19" (483)	Silver	**HP6AXXUS**	✓**10G**
Angled	19" (483)	Black	**HP6AXXAU**	✓**10G**

*Replace "**XX**" with port size: "**24**" = 24 ports; "**48**" = 48 ports.*

HP6A48U

NEXTSPEED® Ascent Category 6A Patch Cords

Color: Gray

Catalog No.	**PC6AGYXX**	✓**10G**

XX = Standard Color:
"**B**" = Blue; "**BK**" = Black; "**GY**" = Gray; "**Y**" = Yellow. For other colors replace color designation with one of the following: **OR** = Orange, **R** = Red, **GN** = Green, **P** = Purple, **W** = White

* = Standard Length:
"**03**" = 3'; "**06**" = 6'; "**08**" = 8'; "**10**" = 10'; "**12**" = 12'; "**16**" = 16'; "**20**" = 20'.
MTO lengths: 25', 30', 35', 40', 45', 50', 55', 60', 75', and 100'.

NEXTSPEED® Ascent Category 6A Cable

Color	Catalog No. Riser Spool (1000' length)		Catalog No. Plenum Spool (1000' length)	
Blue	**C6ASRB**	✓**10G**	**C6ASPB**	✓**10G**
Gray	**C6ASRGY**	✓**10G**	**C6ASPGY**	✓**10G**
White	**C6ASRW**	✓**10G**	**C6ASPW**	✓**10G**
Yellow	**C6ASRY**	✓**10G**	**C6ASPY**	✓**10G**

NEXTSPEED® Ascent Category 6A Trunk Cable Assemblies

BIDnet™ Pre-Terminated Cable Assemblies are Make-to-Order items. Please call our Inside Sales Team for lead-time and availability.   ✓**10G**

• 100% tested.
• High performing factory terminations eliminate installation difficulties.
• Balanced, pre-terminated cable assemblies provide improved channel performance.

NEXTSPEED® Ascent Category 6A Field Termination Kits

Description*	Catalog No.	
64-Pair Kit with legs and 16 connecting blocks*	**6110FTK64WL**	✓**10G**
64-Pair Kit w/o legs and 16 connecting blocks*	**6110FTK64NL**	✓**10G**
192-Pair Kit with legs and 64 connecting blocks*	**6110FTK192WL**	✓**10G**

* 6-110, 4-pair connecting blocks.
See page E14 for more information.

www.hubbell-premise.com   **Call 1-800-626-0005**

HUBBELL
Next Speed

Category 6/10GbE Shielded System

Design
- IDC formation allows each pair to be segregated pair-to-pair NEXT.

Superior Strain Relief
- Locking IDC stuffer cap ensures termination retention, securing wires during installation.

Durability
- Die-cast construction provides superior durability for any shielded installation.

Performance
- Designed and center-balanced delivering 3dB of headroom @ 417MHz providing true 10GbE application assurance.

Reliability
- Application: Third-Party qualified for 10GbE Transmission IEEE 802.3an.
- Component: Third-Party verified for TIA-568-C Category 6 Component - 3P verified for ISO 11801 Class E compliance.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Manufacturing: 100% factory tested in a controlled environment.

Simplicity
- The unique tool less termination cap allows the cable to be laced in without disruption of the pairs, maintaining the twist integrity of the cable.

Specifications
- ◆ TIA-568-C.2.
- ◆ TIA-568-C.2-10 Draft Cat. 6A.
- ◆ IEEE 802.3at compliant.
- ◆ IEEE 802.3an 10GBASE-T Ethernet.
- ◆ UL Listed ISO/IEC 11801 (2nd edition) and EN50173.
- ◆ IEC 60603-7-5 specifications for Category 6 and Category 5e screened connecting hardware.

Standards
- ● ANSI/TIA-568-C Category 6 Component specifications.
- ● UL Listed ISO/IEC 11801 and EN50173 second edition requirements for transfer impedance and shield effectiveness.
- ● IEC 60603-7-5 (draft) specifications for Category 6 and Category 5e screened.
- ● UL Listed 1863.

HUBBELL
Advantage

- ■ Quick and Easy Terminal Grounding Connection.
- ■ Tool Less Termination.
- ■ Third Party Tested and Verified.
- ■ Bulk Packaging Reduces Waste.

RoHS

NEXTSPEED® Shielded Jacks, Category 6/10GbE

Category	Pckg. Quantity	B-Wired Catalog No.	A-Wired Catalog No.
6	2	**SJ62B** ✓10G	**SJ62A** ✓10G
6	24	**SJ624B** ✓10G	**SJ624A** ✓10G

NEXTSPEED® 6 Shielded Patch Panels, Unloaded

Ports	Height	Rack Units	Catalog No. Black	Catalog No. Silver
16	1.75" (45)	1	**UDX16E**	-
24	1.75" (45)	1	**PSJ24BK**	**PSJ24S**

Note: Order jacks separately - see above.

UDX16E

PSJ24S

NEXTSPEED® Shielded Patch Cords, Category 6/10GbE

Length	Catalog No.	Length	Catalog No.
3'	**PS603XX** ✓10G	15'	**PS615XX** ✓10G
5'	**PS605XX** ✓10G	20'	**PS620XX** ✓10G
7'	**PS607XX** ✓10G	25'	**PS625XX** ✓10G
10'	**PS610XX** ✓10G		
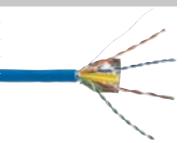
XX=Color; **B**=Blue, **GY**=Gray

NEXTSPEED® Ascent 10GbE FTP Cable, 4-Pair

Color	Plenum Spool (1000' Length)	Riser Spool (1000' Length)
Blue	**C6FTPSPB** ✓10G	**C6FTPSRB** ✓10G
Gray	**C6FTPSPGY** ✓10G	**C6FTPSRGY** ✓10G
White	**C6FTPSPW** ✓10G	**C6FTPSRW** ✓10G

NEXTSPEED® Ascent Shielded Category 6 Trunk Cable Assemblies

BIDnet™ Pre-Terminated Cable Assemblies are Make-to-Order items. Please call our ✓10G
Inside Sales Team for lead-time and availability.

• 100% tested.
• High performing factory terminations eliminate installation difficulties.
• Balanced, pre-terminated cable assemblies provide improved channel performance.

www.hubbell-premise.com   **Call 1-800-626-0005**

HUBBELL NextSpeed

Category 6 System

Design
- Center balanced to Category 6 plug specifications.
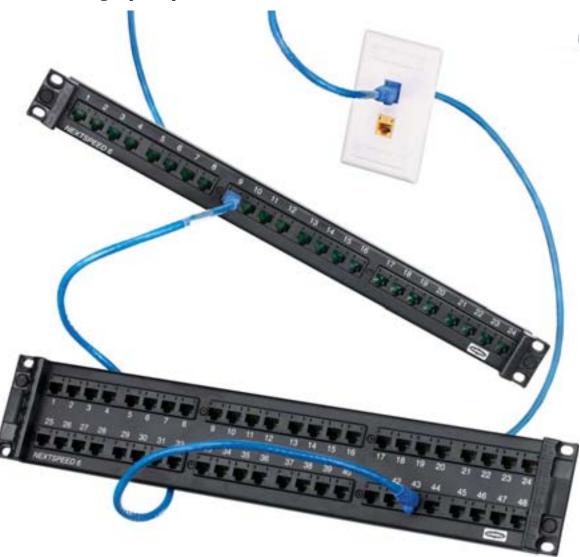
Performance
- Balanced PCB design delivers 6dB+ headroom over the TIA Category 6 standard @ 250MHz providing true application assurance.

Administration
- Accepts Hubbell laser printable label sheets and industry recognized 0.5" hand held printer tape.

Reliability
- Application: Third-Party qualified for 10GbE Transmission IEEE 802.3an.
- Component: Third-Party verified for TIA-568-C Category 6 Component Compliance.
- Channel: Third-Party verified for ISO 11801 Class E_A Compliance.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Manufacturing: 100% factory tested.

Standards
- TIA-568-C.2 Category 6 Component.
- ISO 11801 Class E Compliant.
- IEEE 802.3at Compliant.
- UL Listed 1863.

RoHS

HUBBELL Advantage

- TIA Category 6 Component Compliance.
- Labor Savings: Exclusive 1-Punch Termination Reduces Termination Time by 75%.
- Third Party Tested and Verified.
- New Packaging Reduces Waste.

NEXTSPEED® Category 6 Jacks

Delivery: 1 per Bag/Carton of 25.   25 per Bag/Carton of 1

Catalog No.   **HXJ6XX**   Catalog No.   **HXJ6XX25**

XX = Jack Color Options

AL=Almond	**BK**=Black	**B**=Blue	**EI**=Electric Ivory	**GL**=Gold	**GY**=Gray	**GN**=Green	**LA**=Light Almond
OW=Office White	**OR**=Orange	**P**=Purple	**R**=Red	**TI**=Telco Ivory	**W**=White	**Y**=Yellow	

NEXTSPEED® Universal Patch Panel, Category 6

Format	Width	Color	Catalog No.
Standard	19" (483)	Black	**P6EXXU**
Standard	19" (483)	White	**P6EXXUW**
Angled	19" (483)	Black	**P6XXAU**

*Replace "**XX**" with port size:*
"**24**" = 24 ports; "**48**" = 48 ports.

P6E48U

NEXTSPEED® Category 6 Universal Patch Cords

Delivery: 1 patch cord
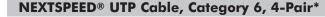
Catalog No.   **PCX6XX***

XX = Standard Color:
"**B**" = Blue; "**BK**" = Black; "**GY**" = Gray; "**Y**" = Yellow. For other colors replace color designation with one of the following: **OR** = Orange, **R** = Red, **GN** = Green, **P** = Purple, **W** = White.

* = Standard Length:
"**03**" = 3'; "**06**" = 6'; "**08**" = 8'; "**10**" = 10'; "**12**" = 12'; "**16**" = 16'; "**20**" = 20'.
MTO lengths: 25', 30', 35', 40', 45', 50', 55', 60', 75', and 100'.

NEXTSPEED® UTP Cable, Category 6, 4-Pair*

Color	Plenum Spool (1000' Length)		Riser Spool (1000' Length)	
Blue	**C6SPB**	10G	**C6SRB**	10G
Gray	**C6SPGY**	10G	**C6SRGY**	10G
White	**C6SPW**	10G	**C6SRW**	10G
Yellow	**C6SPY**	10G	**C6SRY**	10G

Color	Plenum REELEX** (1000' Length)		Riser REELEX** (1000' Length)	
Blue	**C6RPB**	10G	**C6RRB**	10G
Gray	**C6RPGY**	10G	**C6RRGY**	10G
White	**C6RPW**	10G	**C6RRW**	10G
Yellow	**C6RPY**	10G	**C6RRY**	10G

* Per TSB-155.
** REELEX is licensed and patented by Windings Inc.

NEXTSPEED® Ascent Category 6 Trunk Cable Assemblies

BIDnet™ Pre-Terminated Cable Assemblies are Make-to-Order items. Please call our Inside Sales Team for lead-time and availability.
• 100% tested.
• High performing factory terminations eliminate installation difficulties.
• Balanced, pre-terminated cable assemblies provide improved channel performance.

NEXTSPEED® Ascent Category 6 Field Termination Kits
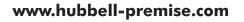
Description*	Catalog No.
64-Pair Kit with legs and 16 connecting blocks*	**6110FTK64WL**
64-Pair Kit w/o legs and 16 connecting blocks*	**6110FTK64NL**
192-Pair Kit with legs and 64 connecting blocks*	**6110FTK192WL**

* 6-110, 4-pair connecting blocks
See page E14 for more information.

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Speed**Gain**
HUBBELL

Category 5e System

Design
• Gigabit Ethernet transmission, 100MHz.

Capacity
• 25-pair cable has much smaller profile than equivalent 6-cable bundle of 4-pair UTP. Frees up valuable space in the cabinet and in the floor for maximum airflow.

Performance
• Balanced PCB design delivers 9dB+ headroom over the TIA Category 5e standard @ 100MHz providing true application assurance.

Reliability
• Application: Third-Party qualified for Gigabit Ethernet Transmission IEEE 802.3ab.
• Component: Third-Party verified for TIA-568-C Category 5e Component Compliance.
• Channel: Third-Party verified for ISO 11801 Class D Component Compliance.
• Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
• Manufacturing: 100% factory tested.

Standards
● TIA-568-C.2 Category 5e Component.
● ISO 11801 Class D Compliant.
● IEEE 802.3at.
● UL Listed 1863.

RoHS

Advantage
HUBBELL

■ One of the Industry's only Gigabit Ethernet Panels (25-Pair).

■ IDC and 25-Pair Termination.

■ Third Party Tested and Verified.

■ New Packaging Reduces Waste.

HUBBELL

14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

SPEEDGAIN® Category 5e Jacks

Delivery: 1 per Bag/Carton of 25.   25 per Bag/Carton of 1

Catalog No.	**HXJ5EXX**	Catalog No.	**HXJ5EXX25**

XX = Jack Color Options

AL=Almond	BK=Black	B=Blue	EI=Electric Ivory	GL=Gold	GY=Gray	GN=Green	LA=Light Almond
OW=Office White	OR=Orange	P=Purple	R=Red	TI=Telco Ivory	W=White	Y=Yellow	

SPEEDGAIN® Universal Patch Panel, Category 5e

Format	Width	Color	Catalog No.
Standard	19" (483)	Black	**P5EXXU**
Standard	19" (483)	White	**P5EXXUW**
Angled	19" (483)	Black	**P5EXXAU**

Replace "XX" with port size:
"**24**" = 24 portS; "**48**" = 48 ports.

P5E48UE
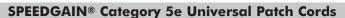
SPEEDGAIN® Gigabit Ethernet Patch Panels

Ports	Height	Width	Depth	Connectors	Catalog No.
24	1.75" (45)	19" (483)	1.2" (31)	Female	**PG24**
48	3.50" (89)	19" (483)	1.2" (31)	Female	**PG48**

PG48

SPEEDGAIN® Category 5e Universal Patch Cords

Catalog No.   **PCX5EXX***

XX = Standard Color: "**B**" = Blue; "**BK**" = Black; "**GY**" = Gray; "**Y**" = Yellow
For other colors replace color designation with one of the following:
OR = Orange, **R** = Red, **GN** = Green, **P** = Purple, **W** = White

* = Standard Length:
"**01**" = 1'; "**03**" = 3'; "**05**" = 5'; "**07**" = 7'; "**10**" = 10'; "**15**" = 15'; "**20**" = 20';
"**25**" = 25'; "**30**" = 30'; "**35**" = 35'; "**40**" = 40'; "**45**" = 45'; "**50**" = 50';
"**55**" = 55'; "**60**" = 60'; "**75**" = 75'; "**100**" = 100'

SPEEDGAIN® Category 5E UTP Cable, 4-Pair
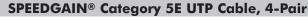
Color	Plenum Spool (1000' Length)	Riser Spool (1000' Length)
Blue	**C5EPSPB**	**C5EPSRB**
Gray	**C5EPSPGY**	**C5EPSRGY**
White	**C5EPSPW**	**C5EPSRW**
Yellow	**C5EPSPY**	**C5EPSRY**

Color	Plenum REELEX* (1000' Length)	Riser REELEX* (1000' Length)
Blue	**C5EPRPB**	**C5EPRRB**
Gray	**C5EPRPGY**	**C5EPRRGY**
White	**C5EPRPW**	**C5EPRRW**
Yellow	**C5EPRPY**	**C5EPRRY**

* REELEX is licensed and patented by Windings Inc.

SPEEDGAIN® Category 5e Trunk Cable Assemblies

BIDnet™ Pre-Terminated Cable Assemblies are Make-to-Order items. Please call our Inside Sales Team for lead-time and availability.
• 100% tested.
• High performing factory terminations eliminate installation difficulties.
• Balanced, pre-terminated cable assemblies provide improved channel performance.

SPEEDGAIN® Category 5e Field Termination Kits

Description	Catalog No.
50-pair termination kit with 4-pair blocks	**110BLK50FTK4**
100-pair termination kit with 4-pair blocks	**110BLK100FTK4**
300-pair termination kit with 4-pair blocks	**110BLK300FTK4**

See page E16 for more information.

www.hubbell-premise.com   Call 1-800-626-0005

HUBBELL OptiChannel

10GbE Fiber System

- 50μm, 10GbE compatibility.
- 10GbE 300 meter operation at 850 nm.
- 10GBASE-SR/SW applications.
- Wide variety of connector options.
- Numerous fiber adapter color arrangements.
- Modular product configurations.
- MTP cassettes and cables.

Specifications

◆ ANSI/TIA-568-C.3.

◆ ISO/IEC 11801, 2nd Edition.

◆ AF-PHY-0110.0.

◆ IEEE 802.3ae.

◆ IEEE 802.3z.

◆ 2,000 MHz-Km effective mode bandwidth 50/125mm fiber in pigtails and patch cords.

RoHS

HUBBELL Advantage

- ■ 10GbE Performance for Laser-Optimized 50μm Multimode Fiber Applications.
- ■ Comprehensive Product Set.
- ■ Modular Design for Easy Installation.
- ■ Plug-n-Play Arrangements.
- ■ Product Line Breadth Ensures that Solutions can be Tailored to Meet the Specific Needs of the User.
- ■ Fiber's High Traffic Carrying Capacity per Volume Reduces Cabling and Improves Airflow.

Plug-n-Play Cassettes

Description	Catalog No.	
SC Duplex	**OCSC50G**	✓**10G**
LC Duplex	**OCLC50G**	✓**10G**
LC Quad	**OCLCQ50G**	✓**10G**

2CLICK® Pre-Polished Fiber Connectors

LC Connectors
Description	Pack of 12	
Multimode, 50µm	**FCLC50GM12**	✓**10G**

ST Connectors
Description	Pack of 12	
Multimode, 50µm	**FCST50GM12**	✓**10G**

SC Connectors
Description	Pack of 12	
Multimode, 50µm	**FCSC50GM12**	✓**10G**

2QUICK® Crimp-style Connectors

2QUICK® ST-style Connectors
Description	Pack of 12 Catalog No.	
Multimode	**FCSTMQ12RA**	✓**10G**
Singlemode	**FCSTSQ12R**	✓**10G**

2QUICK® SC Connectors
Description	Pack of 12 Catalog No.	
Multimode	**FCSCMQ12R**	✓**10G**
Singlemode	**FCSCSQ12R**	✓**10G**

OPTICHANNEL™ Adhesive Connectors

OPTICHANNEL™
ST-style Connectors
Description	Pack of 12 Catalog No.	
Multimode	**FCSTM12R**	✓**10G**
Singlemode	**FCSTS12R**	✓**10G**

OPTICHANNEL™ SC Connectors
Description	Pack of 12 Catalog No.	
Multimode	**FCSCM12R**	✓**10G**
Singlemode	**FCSCS12R**	✓**10G**

OPTICHANNEL™ 10GbE Patch Cords

Description	Catalog No.	
SC to SC 50/125	**DFPCSCSCEXMM**	✓**10G**
LC to LC 50/125	**DFPCLCLCEXMM**	✓**10G**
LC to SC 50/125	**DFPCLCSCEXMM**	✓**10G**

Replace 'X' with standard lengths of 1, 2, 3, or 5 meters.

OPTICHANNEL™ 10GbE Fiber Pigtails

3m long
Description	Catalog No.	
SC 50/125, Multimode	**FPSCE3MM**	✓**10G**
LC 50/125, Multimode	**FPLCE3MM**	✓**10G**

MTP to MTP Cords, 12 Fiber

50µm Fiber Type
Length	Catalog No.	
10	**FPCMTP50G10**	✓**10G**
25	**FPCMTP50G25**	✓**10G**
50	**FPCMTP50G50**	✓**10G**
100	**FPCMTP50G100**	✓**10G**

Other lengths readily available.

Fiber Adapters

Description	Phosphor Bronze Sleeve Catalog No.		Zirconia Ceramic Sleeve Catalog No.	
SC Duplex	**FASCEMPB6**	✓**10G**	**FASCDSC6**	✓**10G**
SC Simplex	**FASCSMPB12**	✓**10G**	**FASCSSC12**	✓**10G**
SC to ST-style Duplex	**FASTSCEMPB6**	✓**10G**	**FASTSCDSC6**	✓**10G**
SC to ST-style Simplex	**FASCSTSEMPB12**	✓**10G**	**FASTSCSSC12**	✓**10G**
LC Duplex	**FALCMPB6**	✓**10G**	**FALCDSC6**	✓**10G**
LC Quad	**FALCQMC6BL**	✓**10G**	**FALCQSC6**	✓**10G**

* All adapters listed have snap mountings and are blue. See pages F12 and F13 for information on other color options and screw mount adapters.

OPTICHANNEL™ Fiber Adapter Panels

Fiber Adapter Panels with Phosphor Bronze Sleeves

Description	Capacity (# Fibers)	Catalog No.	
6 SC Duplex, Aqua	12	**FSPSCDM6AQ**	✓**10G**
6 SC Duplex, Beige	12	**FSPSCDBE6**	✓**10G**
6 SC Duplex, Blue	12	**FSPSCD6**	✓**10G**
6 LC Quad, Aqua	24	**FSPLCQM6AQ**	✓**10G**
6 LC Quad, Beige	24	**FSPLCQM6BE**	✓**10G**
6 LC Quad, Blue	24	**FSPLCQ6**	✓**10G**

Fiber Adapter Panels with Zirconia Ceramic Adapter

Description	Capacity (# Fibers)	Catalog No.	
6 SC Duplex, Blue	12	**FSPSCDS6**	✓**10G**
6 SC Duplex, Red	12	**FSPSCDS6R**	✓**10G**
6 SC Duplex, Yellow	12	**FSPSCDS6Y**	✓**10G**
6 LC Quad, Blue	24	**FSPLCQS6**	✓**10G**
6 LC Quad, Red	24	**FSPLCQS6R**	✓**10G**
6 LC Quad, Yellow	24	**FSPLCQS6Y**	✓**10G**

** See pages F10 and F11 for detailed information and additional configurations (panels with other adapter types, colors, and densities.

Multifiber Trunk Cables

Multifiber trunk cable assemblies are ordered using the Hubbell **OPTICHANNEL™** Assemble-to-Order (ATO) program. Customers select from a wide variety of options, fiber type, cable length, and connector type, to ensure that the multifiber cable assembly purchased meets the specific needs of the application. More information about the multifiber trunk cable assemblies and the ATO program can be found on pages F16-F17.

HUBBELL
iFrame Data Center

- Reduce time to prepare for new servers.
- Reduce cable bulk and airflow in plenum space.
- Increase usable rack space per square foot of floor space.
- Factory-terminated and tested cable assemblies increase reliability.
- Modularity provides migration and scalability.
- System spans data distribution, power distribution and equipment racking components.

Address Major Data Center Issues:

- Airflow
- Administration
- Response Time
- Security
- Space Utilization
- Appearance

RoHS

HUBBELL
Advantage

- Defined Pathways Eliminate Airflow Obstructions.
- Factory-Tested Plug-n-Play Components Minimize Installation Time.
- Modular Components Simplify Design and Execution.
- Stylized Look to Enhance the Appearance of the Equipment Room.

Premise Networking Cabinet

Premise Networking Cabinet with Sides

Rack Units	Height	Width	Depth	Catalog No.
45	84"	30"	32"	**H1N84E**
43	80"	30"	32"	**H1N80E**
45	84"	30"	36"	**H1N84ED**
43	80"	30"	36"	**H1N80ED**

Premise Networking Cabinet with Sides

Rack Units	Height	Width	Depth	Catalog No.
45	84"	23.94"	32"	**H1N84X**
43	80"	23.94"	32"	**H1N80X**
45	84"	23.94"	36"	**H1N84XD**
43	80"	23.94"	36"	**H1N80XD**

See page H10 for more information.

Server Cabinet

Server Cabinet with Sides

Rack Units	Height	Width	Depth	Catalog No.
43	80"	24"	36"	**H1E80ED**
43	80"	24"	42"	**H1E80E**
43	80"	24"	44"	**H1E8044E**

Server Cabinet with Sides

Rack Units	Height	Width	Depth	Catalog No.
43	80"	24"	36"	**H1E80EDX**
43	80"	24"	42"	**H1E80EX**
43	80"	24"	44"	**H1E8044EX**

See page H8 for more information.

iFRAME® Column System

iFRAME® Columns

Rack Units	Height	Overall Height	Catalog No.	Application
19	3'	35.0"	**IS3**	w/o raised floor
45	7'	78.8"	**IS7**	w/o raised floor
45	8'	78.8"	**IS7RF**	raised floor up to 12"
45	7'	78.8"	**IS7RF18**	raised floor up to 18"
45	7'	78.8"	**IS7RFM6**	using M6 cage nuts
45	7'	78.8"	**IS7E**	rear columns for 4-post app.

See page H8 for more information.

NEXTFRAME® Rack with Z Channels

Rack Height	Rack Units	Cover	Finish	Catalog No.
7' (2134)	45	Hinged	Black	**CS1976H**
7' (2134)	45	Clip on	Black	**CS1976**
7' (2134)	45	Clip on	Aluminum	**CS1976A**

See page G5 for more information.

NEXTFRAME® Horizontal Organizers

Rack Units	Panel Height	Front Ring Depth	Rear Ring Depth	Catalog No.
1U	1.75″	3.50″	-	**HC119CE3H**
2U	3.50″	3.50″	-	**HC219CE3N**
2U	3.50″	3.50″	4.6″	**HC219CC3N**
3U	5.25″	3.50″	-	**HC319CE3N**

XXL Series Vertical Organizers

Width:	6"W	10" W	15"W
Depth	Catalog No.	Catalog No.	Catalog No.
10"	**XS0610**	**XS1010**	**XS1510**
13"	**XS0615**	**XS1515**	**XS1515**

See page G7 for more information.

Vertical Organizers with Hinged Covers

Color	Height	6"W	4½"W	3¼"W
Black	7' (2134)	**VS76H**	**VS74H**	**VS73H**

See page G9 for more information.

Vertical Patch Panel for Hubbell Server Cabinet

Vertical Patch Panel

Data module locations: 15
Utility module locations: 42

Catalog No.	**VPH**

Data Modules	Catalog No.
10GbE, 6-port	**VPPC6**
1GbE, 25-pair	**VPP1G**
iSTATION™ Bezel	**VPMI**
iSTATION™ Module	**IM2K1GY**
Blank Covers	**VPMB**

Power Distribution

Horizontal Power Strips

Electrical Specs.	Outlets Front	Rear	Catalog No.
15A/120V	0	10	**HPWPWR**
15A/120V	0	10	**MCCPSS19**
20A/120V	0	10	**PR1020**
60A/250V	0	10	**PR0360**

Vertical Power Strips

Electrical Specs.	Outlets	Circuits	Catalog No.
15A/120V	10	1	**PR104**
20A/120V	20	1	**PR20620**
30A/120V	20	1	**PR20830**
20/16A / circuit 120V	20	2	**PR20820A**
30/24A 250V	24	1	**PR24**
120V	40	6	**PR40Z120**

www.hubbell-premise.com   **Call 1-800-626-0005**

iFRAME® Data Center

HUBBELL
iStation
Integrated Audio Video System

- Hubbell **iSTATION**™ system integration.

- Patent-pending **X-END**™ Plug-n-Play technology.

- Most extensive AV connection integration solution in the industry.

- Simple and consistent approach makes it very easy to design, specify and assemble.

- Maintains a uniform look.

Video Applications

- CATV, CCTV
- Composite: 480i
- S-Video: 480i, 576i
- Component: 720p, 1080i and
                    1080p
- RGBHV: VGA, SVGA, XGA,
                    XGA+, SXGA, SXGA+,
                    UXGA, QXGA
- HDMI   1080p

Connectors

● Audio
  - 3-pin XLR
  - 3.5mm Stereo Jack
  - ¼" Stereo Jack
  - Speakon® Connector
  - Binding posts
● Video
  - RCA
  - S-Video
  - F-Connector
  - BNC Connector
  - HD-15
  - HDMI
  - DVI

HUBBELL
Advantage

- ■ Patent-Pending Plug-n-Play **X-END**™ AV System.

- ■ First True Integrated AV System.

- ■ Eliminates Field Termination on the Job Site.

- ■ Supports Multiple Applications and Connector Configurations.

- ■ Cable Assemblies Made-to-Length Eliminate Excess Cable.

- ■ Utilize Same Cabling Infrastructure for Multiple Applications.

RoHS

RCA Connectors

110 Punch Down
Housing: Black
Insulator: Blue, Green, Red, White, Yellow.
SFRC110XX

RCA Solder
Housing: Office White
Insulator: Black
SFRC
Housing: Office White
Insulator: Blue, Green, Orange.
SFRCXXOW
Housing: Office White
Insulator: Red, White, Yellow.
SFRCXX
Housing: See Chart
(except Office White)
Insulator: See Chart
SFRCBXXXX

Gold Pass-Thru F/F
Housing: Office White
Insulator: Black, Red, White, Yellow.
SFRCXXFF
Housing: Office White
Insulator: Blue, Green, Orange.
SFRCXXFFOW
Housing: See Chart
(except Office White)
Insulator: See Chart
SFRCXXFFXX

Gold Pass-Thru F/F, Recessed
Housing: See Chart
Insulator: See Chart
SFRCXXRXX

XX = Insulator Color:

BK	B	GN	OR	R	W	Y

S-Video Connectors

S-Video to 110
Housing: See Chart*
SFSV110XX

S-Video Pass-Thru
Housing: See Chart*
SFSVXX

* All colors available except for Lt. Almond.

USB Connectors

A to A, 2.0
Blue **SFUSBAAB**
Office White **SFUSBAAOW**
White **SFUSBAAW**

A to B, 2.0
Blue **SFUSBABB**
Office White **SFUSBABOW**
White **SFUSBABW**

Stereo Jack Connectors

3.5mm Solder
Housing: See Chart
SF35SJXX

3.5mm Screw Term
Housing: See Chart
SF35STXX

Pass-Thru, F/F
Housing: See Chart
SF35FFXX Nickel
SF35GFFXX Gold

¼" Solder
Housing: See Chart
SF14SJXX

Pro-AV Connectors

1394 FireWire, Feed-Thru
10-pk **139410**

¼" Locking Stereo, Solder
10-pk **14S10**

2-pole Speakon®, Solder
10-pk **SC10**

XLR 3-pole, Solder
10-pk **XLR10**

XLR, 3-pole, Screw Term
10-pk **XLRST10**

USB, A-to-B Feed-Thru
10-pk **USB10**

Pro-AV Blank Module, 1.5 Unit
Module: See Chart
IMAVB15XX

9-/15-pin Connectors

Screw Terminal
9-pin 10-pk **9ST10**
15-pin 10-pk **15ST10**

Gender Changer
9-pin 10-pk **9GC10**
15-pin 10-pk **15GC10**

Gender Changer, 15-pin, 90°
1-pk **15901**
10-pk **159010**

HDMI Couplers

HDMI Coupler
Gold, Female-Female
1-pk **HDMIC1**
10-pk **HDMIC10**

HDMI 3" Tail
Gold, Female-Female
1-pk **HDMIT1**
10-pk **HDMIT10**

DVI to HDMI Adapter, Female-to-Female
1-pk **DVIHDMI1**

VGA Plug-n-Play 15-pin to 8-pin Connections

Quantity	Straight 180°	Angled 45°	Angled 90°	8" Tail
1-Pack	**15S6P1**	**15A6P1**	**15N6P1**	**15T6P1**
10-Pack	**15S6P10**	**15A6P10**	**15N6P10**	**15T6P10**

DVI Adapters/Couplers

DVI-I Coupler
1-pk **DVI1**
10-pk **DVI10**

DVI to VGA Adapter
Female-Female
1-pk **DVI151**

DVI to HDMI Adapter
1-pk **DVIHDMI1**

DVI Blank, Unloaded, 1.5 U
1-pk **IMBDVI15XX**
10-pk **IMBDVI1015XX**

XX = Color Options

AL=Almond	BK=Black	EI=Electric Ivory	GY=Gray	LA=Light Almond
OW=Office White	W=White			

Multimedia Panels

iSTATION™ Panel, Rack Mount, Unloaded

Format	Height	Ports	Catalog No.
Angled	1U	16	**UDXAM16**
Angled	2U	48	**UDXAM48**
Flat	1U	16	**UDXIS1U**
Flat	2U	48	**UDXIS2U**

UDX Jack Panel, Rack Mount, Unloaded

Format	Height	Ports	Catalog No.
Angled	1U	24	**UDXA24**
Angled	2U	48	**UDXA48**
Flat	1U	16	**UDX16E**
Flat	1U	24	**UDX24E**
Flat	1U	36	**UDX36E**
Flat	1U	48	**UDX48E1U**
Flat	2U	48	**UDX48E**

UDX Pro-AV Panel, Rack Mount, Unloaded

Height	Ports	Cat. No.
1U	16	**PAV16**
2U	32	**PAV32**

HUBBELL
PowerTrac System

10GbE Performance[1].

PoE - Up to 20 Watts/Port.

Flexible and Redundant Power Arrangements.

Advanced PoE Power Management.

Intelligent Managing, Tracking, and Securing of Assets.

Specifications

◆ IEEE 802.3af[2].

◆ Category 6 Performance (TIA-568-C.2).

◆ 10GbE Performance[1].

◆ 19" rack mountable.

◆ Advanced PoE power management using web based Graphical User Interface (GUI) or SNMP v1/v2c/v3.

◆ User-friendly software for Asset Management applications.

◆ UL 60950.

◆ cUL.

◆ FCC Part 15 Class A.

◆ VCCI.

◆ EN55022, EN61000-3-2, EN61000-3-3, and EN55024.

HUBBELL Advantage

■ Integrated PoE, 10GbE Performance[1], and Asset Management Functionality.

■ Modular Architecture Allows Easy Installation and Maintenance.

■ Local and Remote Management Features.

■ Application Flexibility Ensures that the Optimal Configuration can be Deployed.

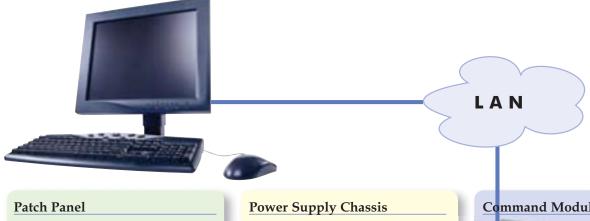■ Scaleable for Future Expansion.

[1] 10GbE performance per TSB-155.

[2] The IEEE 802.3-2005 section 33 supersedes and incorporates the contents of 802.3af. References to 802.3af are used solely for convenience and consistency with existing specifications and documentation.

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HUBBELL
PowerTrac PoE Configuration Overview

L A N

Patch Panel

Power Supply Chassis

Command Module (Optional)

Command Module
Control Cable

DC power cable

Power Supply Chassis and Power Supply Modules

DC power cable

Command Module
Control Cable

- 24-port Patch Panel.

- Terminates horizontal cable via standard 110 punch-down connection.

- Standard RJ45 connectors on the front of the panel (for connection to the switch).

- Full PoE power to all ports for applications with compliant IEEE 802.3af [2] and some legacy 48VDC devices.

- Supports application up to 20 watts per port (requires Command Module).

- 10GbE performance[1].

- LED indicators display connection and power status.

- Universal wiring.

- Front cable management bar (optional).

- Supports the powering of up to 2 patch panels (48 ports).

- Can be front or rear mounted. With the rear mounting arrangement, the chassis is mounted directly in back of the patch panel to conserve space.

- Can be equipped with up to three (3) 350W/48VDC power supplies to provide the required level of redundancy or for additional power.

- AC input allows easy connection to UPS.

- 120/240VAC compatible.

- IEC 320 AC inlet power connection.

- Includes 6' power connection cable, IEC 320 C13 to NEMA 5-15P.

- Capability to set maximum PoE power to 20 watts per port.

- Allows for management of up to 15 panels, 360 enabled PoE ports, as a single IP stack (identity) dramatically reducing IP address consumption and network management traffic.
  - User-defined static IP address or DHCP.
  - Management and communication access via 10/100 LAN and Serial (RS-232) interfaces.
  - Direct links from Command Module to each panel (no daisy-chaining).

- Advanced PoE power management using web based Graphical User Interface (GUI) or SNMP v1/v2c/v3.
  - Set PoE power levels and service priorities on a port by port basis.
  - Police the powering of ports.
  - Remotely cycle PoE power for a port/ports.

- E-mail notifications for loss of communications and for various power conditions.

HUBBELL PowerTrac

Asset Management Configuration Overview

Asset Management Components

1. One Electronic Asset Tag (EAT) permanently affixed to Asset or PC. The asset tag has a unique pre-assigned number (similar to a MAC address). If desired, a tether extension can be connected to this asset tag so that another device, up to 2 devices, can be monitored over one UTP cable.

2. EAT Coupler allows asset tag number to be "injected" onto UTP. A proprietary communication channel is used for asset tag monitoring, to ensure that network traffic is not affected. In this example, the end of the coupler is plugged into the PC NIC.

3. Standard patch cord connects EAT Coupler to wall jack.

4. Work station outlets: **NEXTSPEED**® jacks tested to 4X required PoE current capacity.

5. Asset information read by Asset Management Module in panel and sent to serial bus.

6. Asset information relayed to Command Module via Command Module Control Cord.

7. Command Module collects information and uses TCP/IP connection to communicate information to **POWERTRAC**® Sentry software residing on work station or server.

8. Power Supply Chassis, each chassis serves up to 2 panels (48 ports), no 48VDC power supply modules are required for asset management only applications.

9. Standard RJ45 cord connects Command Module to LAN.

10. Up to 15 Patch Panels served by each Command Module. This is up to 360 PoE enabled ports and 720 managed assets.

11. **POWERTRAC**® Sentry Software, interfaces with Command Modules to track and monitor up to 800,000 asset tags on up to 500,000 ports. Sends alerts to cell phones, pagers, and e-mail addresses based on user-defined policy rules.

LAN

POWERTRAC® Sentry

POWERTRAC® Sentry Software

● Resides on Work Station or Server.
● Communicates with Command Modules using TCP/IP.
● Tracks and monitors assets.
● Populates mapping data using "Location Wizard", or by uploading data from user created file.
● Maintains database.
● Allows users to set policy alert rules.
● Provides alerts to cell phones, pagers, and e-mail addresses when a policy rule is violated.
● View and run reports for status and event changes.

Standard jumpers (TIA-568-B) are used between the switch and the patch panel ports to ensure security is maintained, costs are minimized, and a standard physical connection is made between the switch and patch panel ports.

POWERTRAC® Patch Panels, 24-Port

Equipped for PoE and Asset Management *Delivery: 1 panel equipped with both PoE and Asset Management modules*	**DTX24AP2**
Equipped for PoE, Asset Management Ready *Delivery: 1 panel equipped with a PoE module*	**DTX24P2**
PoE Only, Equipped for PoE *Delivery: 1 panel equipped with a PoE module[1]*	**DTX24P**[1]
Equipped for Asset Management, PoE Ready *Delivery: 1 panel equipped with an Asset Management module*	**DTX24A2**
PoE and Asset Management Ready *Delivery: 1 panel (blank), no modules*	**DTX24B2**
Asset Management Module	**DTXMA2**
PoE Module	**DTXMP**

DTX24AP2 front
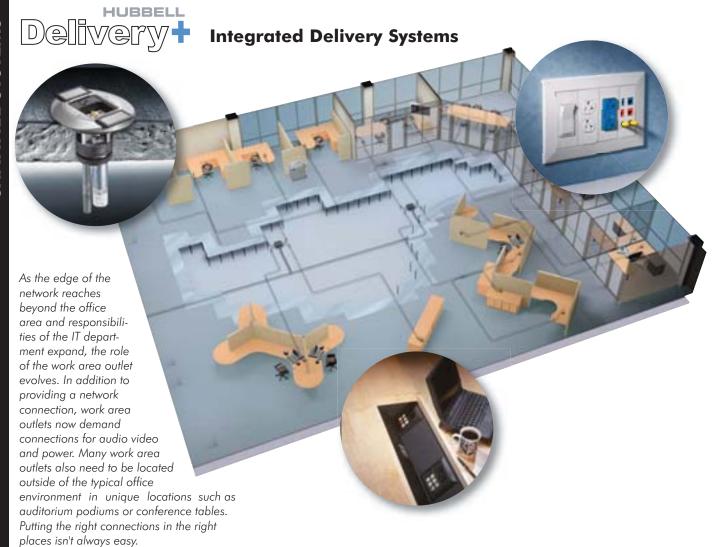
DTX24AP2 rear

POWERTRAC® Patch Panel Accessories

Power Supply Chassis Includes 5 VDC power supply module (DTXPM60), and a 6' AC power connection cable (IEC 320 C13 to NEMA 5-15P).	**DTXPS**
Power Supply Modules	
5 VDC (for replacement)	**DTXPM60**
48 VDC/350 watt (for PoE applications)	**DTXPM350**
DC Power Cables	
Length: 3'	**DTXP03**
Length: 7'	**DTXP07**
Command Module Includes AC power connection cable (IEC 320 C13 to NEMA 5-15P) and SD memory card.	**DTXCM**
Command Module Firmware License for Asset Management One license is required for each Command Module used in an asset management application.	**DTXCML**[2]
Command Module Control Cords	
Length: 3'	**DTXCC03**
Length: 7'	**DTXCC07**
Length: 10'	**DTXCC10**
Electronic Asset Tag Coupler Includes 1 EAT coupler and connection cable.	**DTXD**
Electronic Asset Tag (for replacement in the DTXD)	**DTXT**
Asset Tag Extension Cable with Tether Assembly	
Length: 1'	**DTXTE01**
Length: 3'	**DTXTE03**
Length: 5'	**DTXTE05**
Electronic ID Key	**DTXK**
POWERTRAC® Sentry Software Required for Asset Management applications.	**DTXSN2ADM**[2]
Cable Management Front (Optional)	**DTXCMB**
Optional Power Cables	
18" IEC 320 C14 to IEC 320 C13 cord	**ICKXA**
18" NEMA 5-15P to IEC 320 C13 cord	**ICKXB**
30" NEMA 5-30P (TWIST-LOCK®) to IEC 320 C13 cord	**ICKXC**

DTXPS with 3 x DTXPM350

DTXPM60, DTXPM350

DTXCM

DTXD

DTXCC07

DTXCMB

[1] DTX24P is a PoE only panel and does not support asset management functionality.
[2] Only available from authorized Hubbell resellers.

HUBBELL
Delivery+   **Integrated Delivery Systems**

As the edge of the network reaches beyond the office area and responsibilities of the IT department expand, the role of the work area outlet evolves. In addition to providing a network connection, work area outlets now demand connections for audio video and power. Many work area outlets also need to be located outside of the typical office environment in unique locations such as auditorium podiums or conference tables. Putting the right connections in the right places isn't always easy.

Now Delivery+ can do just that in two steps!

First: *standardize on a system that has the broadest offering of AV, data and voice connectors in a universal form factor.*

Second: *make sure the system offers a wide array of delivery options from poured concrete to furniture tops and raised access flooring.*

Delivery+ adapts effortlessly to mount AV connectors in hundreds of different products. The flexibility of the system is so simple, just add an **iSTATION**™ *module,* **X-END**™ *connection, AV keystone connector or jack to the interface. Hubbell's combined systems deliver the right connections in the right places essential for the emerging AV applications.*

Delivery+ provides a Simple and Consistent approach and makes it very easy to design, specify and assemble thousands of different AV and data variations into countless mounting options and still maintain a uniform look.

HUBBELL
Advantage

- ■ Patented Hubbell SystemOne Fire-Rated Poke-Through and Floor Box System.

- ■ Simplifies Installation at the Job Site.

- ■ Supports Multiple Applications and Connector Configurations.

- ■ Delivery+ Aids in the Implementation of a LEEDS Friendly, Open Office Environment.
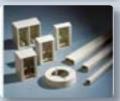
RoHS

Hubbell Raceway Systems

Hubbell's innovative Raceway Systems include a choice of Steel, Aluminum and Non-Metallic, single or multi-channel raceways in addition to a quality line of color-matching power and datacom devices. Hubbell's Metal Raceway features innovative technologies like the Hubbell Handi-Screw for easy box mounting and more data capacity with the HBL750 and HBL4750 series raceways.

Metal Raceway J4-J14
Hubbell's Steel Metal Raceway Systems include a choice of single or multi-channel raceways in addition to a quality line of color-matching power and datacom devices.

Non-Metallic Raceway J15-J27
Hubbell's Non-Metallic Raceway Systems include a choice of single or multi-channel raceways in addition to a quality line of color matching power and datacom devices.

Pre-Wired Raceway ....Section J
Hubbell has taken Raceway Systems to the next level with Pre-Wired Raceway Systems that are manufactured to your specifications. Pre-Wired Raceway Systems include a choice of Metal and Non-Metallic, single or multi-channel raceways.

Floor Boxes

Hubbell has expanded its offering of traditional flush and recessed floor boxes to include Hubbell SystemOne, a unique modular in-floor system that accommodates the industry's broadest range of power, data, audio/video and voice applications. The sub-plate and universal cover design provides consistent aesthetics regardless of the application.

Raised Access Floor Boxes I17
The Hubbell AFB Series of recessed, stamped Steel boxes are suitable for the majority of raised floor applications providing the flexibility, accessibility, capacity and depth profiles needed.

Furniture Connectivity Boxes B26
This family of furniture connectivity boxes installs into conference tables and individual work stations to bring power, voice, data, and multimedia directly to the point of use.

MultiConnect Recessed Wall Boxes B24
Multi-Connect Recessed Wall Boxes provide a versatile "in the wall" solution for single and multi-service applications.

Fire-Rated Poke-Throughs I18-I24
Hubbell's offering of flush, pedestal and furniture feed fire-rated poke-throughs has been expanded to include the unique capabilities of Hubbell SystemOne. This unique modular in-floor system accommodates the industry's broadest range of power, data, audio/video and voice applications. The sub-plate and universal cover design provides consistent aesthetics regardless of the application.

Aluminum Service Poles I25
Hubbell's Service Pole offering includes a complete line of gray, ivory, and satin finish extruded Aluminum service poles. These attractive and durable poles effectively distribute power, data, audio/video and voice wiring from above the ceiling to work stations below. They are offered in heights of 10'2", 12'2", and 15'2" and accommodate a wide variety of Hubbell power and datacom device products.

Integrated Delivery Systems

WORK STATION SOLUTIONS

OUR CONNECTIVITY SOLUTIONS PROVIDE LEADING-EDGE PERFORMANCE TECHNOLOGY PLUS A MIGRATION PATH TO SUPPORT EMERGING APPLICATIONS. MAXIMIZING YOUR NETWORK PERFORMANCE AND RETURN-ON-INVESTMENT WELL INTO THE FUTURE.

FACE PLATES•...SEMBLIES•OUTLET FRAMES•SURFACE BOXES•JACKS•CATEGORY 6 SYSTEM
ADAPTERS•A...FRONT-LOADING FACE PLATES•FURNITURE PLATES•SHIELDED JACKS•SPE
1-PUNCH T...•SURFACE MOUNT BOXES•NEXTSPEED PRODUCTS•MULTIMEDIA CONNE
•XCELERAT...SYSTEM CHANNEL•MODULAR PLUGS•CROSS CONNECT SYSTEMS•PATCH
MODULAR ...TIONS•RACK MOUNT KITS•MULTIMEDIA PANELS•CONSOLIDATION POIN
PATCH PAN...L PHONE PLATES•OUTLET PLATES•REAR-LOADING FACE PLATES•BULK CO
•ISTATION ...ATEGORY 3•TAMPER-RESISTANT FACE PLATES•ISTATION AUDIO VIDEO M

WORK STATION CONTENTS

HUBBELL NextSpeed

Ascent Category 6A Jacks

Design
- Enhanced common mode design eliminates residual and reflected NEXT and ANEXT.

Performance
- Balanced PCB design delivers significant headroom over the TIA Category 6A standard up to 500MHz providing true 10GbE application assurance.

Termination
- Wide IDC spacing allows for the easiest UTP lacing Category 6A jack in the industry.

Reliability
- Application: Third-Party qualified for 10 Gigabit Ethernet Transmission IEEE 802.3an.
- Component: Third-Party verified for TIA-568-C.2 Category 6A component.
- Channel: Third-Party tested for ISO 11801 Class EA compliant.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Mechanical: Third-Party verified to TIA-568-C.2.
- Manufacturing: 100% factory tested.

Specifications
- ◆ Nose contact material: Beryllium Copper with Precious Metal plating with Nickel under-plating.
- ◆ Contact performance confirmed over the full range of TIA plug deflection limits.

Standards
- ● ANSI/TIA-568-C.2 (Previously 568-B.2-10 Category 6A) component.
- ● ISO 11801 Class EA Compliant (Category 6A).
- ● IEEE 802.3at.
- ● UL Listed 1863.

Flexibility
- 15 different colors aids identification of multiple applications.

Superior Strain Relief
- Locking IDC stuffer cap ensures termination retention, securing wires during installation.

Capacity
- Small form factor allows up to 6 keystone connections in a single gang delivering maximum capacity within standard product.

Versatility
- **NEXTSPEED**® Ascent Jack fits in all Hubbell **iSTATION**™, Delivery and Cross Connect products.

HUBBELL Advantage

- ■ TIA and ISO Category 6A Component Compliance.
- ■ Labor Savings: Exclusive 1-Punch Termination Reduces Termination Time by 75%.
- ■ Mating Cycles Exceed Industry Standard by 2 Times.
- ■ Bulk Packaged to Eliminate Excess Packing Waste.

NEXTSPEED® Ascent Category 6A Jacks

The **NEXTSPEED**® Ascent Category 6A jack exceeds TIA and ISO Category 6A component specifications supporting network protocols delivering maximum 10GbE bandwidth and extended reliability for all LAN, multimedia and Power over Ethernet applications.

Delivery: 1 per Bag/Carton of 25.	25 per Bag/Carton of 1
Catalog No. **HJ6AXX** ✓10G	Catalog No. **HJ6AXX25** ✓10G

XX = See Jack Color Options below.

XX = Jack Color Options

AL=Almond	BK=Black	B=Blue	EI=Electric Ivory	GL=Gold	GY=Gray	GN=Green	LA=Light Almond
OW=Office White	OR=Orange	P=Purple	R=Red	TI=Telco Ivory	W=White	Y=Yellow	

HUBBELL Xcelerator

NEXTSPEED® and SPEEDGAIN®
Category 6, 5e, 3, and USOC Jacks

Features/Benefits

- PoE tested and verified.
- Universal Hubbell keystone design fits into all Hubbell iSTATION™ and Delivery Plus™ products.
- Exclusive 1-Punch termination tool and QuickLace™ combination.
- 15 different colors aids identification of multiple applications.

Specifications

- ◆ Construction Material:
  - Housing: High impact Thermoplastic (UL 94V-0).
  - Stuffer cap: Lexan (UL 94V-0).
  - Dust cover: Polypropylene.
- ◆ Nose contacts:
  - Material: Beryllium Copper with Precious Metal plating with Nickel under-plating.
- ◆ IDC contacts: Phosphor Bronze with 100 micro-inch Tin plating over Nickel under-plating.

Termination Towers
- Easy pair splitting.
- Simple lacing.
- Fast punch-down.

Stuffer Cap
- Secure strain relief.
- Positive "snap" latching.

Universal Wiring
- Two distinct labels eliminates wiring confusion, T568B or T568A.

HUBBELL Advantage

- Industry's First Tested Category 6 Component Compliant Jack.
- Labor Savings: Exclusive 1-Punch Termination Reduces Termination Time by 75%.
- Mating Cycles Exceed Industry Standards by 2 Times.
- Bulk Packaged to Eliminate Excess Packing Waste.

XCELERATOR™ Jacks, NEXTSPEED® and SPEEDGAIN® Category 6, 5e, 3 and USOC

RoHS

See Jack Color Options Below	Category 6	Category 5e	Category 3	RJ-25 (USOC)*	Color	RJ-61 (USOC)
Quantity = 1	**HXJ6XX**	**HXJ5EXX**	**HXJ3XX**	**HXJUXX**	Black	**HXJU8BK25**
Quantity = 25	**HXJ6XX25**	**HXJ5EXX25**	**HXJ3XX25**	-	Office White	**HXJU8OW25**

XX = See Jack Color Options below.

* Color exceptions: "P"=Purple and "GL"=Gold.

XX = Jack Color Options

AL=Almond	**BK**=Black	**B**=Blue	**EI**=Electric Ivory	**GL**=Gold	**GY**=Gray	**GN**=Green	**LA**=Light Almond
OW=Office White	**OR**=Orange	**P**=Purple	**R**=Red	**TI**=Telco Ivory	**W**=White	**Y**=Yellow	

Next**Speed**
HUBBELL

Superior Strain Relief
- Locking IDC stuffer cap ensures termination retention, securing wires during installation.

Performance
- 10GbE channel tested delivering 3Db of headroom @ 417MHz providing true 10GbE application assurance.

Reliability
- Application: Qualified for 10 Gigabit Ethernet Transmission IEEE 802.3an.
- Component: Third-Party verified for TIA-568-C Category 6 component - Third-Party verified for ISO 11801, Class E compliant.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Manufacturing: 100% factory tested.

Features/Benefits
- Zero Bit-Error channel performance.
- Controlled crosstalk.
- Quick and easy grounding.
- Backward compatible to Category 5e, 5.
- Hubbell keystone.
- Compatible with all **iSTATION**™ plates and modules.

Specifications
- Copper conductor diameter:
  - Solid: 0.40-0.65 mm/AWG 26/1-22/1
  - Stranded: 0.46-0.61 mm/AWG 27/7-24/7.
- Life (insertions): min. 750 cycles.
- Shielding housing: Zinc die-cast.

Standards
- ANSI/TIA-568-C.2 Category 6 component.
- UL Listed ISO/IEC 11801 and EN50173 2nd edition requirements for transfer impedance and shield effectiveness.
- IEC 60603-7-5 (draft) specifications for Category 6 and Category 5e screened connecting hardware.
- UL Listed 1863.

Shielded Jacks

Termination Technique
- User-friendly - requires no special tools.

IDC Formation
- Allows each pair to be segregated, suppressing pair-to-pair NEXT.

Stuffer Cap
- Wiring technique compartmentalizes pairs, ensuring maximum headroom.

Durability
- Die-cast construction provides superior durability and rigidity for any shielded installation.

Quick Grounding
- SJ6 jacks can be directly connected to grounding cables.

HUBBELL
Advantage
- Quick and Easy Terminal Grounding Connection.
- Tool Less Termination.
- Third-Party Tested and Verified.
- Bulk Packaged to Eliminate Excess Packing Waste.

NEXTSPEED® Shielded Jacks, Category 6/10GbE

RoHS

The **NEXTSPEED®** SJ6 jack features inversely oriented right-angled IDC contacts. It is designed to deliver a high level of reliability and consistency. This IDC formation allows each pair to be segregated to suppress pair-to-pair NEXT. With its mechanical die cast construction design, the **NEXTSPEED**® SJ6 has the durability and EMI protection needed for any shielded installation.

Category	Pckg. Quantity	B-Wired Catalog No.	A-Wired Catalog No.
6	2	**SJ62B** 10G	**SJ62A** 10G
6	24	**SJ624B** 10G	**SJ624A** 10G
5e	2	**SJ5EB**	**SJ5EA**
5e	24	**SJ5EB24**	**SJ5EA24**

Shield Colored Dust Covers
Delivery: 100 per package.

Color	Blue	Black	Green	Orange	Yellow
Catalog No.	**IDCSB**	**IDCSBK**	**IDCSGN**	**IDCSOR**	**IDCSY**

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Modular Jack Accessories

1-Punch XJ Termination Tool and Accessories

The "1-Punch" XJ Tool and **XCELERATOR**™ Jacks are made for each other. This tool should be used exclusively with **XCELERATOR**™ jacks. Additionally, it is necessary to use this with the HXTA termination aid.

XCELERATOR™ Jacks

Description	Catalog No.
1-Punch tool with head, blades and HXTA termination aid	**TX4P6A**
1-Punch Ascent tool replacement head	**TX4P6AH**
1-Punch Ascent tool replacement blades	**TX4P6ABL**
1-Punch XJ tool with head, blades and HXTA termination aid	**TX4P**
1-Punch XJ replacement head	**TX4PH**
1-Punch XJ replacement blades	**TX4PHBL**
1-Pair 110 blade	**TBLH**
Punch down tool, 1-pair	**TPDH**
Hand termination aid "Jack Knuckles" **XCELERATOR**™/Ascent	**HXTA**
Snap-X termination puck (Bag of 25)	**HXTP25**
Ascent termination puck	**HXTP2A5**

HXTA

TX4P

HXTP25

Jack Dust Covers

Features/Benefits
- Use with **XCELERATOR**™ modular jacks.
- Mounts within the icon slots located above the RJ45 opening.
- An icon can be housed on the dust cover in the center of RJ45 opening to provide port identification.

Specifications
- Material: Polypropylene.

NOTE: *Cannot be used with SJ Jack Series.*

Catalog. No.	**HXJDC25**

Jack Icons

Features/Benefits
- Color-coded icons snap easily onto the jack nose.

Specifications
- ANSI/TIA-606-B compatible.
- Flame-retardant material UL 94V-0.

Icons are offered in packs of 100 blank or with a computer or telephone molded in. Customize each blank icon with our preprinted icon booklet. NOTE: *Cannot be used with SJ Jack Series.*

Color	Blank	Computer	Telephone
See Code below	**IXX100**	**IXX100C**	**IXX100T**

XX = Icon Color Options

BK=Black	**B**=Blue	**BN**=Brown	**EI**=Electric Ivory	**GY**=Gray	**GN**=Green
OR=Orange	**P**=Purple	**R**=Red	**W**=White	**Y**=Yellow	

Jack Labels, Pre-Printed

Pre-printed icon booklet containing assorted clear icon labels to be applied on blank icons (shown above - sold in pack of 5 books). Each booklet has 11 pages with numerous labels ranging from A to G, FAX to Data.

Text color	Catalog No.	Text color	Catalog. No.
Black	**XPICONS**	White	**XPICONSW**

Audio Video Connectors

Hubbell's expanded line of high quality Audio Video connectors provide multimedia configurations to the desktop as well as the telecommunications closet. Hubbell's extensive offerings of S-Video, XLR, 15-pin "VGA style", RCA, 9-pin serial port, ¼" and 3.5mm stereo jacks, BNC and F connectors are provided in several different versions, delivering flexibility and ease-of-use to customize the work area to the exact configuration needed.

Sold in carton increments only. Carton contains - 25 keystone connectors (individually bagged).

RCA Connectors

RoHS

RCA 110 Punch Down

Recommended cable: Category 3, 5, 5e or 6 UTP.

Insulator Color	Blue	Green	Red	White	Yellow
Black Housing	SFRC110B	SFRC110GN	SFRC110R	SFRC110W	SFRC110Y

RCA Solder Coupler Termination

Recommended cable: 14-28 AWG Mini-Coax.

Insulator	Black	Blue	Green	Orange	Red
Housing: Office White only	SFRC	SFRCBOW	SFRCGNOW	SFRCOROW	SFRCR
Insulator	White	Yellow			
Housing: Office White only	SFRCW	SFRCY			
Insulator	Black	Blue	Green	Orange	Red
All other colors see Color Chart below	SFRCXX	SFRCBXX	SFRCGNXX	SFRCORXX	SFRCRXX
Insulator	White	Yellow			
All other colors see Color Chart below	SFRCWXX	SFRCYXX			

RCA Gold Pass-through, F/F Coupler

Insulator Color	Black	Blue	Green	Orange	Red
Housing: Office White only	SFRCBKFF	SFRCBFFOW	SFRCGNFFOW	SFRCORFFOW	SFRCRFF
Insulator Color	White	Yellow			
Housing: Office White	SFRCWFF	SFRCYFF			
Insulator Color	Black	Blue	Green	Orange	Red
All other colors see Color Chart below	SFRCBKFFXX	SFRCBFFXX	SFRCGNFFXX	SFRCORFFXX	SFRCRFFXX
Insulator Color	White	Yellow			
All other colors see Color Chart below	SFRCWFFXX	SFRCYFFXX			

RCA Recessed Gold Pass-through, F/F Coupler

Insulator Color	Black	Blue	Green	Orange	Red
Housing see below	SFRCRBKXX	SFRCRBXX	SFRCRGNXX	SFRCRORXX	SFRCRRXX
Insulator Color	White	Yellow			
All other colors see Color Chart below	SFRCRWXX	SFRCRYXX			

XX = Connector Color Options

AL=Almond	BK=Black	EI=Electric Ivory	GY=Gray	LA=Light Almond	OW=Office White	W=White

F-Type Connectors

F-Connector, Pass-Through, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFFALX**	**SFFLAX**	**SFFBX**	**SFFEX**	**SFFGX**

Housing Color	Office White	White
Catalog No.	**SFFX**	**SFFWX**

F-Connector, Gold, Pass-Through, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFFGAL**	**SFFGLA**	**SFFGBK**	**SFFGEI**	**SFFGGY**

Housing Color	Office White	White
Catalog No.	**SFFGOW**	**SFFGW**

F-Connector, Gold, Recessed, Pass-Through, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFGRFAL**	**SFGRFLA**	**SFGRFBK**	**SFGRFEI**	**SFGRFGY**

Housing Color	Office White	White
Catalog No.	**SFGRFOW**	**SFGRFW**

RCA to F-Connector, Gold, Pass-Through, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFRFGAL**	**SFRFGLA**	**SFRFGBK**	**SFRFGEI**	**SFRFGGY**

Housing Color	Office White	White
Catalog No.	**SFRFGOW**	**SFRFGW**

RG59 Male to RG6 Female Coupler, 10-pk

Use with Recessed F-Connector

Catalog No.	**RG59A10**

F and RCA Plugs and Tools

Termination Type	Cable Type	No. of Pieces	Catalog No.
Compression	RG6	1	**FRG625**
Compression	RG59	1	**FRG5925**
Crimp	RG6	1	**FRG6C25**
Compression	RG59	1	**RG59FC**
Push on plug	RG59	1	**RG59FPO**

Tools	Catalog No.
Crimp Tool Frame (die-sets sold separately)	**UCT**
RG6 and RG59 Crimp Die-Set	**CDTSRG659**
RG6 and RG59 Compression Tool	**COMPTRG659**

FRG625

UCT   *COMPTRG659*

WORK STATION

Audio Video Connectors

Audio Video Connectors

S-Video Connectors

S-Video F/4-pin DIN Connector to 110 Termination

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**SFSV110AL**	**SFSV110BK**	**SFSV110EI**	**SFSV110GY**

Housing Color	Office White	White
Catalog No.	**SFSV110OW**	**SFSV110W**

S-Video 4-pin DIN, Pass-Through, F/F Coupler

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**SFSVAL**	**SFSVBK**	**SFSVEI**	**SFSVGY**

Housing Color	Office White	White
Catalog No.	**SFSVOW**	**SFSVW**

Stereo Jacks, 3.5mm

Stereo Jack, 3.5mm, Solder

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SF35SJAL**	**SF35SJLA**	**SF35SJBK**	**SF35SJEI**	**SF35SJGY**

Housing Color	Office White	White
Catalog No.	**SF35SJ**	**SF35SJW**

Stereo Jack, 3.5mm, Screw Terminal

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SF35STAL**	**SF35STLA**	**SF35STBK**	**SF35STEI**	**SF35STGY**

Housing Color	Office White	White
Catalog No.	**SF35STOW**	**SF35STW**

Stereo Jack, Pass-Through, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SF35FFAL**	**SF35FFLA**	**SF35FFBK**	**SF35FFEI**	**SF35FFGY**

Housing Color	Office White	White
Catalog No.	**SF35FFOW**	**SF35FFW**

Stereo Jack, Pass-Through, Gold, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SF35GFFAL**	**SF35GFFLA**	**SF35GFFBK**	**SF35GFFEI**	**SF35GFFGY**

Housing Color	Office White	White
Catalog No.	**SF35GFFOW**	**SF35GFFW**

Bulk 3.5mm Connectors, 10-Pack

	Solder	Feed-Through	Screw Termination
Catalog No.	**35S10**	**35FF10**	**35ST10**

Stereo Jack, ¼", Solder

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SF14SJAL**	**SF14SJLA**	**SF14SJBK**	**SF14SJEI**	**SF14SJGY**

Housing Color	Office White	White
Catalog No.	**SF14SJOW**	**SF14SJW**

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Gold Speaker Post Connectors and Banana Plugs

Speaker Post, Gold, Black, Screw Termination

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFSPGBKAL**	**SFSPGBKLA**	**SFSPGBKBK**	**SFSPGBKEI**	**SFSPGBKGY**

Housing Color	Office White	White			
Catalog No.	**SFSPGBK**	**SFSPGBKGW**			

Speaker Post, Gold, Red, Screw Termination

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFSPGRAL**	**SFSPGRLA**	**SFSPGRBK**	**SFSPGREI**	**SFSPGRGY**

Housing Color	Office White	White			
Catalog No.	**SFSPGR**	**SFSPGRGW**			

Speaker Banana Plugs, Gold, Screw Termination, 10-Packs

	Black	Red
Catalog No.	**SPPBK10**	**SPPR10**

BNC Connectors

BNC Connector, Pass-Through, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFBAL**	**SFBLA**	**SFBBK**	**SFBEI**	**SFBGY**

Housing Color	Office White	White			
Catalog No.	**SFBOW**	**SFBW**			

BNC Connector, Gold, Pass-Through, F/F Coupler

Housing Color	Almond	Light Almond	Black	Electric Ivory	Gray
Catalog No.	**SFBGAL**	**SFBGLA**	**SFBGBK**	**SFBGEI**	**SFBGGY**

Housing Color	Office White	White			
Catalog No.	**SFBGOW**	**SFBGW**			

Blank Connectors, 10-Pack

Blank Connector

Housing Color	Black	Electric Ivory	Gray	Office White	White
Catalog No.	**SFBB10**	**SFBEI10**	**SFBG10**	**SFB10**	**SFBW10**

Blank Connector, Smooth

The smooth blank connectors are used with the NSP wall plates found on page B28.

Housing Color	Almond	Light Almond	Black	Gray	White
Catalog No.	**SFSBAL10**	**SFSBLA10**	**SFSBBK10**	**SFSBGY10**	**SFSBW10**

Audio Video Connectors
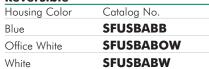
USB Connectors

USB Coupler, A to A, 2.0

Housing Color	Catalog No.
Blue	**SFUSBAAB**
Office White	**SFUSBAAOW**
White	**SFUSBAAW**

USB Coupler, A to B, 2.0 Reversible

Housing Color	Catalog No.
Blue	**SFUSBABB**
Office White	**SFUSBABOW**
White	**SFUSBABW**

6-Pin DIN Connectors

6-Pin, DIN, Keyboard, Pass-Thru, F/F Coupler

Catalog No.	**SF6PK**

6-Pin, DIN, Monitor, Pass-Thru, F/F Coupler

Catalog No.	**SF6PM**

Data Couplers

Category 6, Pass-Thru, F/F Coupler

Housing Color	Catalog No.
Black	**SFC6BK**
White	**SFC6W**

Category 5e, Pass-Thru, F/F Coupler

Housing Color	Catalog No.
Black	**SFC5EBK**
White	**SFC5EW**

Category 5e, Cross Over 10/100BASE-T, F/F Coupler

Housing Color	Catalog No.
Gray	**SF5ECOGY**

HUBBELL OptiChannel Keystone Adapters

LC Duplex, Flush Mount, Keystone Adapter

Phosphor Bronze Sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFFLCAL**	**SFFLCBK**	**SFFLCEI**	**SFFLCG**	**SFFLCLA**	**SFFLC**	**SFFLCW**

Zirconia Sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFFLCSAL**	**SFFLCSBK**	**SFFLCSEI**	**SFFLCSG**	**SFFLCSLA**	**SFFLCS**	**SFFLCSW**

LC Duplex, Keystone Adapter

Phosphor Bronze Sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFLCAL**	**SFLCBK**	**SFLCEI**	**SFLCG**	**SFLCLA**	**SFLC**	**SFLCW**

Zirconia Sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFLCSAL**	**SFLCSBK**	**SFLCSEI**	**SFLCSG**	**SFLCSLA**	**SFLCS**	**SFLCSW**

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HUBBELL **Opti**Channel **Keystone Adapters**

SC Simplex, Flush Mount, Keystone Adapter

Phosphor Bronze Sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFFSCAL**	**SFFSCBK**	**SFFSCEI**	**SFFSCG**	**SFFSCLA**	**SFFSC**	**SFFSCW**

Zirconia Sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFFSCSAL**	**SFFSCSBK**	**SFFSCSEI**	**SFFSCSG**	**SFFSCSLA**	**SFFSCS**	**SFFSCSW**

SC/APC, Simplex, Keystone Adapter

Zirconia sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFSCAAL**	**SFSCABK**	**SFSCAEI**	**SFSCAGY**	**SFSCALA**	**SFSCAOW**	**SFSCAW**

SC Simplex, Keystone Adapter

Phosphor Bronze sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFSCAL**	**SFSCBK**	**SFSCEI**	**SFSCG**	**SFSCLA**	**SFSC**	**SFSCW**

Zirconia sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFSCSAL**	**SFSCSBK**	**SFSCSEI**	**SFSCSG**	**SFSCSLA**	**SFSCS**	**SFSCSW**

MT-RJ, Flush Mount, Keystone Adapter

MM.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond
Catalog No.	**FAMTRJKAL**	**FAMTRJKBK**	**FAMTRJKEI**	**FAMTRJKG**	**FAMTRJKLA**

Color	Office White	White
Catalog No.	**FAMTRJK**	**FAMTRJKW**

MT-RJ, Keystone Adapter

MM. Delivery: 25-carton.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond
Catalog No.	**SFMTRJAL**	**SFMTRJBK**	**SFMTRJEI**	**SFMTRJG**	**SFMTRJLA**

Color	Office White	White
Catalog No.	**SFMTRJ**	**SFMTRJW**

ST-style to SC Simplex, Keystone Adapter

Phosphor Bronze sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFSCSTAL**	**SFSCSTBK**	**SFSCSTEI**	**SFSCSTG**	**SFSCSTLA**	**SFSCST**	**SFSCSTW**

Zirconia sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFSCSTSAL**	**SFSCSTSBK**	**SFSCSTSEI**	**SFSCSTSG**	**SFSCSTSLA**	**SFSCSTS**	**SFSCSTSW**

ST-style Keystone Adapter

Phosphor Bronze sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFSTAL**	**SFSTBK**	**SFSTEI**	**SFSTG**	**SFSTLA**	**SFST**	**SFSTW**

Zirconia sleeves.

Color	Almond	Black	Electric Ivory	Gray	Lt. Almond	Office White	White
Catalog No.	**SFSTSAL**	**SFSTSBK**	**SFSTSEI**	**SFSTSG**	**SFSTSLA**	**SFSTS**	**SFSTSW**

HUBBELL iStation

Integrated AV Modular System
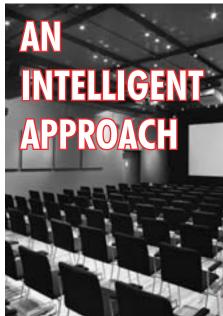
iSTATION™ products provide a consistent and practical solution for delivering all types of connections. The **iSTATION™** system tackles convergence by locating AV Solutions where you need them: On the wall, In the wall, On the floor, In the floor, In the table, On a rack, In a cabinet.

The **iSTATION™** approach makes adding a connection straight forward and effortless all the while maintaining a clean, uniform look.

AN INTELLIGENT APPROACH

HUBBELL Advantage

■ Most Extensive Audio Video and Voice/Data Offering in the Industry.

■ Simple Field Configuration.

■ Provides One Solution for all Delivery System Applications.

■ AV Assemblies Made to Length Eliminating Cable Waste.

Specifications

◆ ANSI/TIA-606-B station labeling capability.

◆ UL and cUL listed.

◆ Flush mounting with box eliminators.

◆ Front loading installation.

Extensive Voice/Data/Audio Video Applications.

In-Wall	**iSTATION™** **Modular Frames** *See page B22* • *Voice/Data/Video.* • *Audio in a single Box.* • *High-density.* • *Modular Solutions.*	*Keystone Plate* *iSTATION™ Frame*
	MULTI-CONNECT® **Wall Boxes** *See page B24* • *Multi-Service.* • *Voice/Data/Video.* • *Power and Low-Voltage.*	*MULTICONNECT®*
On-Wall	**POLYTRAK® Raceway** *See Section J* • *Single, 2-Channel, 3-Channel.* • *Low-Voltage or Power Applications.* • *Metal and Non-metallic.*	*Raceway* *Furniture Plate*
In-Floor	**3-Service** **Concrete Floor Box,** *See Section I* **Large Capacity** **Concrete Floor Box,** *See Section I* **Raised Access Floor Box** *See Section I*	*Floor Box* *Large Capacity Floor Box*
Through-Floor	**Fire-Rated** **Poke Throughs** *See Section I* • *Power and Low-Voltage.* • *Voice/Data/Video.* • *Retrofit and Expansions.* • *Furniture Feed Capability.*	*Poke-Thru*
In Rack or Cabinet	**UDX Multimedia Panels** *See page E10* • *Angled Panels.* • *UDX Multimedia Panels.* • *Jack Panel Kits.* • *Category 6A, 6, 5e, 3 - AV* *and Fiber Optic applications.*	*Multimedia Panel*

HUBBELL iStation Audio Video Modules

Solder Audio Video Modules

RoHS

RCA Component Video with Left/Right Audio or RGBHV, Solder, 1.5 Unit

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMCRS15AL**	**IMCRS15BK**	**IMCRS15EI**	**IMCRS15GY**

Housing Color	Office White	White
Catalog No.	**IMCRS15OW**	**IMCRS15W**

RCA Component, Video, Solder, 1 Unit

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMCRS1AL**	**IMCRS1BK**	**IMCRS1EI**	**IMCRS1GY**

Housing Color	Office White	White
Catalog No.	**IMCRS1OW**	**IMCRS1W**
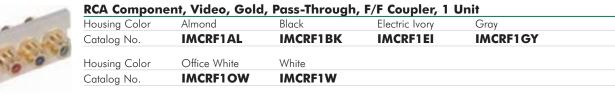
RCA Composite Video with Left/Right Audio, Solder, 1 Unit

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IM3RS1AL**	**IM3RS1BK**	**IM3RS1EI**	**IM3RS1GY**

Housing Color	Office White	White
Catalog No.	**IM3RS1OW**	**IM3RS1W**

RCA Composite Video, 3.5mm Stereo Audio Jack, Solder, 1 Unit

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMRSJ1AL**	**IMRSJ1BK**	**IMRSJ1EI**	**IMRSJ1GY**

Housing Color	Office White	White
Catalog No.	**IMRSJ1OW**	**IMRSJ1W**

Gold Feed-Through Audio Video Modules

RoHS

RCA Component, Video, Gold, Pass-Through, F/F Coupler, 1 Unit

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMCRF1AL**	**IMCRF1BK**	**IMCRF1EI**	**IMCRF1GY**

Housing Color	Office White	White
Catalog No.	**IMCRF1OW**	**IMCRF1W**

RCA Composite, Video w/ Left/Right Audio, Gold, Pass-Through, F/F Coupler, 1 Unit

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IM3RF1AL**	**IM3RF1BK**	**IM3RF1EI**	**IM3RF1GY**

Housing Color	Office White	White
Catalog No.	**IM3RF1OW**	**IM3RF1W**

RCA Left/Right Audio with 3.5mm Stereo Audio Jack, Gold, Feed-Through, F/F Coupler, 1 Unit

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IM35AR1AL**	**IM35AR1BK**	**IM35AR1EI**	**IM35AR1GY**

Housing Color	Office White	White
Catalog No.	**IM35AR1OW**	**IM35AR1W**

Gold Speaker Posts Modules and Banana Plugs

RoHS

Speaker Post, Gold, Black and Red, Screw Termination

Housing Color	Almond	Black	Electric Ivory	Gray	Office White	White
Catalog No.	**IMSP1AL**	**IMSP1BK**	**IMSP1EI**	**IMSP1GY**	**IMSP1OW**	**IMSP1W**

Speaker Banana Plugs, Gold, Screw Termination, 10-Packs

	Black	Red
Catalog No.	**SPPBK10**	**SPPR10**

HUBBELL iStation   **Audio Video Modules**

110 Audio Video Modules

RCA Component Video to 110 Termination, 1 Unit
75' max. High Definition, Category 3, 5, 5e, 6 UTP

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMCR1101AL**	**IMCR1101BK**	**IMCR1101EI**	**IMCR1101GY**

Housing Color	Office White	White		
Catalog No.	**IMCR1101OW**	**IMCR1101W**		

S-Video, with Left/Right RCA Audio to 110 Termination, 1 Unit
100' max. Category 3, 5, 5e, 6 UTP

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMSR1101AL**	**IMSR1101BK**	**IMSR1101EI**	**IMSR1101GY**

Housing Color	Office White	White		
Catalog No.	**IMSR1101OW**	**IMSR1101W**		

S-Video, 3.5mm Stereo Audio Jack to 110 Termination, 1 Unit
100' max. Category 3, 5, 5e, 6 UTP

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMSV351101AL**	**IMSV351101BK**	**IMSV351101EI**	**IMSV351101GY**

Housing Color	Office White	White		
Catalog No.	**IMSV351101OW**	**IMSV351101W**		

RCA Composite Video with Left/Right Audio to 110 Termination, 1 Unit
100' max. Category 3, 5, 5e, 6 UTP

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMR1101AL**	**IMR1101BK**	**IMR1101EI**	**IMR1101GY**

Housing Color	Office White	White		
Catalog No.	**IMR1101OW**	**IMR1101W**		

RCA Left/Right Audio 110 Termination, 1 Unit
100' max. Category 3, 5, 5e, 6 UTP

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**IMAR1101AL**	**IMAR1101BK**	**IMAR1101EI**	**IMAR1101GY**

Housing Color	Office White	White		
Catalog No.	**IMAR1101OW**	**IMAR1101W**		

15-pin VGA, 9-pin Screw Terminal and Gender Changer Connections

HD 9-pin F/F Coupler
10-Pack

Catalog No.	**9GC10**

HD 9-pin Screw Term
10-Pack

Catalog No.	**9ST10**

HD 15-pin F/F Coupler
10-Pack

Catalog No.	**15GC10**

HD 15-pin Screw Term
10-Pack

Catalog No.	**15ST10**

HUBBELL iStation — Audio Video Modules

Pro AV Panel Mount Connectors and Modules

RoHS

Blank AV Panel Mount Module, 1.5 Unit, 10-Pack

Housing Color	Almond	Black	Electric Ivory	Gray	Office White	White
Catalog No.	**IMAVB15AL**	**IMAVB15BK**	**IMAVB15EI**	**IMAVB15GY**	**IMAVB15OW**	**IMAVB15W**

XLR 3-pin, Screw Termination

Female, 10-Pack
Catalog No. **XLRST10**

XLR 3-pin, Solder

Female, 10-Pack
Catalog No. **XLR10**

¼" Stereo Jack

Solder, Female, 10-Pack
Catalog No. **14S10**

SPEAKON®

2-pole, Female, 10-Pack
Catalog No. **SC10**

USB Connection

Coupler, 10-Pack
Catalog No. **USB10**

IEEE 1394 Fire Wire™

Connection Coupler, 10-Pack
Catalog No. **139410**

*NOTE: See page E10 for AVI and Pro AV Panels. All Pro-AV Connectors and Modules are available in 10-Packs only.
FireWire™ is a trademark of Apple.*

Loaded Pro AV Modules

RoHS

Mini XLR, Solder, 1 Unit

Housing Color	Almond	Black	Electric Ivory	Gray	Office White	White
Catalog No.	**IMXLR1AL**	**IMXLR1BK**	**IMXLR1EI**	**IMXLR1GY**	**IMXLR1OW**	**IMXLR1W**

15-pin Screw Term, 3.5mm Stereo Jack Screw Term, XLR Screw Term, 2 Unit

Housing Color	Almond	Black	Electric Ivory	Gray	Office White	White
Catalog No.	**IM153X2AL**	**IM153X2BK**	**IM153X2EI**	**IM153X2GY**	**IM153X2OW**	**IM153X2W**

DVI Connectors, Converters and Modules

RoHS

Blank DVI Module, 1.5 Unit

Housing Color	Almond	Black	Electric Ivory	Gray	Office White	White
Single	**IMBDVI15AL**	**IMBDVI15BK**	**IMBDVI15EI**	**IMBDVI15GY**	**IMBDVI15OW**	**IMBDVI15W**
10-Pack	**IMBDVI1015AL**	**IMBDVI1015BK**	**IMBDVI1015EI**	**IMBDVI1015GY**	**IMBDVI1015OW**	**IMBDVI1015W**

DVI-I F/F Coupler

10-Pack
Catalog No. **DVI10**

DVI-I F/F Coupler

1-Pack
Catalog No. **DVI1**

DVI to 15-pin

F/F Coupler, 1-Pack
Catalog No. **DVI151**

DVI to HDMI

F/F Coupler, 1-Pack
Catalog No. **DVIHDMI1**

HUBBELL iStation
HDMI Connectors and Patch Cords

Performance
- 24AWG custom 1.3 HDMI cable designed for full 1080p video and flawless audio.

Versatility
- HDMI connection is supported in all Hubbell iSTATION™ products which include Work Station, Delivery, and Cross Connect.

Simplicity
- The HDMI plug-n-play feature saves valuable installation and testing time in the field.

Reliability
- Locking interface ensures mated connection stays terminated.

Superior Strain Relief
- Over-molded connections protect the cable and connectors during and after the installation.

Capacity
- Small form factor connector allows up to 3 HDMI connections in a single gang.

Specifications
- ◆ Connector: 2 micro-inch Gold-plated.
- ◆ Version: 1.3.
- ◆ Audio Signal: PCM, DVD-Audio, Super Audio CD, Dolby True HD, DTS-HD Master Audio.
- ◆ Video Signal: 480i, 480p, 720p, 1080i, 1080p.
- ◆ Pins: 19.

c(UL)us

HUBBELL Advantage

- ■ Locking Connection Interface.
- ■ 3" Application Tail Provides Flexibility and Ease-of-Use for Installations with Capacity Issues.
- ■ Full High Definition 1080p Signal Transmission, HDMI 1.3.
- ■ Assemblies Made to Length Eliminates Cable Waste.

HDMI Horizontal Active and Non-Active Horizontal Patch Cords

RoHS

Patch Cords, 24AWG

Description	Catalog No.
3', Black	**HDPC03BK**
6', Black	**HDPC06BK**

Horizontal Cords, 24AWG
(connector-to-connector)

Description	Catalog No.
Black	**HDH**BK**

Link Cords, 24AWG
(connector-to-device)

Description	Catalog No.
Black	**HDL**BK**

Coupler Cords, 24AWG
(coupler-to-device)

Black	**HDC**BK**

** = Length: "10"=10'; "15"=15'; "20"=20'; "25"=25'; "30"=30'. Black and non-plenum only.

HDMI Connectors

RoHS

HDMI Coupler
Gold, Female-Female

	1-pk	10-pk
Catalog No.	**HDMIC1**	**HDMIC10**

See page B23 for HDMI modules.

HDMI 3" Tail
Gold, Female-Female

	1-pk	10-pk
Catalog No.	**HDMIT1**	**HDMIT10**

HDMI Decorator Frame
Gold, Female-Female

	1-port	2-port
Catalog No.	**NS801XX**	**NS802XX**

XX = Frame Color Options

AL=Almond	**BK**=Black	**EI**=Electric Ivory	**GY**=Gray	**LA**=Light Almond	**OW**=Office White	**W**=White

HUBBELL iStation

Plug-n-Play X-END™ AV System

Performance
- Custom AV cable is designed for minimal signal loss delivering a transparent video and flawless audio.

Flexibility
- Supports multiple applications and connector configurations.

Simplicity
- The X-END™ plug-n-play feature saves valuable installation and testing time in the field.

Versatility
- The uniqueness of X-END™ allows the user to swap out application patch cords and tails utilizing the same connection without changing the horizontal runs.
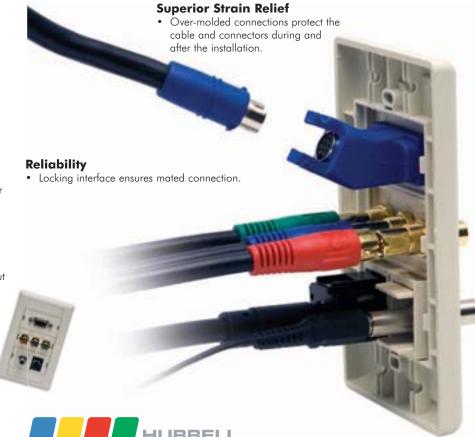
Small Form Factor
- The X-END™ horizontal cable runs can easily be pulled through ¾" conduit without any issue.

Capacity
- Allows up to 6 keystone connections or 3 1 Unit modules in a single gang delivering the equivalent of up to 30 connectors in a single plate.

Superior Strain Relief
- Over-molded connections protect the cable and connectors during and after the installation.

Reliability
- Locking interface ensures mated connection.

Specifications
- ◆ Connector contacts
  15-pin: 2 micro-inch Gold-plated.
  8-pin: Brass, Nickel-plated.
- ◆ Module material: Flame Retardant Polymer, rated UL 94V-0.
- ◆ Cable type: 28AWG, 75 Ohm.
  5 mini Coax: Plenum
  5 mini Coax: Non-Plenum
  100% factory terminated and tested.

HUBBELL Advantage

- ■ Locking Connection Interface.
- ■ 3" Application Tail Provides Flexibility and Ease-of-Use for Installations with Capacity Issues.
- ■ Up to 1080i RGB (Component) Transmission.
- ■ Assemblies Made to Length Eliminates Cable Waste.

AV Plug-n-Play Horizontal Runs

Description	Catalog No.
Audio Video, 8-pin Non-Plenum, Black	**VGA6XXBK**
Audio Video, 8-pin Plenum, Black	**VGA6PXXBK**

XX = Length: "**05**" = 5'; "**10**" = 10'; "**15**" = 15'; "**20**" = 20'; "**25**" = 25'; "**30**" = 30'; "**35**" = 35'; "**40**" = 40'; "**45**" = 45'; "**50**" = 50'; "**55**" = 55'; "**60**" = 65'; "**70**" = 70'; "**75**" = 75'; "**80**" = 80'; "**85**" = 85'; "**90**" = 90'; "**95**" = 95'; "**100**" = 100'.

* Maximum supported distance varies by application and resolution. Refer to X-END™ brochure for details.

AV Plug-n-Play 8-Pin Keystone Connectors

Housing Color	Black	Blue	Brown	Electric Ivory	Gray	Green
Catalog No.	**SFAVCBK**	**SFAVCB**	**SFAVCBN**	**SFAVCEI**	**SFAVCGY**	**SFAVCGN**
Housing Color	Office White	Orange	Red	White	Yellow	
Catalog No.	**SFAVCOW**	**SFAVCOR**	**SFAVCR**	**SFAVCW**	**SFAVCY**	

AV Plug-n-Play 8-Pin iSTATION™ Modules

Audio Video 8-pin (F)

Description	3 RCA Component, Video, 1 Unit	S-Video with 2 RCAs Left/Right Audio, 1 Unit	S-Video, 3.5mm 1 Unit	3 RCA Composite Video with Left/Right Audio, 1 Unit
Catalog No.	**IMCR81XX**	**IMSRA81XX**	**IMS3581XX**	**IMR8P1XX**

Audio Video 8-pin (F)

Description	3 RCA Component Video w/S/PDIF, 1.5 Unit	3 RCA Component Video with Left/Right Audio, 1.5 Unit	3 RCA Composite Video w/S-Video, 1.5 Unit	3 RCA Component with 3.5mm, 1.5 Unit
Catalog No.	**IMCRD815XX**	**IMCAR815XX**	**IMSRC815XX**	**IMC35815XX**

Audio 8-pin (F)

Description	XLR 3-pin Male, 3.5mm 1.5 Unit	XLR 3-pin Female, 3.5mm 1.5 Unit
Catalog No.	**IM3XM815XX**	**IM3XF815XX**

Video 8-pin (F)

Description	3 RCA Component with S-Video, 1.5 Unit	5-BNC RGBHV, 1.5 Unit
Catalog No.	**IMSCR815XX**	**IMB815XX**

XX = Module Color Options

AL=Almond	**BK**=Black	**EI**=Electric Ivory	**GY**=Gray	**LA**=Light Almond	**OW**=Office White	**W**=White

AV Plug-n-Play X-END™ Application Patching Runs

Description	Catalog No.
Audio Video, 8-pin Female, S-Video with 3.5mm	**AVS35XX**
Audio Video, 8-pin Female, S-Video with 2 RCA L/R Audio	**AVSRAXX**
Audio Video, 8-pin Female, 3 RCA Composite Video with L/R Audio	**AVRCXX**
Video, 8-pin Female, 3 RCA Component Video	**AVCRXX**
Audio Video, 8-pin Female, 3 RCA Component Video with S/PDIF	**AVCRDXX**
Audio Video, 8-pin Female, 5 RCA Component Video with L/R Audio or RGBHV	**AVCARXX**
Video, 8-pin Female, 3 RCA Component with S-Video	**AVSCRXX**
Audio Video, 8-pin Female, S-Video, 3 RCA Composite Video with L/R Audio	**AVSRCXX**
Audio Video, 8-pin Female, 3 RCA Component with 3.5mm Stereo Jack	**AVC35XX**
Video, 8-pin Female, 5-BNC RGBHV	**AVBXX**
Audio, 8-pin Female, XLR 3-pin Male, 3.5mm Stereo Jack	**AV3XMXX**
Audio, 8-pin Female, XLR 3-pin Female, 3.5mm Stereo Jack	**AV3XFXX**

XX = Length: "**05**" = 5'; "**10**" = 10'; Male, 8-pin; "**T1**" = 1'; Female, 8-pin.

VGA Plug-n-Play X-end Connections, 15-Pin (F) to 8-Pin (F)

The most innovative approach to VGA termination, saving valuable time on the job site.

					15-pin Male to 8-pin Female 8" Tail	
Quantity	Straight 180°	Angled 45°	Angled 90°	8" Tail	Non-Plenum	Plenum
1-Pack	**15S6P1**	**15A6P1**	**15N6P1**	**15T6P1**	**15M6P1**	**15MP6P1**
10-Pack	**15S6P10**	**15A6P10**	**15N6P10**	**15T6P10**	**15M6P10**	**15MP6P10**

AV Cable Latching Boot with Label Field

Use for application instructions.

Description	Catalog No. 1-pk	Catalog No. 10-pk
AV Cable Latching Boot with Label Field	**CB1**	**CB10**

www.hubbell-premise.com   **Call 1-800-626-0005**   **B21**

HUBBELL
iStation

Front-Loading Frames and Bezels

iSTATION™ Raceway Bezel

HUBBELL Advantage
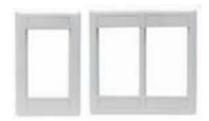
- ■ Accommodates industry's most extensive line of AV modules.
- ■ Front-loading access simplifies installation.
- ■ Application customizing at the work station.
- ■ Allows for future upgrades.

Features/Benefits

- ■ Flush Keystone mounting.
- ■ High density port count.
- ■ Field configurable.
- ■ UL and cUL listed.
- ■ Flush mounting with box eliminators.

---

iSTATION™ Modular Face Plate Frames

RoHS

The IMF series accept any modules in 3 unit combinations for single-gang; and 6 unit combinations for double-gang applications. Start by selecting a frame and then the required mix of modules.

	IMF Plate Frame 1-gang	IMF Plate Frame 2-gang
Unit Package	1 per Bag	1 per Bag
Order Qty.	Carton of 20	Carton of 10
Color	Catalog No.	Catalog No.
See below	**IMF1XX**	**IMF2XX**

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iSTATION™ Plates, Stainless Steel

RoHS

Gang	1-Gang	2-Gang	3-Gang	4-Gang
Catalog No.	**IMS1**	**IMS2**	**IMS3**	**IMS4**

IMS1 *IMS2*

Delivery Bezels and Modules

RoHS

	Raceway Bezel	iSTATION™ Bezel for Third-Party Raceway	MULTICONNECT® and Furniture Boxes
Unit Package	1 per Bag	1 per Bag	1 per Bag
Color	Catalog No.	Catalog No.	Catalog No.
Black	-	-	**HBLIMFBK**
Electric Ivory	-	-	**HBLIMFEI**
Gray	**KPIMBZGY**	**HWAPLGY**	**HBLIMFGY**
Office White	**KPIMBZOW**	**HWAPLOW**	-
White	**KPIMBZW**	**HWAPLW**	**HBLIMFW**

KPIMBZOW HWAPLOW HBLIMFGY

Integration Module, 2-port

RoHS

Delivery: 10 Integration Modules, unloaded.

Ports	Color	Catalog No.
2	Ivory (Equivalent to Hubbell Office White)	**HWM2KI10**
2	Gray	**HWM2KGY10**
2	White	**HWM2KW10**

HWM2KI10 HWM2KGY10

XX = Plate Color Options

AL=Almond	**BK**=Black	**EI**=Electric Ivory	**GY**=Gray	**LA**=Light Almond	**OW**=Office White	**W**=White

iSTATION™ Unloaded Modules

RoHS

Color	**KEYSTONE** 1-port, Flat 1 Unit	**KEYSTONE** 2-port, Flat 1 Unit	**KEYSTONE** 1-port, Angled 1.5 Unit	**KEYSTONE** 2-port, Angled 1.5 Unit	**SC ANGLED** 1 Duplex 1.5 Unit	**SC ANGLED** 2 Duplex 2 Unit
	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.
See below	**IM1K1XX**	**IM2K1XX**	**IM1KA15XX** ✔10G	**IM2KA15XX** ✔10G	**IM1SCA15XX**	**IM2SCA2XX**

Color	**BLANK** 0.5 Unit	**BLANK** 1 Unit	**BLANK** 1.5 Unit	**KEYSTONE** Recessed angle 1-Port, 1.5 Unit	**KEYSTONE** Recessed angle 2-Port, 1.5 Unit
	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.
See below	**IMB05XX**	**IMB1XX**	**IMB15XX**	**IM1IA15XX**	**IM2IA15XX**

Blank 15-pin/9-pin HDMI iSTATION™ Modules and Frames

RoHS

Blank, 1U	**Blank Angled, 1.5U**	**Blank, 1.5U**	**Blank, 2U**	**Blank Decorator Frame**
HD15/9-pin or HDMI	HD15/9-pin or HDMI	HD15/9-pin or HDMI with 3.5mm Stereo Jack	HD15/9-pin or HDMI with 3.5mm SJ+AV Conn	HD15/9-pin or HDMI 1-Gang
IMBDS1XX	**IMBDSA15XX**	**IMB15315XX**	**IMB153X2XX**	**ISFB15XX**

The iSTATION™ Frames accept 3 iSTATION™ 3 Units of module combinations in a Single-gang opening. See below for details.

3 Unit Opening

1
2
3

0.5 Unit	0.478"H
1 Unit	0.955"H
1.5 Unit	1.432"H
2 Unit	1.910"H

1.85"W

Module Color Options

AL=Almond	BK=Black	EI=Electric Ivory	GY=Gray	LA=Light Almond	OW=Office White	W=White

Unloaded AV Modules

MULTI-CONNECT® Recessed Wall Boxes

Separation barrier

Multiservice box

Face plate

Flange

Hubbell **MULTI-CONNECT®** Boxes provide a versatile "in the wall" solution for single and multi-service applications. Available in 1-, 2-, 3-, 4- and 6-gang boxes, barriers for separation and power and low voltage services, along with a wide variety of modular face plates and wall flanges to match office decor.

Features/Benefits

- ■ Blank face plate allows for expansion in future applications.
- ■ Combination knockouts support various cable fill requirements.
- ■ Barriers available to provide separation between power and low voltage.
- ■ Wall flange snaps onto box and assures clean appearance.

Specifications

- ◆ Material
  - Recessed wall box: 16 ga. pre-galvanized steel.
  - Device mounting platform: PVC.
- ◆ Adjustable stud mounting bracket for ½", ⅝", 1" or 1¼" wall board.

Multi-Service Recessed Wall Boxes

Gang	Height	Width	Depth	Access Type	Location	Qty.	Size	Catalog No.
1	4.44" (112.8)	2.56" (65)	2.75" (69.8)	Knockout	Top & bottom	1	½" x ¾"	**HBLWSCS1**
2	4.44" (112.8)	4.56" (115.8)	2.75" (69.8)	Knockout	Top & bottom	2	½" x ¾"	**HBLWSCS2**
3	4.44" (112.8)	6.56" (166.6)	2.75" (69.8)	Knockout	Top & bottom	3	½" x ¾"	**HBLWSCS3**
4	4.44" (112.8)	8.56" (217.4)	2.75" (69.8)	Knockout	Top & bottom	3	½" x ¾"	**HBLWSCS4**
				Knockout	Top & bottom	1	¾" x 1"	
6	4.44" (112.8)	12.56" (319)	2.75" (69.8)	Knockout	Top & bottom	4	½" x ¾"	**HBLWSCS6**
				Knockout	Top & bottom	1	¾" x 1"	
Separation barrier								**HBLWSCSBW**

1-Gang

2-Gang

Low-Voltage Recessed Wall Boxes

Gang	Height	Width	Depth	Access Type	Location	Qty.	Size	Catalog No.
2	4.88" (123.8)	4.75" (120.7)	3.5" (88.9)	Opening	Top & bottom	1	2"	**HBLWSCS2MMO** ✓10G
3	4.88" (123.8)	6.75" (171.4)	3.5" (88.9)	Knockout	Side	1	1¼"	**HBLWSCS3MMO** ✓10G
				Opening	Top	1	1¼"	
				Knockout	Top	4	½" x ¾"	
				Opening	Bottom	1	2"	
4	4.88" (123.8)	9.25" (235)	3.5" (88.9)	Knockout	Side	1	1¼"	**HBLWSCS4MMO** ✓10G
				Opening	Top	2	1¼"	
				Knockout	Top	4	½" x ¾"	
				Opening	Bottom	1	2"	
				Knockout	Bottom	1	½" x ¾"	
				Knockout	Bottom	1	¾" x 1"	
6	4.88" (123.8)	13.25" (336.6)	3.5" (88.9)	Knockout	Side	1	1¼"	**HBLWSCS6MMO** ✓10G
				Opening	Top	3	1¼"	
				Knockout	Top	6	½" x ¾"	
				Opening	Bottom	2	2"	
				Knockout	Bottom	1	½" x ¾"	
				Knockout	Bottom	1	¾" x 1"	

3-Gang

4-Gang

6-Gang

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Wall Box Flanges, Trim Rings

RoHS

Trim Ring, 1-Gang

Color	Catalog No.
Black	**HBLTRIM1WBK**
Gray	**HBLTRIM1WGY**
Ivory	**HBLTRIM1WI**
White	**HBLTRIM1WW**

HBLTRIM1WW

Trim Ring, 2-Gang

Color	Catalog No.
Black	**HBLTRIM2WBK**
Gray	**HBLTRIM2WGY**
Ivory	**HBLTRIM2WI**
White	**HBLTRIM2WW**

HBLTRIM2WW

Trim Ring, 3-Gang

Color	Catalog No.
Black	**HBLTRIM3WBK**
Gray	**HBLTRIM3WGY**
Ivory	**HBLTRIM3WI**
White	**HBLTRIM3WW**

HBLTRIM3WW

Trim Ring, 4-Gang

Color	Catalog No.
Black	**HBLTRIM4WBK**
Gray	**HBLTRIM4WGY**
Ivory	**HBLTRIM4WI**
White	**HBLTRIM4WW**

HBLTRIM4WW

Trim Ring, 6-Gang

Color	Catalog No.
Black	**HBLTRIM6WBK**
Gray	**HBLTRIM6WGY**
Ivory	**HBLTRIM6WI**
White	**HBLTRIM6WW**

HBLTRIM6WW

Modular Face Plates

RoHS

Plates available in either a snap in, screw-less version, or with standard screws.

iSTATION™

Color	Catalog No. with Screws	Catalog No. Snap In
Black	**HBLIMFSBK**	**HBLIMFBK**
Gray	**HBLIMFSGY**	**HBLIMFGY**
Elec. Ivory	**HBLIMFSI**	**HBLIMFI**
White	**HBLIMFSW**	**HBLIMFW**

HBLIMFGY

Keystone

Color	Catalog No. with Screws	Catalog No. Snap In
Black	**HBL317SBK**	**HBL317BK**
Gray	**HBL317SGY**	**HBL317GY**
Elec. Ivory	**HBL317SI**	**HBL317I**
White	**HBL317SW**	**HBL317W**

HBL317W

Decorator

Color	Catalog No. with Screws	Catalog No. Snap In
Black	**HBLDE301SBK**	**HBLDE301BK**
Gray	**HBLDE301SGY**	**HBLDE301GY**
Elec. Ivory	**HBLDE301SI**	**HBLDE301I**
White	**HBLDE301SW**	**HBLDE301W**

HBLDE301W

Duplex

Color	Catalog No. with Screws	Catalog No. Snap In
Black	**HBLST302SBK**	**HBLST302BK**
Gray	**HBLST302SGY**	**HBLST302GY**
Elec. Ivory	**HBLST302SI**	**HBLST302I**
White	**HBLST302SW**	**HBLST302W**

HBLST302W

Toggle
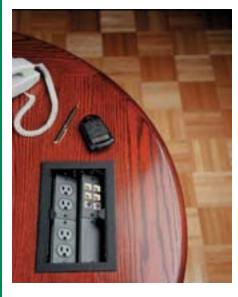
Color	Catalog No. with Screws	Catalog No. Snap In
Black	**HBLTO310SBK**	**HBLTO310BK**
Gray	**HBLTO310SGY**	**HBLTO310GY**
Elec. Ivory	**HBLTO310SI**	**HBLTO310I**
White	**HBLTO310SW**	**HBLTO310W**

HBLTO310W

Blank

Color	Catalog No. with Screws	Catalog No. Snap In
Black	**HBLBL300SBK**	**HBLBL300BK**
Gray	**HBLBL300SGY**	**HBLBL300GY**
Elec. Ivory	**HBLBL300SI**	**HBLBL300I**
White	**HBLBL300SW**	**HBLBL300W**

HBLBL300W

Furniture Connectivity Boxes

This family of furniture connectivity boxes assimilates into conference tables and individual work stations to bring power, voice, data, and Audio Video connectors directly to the point of use, providing a standard Hubbell aesthetic design and a wire-free look.

Features/Benefits
- Quick and easy installation, access and use.
- Seamless technology and aesthetics.
- Compliments desktop environments.

Specifications
- ◆ Durable powder coated 16 ga. Steel construction.
- ◆ Optional flip-up doors provide easy access to power and data devices.
- ◆ Integrated power and data separation reduces EMI.
- ◆ Field configurable voltage separator (included).
- ◆ Configurable for any combination of power, data, voice and multimedia connectivity.

RoHS

Furniture Connectivity Box, Square, Flush-Mount

HBLSHA2

Square, Flush Mount Boxes

With cover.

Gang	Finish	Catalog No.
2	Crinkle Black	**HBLSHA2**
2	Stainless steel	**HBLSHA2BSS**

Features/Benefits
- Mounts to conference table or work surface.
- Adjustable "hold downs" simplify installation.
- Configurable for power, voice, data and multimedia.
- Flip-up covers conceal box when not in use.

Furniture Connectivity Box, Rectangular, Flush-Mount

HBLPHA2

Rectangular, Flush Mount Boxes

With cover.

Gang	Finish	Catalog No.
2	Crinkle Black	**HBLPHA2**
4	Crinkle Black	**HBLPHA4**
2	Stainless steel	**HBLPHA2BSS**
4	Stainless steel	**HBLPHA4BSS**

Features/Benefits
- Mounts to conference table or work surface.
- Adjustable "hold downs" simplify installation.
- Configurable for power, voice, data and multimedia.
- Flip-up covers conceal box when not in use.

Furniture Connectivity Box, Surface Mount

HBLCON2

Surface Mount Boxes

Gang	Finish	Catalog No.
2	Crinkle Black	**HBLCON2**
4	Crinkle Black	**HBLCON4**

Features/Benefits
- Low-profile 2- and 3-gang designs.
- The angled profile compliments desktop environments.
- This enclosure provides durability without sacrificing aesthestics.

Furniture Connectivity Box, Recessed Mount

Recessed Mount Boxes

With cover.

Gang	Finish	Catalog No.
2	Crinkle Black	**HBLMIR2**
4	Crinkle Black	**HBLMIR4**

Features/Benefits

- Mounts to conference table or work surface.
- Secure under table "screw down" installation.
- Configurable for power, voice, data and multimedia.
- 90° recessed design facilitates cable routing.

HBLMIR4

Furniture Connectivity Box, Under Desk Mount

Under Desk Mount Boxes

Gang	Finish	Catalog No.
2	Crinkle Black	**HBLMAR2**
3	Crinkle Black	**HBLMAR3**

Features/Benefits

- Mounts to conference table or work surface.
- Secure under table "screw down" installation.
- Configurable for power, voice, data and multimedia.
- Low-profile.

HBLMAR2

Modular Face Plates

Delivery: 1 face plate with mounting screws.

Description	Catalog No. Black	Catalog No. Gray
iSTATION™	**HBLIMFSBK**	**HBLIMFSGY**
Keystone	**HBL317SBK**	**HBL317SGY**
Blank	**HBLBL300SBK**	**HBLBL300SGY**
Duplex	**HBLST302SBK**	**HBLST302SGY**
Single Receptacle Opening (1.39" Diameter)	**HBLTL319SBK**	**HBLTL319SGY**
Single Receptacle Opening (1.56" Diameter)	**HBLTL318SBK**	**HBLTL318SGY**
Decorator	**HBLDE301SBK**	**HBLDE301SGY**
Toggle	**HBLTO310SBK**	**HBLTO310SGY**

HBLIMFSBK   *HBL317SBK*   *HBLBL300SBK*

HBLST302SBK   *HBLTL319SBK*   *HBLTL318SBK*

HBLDE301SBK   *HBLTO310SBK*

Face Plates, Rear-Loading

Features/Benefits

- ■ Provides a rear loading, snap in, flush mounting of Hubbell jacks and AV keystone connectors.
- ■ Available in single and double-gang.
- ■ Individual port configurations allow specification flexibility.
- ■ All IFP plates are supplied with paper labels, clear screw covers, and color-matched screw covers.

Specifications

- ◆ UL listed and cUL certified.
- ◆ ANSI/TIA-606-B station labeling.
- ◆ UL 94V-0 rated flame-retardant material.
- ◆ Mounts to standard NEMA openings and boxes.

HUBBELL Advantage

- ■ Designed to flush mount with box eliminator.
- ■ Durable construction.
- ■ Complemented by a broad range of voice/data/video connectors

HUBBELL
HIlabel
Compatible with **Hubbell Labeling System** - see page M8.

IFP Face Plates, Single-Gang

	1-port	2-port	3-port	4-port	6-port
Unit Package	1 per Bag	1 per Bag	1 per Bag	1 per Bag	1 per Bag
Order Qty.	Carton of 25	Carton of 25	Carton of 25	Carton of 25	Carton of 25
Color	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.
See Color Code	**IFP11XX** 10G	**IFP12XX** 10G	**IFP13XX** 10G	**IFP14XX** 10G	**IFP16XX** 10G

IFP Face Plates, Double Gang

	6-port	9-port	12-port
Unit Package	1 per Bag	1 per Bag	1 per Bag
Order Qty.	Carton of 10	Carton of 10	Carton of 10
Color	Catalog No.	Catalog No.	Catalog No.
See Color Code	**IFP26XX** 10G	**IFP29XX**	**IFP212XX**

Multimedia Wall Plates

Accepts AV and Voice/Data connectors. High impact resistant thermoplastic plate. UL Listed 1863 - Communication Circuit Accessory and CSA Certified. See the Residential Section, page XX for more information.

Standard 1-Gang, 4.625" x 2.875" 10G

Ports	1-port	2-port	3-port	4-port	6-port
See Color Code	**NSP11XX**	**NSP12XX**	**NSP13XX**	**NSP14XX**	**NSP16XX**

Standard 2-Gang, 4.625" x 2.875" 10G

Ports	4-port	6-port
See Color Code	**NSP24XX**	**NSP26XX**

Midsize 1-Gang, 4.875" x 3.125" 10G

Ports	1-port	2-port	3-port	4-port	6-port
See Color Code	**NSP101XX**	**NSP102XX**	**NSP103XX**	**NSP104XX**	**NSP106XX**

Blank Wall Plates

Standard, Nylon

Ports	1-Gang	2-Gang	3-Gang	4-Gang
See Color Code	**NP13XX**	**NP23XX**	**NP33XX**	**NP43XX**

Mid-Size, Nylon

Ports	1-Gang	2-Gang
See Color Code	**NPJ13XX**	**NPJ23XX**

Angled Face Plates, 4-port

Color	Gray	Office White	Telco Ivory	White
Catalog No.	**AFP14G** 10G	**AFP14** 10G	**AFP14I** 10G	**AFP14W** 10G

XX = Plate Color Options

AL=Almond	**BK**=Black	**EI**=Electric Ivory	**GY**=Gray	**LA**=Light Almond	**OW**=Office White	**W**=White

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Stainless Steel Plates

HUBBELL
Advantage

- Designed to fit **iSTATION**™ modules and AV connectors.
- Ease of use: front and rear-loading capabilities.
- Easy AV application configuring.

HUBBELL
Hlabel Compatible with **Hubbell Labeling System** - see page M8.

Stainless Steel Faceplates - SSF, are designed for flush mount applications, accepting Hubbell's extensive line of jacks and AV connectors that snap mount flush into the keystone opening, creating an elegant stream-line look.

Features/Benefits

- Designed to accept UTP, Coax, and Fiber keystone connectors.
- Rear flush-mounting improves tamper resistance.

Specifications

- ◆ Type 430 stainless steel.
- ◆ Brushed stainless steel finish.

RoHS

SSF Stainless Steel Plates

Single-gang

	1-port	2-port	3-port	4-port	6-port
Unit Package	1 per Bag	1 per Bag	1 per Bag	1 per Bag	1 per Bag
Order Qty.	Carton of 25	Carton of 25	Carton of 25	Carton of 25	Carton of 25
Catalog No.	**SSF11** 10G	**SSF12** 10G	**SSF13** 10G	**SSF14** 10G	**SSF16**

NOTE: All SSF plates will accept AV keystone connectors and **XCELERATOR**™ jacks.

Double-gang

	4-port	6-port	9-port	12-port
Unit Package	1 per Bag	1 per Bag	1 per Bag	1 per Bag
Order Qty.	Carton of 10	Carton of 10	Carton of 10	Carton of 10
Catalog No.	**SSF204** 10G	**SSF206** 10G	**SSF209**	**SSF212**

NOTE: All SSF plates will accept AV keystone connectors and **XCELERATOR**™ jacks.

SSF11   *SSF13*   *SSF16*

SSF206   *SS209*

---

iSTATION™ Plates

Gang	1-Gang	2-Gang	3-Gang	4-Gang
Catalog No.	**IMS1**	**IMS2**	**IMS3**	**IMS4**

IMS1   *IMS2*

SSF Stainless Steel Plate with Label Fields

Single-gang	1-port	2-port	3-port	4-port	6-port
Unit Package	1 per Bag	1 per Bag	1 per Bag	1 per Bag	1 per Bag
Order Qty.	Carton of 25	Carton of 25	Carton of 25	Carton of 25	Carton of 25
Catalog No.	**SSFL11** 10G	**SSFL12** 10G	**SSFL13** 10G	**SSFL14** 10G	**SSFL16**

NOTE: All SSF plates will accept AV keystone connectors and **XCELERATOR**™ jacks.

Double-gang	4-port	6-port	9-port	12-port
Unit Package	1 per Bag	1 per Bag	1 per Bag	1 per Bag
Order Qty.	Carton of 25	Carton of 25	Carton of 25	Carton of 25
Catalog No.	**SSFL24** 10G	**SSFL26** 10G	**SSFL29**	**SSFL212**

NOTE: All SSF plates will accept AV keystone connectors and **XCELERATOR**™ jacks.

SSFL16   *SSFL212*

SSF Stainless Steel AV Face Plates

Gang	1-Gang	2-Gang	2-Gang	2-Gang
Ports	4-port	6-port	6-port	10-port
VGA Opening	1	1	2	1
Catalog No.	**SSF14V**	**SSF26V**	**SSF262V**	**SSF210V**

NOTE: All SSF plates will accept AV keystone connectors and **XCELERATOR**™ jacks.

SSF26V

Decorator Plates and Frames

Specifications

◆ IFP plate material: UL 94V-0 rated flame-retardant, all other plastic plates: high-impact nylon.

◆ IFP126OW and IFP18OW are UL listed for power and low voltage data applications.

◆ Metal plate material: brushed stainless steel, or solid, brushed brass.

◆ ANSI/TIA/EIA-606-A station labeling capability.

◆ Mounts to standard NEMA openings and boxes.

HUBBELL
Advantage

■ **IFP126OW is the Only Decorator Plate in the Industry that is UL Listed for Power and Low-Voltage with Label Fields.**

■ **ISF Decorator Frames fit industry Standard Rectangular (GFCI) Style Openings.**

■ **Tamper-Resistant, Rear Keystone Mounting.**

■ **Nylon Plates Virtually Unbreakable.**

HUBBELL
HIlabel
Compatible with **Hubbell Labeling System** - see page M8.

Decorator Wall Plates

Standard, Nylon

Ports	1-Gang	2-Gang	3-Gang	4-Gang	5-Gang	6-Gang
See Color Code	**NP26XX**	**NP262XX**	**NP263XX**	**NP264XX**	**NP265XX**	**NP266XX**

Mid-Size, Nylon

Ports	1-Gang	2-Gang	3-Gang	4-Gang
See Color Code	**NPJ26XX**	**NPJ262XX**	**NPJ263XX**	**NPJ264XX**

Snap On

Ports	1-Gang	2-Gang	3-Gang	4-Gang	5-Gang	6-Gang
See Color Code	**RCW1XX**	**RCW2XX**	**RCW3XX**	**RCW4XX**	**RCW5XX**	**RCW6XX**

Decorator and IFP Cover Plates

Color/Finish	Decorator Single-Gang	Decorator Double-Gang	IFP Decorator w/Label Fields Single-Gang
Brass	**SB26**	**SB262**	-
Office White	-	-	**IFP126OW**
Stainless Steel	**SS26**	**SS262**	-

HPWB262 *IFP126OW*

Decorator Outlet Frames, Unloaded

	2-port	3-port	4-port
Unit Package	1 per Bag	1 per Bag	1 per Bag
Order Quantity	Carton of 10	Carton of 10	Carton of 10
See Color Code	**ISF2XX** 10G	**ISF3XX** 10G	**ISF4XX** 10G

	6-port	Blank
Unit Package	1 per Bag	1 per Bag
Order Quantity	Carton of 10	Carton of 10
See Color Code	**ISF6XX**	**NS620XX**

ISF2OW *ISF3GY* *ISF4W* *ISF6BK* *NS620I*

XX = Plate/Frame Color Options

AL=Almond	**BK**=Black	**EI**=Electric Ivory	**GY**=Gray	**LA**=Light Almond	**OW**=Office White	**W**=White

Specialty Plates

HUBBELL
Advantage

- ■ IFP18OW is the only Duplex opening plate in the industry that is UL listed for power and low-voltage with label fields.
- ■ 106 frames fit industry standard duplex style openings.

Features/Benefits

- ■ Instant communication mounting capabilities within a duplex electrical design.
- ■ Frames deliver 2- to 6-port configurations, lending flexibility and increased capacity to the work area.

Specifications

- ◆ High-impact polymer construction.

Duplex and IFP Cover Plates

Color/Finish	Duplex Single-Gang	Duplex Double-Gang	IFP Duplex w/Label Fields Single-Gang
Black	**NP8BK**	**NP82BK**	-
Brass	**SB8**	**SB82**	-
Electric Ivory	**NP8EI**	**NP82EI**	-
Gray	**NP8GY**	**NP82GY**	-
Light Almond	**NP8LA**	**NP82LA**	-
Office White	-	-	**IFP18OW**
Stainless Steel	**SS8**	**SS82**	-
White	**NP8W**	**NP82W**	-

HPWS82

IFP18OW

Duplex Wall Plates

Standard, Nylon

Ports	1-Gang	2-Gang	3-Gang	4-Gang
See Color Code on Page 30	**NP8XX**	**NP82XX**	**NP83XX**	**NP84XX**

Mid-Size, Nylon

Ports	1-Gang	2-Gang
See Color Code on Page 30	**NPJ8XX**	**NPJ82XX**

Duplex 106 Outlet Frames

	2-port	4-port
Black	**BR106B** ✓10G	**Q106B** ✓10G
Electric Ivory	**BR106E** ✓10G	**Q106E** ✓10G
Gray	**BR106G** ✓10G	**Q106G** ✓10G
Office White	**BR106C** ✓10G	**Q106O** 10G
White	**BR106W** ✓10G	**Q106W** ✓10G

BR106B   *Q106O*

Box Eliminator

Description	Catalog No.
Single-gang box eliminator used in place of an electrical box, inserts into, and secures to a drywall opening providing a means to mount a single-gang plate.	**BRBE1**
Double-gang box eliminator used in place of an electrical box, inserts into, and secures to a drywall opening providing a means to mount a double-gang plate.	**BRBE2**

BRBE2

630 Wall Mount Phone Plates

Designed for use with wall mount telephones. Provides corrosion-resistance, durability and will mount to any standard single-gang box. Available in a flat, flush-mount or recess style.

Stainless Steel, Single-gang wall phone plate

Jack Format	Includes	Catalog No.
Flush	6-position USOC gray jack, RJ25	**P630S1GJ6**
Flush	8-position Category 5e, gray jack, RJ45	**P630S1GJ8**
Flush	8-position Category 6, gray jack, RJ45	**P630S1GC6**
Flush	8-position 10GbE, gray jack, RJ45	**P630S1GJ10G** ✓10G
Recessed	6-position USOC gray jack, RJ25	**P630SR1GJ6**
Recessed	8-position Category 5e, gray jack, RJ45	**P630SR1GJ8**
Recessed	8-position Category 6, gray jack, RJ45	**P630SR1GC6**
Recessed	8-position 10GbE, gray jack, RJ45	**P630SR1GJ10G** ✓10G

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Secure-IT™ Plates

Staggered, angled openings provide proper cable exit and bend radius.

Port I.D. label fields.

Available in tamper resistant and weatherproof versions, **Secure-IT**™ plates protect mated and unmated connections from physical damage. The weatherproof version is rain-tight, providing NEMA 3R protection in outdoor environments.

The unique sliding cover discourages unauthorized personnel from making impromptu and unrecorded moves, adds, and changes. Additional security is assured by fastening an included combo-head screw or user supplied security screw under the top face plate label field (not available in weatherproof version).

Hlabel Compatible with **Hubbell Labeling System** - see page M8.

HUBBELL Advantage

- ■ The sliding cover provides better protection and longer life.
- ■ Multiple labeling options for easy station identification.
- ■ Fiber and multimedia capabilities.

Specifications

- ◆ UL 94V-0 rated flame-retardant polymer.
- ◆ Mounts to standard NEMA boxes (16in³ minimum) and common box eliminators.
- ◆ Weatherproof plate is NEMA 3R rated.
- ◆ UL and cUL listed.

RoHS

Secure-IT™ Face Plates

TPF1OW   *TWPF1GY*

Tamper-Resistant Face Plates

Size	Color	Face Plate Catalog No.	Replacement Cover Catalog No.	Cable-Thru Plate Catalog No.
1-gang/4-port	Black	**TPF1BK**	**TPFCLBK**	**TPCP1BK**
1-gang/4-port	Gray	**TPF1GY**	**TPFCLGY**	**TPCP1GY**
1-gang/4-port	Office white	**TPF1OW**	**TPFCLOW**	**TPCP1OW**
1-gang/4-port	White	**TPF1WH**	**TPFCLWH**	**TPCP1WH**

Weatherproof Face Plates

Size	Color	Face Plate Catalog No.	Replacement Cover Catalog No.
1-gang/4-port	Gray	**TWPF1GY**	**ERFCLGY**

Furniture Plates

Hubbell's furniture plates service the common ANSI/TIA/EIA standard furniture openings. The plates provide keystone flush mounting accommodating HPW's extensive line of multimedia Audio Video connectors.

Specifications

- ◆ Material: high-impact, thermoplastic construction (UL 94V-0).

HUBBELL Advantage

- ■ Work area and individual port identification labeling.
- ■ FP plate positions connectivity outside the furniture channel maximizing internal capacity.

Furniture Plates (Steelcase, Haworth, HON, Knoll, etc.)

FP2BK   *FP4BBK*

FP4BK   *FM5E4A*

Opening size:	2.71" x 1.38"	2.71" x 1.38"	2.71" x 1.38"	2.71" x 1.38"	2.71" x 1.38"
Color	2-port	4-port	4-port Box	4-port T568A	4-port T568B
Black	**FP2BK**	**FP4BK**	**FP4BBK** 10G	**FM5E4A**	**FM5E4B**
Gray	**FP2GY**	**FP4GY**	**FP4BGY** 10G	-	-

Furniture Reducing Adapter (Herman Miller)

HMRBBK   *HMRBGY*

The HMRBXX adapter plate may be used with the FP2, FP4, or FM5 series furniture plates only for Herman Miller applications.

Opening size:	2.982" x 1.882"	2.982" x 1.882"
Color	Catalog No. Black	Catalog No. Gray
	HMRBBK	**HMRBGY**

International Plates

Hubbell's international frames, plates and modules provide angled and flat shuttered configurations compatible with standard international style back boxes and floor boxes. These attractive plates deliver field-configurable mounting for HPW's extensive line of Ascent and **XCELERATOR**™ series jacks.
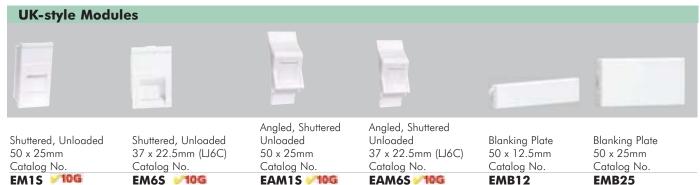
EMBP1 frame with 2 EM1S modules.

EBM1 frame with 2 EAM1S modules.

RoHS

UK-style Modules

Shuttered, Unloaded 50 x 25mm Catalog No. **EM1S** 10G	Shuttered, Unloaded 37 x 22.5mm (LJ6C) Catalog No. **EM6S** 10G	Angled, Shuttered Unloaded 50 x 25mm Catalog No. **EAM1S** 10G	Angled, Shuttered Unloaded 37 x 22.5mm (LJ6C) Catalog No. **EAM6S** 10G	Blanking Plate 50 x 12.5mm Catalog No. **EMB12**	Blanking Plate 50 x 25mm Catalog No. **EMB25**

UK-style Frames

Single-gang, Bevelled 50 x 50mm Catalog No. **EBM1**	Double-gang, Bevelled 100 x 50mm Catalog No. **EBM2**	Single-gang 50 x 50mm Catalog No. **EMBP1**	Single-gang 100 x 100mm Catalog No. **EMBP2**

UK-style Plates

	Single-gang, 1-port Plate, Unloaded Catalog No.	Single-gang, 2-port Plate, Unloaded Catalog No.
Flat	**BPS11** 10G	**BPS12** 10G
Beveled	**BPS11A** 10G	**BPS12A** 10G

French-style Modules

Single Module, Unloaded 45 x 45mm Catalog No. **EM41S** 10G	Dual Module, Unloaded 45 x 45mm Catalog No. **EM42S** 10G	Angled, Dual Module, Unloaded 45 x 45mm Catalog No. **EM42SA** 10G

Surface Mount Boxes

Integrated fiber storage posts facilitate the storage of 1m of fiber cable (4, 6, 12-port).

HUBBELL
Advantage

- Contains fiber storage posts.
- Accepts Hubbell **UTP** jacks and AV keystone connectors.
- The ISM has the ability to mount to multiple surfaces like standard electrical boxes, non-metallic raceway, the **RE-BOX®**, CP enclosure, rack rail, desktops, walls, and modular furniture.

Features/Benefits
- Low-profile design.
- Available in 5 color options.
- ADA compliant.
- 4-, 6- and 12-port surface box covers feature easy to remove knockouts to accommodate Hubbell raceway.
- 4- and 6-port: all ports are on one side, can be mounted horizontally or vertically so cords may exit sideways or downward.

Specifications
- Provided with double-sided tape and mounting screws for easy installation.
- UL and cUL listed.
- Constructed with a high impact resistant, flame-retardant polymer.
- TIA/EIA-606B compliant.
- Bases include tie-wrap anchors at side and rear cable entry points for 4" cable ties (included).

HUBBELL Hlabel Compatible with **Hubbell Labeling System** - see page M8.

POLYTRAK® Raceway Compatibility Chart

Series	PT2	PP	PL	PW	PB	PS
ISM1		▲			▲*	
ISM2		▲			▲*	
ISM4		▲	▲	▲	▲*	
ISM6		▲	▲	▲	▲*	
ISM12		▲	▲	▲	▲*	

* Use #PB3REDA transition fitting.

ISM Surface Mount Boxes, 12-port

ISM12OW (loaded)

Ideal for open office MUTOA cabling, large capacity surface mount applications and retrofits to support data, voice, and multimedia installations. Can be mounted with supplied surface mounting screws or double-sided adhesive tape and mounted to NEMA electric boxes or relay racks (see **POLYTRAK®** raceway compatibility chart).

Size	12-port Catalog No.
See chart	**ISM12XX**

ISM Surface Mount Boxes, 4- and 6-port

ISM4OW (loaded)

ISM6OW (loaded)

Ideal for open office MUTOA cabling, compact surface mount environments, and retrofits to support data, voice, and multimedia applications. Features adjustable furniture latches to provide an additional mounting option to common ANSI/TIA/EIA standard furniture openings, and solutions requiring fiber. Box bases feature fiber storage posts that can store 1 meter fiber cable after termination.

Size	4-port Catalog No.	4-port, Stencilled (ID Port 1,2,3,4) Office White Catalog No.	6-port Catalog No.
See chart	**ISM4XX** 10G	**ISM4OWID** 10G	**ISM6XX** 10G

ISM Surface Mount Boxes, 1- and 2-port

ISM1OW (loaded)

ISM2OW (loaded)

Ideal for open office, compact surface mount environments, and retrofits to support data, voice, and multimedia applications. Can be mounted with supplied surface mounting screws or double-sided adhesive tape.

Size	1-port Catalog No.	2-port Catalog No.
See chart	**ISM1XX** 10G	**ISM2XX** 10G

XX = Surface Mount Box Color Options

BK=Black	**EI**=Electric Ivory	**GY**=Gray	**OW**=Office White	**W**=White

OFPPL Multimedia Plate

The OFPPL multimedia housing accommodates 3 SC duplex or 6 ST-style or 3 LC Quad adapters. In addition, there are 4 keystone openings for Jacks or A/V connectors.

Features/Benefits

■ Work area label field.

■ Fiber drum storage.

■ Accommodates 4 Keystone connectors.

Specifications

◆ High-impact housing: UL 94V-0 rated.

OFPPL

Description	Catalog No.
Office white housing, cover and mounting accessories	**OFPPL**
OFP Bracket with 2 ST couplers SM/MM	**OFPBST2**

NOTE: SC duplex and LC Quad connectors mount directly to the OFPPL base.

OFPPL

OFPBST2

HUBBELL
Hlabel
Compatible with
Hubbell Labeling System - see page M8.

AMO - Advanced Multimedia Outlet Housing

The Advanced Multimedia Outlet (AMO) is a high-capacity, low-profile, multimedia surface housing capable of supporting up to 12 copper/fiber connectors or 24 small form factor LC connectors.

The AMO may be used as a multi-user telecommunications outlet assembly (MUTOA) as specified in TIA-568-C standard

Features/Benefits

■ Excellent as a MUTOA.

■ Downward orientation.

■ Hidden label field beneath cover.

■ Compatible with **POLYTRAK**® (PT2, PL and PW).

Specifications

◆ High-impact housing: UL 94V-0 rated.

◆ AMO dimensions: 7.15"W (181) x 7.53"H (191) x 2.3"D (58).

AMO (loaded)

AMO is our largest capacity surface mount housing accommodating 12 copper or 12/24 fiber connections.

AMO Base Unit Housing and Adapter Brackets

AMO Housing

Description	Catalog No.
Office white housing with 6 bracket locations	**AMO** 10G

Adapter Brackets

Description - Color: Office White	Catalog No.
SC Adapter - includes 1 duplex Phosphor Bronze SC adapter	**AMOBSCD**
ST-style Adapter - includes 2 Phosphor Bronze ST-style adapters	**AMOBST2**
LC Quad Adapter - includes LC Quad adapter	**AMOLCQ**
Blank Adapter - Sold in packs of 10	**AMOBL10**
Single Jack Adapter - Sold in packs of 10	**AMOBJ10**
Dual Jack Adapter - Sold in packs of 10	**AMOB2J10**
BNC Adapter - ½" opening - Sold in packs of 10	**AMOBBN10**
F-style Adapter - 3/8" opening - Sold in packs of 10	**AMOBF10**
RCA Solder-type Adapter - ¼" opening - Sold in packs of 10	**AMOBRC10**

See page B8 to B12 for more Audio Video connector and bulk connector options.

HUBBELL
Hlabel
Compatible with
Hubbell Labeling System - see page M8.

Modular Adapters

Use to provide solutions for splitting and bridging within modular connectivity channels.

Features/Benefits
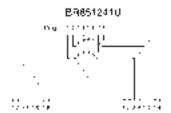
■ Narrow profile designed to accommodate side-by-side positioning in high-density panel applications.

■ Adapter's PCB design provides superior performance in applications requiring splitting or bridging of conductors.

Splitting Y Adapters

Designed for connecting two pieces of voice, data or ancillary equipment to a USOC, RJ61 8-position jack.

Catalog No.
BR851241U
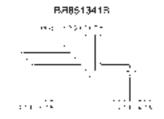
Converts a T568B wired RJ45 Jack into two 2-pair jacks. Designed for connecting two pieces of voice, data or ancillary equipment.

Catalog No.   **BR851241A**

Converts a T568B wired RJ45 jack by splitting pairs 1, 2, and 3 to first 6-positions of jack (1), and pair 4 to positions 4 and 5 of jack (2).

Catalog No.   **BR851341B**
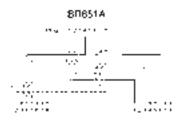
Converts a T568B wired RJ45 jack to 2 10/100BASE-T wired RJ45 jacks. Pairs 2 and 3 are split to jack (1), and pairs 1 and 4 are split to jack (2).

Catalog No.   **BR851D**

Converts a T568B wired RJ45 jack to a voice wired application (pairs 1 and 4) jack (1), and a 10/100BASE-T application (pairs 2 and 3) wired 8-position jack (2).

Catalog No.   **BR851A**

Bridging Y Adapters
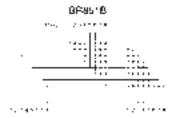
Provides a station solution and an option for a speaker, power failure ringer or an ancillary devise requiring the use of pair 1.

Catalog No.   **BR851441**

Provides 2 RJ45 4-pair jacks in a parallel wiring formation, providing 2 access points to the circuit, adding a common station or in a daisy chain application.

Catalog No.   **BR851B**

Modular Adapters

Modular Inline Adapters

Use to provide the ability to connect two HPW patch cords or plug style devices with a straight through wiring format (pin 1 to pin 1, etc.).

Features/Benefits

- Furnished with an adhesive mounting pad for securing to multiple surfaces.
- High-impact thermoplastic.

Position	Dimensions	Color	Description	Catalog No.
8	1.24" x 0.63" x 0.53"	Gray	Non-flanged	**BRIA4P**
6	1.04" x 0.55" x 0.53"	Black	Non-flanged	**BRIA3P**
4	1.04" x 0.55" x 0.53"	Telco Ivory	Non-flanged	**BRIA2P**

Narrow 950 Converter

The 950AI modular adapter converts T568B to T568A wiring format or vice versa, by swapping pairs 2 and 3. This configuration can also be used for crossover communications between two 10BASE-T DTE devices.

Catalog No.	**950AI**

Features/Benefits

- Side-by-side stacking.
- High-density design.
- Printed circuit board technology ensures reliability and superior performance.
- High-impact thermoplastic.

Modular 66 Block Adapter

The BR866JC modular 66 adapter provides a modular connection between a 66M block and an RJ45 modular patch cord, by connecting 8 consecutive block positions to a T568B RJ45 jack. See page E20 for additional modular 66 block products.

Catalog No.	**BR866JC**

Features/Benefits

- Stackable design allows access to 48 of the 50 positions on the block.
- Printed circuit board assures superior performance and reliability.
- Allows modular patching on a 66 block - plug-in and network capabilities, cost and labor savings.

CABLE
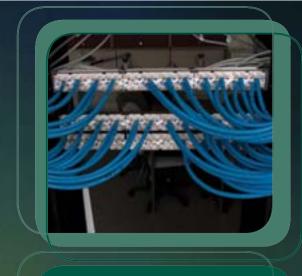
OUR EXTENSIVE LINE OF **UTP** AND **S**HIELDED COPPER CABLES ARE SPECIFICALLY DESIGNED TO OPERATE AS A HIGH-PERFORMANCE BALANCED SYSTEM WHEN COMBINED WITH OUR STATE-OF-THE-ART CONNECTIVITY.

THESE CABLES PROVIDE THE **IT** PROFESSIONAL WITH A FULL RANGE OF HIGH-PERFORMANCE CABLING OPTIONS.

FROM STANDARD **C**ATEGORY **6A** TO **C**ATEGORY **5E** - ALL SPECIFICALLY DESIGNED TO MEET YOUR PERFORMANCE AND BUDGET NEEDS WHILE EXTENDING THE LIFE SPAN OF YOUR NETWORK.

FACE PLATES•PATCH CORDS•CABLE ASSEMBLIES•OUTLET FRAMES•SURFACE BOXES•JACKS•CATEGORY 6 SYSTEM
ADAPTERS•Audio Video CONNECTORS•FRONT-LOADING FACE PLATES•FURNITURE PLATES•SHIELDED JACKS•SPE
1-PUNCH TOOL•USOC•CATEGORY 5E•SURFACE MOUNT BOXES•NEXTSPEED PRODUCTS•MULTIMEDIA CONNE
•XCELERATOR JACKS•ASCENT 10GbE •SYSTEM CHANNEL•MODULAR PLUGS•CROSS CONNECT SYSTEMS•PATCH
MODULAR 66 BLOCKS•LABELING SOLUTIONS•RACK MOUNT KITS•MULTIMEDIA PANELS•CONSOLIDATION POIN
PATCH PANELS•MULTIMEDIA PLATE•WALL PHONE PLATE• CABINETS•REAR-LOADING FACE PLATES•BULK CO
•ISTATION PRODUCTS•110 BLOCKS•CATEGORY 3•TAMPER-RESISTANT FACE PLATES•ISTATION AUDIO VIDEO MO

CABLE • CONTENTS

HUBBELL
Next**Speed**

UTP Cable

HUBBELL Advantage

■ Specifically Designed to Operate as a High-Performance Balanced Solution.

■ Supports the Latest Ratified Industry Standards for Component Compliance.

■ Typical Round Design Allows for Ease of Installation.

■ RoHS Compliant.

NEXTSPEED® Ascent, Category 6A, UTP Cable, 4-Pair

RoHS

Features/Benefits

■ 10GbE Application Assurance.
■ Category 6A component compliant (including AXT).
■ PoE and PoE+ Ready.
■ Easy to pull, standard, round jacketed cable.
■ Reverse sequential numbering.
■ UL Verified Category 6A.
■ Backward Compatible to Category 6, 5e, 5, and 3.

Specifications

◆ **Conductor:** 23 AWG solid bare copper.
◆ **Insulation:** CMP: FEP, CMR: Polyolefin.
◆ **Cabling:** Four unshielded twisted pairs cabled around a star filler member.
◆ **Jacket:**
  - CMP: Low-Smoke PVC.
  - CMR: PVC.
◆ **NVP:** Plenum: 71%; Riser: 68%.

Category 6A UTP Cable

Category 6A UTP Cable	Plenum Spool	Riser Spool
Catalog No.	**C6ASPXX** 10G	**C6ASRXX** 10G
XX = See color chart below.	*(100m)*	*(100m)*

NEXTSPEED® Ascent 10GbE FTP Cable, 4-Pair

RoHS

Features/Benefits

■ Protection against AXT and EMI.
■ 10GbE Application Assurance.
■ ANEXT component compliant.
■ PoE and PoE+ Ready.
■ Category 6 performance to 500MHz with Category 6A AXT.

Specifications

◆ **Conductor:** 24 AWG Solid Bare Copper.
◆ **Insulation:** CMP: FEP, CMR: Polyolefin.
◆ **Cabling:** four twisted pairs around a star filler, wrapped with a polyester foil tape.
◆ **Jacket:**
  CMP: Low smoke PVC
  CMR: PVC
◆ **NVP:** Plenum: 70%; Riser: 68%.

10GbE FTP Cable
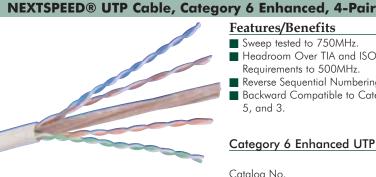
1000' Length	Plenum Spool	Riser Spool
Catalog No.	**C6FTPSPXX** 10G	**C6FTPSRXX** 10G
XX = See color chart below - Exception: Yellow.	*(100m)*	*(100m)*

NEXTSPEED® UTP Cable, Category 6 Enhanced, 4-Pair

RoHS

Features/Benefits

■ Sweep tested to 750MHz.
■ Headroom Over TIA and ISO Category 6 Requirements to 500MHz.
■ Reverse Sequential Numbering.
■ Backward Compatible to Category 5e, 5, and 3.

Specifications

◆ **Conductor:** 23 AWG solid bare copper.
◆ **Insulation:** CMP: FEP, CMR: Polyolefin.
◆ **Cabling:** Four unshielded twisted pairs cabled around a star filler member.
◆ **Jacket:**
  - CMP: Low-Smoke PVC.
  - CMR: PVC.
◆ **NVP:** Plenum: 70%; Riser: 68%.

Category 6 Enhanced UTP Cable

	Plenum Spool	Riser Spool
Catalog No.	**C6ESPXX** 10G	**C6ESRXX** 10G
XX = See color chart below.	*(TSB-155)*	*(TSB-155)*

Cable Color Options

B = Blue	**GY** = Gray	**W** = White	**Y** = Yellow

NEXTSPEED® UTP Cable, Category 6, 4-Pair

Features/Benefits
- Sweep tested to 550MHz.
- Headroom Over TIA and ISO Category 6 Requirements.
- Reverse Sequential Numbering.
- Backward Compatible to Category 5e, 5, and 3.

Specifications
- ◆ **Conductor:** 24 AWG solid bare copper.
- ◆ **Insulation:** CMP: FEP, CMR: Polyolefin.
- ◆ **Cabling:** Four unshielded twisted pairs cabled around a star filler member.
- ◆ **Jacket**:
  - **-** CMP: Low-Smoke PVC.
  - **-** CMR: PVC.
- ◆ **NVP:** Plenum: 70%; Riser: 68%.

Category 6 UTP Cable

Description	Plenum Spool	Plenum REELEX*	Riser Spool	Riser REELEX*
Catalog No.	**C6SPXX** 🗸**10G**	**C6RPXX**	**C6SRXX** 🗸**10G**	**C6RRXX**
	(TSB-155)		*(TSB-155)*	

XX = See color chart on page C4.
* REELEX is licensed and patented by Windings Inc.

NEXTSPEED® Link 6 UTP Cable

Features/Benefits
- Sweep tested to 450MHz.
- Category 6 Component Compliant.
- Reverse Sequential Footage Marking.
- Backward Compatible to Category 5e, 5, and 3.

Specifications
- ◆ **Conductor:** 23 AWG solid bare copper.
- ◆ **Insulation:** Plenum: FEP; Riser: HDPE.
- ◆ **Cabling:** Four unshielded twisted pairs (no filler) cabled around a star filler member.
- ◆ **Jacket:** Plenum: FRPVC; Riser: PVC.
- ◆ **NVP:** Plenum: 70%; Riser: 68%.

Link 6 UTP Cable

	Plenum REELEX*	Riser REELEX*
Catalog No.	**C6RPEXX**	**C6RREXX**

XX = See color chart on page C4.
* REELEX is licensed and patented by Windings Inc.

SPEEDGAIN® Category 5E UTP Cable, 4-Pair

Features/Benefits
- Sweep tested to 400MHz.
- Headroom over TIA and ISO Category 5e requirements.
- Reverse sequential footage marking.
- Backward compatible to Category 5 and 3.

Specifications
- ◆ **Conductor**: 24 AWG Solid Bare Copper.
- ◆ **Insulation**: CMP: FEP, CMR: Polyolefin.
- ◆ **Cabling:** Four unshielded twisted pairs.
- ◆ **Jacket**:
  - **-** CMP: Low-Smoke PVC.
  - **-** CMR: PVC.
- ◆ **NVP:** Plenum: 70%; Riser: 68%.

Description	Plenum Spool	Plenum REELEX*	Riser Spool	Riser REELEX*
Catalog No.	**C5EPSPXX**	**C5EPRPXX**	**C5EPSRXX**	**C5EPRRXX**

XX = See color chart on page C4.
* REELEX is licensed and patented by Windings Inc.

UTP Cable, Category 5e, 4-Pair

Features/Benefits
- Sweep tested to 350MHz.
- Headroom over TIA and ISO Category 5e requirements.
- Reverse sequential footage marking.
- Backward compatible to Category 5 and 3.

Specifications
- ◆ **Conductor**: 24 AWG Solid Bare Copper.
- ◆ **Insulation**: CMP: FEP, CMR: Polyolefin.
- ◆ **Cabling:** Four unshielded twisted pairs.
- ◆ **Jacket**:
  - **-** CMP: Low-Smoke PVC.
  - **-** CMR: PVC.
- ◆ **NVP:** Plenum: 70%; Riser: 68%.
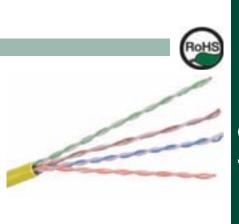
Description	Plenum Spool	Plenum REELEX*	Riser Spool	Riser REELEX*
Catalog No.	**C5ESPXX**	**C5ERPXX**	**C5ESRXX**	**C5ERRXX**

XX = See color chart on page C4.
* REELEX is licensed and patented by Windings Inc.

CABLE ASSEMBLIES

BIDnet™ Pre-Terminated Copper Trunk Assemblies are the ideal solution for data centers, open office and other applications where accuracy, reliability and performance are the most important factors. 100% factory tested and assembled simplifies installation, saving more than 70% on installation time and labor, compared to traditional field terminated permanent links. With the "Go Green" initiative BIDnet™ provides the exact lengths and number of connections needed eliminating unwanted cable waste.

All component rated patch cords are tuned to each Hubbell system delivering maximum headroom. Hubbell patch cords are constructed with specially designed patch cable and are 100% performance tested assuring the highest quality, most reliable patch cord in the industry.

NETSELECT® NETWORKING SYSTEM•PRIMARY TELEPHONE MODULE, 8-PORT•TELEPHONE EXPANSION MODULE, 8-PORT•CATEGORY 5E MODULE, 8-PORT•WAY•COAX SPLITTER MODULE, 6-WAY•COAX SPLITTER MODULE, 8-WAY•FIXED VIDEO AMPLIFIER MODULE,•POWER KIT, SURGE SUPRESSION•POWER KIT, STANDARD•LOCK KIT•NETSELECT® NETWORKING SYSTEM•PRIMARY•TELEPHONE EXPANSION MODULE, 8-PORT•CATEGORY 5E DATA MODULE, 8-PORT•COAX SPLITTER MODULE, 6-WAY•COAX SPLITTER MODULE, 8-WAY•FIXED VIDEO AMPLIFIER MODULE, 10DB•PLATE, BLANK•POWER KIT STANDARD•LOCK KIT•NETSELECT® NETWORKING SYSTEM•PRIMARY TELEPHONE MODULE, 8-PORT•MODULE, 8-PORT•CATEGORY 5E DATA MODULE, 8-PORT•COAX SPLITTER MODULE, 4-WAY SPLITTER MODULE, 8-WAY•FIXED VIDEO AMPLIFIER MODULE, 10DB•MODULE PLATE, BLANK•POWER KIT SUPRESSION•NETSELECT® NETWORKING SYSTEM•PRIMARY TELEPHONE MODULE, 8-PORT•TELEPHONE

CABLE ASSEMBLY CONTENTS

BIDnet™ Pre-Terminated Copper Trunk Assemblies

Design
- Optimized component matching to maximize performance and eliminate residual and reflected NEXT.

Superior Strain Relief
- Molded strain relief and cassette ensures factory termination, provides maximum strain relief after and during installation.

Capacity
- Small form factor allows up to 6 keystone connections delivering a maximum capacity.

Performance
- Balanced design delivers headroom over the TIA and ISO Category 6A standard providing true application assurance.

Flexibility
- BIDnet™ is available in various configurations, categories, colors, and lengths to help identify different LANs, applications and devices.

Reliability
- Application: Qualified for 10 Gigabit Ethernet Transmission IEEE 802.3an.
- Component: Third-Party verified for TIA-568-C.2 Category 6A and 6 component.
- Channel: Tested for ISO 11801 Class E_A and E compliant.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Manufacturing: 100% factory tested in a controlled environment.
- **MISSION CRITICAL**® Warranty.

Versatility
- BIDnet™ can be utilized in standard Hubbell **iSTATION**™, Delivery and Cross Connect products for Data Center and Open Office applications.

Identification
- Each individual permanent link is labeled at each end making it easy for adds, moves, and changes.

Consistency
- 100% factory terminated and tested ensuring the most reliable connections.

Standards
- ◆ ANSI/TIA-568-C.2 (Previously 568-B.2-10 Category 6A component.
- ◆ ISO 11801 Class D, E, and E_A Compliant (Category 6A).
- ◆ IEEE 802.3at capable.
- ◆ UL Listed 1863.

HUBBELL

Advantage

- ■ **MISSION CRITICAL**® Warranty*.
- ■ TIA and ISO Category 6A **NEXTSPEED**® Ascent Channel Compliance.
- ■ Reduces Installation Time by More than 70%.
- ■ 100% Factory Tested, Factory Terminated.
- ■ Assemblies Made to Length Eliminates Cable Waste.

** Required project is registered in accordance with **MISSION CRITICAL**® Program.*

Specifications

Jacks
◆ Nose contact material: Beryllium Copper with Precious Metal plating over Nickel under-plating.
◆ Contact performance: confirmed over the full range of TIA plug deflection limits.

Plugs
◆ Mechanical: Cable to plug tensile strength: 20+ lbs.
Mating cycles: 2000+.
◆ Material
Plug body: Polycarbonate UL 94V-0.
Plug boot: PVC.
◆ Contact: High strength copper alloy.
◆ Plating: 50 micro-inch Precious Metal over 100 micro-inch under-plating.

Available Options
◆ Lengths: 10'-295'.
◆ Legs: 1, 4 and 6.
◆ Category: 5e, 6 and 6A.
◆ Connection: RJ45 Jack;
RJ45 Plug;
Open End.
◆ Cable: Plenum, Riser and LSZH.
◆ UTP: Category 5e;
Category 6;
Category 6A.
◆ FTP: Category 6 (10GbE).
◆ Color: Blue and White.

BIDnet™ pre-terminated Copper Trunk Assemblies are the ideal solution for data centers, open office and other applications where accuracy, reliability and performance are the most important factors.

BIDnet™ assemblies provide simplicity for permanent links between switches, servers and patch panels. MUTOAs and zone distribution areas, enabling easy MACs to the infrastructure.

100% factory tested and assembled simplifies installation time and labor, compared to traditional field terminated permanent links.

Go Green with BIDnet™. BIDnet™ provides the exact lengths and number of connections needed eliminating unwanted cable waste.

All BIDnet™ pre-terminated cable assemblies are made-to-order items. Please call our inside sales team for lead-time and availability.

CABLE ASSEMBLIES

Pre-Terminated Trunk Assemblies

HUBBELL
NextSpeed

Ascent Patch Cords, Category 6A

Design
• Enhanced design to eliminate alien cross talk.

Performance
• Balanced design delivers channel headroom over the TIA and ISO Category 6A standard up to 500MHz providing true 10GbE application assurance.

Reliability
• Application: Qualified for 10 Gigabit Ethernet Transmission IEEE 802.3an.
• Channel: Third-Party tested for TIA-568-C.2 Category 6A Channel and ISO 11801 Class E_A compliant.
• Heat: Qualified for PoE and PoE+ IEEE 802.3at.
• Manufacturing: 100% factory tested in a controlled environment.

Versatility
• NEXTSPEED® Ascent patch cords are stocked in 3, 5, 7, 10, 15, and 20 foot lengths to support all standard patching requirements. 25 to 75 foot lengths (5 foot increments) are available upon request.

Superior Strain Relief
• Molded strain relief and cassette ensures factory termination, provides maximum strain relief after and during installation.

Capacity
• Slim-line design allows patch cords to fit side-by-side in high density switch applications.

Flexibility
• The HJ6A is available in 8 different colors to help in the identification of multiple LANs, applications and devices.

Specifications
Plugs
◆ Mechanical: Cable to plug tensile strength: 20+ lbs.
Mating cycles: 2000+.
◆ Material
Plug body: Polycarbonate UL 94V-0.
Plug boot: PVC.
◆ Contact: High strength copper alloy.
◆ Plating: 50 micro-inch Gold with 100 micro-inch under-plating.

Standards
● ANSI/TIA-568-C.2 (Previously 568-B.2-10 Category 6A channel.
● ISO 11801 Class E_A compliant (Category 6A).
● IEEE 802.3at capable.
● UL Listed 1863.

HUBBELL
Advantage

■ TIA and ISO Category 6A **NEXTSPEED**® Ascent Channel Compliance.

■ High-Density Plug Design Makes Patching Easy.

■ 100% Factory Tested.

■ Cable Construction Extends Patch Cord Life Span, Reducing Waste.

Patch Cords, Category 6A

D6   HUBBELL®   Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

NEXTSPEED® Ascent Category 6A Patch Cords

Patch Cords, Category 6A

Color: Gray

Catalog No.   **PC6AGYXX**   ✓ **10G**

XX = Standard Color:
"**B**" = Blue; "**BK**" = Black; "**GY**" = Gray; "**Y**" = Yellow. For other colors replace color designation with one of the following: **OR** = Orange, **R** = Red, **GN** = Green, **P** = Purple, **W** = White

* = Standard Length:
"**03**" = 3'; "**06**" = 6'; "**08**" = 8'; "**10**" = 10'; "**12**" = 12'; "**16**" = 16'; "**20**" = 20'.
MTO lengths: 25', 30', 35', 40', 45', 50', 55', 60', 75', and 100'.

NEXTSPEED® PCX6 Category 6 Universal Patch Cords

HUBBELL
Advantage

- Patented Design.
- Verified Category 6 Component Performance.
- 100% Factory-Tested to Category 6.
- RoHS Compliant.
- Inner Core Design Extends Patch Cord Life Span Reducing Waste.

Features/Benefits
- Snagless boot design.
- High-performance, staggered plug design.

Specifications
◆ Feature a grey-smoked plug for easy identification.
◆ Third-Party component tested and verified.
◆ Category 6 4-pair 24AWG stranded UTP cable.
◆ UL flame retardant PVC cable jacket.
◆ Modular plug contacts 50μ" Gold plated.
◆ PVC, snagless, slip on boot.

Patch Cords, Category 6

Delivery: 1 patch cord

Catalog No.   **PCX6XX***

XX = Standard Color:
"**B**" = Blue; "**BK**" = Black; "**GY**" = Gray; "**Y**" = Yellow. For other colors replace color designation with one of the following: **OR** = Orange, **R** = Red, **GN** = Green, **P** = Purple, **W** = White

* = Standard Length:
"**03**" = 3'; "**06**" = 6'; "**08**" = 8'; "**10**" = 10'; "**12**" = 12'; "**16**" = 16'; "**20**" = 20'.
MTO lengths: 25', 30', 35', 40', 45', 50', 55', 60', 75', and 100'.

SPEEDGAIN® PCX5E Category 5e Universal Patch Cords

HUBBELL
Advantage

- Patented Design.
- Verified Category 5e Component Performance.
- 100% Factory Tested for Cat 5e.
- RoHS Compliant.
- Inner Core Design Extends Patch Cord Life Span Reducing Waste.

Features/Benefits
- Snagless, slimline boot design.
- High-performance, staggered plug design.

Specifications
◆ Third-Party component tested and verified.
◆ Category 5e 4-pair 24AWG stranded UTP cable.
◆ UL flame retardant PVC cable jacket.
◆ Modular plug contacts 50μ" Gold plated.
◆ Modular plug rated for 750 insertions.
◆ PVC, overmolded slimline boot.

Patch Cords, Category 5e

Delivery: 1 patch cord

Catalog No.   **PCX5EXX***

XX = Standard Color:
"**B**" = Blue; "**BK**" = Black; "**GY**" = Gray; "**Y**" = Yellow
For other colors replace color designation with one of the following:
OR = Orange, **R** = Red, **GN** = Green, **P** = Purple, **W** = White

* = Standard Length:
"**01**" = 1'; "**03**" = 3'; "**05**" = 5'; "**07**" = 7'; "**10**" = 10'; "**15**" = 15'; "**20**" = 20';
"**25**" = 25'; "**30**" = 30'; "**35**" = 35'; "**40**" = 40'; "**45**" = 45'; "**50**" = 50';
"**55**" = 55'; "**60**" = 60'; "**75**" = 75'; "**100**" = 100'

HUBBELL
NextSpeed

Shielded Patch Cords, 10GbE/Category 6

Two-piece conductor sled design.

Customized patch cable.

HUBBELL
Advantage

- ANEXT Component Performance.
- PoE and PoE+ ready.
- 100% Factory Tested.
- RoHS Compliant.
- Inner Core Design Extends Patch Cord Life Span Reducing Waste.

Features/Benefits
- Zero Bit-Error channel performance.
- Controlled crosstalk.
- Backward compatible to Cat. 5e, 5.

Specifications
Mechanical
◆ Cable to plug tensile strength: 20+ lbs.
Material
◆ Plug body: Polycarbonate UL 94V-0.
◆ Plug boot: PVC.

HUBBELL
Hlabel
Compatible with **Hubbell Labeling System** - see page M8.

NEXTSPEED® Shielded Patch Cords, 10GbE/Category 6

RoHS

The PS6 patch cords are constructed with specially designed patch cable and a cross pair separator delivering one of the industry's highest performing patch cords. The PS6 plug incorporates a two-piece conductor sled design to optimize performance and control NEXT by separating and staggering pairs. This unique design provides consistent contact-to-conductor alignment. Every PS6 patch cord is 100% performance tested, to assure high quality and reliability before it leaves the factory.

Length	Catalog No.		Length	Catalog No.	
3'	**PS603XX**	10G	15'	**PS615XX**	10G
5'	**PS605XX**	10G	20'	**PS620XX**	10G
7'	**PS607XX**	10G	25'	**PS625XX**	10G
10'	**PS610XX**	10G			

XX=Color; **B**=Blue, **GY**=Gray

SPEEDGAIN® Shielded Patch Cords, Category 5e

RoHS

The PS5e patch cords are constructed with custom designed patch cable delivering a high performing patch cords. Every PS5e patch cord is 100% performance tested, to assure high quality and reliability before it leaves the factory.

Length	Catalog No.	Length	Catalog No.
3'	**PS5E03XX**	15'	**PS5E15XX**
5'	**PS5E05XX**	20'	**PS5E20XX**
7'	**PS5E07XX**	25'	**PS5E25XX**
10'	**PS5E10XX**		

XX=Color; **B**=Blue, **GY**=Gray

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25-Pair Cable Assemblies

Gigabit, 25-pair Cable Assemblies

Delivery: 1 cable assembly supplied with mounting screws, male-to-male connectors and a choice of various connector configurations.

Gender	Connector Angles	Length	Catalog No.
Male to Male	180° to 90°	5'	**525G2105E**
Male to Male	180° to 90°	10'	**525G2110E**
Male to Male	180° to 90°	15'	**525G2115E**
Male to Male	180° to 180°	5'	**525G2205E**
Male to Male	180° to 180°	10'	**525G2210E**
Male to Male	180° to 180°	15'	**525G2215E**

NOTE: See page E12 for 1000BASE-T patch panels.

525G2210E

Fast Ethernet, 25-pair Cable Assemblies

Delivery: 1 cable assembly supplied with mounting screws, male-to-male connectors and a choice of various connector configurations.

Gender	Connector Angles	Length	100BASE-T Catalog No.
Male to Male	180° to 90°	5'	**525PS2105E**
Male to Male	180° to 90°	10'	**525PS2110E**
Male to Male	180° to 90°	15'	**525PS2115E**
Male to Male	180° to 180°	5'	**525PS2205E**
Male to Male	180° to 180°	10'	**525PS2210E**
Male to Male	180° to 180°	15'	**525PS2215E**
Male to Male	180° to 110°	5'	**525PS2305E**
Male to Male	180° to 110°	10'	**525PS2310E**
Male to Male	180° to 110°	15'	**525PS2315E**

NOTE: See page E12 for 100BASE-T patch panels.

525PS2205E

Hydra "Octopus" Cable Assemblies

Delivery: 1 cable assembly.

Wiring Format	25-Pair Connector	Plug Type	# Legs	Length	Catalog No.
T568B	180°	RJ45 Cat 5e	6	1m	**525PS2R06-1ME**
T568B	180°	RJ45 Cat 5e	6	2m	**525PS2R06-2ME**
T568B	180°	RJ45 Cat 5e	6	3m	**525PS2R06-3ME**
10/100B-T (1,2,3,6)	180°	RJ45 Cat 5e	12	1m	**525PS2R12-1ME**
10/100B-T (1,2,3,6)	180°	RJ45 Cat 5e	12	2m	**525PS2R12-2ME**
10/100B-T (1,2,3,6)	180°	RJ45 Cat 5e	12	3m	**525PS2R12-3ME**

525PS2R06-1ME

Testers and Tools

Modular Plugs

RoHS

Snap On

Modular

Specifications

Snap On Plugs
◆ UL Listed File #E129878.
◆ cUL Certified File #LR80837.
◆ All plug contacts 50 micro-inch Gold-plated.
◆ IDC wire contacts.
◆ Plastic: 94V-0 rated.
◆ For voice applications.
◆ For solid cable.

Modular Plugs
◆ UL Listed File #E129878.
◆ All plug contacts 50 micro-inch Gold-plated.
◆ UL 94V-0 rated.
◆ Terminates solid and stranded conductors.

Snap On Modular Plug

Description	Catalog No.
Snap on, 8-position modular plug	**BRFTP4P**

Modular Plugs

Description	Insulated Conductor Range	AWG	Catalog No.
8-position/8-contact	.032-.038	24-26	**BRMOD4P25**
8-position/8-contact, snagless	.032-.038	24-26	**BRMOD4PSN25**
8-position/8-contact, blue	.026-.030	26	**UNICON14P25**
6-position/6-contact	.032-.038	24-26	**BRMOD3P25**
4-position/4-contact	.032-.038	24-26	**BRMOD2P25**

Continuity Tester

RoHS

Features/Benefits
■ Compact size.
■ One button test results.
■ Automatic shut off.
■ 9 volt battery included.

Specifications
◆ Tests up to 320 feet.
◆ Built-in BNC connector with F connector.
◆ Coax cable types tested: 50-75Ohm RG58, RG59, RG6, RG6 quad, Belden 8281, RG8 AND RG11.

Delivery: Main and remote continuity test units, 2 F-connector adapters, 2 RJ45 shielded patch cables, 2 belt clips

Catalog No.	
	TCT2

Crimp Tool

RoHS

CDTSR11

CDTSR22

UCT

CDTSR45

ECT

Features/Benefits
■ Universal frame accepts interchangeable dies to crimp different plugs.
■ Color-coded die-sets for different plug sizes.
■ Complete ratchet cycle release assures no-fault crimps.

Specifications
◆ Parallel compression terminates to FCC specs - no misalignment.
◆ Integral wire cutter/stripper - cuts and strips cable without another tool.

Description	Catalog No.
Complete tool kit in hard, plastic case includes crimp tool, 3 die-sets UTP cable stripper Die-sets include: RJ45, RJ22 and RJ11	**UCTKIT**
Crimp Tool frame (die-sets sold separately)	**UCT**
RJ11 Die-Set	**CDTSR11**
RJ22 Die-Set	**CDTSR22**
RJ45 Die-Set (snagless or non-snagless)	**CDTSR45**
RJ45 Die-Set (non-snagless)	**CDTSR45S**
RG6 and RG59 Hex Crimp die-set	**CTDSRG659**
Economy Crimp Tool - includes non-replaceable RJ11, RJ22 and RJ45 Die-Sets	**ECT**
RG6 and RG59 Compression tool	**COMPTRG659**

Assemble-to-Order Cable Assembly Program

HUBBELL
Advantage

- High performance, fast lead time.
- Custom-configured assemblies specific to the job.
- 100% factory tested, factory assembled.
- Made-to-length assemblies eliminates cable waste.

Hubbell's Assemble-to-Order cable assembly program can deliver custom copper and fiber assemblies within a short period of time.

Knowing that every job and every application is different, we offer custom lengths, configurations and colors to custom fit any application.

Whether the application is Cat 5e, 6, 6A, 25-pair, pre-terminated blocks or multi-configured fiber trunk cables, Hubbell can satisfy your cable assembly needs. Contact Customer Service for your custom cable assembly needs - minimum quantities apply.

RoHS

Copper Patch Cords

- Pre-Terminated Copper Trunk Assemblies.
- Category 3/5e/6/6A.
- Solid or stranded cable.
- Single or double-ended.
- Custom lengths.
- Custom configurations.
- Booted/non-booted.
- Snagless or regular plug style.
- 11 different colors.

110 and 25-pair

- Custom lengths.
- Custom wiring.
- Over molded.
- Single or double-ended.

Audio Video

- X-END™ customs.
- HD-15 SVGA style.
- S-Video.
- BNC.
- RCA.
- 3.5mm.
- Plenum.
- Riser.
- Multi-Coax.
- Multi-Bundle application.

Fiber Cords

- Trunk Cables - Multi-fiber Cable
- Simplex
- Duplex
- Pigtails
- Singlemode
- Multimode
- MTP/MTO assemblies
- LC
- SC
- ST-Style
- FC
- MT-RJ
- Angle polish
- Custom lengths

CROSS CONNECT

LEADING THE INDUSTRY IN PRODUCT INNOVATION, COMPONENT DESIGN, AND CATEGORY SYSTEM PERFORMANCE, WE DELIVER CONNECTIVITY FOR THE NEXT GENERATION OF PERFORMANCE WITH OUR FULL LINE OF CROSS CONNECT AND WORK STATION PRODUCTS.

NEXTSPEED 6A

NEXTSPEED 6A

FACE PLATES•PATCH CORDS•CABLE ASSEMBLIES•OUTLET FRAMES•SURFACE BOXES•JACKS•CATEGORY 6 SYSTEM
ADAPTERS•Audio Video CONNECTORS•FRONT-LOADING FACE PLATES•FURNITURE PLATES•SHIELDED JACKS•SPE
1-PUNCH TOOL•USOC•CATEGORY 5E•SURFACE MOUNT BOXES•NEXTSPEED PRODUCTS•MULTIMEDIA CONNE
•XCELERATOR JACKS•ASCENT 10GbE •SYSTEM CHANNEL•MODULAR PLUGS•CROSS CONNECT SYSTEMS•PATCH
MODULAR 66 BLOCKS•LABELING SOLUTIONS•RACK MOUNT KITS•MULTIMEDIA PANELS•CONSOLIDATION POIN
PATCH PANELS•MULTIMEDIA PLATE•WALL PHONE PLATES•OUTLET PLATES•REAR-LOADING FACE PLATES•BULK CO
•ISTATION PRODUCTS•110 BLOCKS•CATEGORY 3•TAMPER-RESISTANT FACE PLATES•ISTATION AUDIO VIDEO MO

CROSS CONNECT CONTENTS

HUBBELL
NextSpeed

Ascent, Category 6A Patch Panels

Design
- Enhanced common mode design to eliminate residual and reflected NEXT and ANEXT.

Performance
- Balanced PCB design delivers significant headroom over the TIA Category 6A standard up to 500MHz providing true 10GbE application assurance.

Reliability
- Application: Third-Party qualified for 10 Gigabit Ethernet Transmission IEEE 802.3an.
- Component: Third-Party verified for TIA-568-C.2 Category 6A component.
- Channel: Third-Party tested for ISO 11801 Class EA compliant.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Mechanical: Third-Party verified to TIA-568-C.2.
- Manufacturing: 100% factory tested in a controlled environment.

Identification
- Centered port identification allows for greater visibility of labels and clean patch cord organization on a 48-port patch panel.

Installation Ease
- Third hand location pin provides a hands-free installation. Simplifies rack layout.

Durability
- Rolled edge construction provides rugged strength to eliminate flex during termination.

Superior Strain Relief
- Locking IDC stuffer cap ensures termination retention, securing wires during installation.

Administration
- Accepts Hubbell laser printable label sheets and industry recognized 0.5" hand held printer tape.

Specifications
- ◆ Nose contact material: Beryllium Copper with Precious Metal plating with Nickel under-plating.
- ◆ Contact performance confirmed over the full range of TIA plug deflection limits.

Standards
- ● TIA-568-C.2 (Previously 568-B.2-10 Category 6A) component.
- ● ISO 11801 Class EA Compliant (Category 6A).
- ● IEEE 802.3at.
- ● UL Listed 1863.

HUBBELL
Advantage

- ■ True TIA and ISO Category 6A Component Compliance.
- ■ Labor Savings: Exclusive 1-Punch Termination Reduces Termination Time by 75%.
- ■ Third-Party Tested and Verified.
- ■ Eco-Friendly Packaging Utilizes Recyclable Materials and Eliminates Excess Packing Waste.

NEXTSPEED® Ascent, Category 6A, Component Patch Panels

The **NEXTSPEED**® Ascent Category 6A Patch Panel exceeds TIA Category 6A and ISO component specifications supporting network convergence protocols delivering maximum 10GbE bandwidth and extended reliability for all LAN, multimedia, and Power over Ethernet applications.

Ports	Height	Width	Rack Units	Color	Catalog No.	
24	1.75" (45)	19" (483)	1	Black	**HP6A24U**	✓10G
48	3.50" (89)	19" (483)	2	Black	**HP6A48U**	✓10G
96	7.00" (178)	19" (483)	4	Black	**HP6A96U**	✓10G
24	1.75" (45)	19" (483)	1	Silver	**HP6A24US**	✓10G
48	3.50" (89)	19" (483)	2	Silver	**HP6A48US**	✓10G
96	7.00" (178)	19" (483)	4	Silver	**HP6A96US**	✓10G

HP6A24U

HP6A48U

NEXTSPEED® Ascent, Category 6A, Component Angled Patch Panels

Ports	Height	Rack Units	Catalog No.	
24	1.75" (45)	1	**HP6A24AU**	✓10G
48	3.50" (89)	2	**HP6A48AU**	✓10G

HP648AU

MUTOA, Category 6A Component

Features/Benefits

■ Delivers Category 6A performance in a flexible format for open office and extended LAN applications.
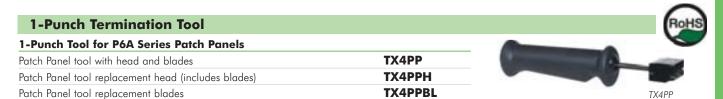
Specifications

◆ UL and cUL Listed.

Description	Catalog No.	
Consolidation point block,12-port, Category 6A, universal, 89D	**P6A12U**	✓10G

1-Punch Termination Tool

1-Punch Tool for P6A Series Patch Panels

Patch Panel tool with head and blades	**TX4PP**
Patch Panel tool replacement head (includes blades)	**TX4PPH**
Patch Panel tool replacement blades	**TX4PPBL**

TX4PP

Rear Cable Management Bars

Description	Catalog No.	
Screws to rear flange of 19" rack.	**CMBR**	✓10G
Holds each wire to minimize ANEXT and maximize performance.		
Clips to rear of panels.	**PCBLMGT**	

CMBR

PCBLMGT

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HUBBELL

NextSpeed

Category 6 Patch Panels

Design
- Center balanced to Category 6 plug specifications.

Performance
- Balanced PCB design delivers significant headroom over the TIA Category 6 standard up to 250MHz providing true application assurance.

Administration
- Accepts Hubbell laser printable label sheets and industry recognized 0.5" hand held printer tape.

Reliability
- Application: Third-Party qualified for 10 Gigabit Ethernet Transmission IEEE 802.3an (TSB-155).
- Component: Third-Party verified for TIA-568-C.2 Category 6 Component.
- Channel: Third-Party verified for ISO 11801 Class EA compliant.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Manufacturing: 100% factory tested.

Durability
- Rolled edge construction provides rugged strength to eliminate flex during termination.

Identification
- Centered port identification allows for greater visibility of labels and clean patch cord organization on a 48-port patch panel.

Installation Ease
- Third hand location pin provides a hands-free installation. Simplifies rack layout.

Superior Strain Relief
- Optional cable management bar (CMBR) attaches to the rack behind the panel providing excellent strain relief.

Specifications
- ◆ Nose contact material: Beryllium Copper with Precious Metal plating with Nickel under-plating.
- ◆ Contact performance confirmed over the full range of (FCC Specification) deflection limits.

Standards
- ● TIA-568-C.2 Category 6 Component.
- ● ISO 11801 Class E Compliant Category 6.
- ● IEEE 802.3at.
- ● UL Listed 1863.

HUBBELL

Advantage

- ■ TIA Category 6 Component Compliance.
- ■ Labor Savings: Exclusive 1-Punch Termination Reduces Termination Time by 75%.
- ■ Third-Party Tested and Verified.
- ■ Eco-Friendly Packaging Utilizes Recyclable Materials and Eliminates Excess Packing Waste.

NEXTSPEED® Universal Patch Panel, Category 6

The **NEXTSPEED®** Category 6 Patch Panel exceeds TIA Category 6 and ISO component specifications supporting network convergence protocols delivering maximum bandwidth and extended reliability for all LAN, multimedia, and Power over Ethernet applications.

Ports	Height	Rack Units	Black, Protected PCB Catalog No.	White, Protected PCB Catalog No.
24	1.75" (45)	1	**P6E24U**	**P6E24UW**
48	3.50" (89)	2	**P6E48U**	**P6E48UW**
96	7.00" (178)	4	**P6E96U**	**P6E96UW**

P6E48U

NEXTSPEED® Angled, Universal Patch Panel, Category 6

Ports	Height	Rack Units	Catalog No.
24	1.75" (45)	1	**P624AU**
48	3.50" (89)	2	**P648AU**

P624AU

P648AU

MUTOA, Category 6

Features/Benefits

- Delivers Category 6 performance in a flexible format for open office and extended LAN applications.

Specifications

- ◆ The Category 6 CPB is designed to exceed TIA-568-C component specs.
- ◆ UL and cUL Listed.

Description	Catalog No.
Consolidation point block,12-port, Category 6, universal, 89D	**P612U**

P612U

1-Punch Termination Tool

1-Punch Tool for P6E Series Patch Panels

Patch Panel tool with head and blades	**TX4PP**
Patch Panel tool replacement head (includes blades)	**TX4PPH**
Patch Panel tool replacement blades	**TX4PPBL**

TX4PP

Rear Cable Management Bars

Description	Catalog No.
Screws to rear flange of 19" rack.	**CMBR** ✓**10G**
Holds each wire to maximize performance.	
Clips to rear of panels.	**PCBLMGT**

CMBR

PCBLMGT

HUBBELL
SpeedGain

Category 5e Patch Panels

Design
- Center balanced to Category 5e plug specifications.

Performance
- Balanced PCB design delivers significant headroom over the TIA Category 5e standard up to 100MHz providing true application assurance.

Reliability
- Application: Third-Party qualified for Gigabit Ethernet Transmission IEEE 802.3.
- Component: Third-Party verified for TIA-568-C.2 Category 5e Component.
- Channel: Third-Party verified for ISO 11801 Class D Compliant.
- Current Capacity: Qualified for PoE and PoE+ IEEE 802.3at.
- Manufacturing: 100% factory tested.

Identification
- Centered port identification allows for greater visibility of labels and clean patch cord organization on a 48-port patch panel.

Administration
- Accepts Hubbell laser printable label sheets and industry recognized 0.5" hand held printer tape.

Durability
- Rolled edge construction provides rugged strength to eliminate flex during termination.
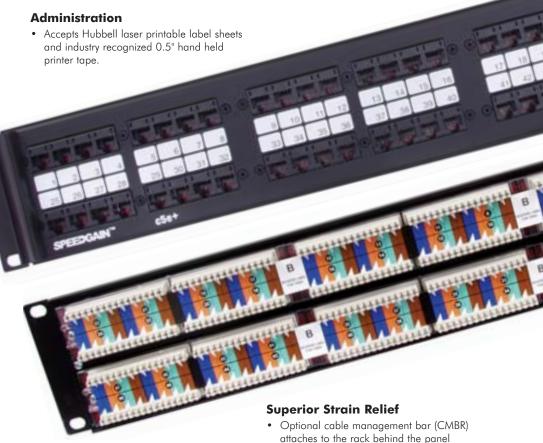
Superior Strain Relief
- Optional cable management bar (CMBR) attaches to the rack behind the panel providing excellent strain relief.

Installation Ease
- Universal wiring panels can be terminated using T568B or T568A wiring formats.

Specifications
- ◆ Nose contact material: Beryllium Copper with Precious Metal plating with Nickel under-plating.
- ◆ Contact performance confirmed over the full range of (FCC Specification) deflection limits.

Standards
- ● TIA-568-C.2 Category 5e Component.
- ● ISO 11801 Class D Compliant Category 5e.
- ● IEEE 802.3at.
- ● UL Listed 1863.

HUBBELL
Advantage

- ■ Industry's Fastest Terminating Panel.
- ■ Inline IDC Termination.
- ■ 100% Factory Tested.
- ■ Eco-Friendly Packaging Utilizes Recyclable Materials and Eliminates Excess Packing Waste.

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SPEEDGAIN® Universal Patch Panel, Category 5e

Ports	Height	Rack Units	Black Catalog No.	White Catalog No.	Black, Angled Catalog No.
16	1.75" (45)	1	**P5E16UE**	-	-
24	1.75" (45)	1	**P5E24UE**	**P5E24UEW**	**P5E24AU**
48	3.50" (89)	2	**P5E48UE**	**P5E48UEW**	**P5E48AU**
96	7.00" (178)	4	**P5E96UE**	**P5E96UEW**	-

P5E24UE
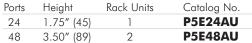
P5E48UE

SPEEDGAIN® Angled, Universal Patch Panel, Category 5e

Ports	Height	Rack Units	Catalog No.
24	1.75" (45)	1	**P5E24AU**
48	3.50" (89)	2	**P5E48AU**

P5E24AU

MUTOA, Category 5e

Features/Benefits

■ Delivers Category 5e performance in a flexible format for open office and extended LAN applications.

Specifications

◆ The Category 5e CPB meets and exceed TIA-568-C-2 component specifications to 100 MHz.

◆ UL and cUL Listed.

Description	Catalog No.
Consolidation point block, 12-port, Category 5e, universal, 89D	**P5E12U**

P5E12U

Rear Cable Management Bars

Description	Catalog No.
Screws to rear flange of 19" rack.	**CMBR**
Holds each wire to maximize performance.	
Clips to rear of panels.	**PCBLMGT**

CMBR

PCBLMGT

HUBBELL iStation

Multimedia and Keystone Panels

Angled Design
- Eliminates the need for cable management allowing for more patch capabilities. Angle allows cable to flow into cable channels.

Superior Cable Strain Relief
- Optional cable management bar (CMBR) attaches to the rack behind the panel providing excellent strain relief.

Capacity
- Ideal solution where rack space is at an absolute premium, add-as-you-go flexibility, mixed jack performance, and color-coding are desired.

Administration
- Centered port identification allows for greater visibility of labels and clean patch cord organization.

Installation Ease
- Third hand location pin provides a hands-free installation. Simplifies rack layout.

Durability
- Rolled edge construction provides rugged strength to eliminate flex during termination.

iSTATION™ Design
- Front-loading iSTATION™ modules allow for X-END™ installation and Audio Video application modules.

Keystone Design
- Rear-loading Hubbell keystone feature simplifies installation, allowing for MACs and provides migration path.

Specifications
- ◆ Material: 16 ga. Cold Rolled Steel.
- ◆ Compatible with Hubbell Labeling Solution.
- ◆ Rear-loading keystone panels compatible with HPW keystone AV connectors.
- ◆ iSTATION™ panels compatible with all iSTATION™ modules.
- ◆ All panels accept Hubbell jacks.

Standards
- ● Complies with EIA-310-D rack mount standard.

HUBBELL Advantage

- ■ Angle Panel Design Eliminates the need for Cable Management, Freeing Up Valuable Real Estate.
- ■ Third Hand Helper Installation Aid.
- ■ Panel Allows for Endless Audio Video and Data Applications.
- ■ Eco-Friendly Packaging Utilizes Recyclable Materials and Eliminates Excess Packing Waste.

PXJ Jack Panel Kits, Loaded

RoHS

PXJ624BKE

PXJ624BKE

PXJ648BKE

Height	Port Size	Jack Color	Category 5e Catalog No.	Category 6 Catalog No.
1U (1.75")	24	Black	-	**PXJ624BKE**
1U (1.75")	24	Gray	-	**PXJ624E**
1U (1.75")	36	Gray	-	**PXJ636E**
1U (1.75")	48	Black	**PXJ5E48E1U**	**PXJ648BKE1U**
1U (1.75")	48	Gray	-	**PXJ648E1U**
2U (3.50")	48	Black	-	**PXJ648BKE**
2U (3.50")	48	Gray	-	**PXJ648E**
1U (1.75")	24	Black	**UDX245EIL***	**UDX246IL***

* Loaded inline coupler panels

UDX Super, High-Density Panel

Description	Height	Port Size	Jacks	Catalog No.
UDX Jack Panel	1U (1.75")	48	Unloaded	**UDX48E1U**

NOTE: UDX48E1U only accepts XCELERATOR™ jacks.

UDX Multimedia Jack Panels, Unloaded

Style	Height	Port Size	Jacks Supplied	Color	Catalog No.
Wall Mount	-	12	Unloaded	Black	**UDX1289***
Rack Mount	1U (1.75")	24	Unloaded	Black	**UDX24E**
Rack Mount	1U (1.75")	36	Unloaded	Black	**UDX36E**
Rack Mount	2U (3.50")	48	Unloaded	Black	**UDX48E**
Angled	1U (1.75")	24	Unloaded	Black	**UDXA24**
Angled	2U (3.50")	48	Unloaded	Black	**UDXA48**

* Pre-mounted on an 89D bracket.
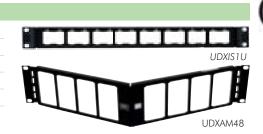
NOTE: See page N27 in the Technical Section for UDX Panel compatibility chart.

UDX24E

UDXA24

iSTATION™ Patch Panels, Front-Loading, Unloaded

Style	Height	Opening Size	No. of Total Units	Catalog No.
Flat	1U (1.75")	1 Unit	8-1 Unit Modules	**UDXIS1U**[1]
Flat	2U (3.50")	3 Units	24-1 Unit Modules	**UDXIS2U**
Angled	1U (1.75")	1 Unit	8-1 Unit Modules	**UDXAM16**[1]
Angled	2U (3.50")	3 Units	24-1 Unit Modules	**UDXAM48**
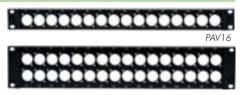
NOTE: See page B23 for a complete listing of iSTATION™ modules.

[1] NOTE: Use only iSTATION™ 1U modules - see page B23.

UDXIS1U

UDXAM48

Pro-AV Panel Mount Patch Panels, Unloaded

Style	Height	Opening Size	No. of Connectors	Catalog No.
Flat	1U (1.75")	Pro-AV	16	**PAV16**
Flat	2U (3.50")	Pro-AV	32	**PAV32**
Angled	1U (1.75")	Pro-AV	16	**PAVA16**
Angled	2U (3.50")	Pro-AV	32	**PAVA32**

Note: See page B18 for Pro-AV panel mount (XLR type) connector information.

PAV16

PAV32

Angled Blank Panels and Cover

Description	Height	Ports	Color	Catalog No.
Blank Panel	1U (1.75")	-	Black	**ABP175**
	2U (3.50")	-	Black	**ABP350**
				Catalog No.
Angled Panel Cover, Top/Bottom			Black	**APC**

ABP350

APC

NEXTSPEED® 6 Shielded Patch Panels, Unloaded

The **NEXTSPEED®** PSJ24 19" panels are a 1-rack unit 16-port or 24-port high-density unloaded patch panel.

Ports	Height	Rack Units	Catalog No. Black	Catalog No. Silver
16	1.75" (45)	1	**UDX16E**	-
24	1.75" (45)	1	**PSJ24BK**	**PSJ24S**

*Note: Order jacks separately - see page B6.

UDX16E

PSJ24S

Rear Cable Management Bars

Description	Catalog No.
Screws to rear flange of 19" rack.	**CMBR**
Holds each wire to minimize ANEXT and maximize performance.	
Clips to rear of panels.	**PCBLMGT**

CMBR

PCBLMGT

Multimedia and Keystone Patch Panels

HUBBELL
SpeedGain

Gigabit Ethernet Panels

Design
• Gigabit Ethernet transmission, 100MHz.

Durability
• Rolled edge construction provides rugged strength to eliminate flex during termination.

Capacity
• 25-pair cable much smaller profile than equivalent 6-cable bundle of 4-pair UTP. Frees up valuable space in the cabinet and in the floor for maximum airflow.

Administration
• Much easier to track and manage a single 25-pair cable versus six 4-pair UTP cables.
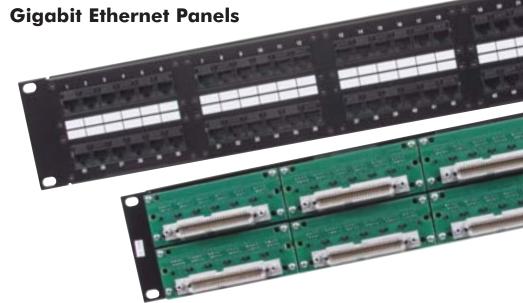
Reliability
• Application: Third-Party qualified for Gigabit Ethernet Transmission IEEE 802.3.
• Performance: Third-Party verified for TIA-568-C.2 Category 5e.
• Manufacturing: 100% factory tested.

Superior Cable Strain Relief
• Optional cable management bar (CMBR) attaches to the rack behind the panel providing excellent strain relief.
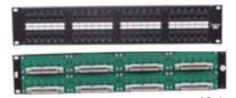
HUBBELL
Advantage

■ One of the Industry's Only Gigabit Ethernet Panels.

■ 6 Port Installation Using 25-Pair Assemblies.

■ Third-Party Tested and Verified.

■ Eco-Friendly Packaging Utilizes Recyclable Materials and Eliminates Excess Packing Waste.

Gigabit Ethernet 1000BASE-T Patch Panels

RoHS

PG48

Delivery: 1 1000BASE-T patch panel, 4 mounting screws, 4 cable assembly screws

Ports	Height	Width	Depth	Connectors	Catalog No.
24	1.75" (45)	19" (483)	1.2" (31)	Female	**PG24**
48	3.50" (89)	19" (483)	1.2" (31)	Female	**PG48**

Fast Ethernet 100BASE-T Patch Panels (Female 50-pin)

RoHS

MCC48100BT19

Delivery: 1 100BASE-T patch panel, 4 mounting screws, 4 cable assembly screws

Ports	Height	Width	Depth	Connectors	Catalog No.
24	1.75" (45)	19" (483)	1.2" (31)	Female	**MCC24100BT19**
48	3.50" (89)	19" (483)	1.2" (31)	Female	**MCC48100BT19**

Category 5e, 25-pair Cable Assemblies

RoHS

Hubbell's 25-Pair cable assemblies are your enhanced interconnect solution for 10/100BASE-T Fast Ethernet or 1000BASE-T Gigabit Ethernet. Our 525PS cable assemblies are provided with 90°, 110° and 180° connectors in various lengths, allowing flexibility and customization at the interconnect.

525PS2205E

525G2105E

Connector Angles	Gender	100BASE-T Catalog No.	1000BASE-T Catalog No.
180° to 90°	Male-to-Male	**525PS21XXE***	**525G21XXE***
180° to 180°	Male-to-Male	**525PS22XXE***	**525G22XXE***
180° to 110°	Male-to-Male	**525PS23XXE***	-
110° to 110°	Male-to-Male	-	**525G33XXE***

* Many lengths available - check with factory about specific length requirements.

Specialty Patch Panels

Design
• Center balanced to Category 5e and 6 plug specifications.

Durability
• Rolled edge construction provides rugged strength to eliminate flex during termination.

Installation
• Specialty panels are an ideal MUTOA solution and consolidation point where space is not available.

Reliability
• Application: Third-Party qualified for Gigabit Ethernet Transmission IEEE 802.3.
• Component: Third-Party qualified for Category 5e and 6 Component.
• Channel: Third-Party verified for ISO 11801 Class D/E Compliant.
• Manufacturing: 100% factory tested.

Installation Ease
• Universal wiring panels can be terminated using T568B or T568A wiring formats.

Superior Cable Strain Relief
• Optional cable management bar (CMBR) attaches to the rack behind the panel providing excellent strain relief.

HUBBELL
Advantage

■ Patented Hinged Design (U.S. Patent No. 5,765,698).

■ The Cable Management Panel on the Hinged, Fold Down Patch Panel Acts as a Bench Supporting the Panel During Termination.

■ Third-Party Tested and Verified.

■ Eco-Friendly Packaging Utilizes Recyclable Materials and Eliminates Excess Packing Waste.

Patch Panels, Front Access, Category 5e

Wiring	Ports	Height		Width		Depth		Catalog No.
T568B	12	2.5"	(64)	10"	(254)	1.5"	(38)	**P5E12BF**
T568A	12	2.5"	(64)	10"	(254)	1.5"	(38)	**P5E12AF**
T568B	24	3.5"	(89)	19"	(483)	1.5"	(38)	**P5E24BF**
T568A	24	3.5"	(89)	19"	(483)	1.5"	(38)	**P5E24AF**

P5E24BF

Patch Panels, Hinged, Fold-Down, Category 6A, 6, and 5e

Wiring	Style	Ports	Height		Width		Depth		Category	Catalog No.
Universal	Wall	48	7.0"	(177)	19"	(483)	7.5"	(190.5)	6A	**P6A48UF**
Universal	Rack	48	7.0"	(177)	19"	(483)	1.5"	(38)	6A	**P6A48UF19**
Universal	Wall	48	7.0"	(177)	19"	(483)	7.5"	(190.5)	6	**P648UF**
Universal	Rack	48	7.0"	(177)	19"	(483)	1.5"	(38)	6	**P648UF19**
Universal	Wall	48	7.0"	(177)	19"	(483)	7.5"	(190.5)	5e	**P5E48UF**
Universal	Rack	48	7.0"	(177)	19"	(483)	1.5"	(38)	5e	**P5E48UF19**

P648UF19

P5E48BF

6-110 Connecting Block System

Field terminated patch plugs allow custom length patch cords to be assembled in the field.

Complete Hubbell Labeling Solution includes software, laser-printable sheets, and clear covers (order separately).

Features/Benefits

■ Category 6 field terminated patch plugs allow custom length patch cords to be assembled in the field by utilizing a labor saving snap fit design.

■ High-definition color coding and tip and ring identification make conductor placement easy.

■ Versatile solution consisting of 64- and 192-pair wiring blocks, 4-pair connecting blocks, field termination kits, and a complete line of accessories.

■ Cable access openings allow cables to be routed through the rear of the block directly to the point of termination.

Specifications

◆ Verified to exceed TIA-568-C.2 Category 6 component specifications.

◆ Connecting Blocks
Material: Polycarbonate UL 94V-0.
Contact material: Phosphor bronze.
Contact plating: lead-free tin.
Conductor type: Solid or stranded (7).
Conductor: Solid or stranded 26-22 AWG.

◆ Wiring Blocks
Material: Polycarbonate UL 94V-0.
Conductor: Solid or stranded 26-22 AWG.

◆ cUL and UL Listed.

HUBBELL
Advantage

■ Verified to Exceed TIA-568-C.2 Category 6 Component Specifications.

■ Increased Pair Isolation on 6-110 Connecting Blocks Provide for Superior NEXT Performance.

■ Cable Access Holes and Increased Channel Width Allows Jacketed Cable to be Close to Termination Helping to Maintain Proper Pair Twist.

HUBBELL
Hlabel

Compatible with
Hubbell Labeling System - see page M8.

Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

Field Termination Kits, 6-110

Field termination kits facilitate easy ordering and include everything needed to assemble and configure a complete 6-110 Category 6 cross connect field. Field Termination kits are available with 64- or 192-pair wiring blocks and appropriate number of 4-pair connecting blocks and port identification labeling.

Description	Catalog No.	
6-110/64-pair field termination kit with standoff legs	**6110FTK64WL**	✓10G
6-110/64-pair field termination kit without standoff legs	**6110FTK64NL**	✓10G
6-110/192-pair field termination kit with standoff legs	**6110FTK192WL**	✓10G

Termination Tool, 6-110/4-pair

This termination tool is designed to seat 6-110/4-pair connecting blocks and terminate/cut UTP cable on 6-110 wiring blocks.

Features/Benefits
- Cut designation on tool head aids proper orientation before termination.
- Ergonomic rubber handle.
- Head and blades remove easily for fast replacement.

Description	Catalog No.
Termination tool, 4-pair, 6-110 (includes head and blades)	**6110MPPDT**
Replacement tool head, 6-110 (includes labels)	**6110MPPDT1**

Field Terminated Patch Plugs

Delivery: 1 patch plug base, 1 patch plug cover, 1 cable tie.

Description	Catalog No.
Category 6, 6-110, 4-pair, yellow	**6110FPP4PR**

Factory Terminated Patch Cords

Delivery: 1 yellow patch cord

Length	Catalog No. 6-110 to 6-110	Catalog No. 6-110 to RJ45 (T568B)
3'	**6110PCL3**	**6119PCL3**
5'	**6110PCL5**	**6119PCL5**
7'	**6110PCL7**	**6119PCL7**
9'	**6110PCL9**	**6119PCL9**
12'	**6110PCL12**	**6119PCL12**

When making a 6-110 to RJ45 cord, purchase Hubbell NEXTSPEED® PCX6 Patch Cords (see page D7) and cut cords in half. Then terminate the cut ends with 6-110 patch plugs.

Connecting Blocks, 6-110/4-pair

Hubbell Category 6, 4-pair connecting blocks are terminated to the wiring blocks utilizing a Hubbell 6-110/4-pair impact tool. Each connecting block features high definition color coding, tip and ring markings, and angled IDC towers to make conductor placement and lacing easy.

Description	Catalog No.	
Connecting blocks, 6-110/4-pair	**6110CB4PR10**	✓10G

Hubbell Labeling Solution

The Hubbell Labeling Solution 110 laser-printable label sheets and covers can be mounted between each wiring channel to identify individual station ports or pair counts. See page M8 for more information.

Description	Catalog No.
Laser-printable label sheets, 6-110 /110, white	**XPL11010W**
Laser-printable label sheets, 6-110 /110, yellow	**XPL11010Y**
Laser-printable label sheets, 6-110 /110, blue	**XPL11010B**

110 Connecting Block System, Category 5e

Field terminated patch plugs allow custom length patch cords to be assembled in the field.

High definition color coding and tip and ring designation make conductor placement and termination simple.

Complete Hubbell Labeling Solution includes software, laser-printable sheets, and clear covers (order separately).

Features/Benefits

- Provides a reliable, cost-effective, front terminated solution.

- Total interoperability with existing 110 systems.

- Flexible solution consisting of 50-, 100-, and 300-pair wiring blocks, 4- and 5-pair connecting blocks, and a complete line of accessories.

Specifications

- ◆ Verified to exceed TIA-568-C.2 Category 5e component specifications.

- ◆ Connecting Blocks
  Material: Polycarbonate UL 94V-0.
  Contact material: Phosphor bronze.
  Contact plating: Lead-free tin.
  Conductor type: Solid or stranded (7).
  Conductor: Solid or stranded 26-22 AWG.

- ◆ Wiring Blocks
  Material: Polycarbonate UL 94V-0.
  Conductor: Solid or stranded 26-22 AWG.

- ◆ UL and cUL Listed.

HUBBELL
Advantage

- Cable Access Openings Allow Cables to be Routed Through Wiring Blocks Directly to Point of Termination.

- Wiring Blocks Available With or Without Detachable Legs Which can be Removed During or After Termination.

HUBBELL
Hlabel
Compatible with **Hubbell Labeling System** - see page M8.

Wiring Blocks, 110
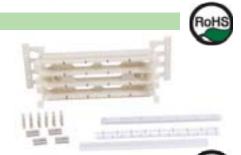
Create a flexible, high density, 110 termination field for voice and data applications by mounting 110 wiring blocks to the wall or plywood backboard. Wiring blocks are available for 50- 100- and 300-pairs.

Description	Catalog No.
Wiring block, 110/50-pair with standoff legs	**110BLK50BWL**
Wiring block, 110/50-pair without standoff legs	**110BLK50BNL**
Wiring block, 110/100-pair with standoff legs	**110BLK100BWL**
Wiring block, 110/100-pair without standoff legs	**110BLK100BNL**
Wiring block, 110/300-pair with standoff legs	**110BLK300BWL**
Wiring block, 110/300-pair without standoff legs	**110BLK300BNL**

Field Termination Kits, 110

Kits include everything needed to configure a complete 110 cross connect field.

Description	Catalog No.
Field Term Kit, 110/50-pair with 4-pair blocks	**110BLK50FTK4**
Field Term Kit, 110/50-pair with 5-pair blocks	**110BLK50FTK5**
Field Term Kit, 110/100-pair with 4-pair blocks	**110BLK100FTK4**
Field Term Kit, 110/100-pair with 5-pair blocks	**110BLK100FTK5**
Field Term Kit, 110/300-pair with 4-pair blocks	**110BLK300FTK4**
Field Term Kit, 110/300-pair with 5-pair blocks	**110BLK300FTK5**

Termination Tool, 110/5-pair

110/5-pair tool is designed to seat 110 connecting blocks and terminate and cut UTP cable on 110 wiring blocks.

Description	Catalog No.
Termination tool, 110/5-pair (includes head and blades)	**T5PPD110**
Replacement tool head, 110/5-pair (includes blades)	**T5PPD110H**
Replacement tool blades, 110/5-pair	**T5PPD110B**

Field Terminated Patch Plugs

Delivery: 1 patch plug base, 1 patch plug cover, 1 cable tie.

Description	Catalog No.
Category 5e, 110, 4-pair, gray	**110FPP4PR**

Factory Terminated Patch Cords

Length	Catalog No. 110 to 110	Catalog No. 110 to RJ45 (T568B)
3'	**PC110C5EL3**	**PC119C5EL3**
5'	**PC110C5EL5**	**PC119C5EL5**
7'	**PC110C5EL7**	**PC119C5EL7**
9'	**PC110C5EL9**	**PC119C5EL9**
12'	**PC110C5EL12**	**PC119C5EL12**

* The standard color for the plugs of 110 patch cords is gray, however custom colors and lengths are available. Please consult Customer Service for price and availability at 1-800-626-0005.

When making a 110 to RJ45 cord, purchase Hubbell **SPEEDGAIN**™ PCX5E Patch Cords (see page D7) and cut cords in half. Then terminate the cut ends with 110 patch plugs.

Connecting Blocks, 110

110 connecting blocks are terminated to the 110 wiring blocks using the 110/5-pair termination tool. Available in 4- and 5-pair sizes.

Description	Catalog No.
Connecting Blocks, 110/4-pair (kit of 10)	**110CB4PR10**
Connecting Blocks, 110/5-pair (kit of 10)	**110CB5PR10**
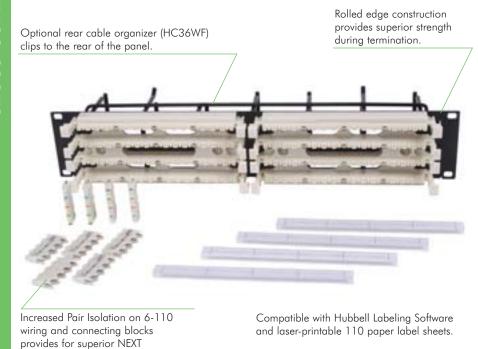
Hubbell Labeling Solutions - Cross Connect, 110/6-110

The Hubbell Labeling Solution 110 laser-printable label sheets and covers can be mounted between each wiring channel to identify individual station ports or pairs counts. See page M8 for more information.

Description	Catalog No.
Laser-printable label sheets, 110/6-110, white	**XPL11010W**
Laser-printable label sheets, 110/6-110, yellow	**XPL11010Y**
Laser-printable label sheets, 110/6-110, blue	**XPL11010B**
Extra label holders (pack of 10)	**XPH11010**

Rack Mount Kits, 6-110 and 110

Optional rear cable organizer (HC36WF) clips to the rear of the panel.

Rolled edge construction provides superior strength during termination.

Increased Pair Isolation on 6-110 wiring and connecting blocks provides for superior NEXT performance.

Compatible with Hubbell Labeling Software and laser-printable 110 paper label sheets.

HUBBELL
Advantage
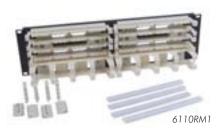
- Provides a cost effective, front terminated, high-density rack mount 110 solution.
- Cable access openings in wiring blocks allows cables to be routed through the block directly to the point of termination.
- Unique third hand locating pins hold panel in place on rack while installing screws.

Specifications

- ◆ 110 wiring bases and blocks are made of fire-retardant plastic rated UL 94V-0.
- ◆ Panel material: 14 ga. Steel.
- ◆ Finish: Durable black powder coat.
- ◆ Mounts directly to 19" EIA-310-D standard rack and cabinet.

Rack Mount Kits, 6-110, Category 6

6110RM1

Description	Rack Units	Catalog No.	
Rack mount kit with troughs, 6-110, 128-pair	3U	**6110RM1**	✓10G
Rack mount kit w/o troughs, 6-110, 128-pair	2U	**6110RM1NT**	✓10G

Rack Mount Kits, 110, with Cable Management, Category 5e

110RM24
110RM14

Description	Rack Units	Catalog No.
Rack mount kit, 100-pair with 4-pair connecting blocks	2U	**110RM14**
Rack mount kit, 100-pair with 5-pair connecting blocks	2U	**110RM15**
Rack mount kit, 200-pair with 4-pair connecting blocks	3U	**110RM24**
Rack mount kit, 200-pair with 5-pair connecting blocks	3U	**110RM25**

Rack Mount Kits, 110, without Cable Management, Category 5e

110RM24NT
110RM14NT

Description	Rack Units	Catalog No.
Rack mount kit, 100-pair with 4-pair connecting blocks	1U	**110RM14NT**
Rack mount kit, 100-pair with 5-pair connecting blocks	1U	**110RM15NT**
Rack mount kit, 200-pair with 4-pair connecting blocks	2U	**110RM24NT**
Rack mount kit, 200-pair with 5-pair connecting blocks	2U	**110RM25NT**

For wall mount applications, mount to Hubbell Wall Mount Hinged Brackets (see page G20). These brackets provide up to 8 inches of additional depth for added cable management.

Wall Mount Kits, 6-110 and 110

HUBBELL
Advantage

- Wall mount kits are supplied fully assembled with wiring blocks.
- Side access openings and cable tie-off points simplify cable management.
- Bottom cable trough (included) provides a large pathway at the base for routing cables horizontally.

Specifications

- ◆ Material: 110 wiring bases and blocks are made of fire-retardant plastic rated UL 94V-0.
- ◆ Tower material: Rugged 16 ga. Steel. Finish: Durable black powder coat.

Cable management troughs organize and protect the cables on the front of the frame.

Wiring blocks feature cable access openings allowing cables to be routed through the rear of the block directly to the point of termination.

Compatible with Hubbell Labeling Software and laser-printable label sheets.

Wall Mount Kits, 6-110/110

Delivery:	6-110	110	Description
	1	1	Wall mount tower frame
	1	1	Bottom cable trough
	3	-	6-110/64-pair wiring blocks without legs
	-	3	100-pair wiring blocks without legs
	48	-	6-110/4-pair connecting blocks
	-	60	110/4-pair connecting blocks
	-	12	110/5-pair connecting blocks
	3	3	Cable management troughs without legs
	6	6	Clear label holders
	6	6	White paper designation strips

Description	Catalog No.
Wall Mount Kit, Category 6, 6-110/192-pair	**6110WMK** ✓**10G**
Wall Mount Kit, Category 5e, 110/300-pair	**110WMK**

6110WMK

Cable Management Backboard

Delivery:	Qty.	Description
	1	Wall mount cable management tower
	1	Bottom cable trough
	3	Cable management rings

Description	Catalog No.
Cable management backboard	**188BB** ✓**10G**

Cable Management Troughs

Features/Benefits

- Provide horizontal patch cord management to complete a 110 or 6-110 cross connect solution.
- Install between wiring blocks to provide jumper and patch cord organization.

Specifications

- ◆ Material: Polycarbonate UL 94V-0.
- ◆ Prevents installed cables from exceeding the minimum bend radius requirements designated under TIA-568-A.

110TRA

110TRB

Description	Catalog No. With Legs	Catalog No. Without Legs
Cable management trough	**110TRA** ✓**10G**	**110TRB** ✓**10G**

Modular 66 Cross Connect Blocks

66M Block

HPW66M150C5

Features/Benefits
- Designed to fill the requirements for data distribution using familiar quick-clips for termination.
- Ability to transmit data rates up to 100 MHz.

Specifications
- With 4 slots on each row, there is flexibility for various configurations.

Description	Block Size	Capacity	Catalog No.
66M Block, Category 5 with cover	4 x 50	50-pair	**HPW66M150C5**
66M Block	4 x 25	25-pair	**HPW66M125**
66M Block	4 x 50	50-pair	**HPW66M150**
66M Cover	-	-	**HPW66MCVR**

66B Block

HPWB66B16

HPWB66B36

HPWB66B425

Features/Benefits
- Designed for fast and easy termination incoming telephone cables.
- The smaller connecting blocks satisfy the need for a block smaller than the 25-pair size.

Specifications
- Stackable for increased plant flexibility.

Description	Block Size	Capacity	Catalog No.
66B Block, Split (3x) (includes cover)	6 x 6	6-pair	**HPW66B36**
66B Block Cover for HPW66B 425 + 350	-	-	**HPW66BCVR**
66B Block	6 x 12	6-pair	**HPW66B16**
66B Block 25-pair, Split (4x)	6 x 50	25-pair	**HPW66B425**
66B Block 50-pair, Split (4x)	6 x 50	50-pair	**HPW66B350**

12- and 16-port Blocks

BR258066A

Features/Benefits
- Supports installations not large enough to warrant a patch panel.
- Designed with printed circuit boards for consistent electrical performance.

Specifications
- Category 3 (12-port) performance listed by UL (89D bracket included).

Description	Wiring	Jack Openings	Capacity	Catalog No.
Modular 66 Block	T568B	12-8 pos. jacks	50-pair	**BR258066A**
Modular 66 Block	USOC-RJ25	16-6 pos. jacks	50-pair	**BR256066A**

Modular 66 Cross Connect Block Accessories

HPW66SPLB

HPW66BB

HPW89D

HPW66BBRKT

HPW66BC100

Features/Benefits
- Cable routing spools provide control and dressing of distribution cables and jumper wires - available with or without screws.
- Mounting holes are provided for use in a variety of mounting options.

Specifications
- Material: mounting brackets molded of durable self-extinguishing thermoplastic.
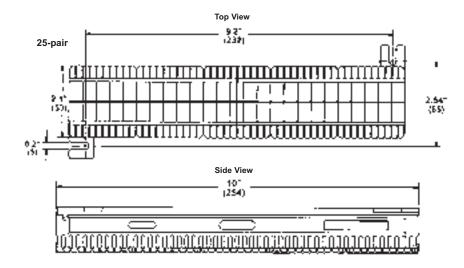
Description	Catalog No.
Cable routing spool without screw	**HPW66SPLA**
Cable routing spool with screw	**HPW66SPLB**
89B bracket (use to mount 66M series blocks)	**HPW89B**
89D bracket (use to mount 66M series blocks)	**HPW89D**
Backboard (blue - for 89D and 89B brackets) Includes 2-89B brackets as shown.	**HPW66BB**
66B Bracket (use to mount 66B series blocks)	**HPW66BBRKT**
Bridging Clip (0.5 x 0.25) (Pack of 100)	**HPW66BC100**

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Modular 66M Block

Top View

25-pair

Modular 66B Block

6-pair

25/50-pair

Side View

Top View

Side View
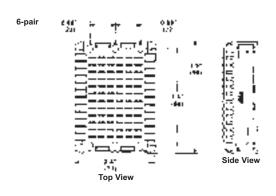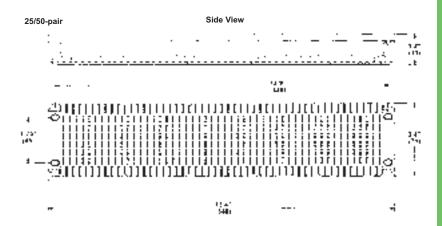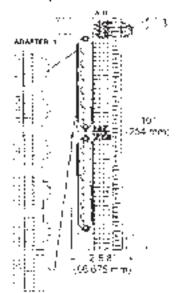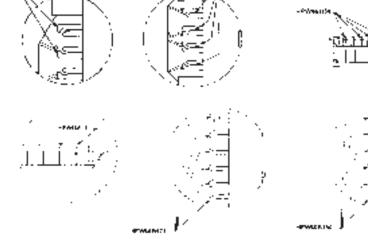
Modular 66 Adapters

ADAPTER 1

Modular 66 Contact Configurations

FIBER

Achieving a 10GbE cost-effective solution was a challenge for the fiber industry, because expensive lasers were required to get maximum bandwidth. The introduction of the 850nm VCSEL lasers, combined with laser-optimized 50μm multimode fiber provided the most economical solution.

2QUICKCON... ...NECTIONTRAYS•FSPADAPTERPANELS•TOOLPOUCHES•BLOWNFIBERPRO...
•HINGEDRA... ...OPTICHANNELADHESIVECONNECTORS•LC•TERMINATION•TESTTOOLS
HANNELADA... ...LMOUNTCABINETS•KEYSTONEADAPTERS•FIBERPATCHCORDS•CONNE...
C•LCDUPLEX... ...LISHINGPUCK•SPLICETRAYS•2QUICKCONNECTORS•FIBERINTERCONN...
RAYS•FSPAD... ...ES•BLOWNFIBERPRODUCTS•HINGEDRACKMOUNTPANELS•STSTYLE•O...
NELADHESIV... ...ATIO... ...HANNELADAPTERS•SPLICING•MTRJ•WALLM...
ABINETS•KEY... ...CHCORDS•CONNECTORS•SC•LCDUPLEX•BLOWNFIBERADAPTER•POLIS...

Fiber Contents

Plug-n-Play Cassettes and Cables

Optical cassettes are adapter panels installed with factory terminated MTP multifiber fanouts. The cassettes can be snapped into most Hubbell fiber patch panels, enclosures or cabinets that accept FSP series adapter panels**.

These cassettes provide significant installation labor savings because connector termination is not required in the field. The fanouts are housed in a durable metal cassette and are terminated at the rear to a 12-fiber MTP ribbon connector (two 12-fiber MTP connectors for the 24-fiber LC cassette). Factory assembled MTP to MTP ribbon cables are also available, with a pulling grip attached at one end, for easy pulls through conduit and innerduct.

*** Cassettes will not fit into the FTU2SP, FTU4SP or FCR350SP54R cabinets and enclosures.*

Features/Benefits

■ Factory-terminated multimode and singlemode 12-fiber fanouts.

■ SC, ST-style, LC and MT-RJ versions available.

■ 12-Fiber MTP building cables with pulling grip attached.

■ 100% optically tested for reliable performance.

■ Compact housings for space savings in patch panels.

Specifications

◆ Product meets the requirements of TIA/EIA-568-B.3.

◆ Dimensions: 5.1"H x 1.1"W x 2.75"D.

◆ Housing: epoxy powder paint 16 ga. CRS.

◆ MM insertion loss: < 1.5 dB*.

◆ SM insertion loss: < 1.1 dB*.

◆ SM return loss: < 50dB*.

◆ Operating/storage temp: 0°C to 60°C.

◆ Max. MTP cord pulling tension: 49.5 lbs.

Note losses include the combined losses of the MTP and adapter panel connectors.

MTP 12-Fiber Cassette

RoHS

OCSC50

OCST50

OCRJ50

OCLC62

Connector Type	Fiber Type	Catalog No.	
SC Duplex	50µm	**OCSC50**	
SC Duplex	50µm, 10GbE	**OCSC50G**	10G
SC Duplex	62.5µm	**OCSC62**	
SC Duplex	SM	**OCSCSM**	
ST-style	50µm	**OCST50**	
ST-style	62.5µm	**OCST62**	
ST-style	SM	**OCSTSM**	
LC Duplex	50µm	**OCLC50**	
LC Duplex	50µm, 10GbE	**OCLC50G**	10G
LC Duplex	62.5µm	**OCLC62**	
LC Duplex	SM	**OCLCSM**	
LC Quad 24F	50µm	**OCLCQ50***	
LC Quad 24F	50µm, 10GbE	**OCLCQ50G***	10G
LC Quad 24F	62.5µm	**OCLCQ62***	
LC Quad 24F	SM	**OCLCQSM***	
MT-RJ	50µm	**OCRJ50**	
MT-RJ	62.5µm	**OCRJ62**	

* 24 fibers, 2-12 fiber MTP connectors in rear.

MTP to MTP 12-Fiber Cords with Pulling Grip - OFNP-rated (Plenum)

RoHS

Fiber Type	Length	Catalog No.	
50µm	10m	**FPCMTP5010**	
50µm, 10GbE	10m	**FPCMTP50G10**	10G
62.5µm	10m	**FPCMTP6210**	
SM	10m	**FPCMTPS10**	
50µm	25m	**FPCMTP5025**	
50µm, 10GbE	25m	**FPCMTP50G25**	10G
62.5µm	25m	**FPCMTP6225**	
SM	25m	**FPCMTPS25**	
50µm	50m	**FPCMTP5050**	
50µm, 10GbE	50m	**FPCMTP50G50**	10G
62.5µm	50m	**FPCMTP6250**	
SM	50m	**FPCMTPS50**	
50µm	100m	**FPCMTP50100**	
50µm, 10GbE	100m	**FPCMTP50G100**	
62.5µm	100m	**FPCMTP62100**	
SM	100m	**FPCMTPS100**	

Custom lengths available. See page F16 for additional Multifiber MTP Cable Assemblies.

OptiChannel Rack Mount Enclosures

HUBBELL

HUBBELL Advantage

- ■ Patented "gasket-less" internal routing knock-outs.
- ■ Mounting stud accepts splice trays or FSP adapter brackets.*
- ■ Fits 19" or 23" racks - capable of flush or center mounting in a rack or cabinet.
- ■ Fiber's higher traffic carrying capacity per volume reduces cabling and improves airflow.

Features/Benefits

- ■ Quick release latches on front cover/tray.
- ■ Front pull-out shelf.
- ■ Removable top front cover.
- ■ Patch cord tie-down features.
- ■ Tinted, removable Plexiglas cover.

Specifications

- ◆ High quality, 16 ga. Cold Rolled Steel construction.
- ◆ Durable black powder coat finish.
- ◆ Approximate unloaded shipping weight: FCR350: 11 lbs., FCR525: 15 lbs., FCR700: 17 lbs.
- ◆ Dimensions: 17"W x 11"D.
- ◆ The FCR series enclosure accepts a maximum of two 10" splice trays - for additional splice capacity, use the FSS01 or FCR350SE.

* See page F7 for FSP adapter brackets and splice trays.

U.S. Patent #6498293.

FCR Rack Mount Enclosures

RoHS

FCR525SPR

The **OPTICHANNEL**™ FCR rack mount enclosures provide patching and fiber slack storage capability. FCR rack mount enclosures accept all FSP adapter panels (see page F10) and MTP cassettes. The "technician's side" has facilities for securing the cable, storing fiber slack and arranging and identifying the terminated fibers. The "user's side" has similar features for the management of fiber optic patch cords. A splice tray stud also accepts FSP adapter brackets (see page F7).

Delivery:	1 Cabinet	1 Top front cover
	1 Rear door	1 Front door (Plexiglas)
	2 Mounting brackets	1 Cable management tray
	6 Cable ties	4 Cable clips, adhesive
	5 Cable clips, snap in	2 VELCRO® cable ties
	4 #12-24 rack mount screws	3 Label holders
	1 Grid label, adhesive	Splice tray spacers
		2 Cable management spools

Accepts	Height	Rack Units	Catalog No.
6 FSP series adapter panels	3.50" (89)	2	**FCR350SP36R**
9 FSP series adapter panels	3.50" (89)	2	**FCR350SP54R***
12 FSP series adapter panels	5.25" (133)	3	**FCR525SPR**
15 FSP series adapter panels	7.00" (178)	4	**FCR700SP**

* Does not accept MTP cassettes.

VELCRO® is a trademark of Velcro Industries B.V.

Hinged Rack Mount Panels

FPR - Hinged Rack Mount Panels

FPR3SP loaded with FSPST6, FSPSCD3 and FSPSCD03 adapter panels.

Features/Benefits

- Pre-punched or FSP Adapter Panel versions available.
- Hinged swing-out fiber drawer for easy access to cables and connectors.
- Occupies 1 rack unit.
- Adjustable rack mount brackets for 19" or 23" racks.
- Splice tray mounting stud accepts 2 fiber splice trays (7" or 10").

Specifications

- High quality, 16 ga. Cold Rolled Steel construction.
- Durable black powder coat finish.
- Shipping weight: 10 lbs. unloaded.
- Dimensions: 17"W x 11"D x 1.75"H.

FPR012STM

FPR024SCM

FPRBRKT1

FPR - Pre-punched Version

# Fibers	# Adapters	Format	Catalog No.
12	12	ST-style adapters, Phosphor Bronze, loaded	**FPR012STM**
24	24	ST-style adapters, Phosphor Bronze, loaded	**FPR024STM**
12	12	ST-style adapters (not included)	**FPR012STX**
24	24	ST-style adapters (not included)	**FPR024STX**
12	6	SC Duplex adapters, Phosphor Bronze, loaded	**FPR012SCM**
24	12	SC Duplex adapters, Phosphor Bronze, loaded	**FPR024SCM**
12	6	SC Duplex adapters (not included)	**FPR012SCX**
24	12	SC Duplex adapters (not included)	**FPR024SCX**

FPR - FSP Adapter Panel Version

Capacity	Format	Catalog No.
3	FSP series adapter panels* (not included)	**FPR3SP**

* For FSP adapter panels, see page F10.

Cable Management Bracket (Fits all FPR series panels)

Description	Catalog No.
Protective bracket/cable management bar	**FPRBRKT1**

FEUR Fiber Interconnection Shelf

FEUR12SCM
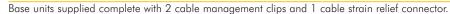
Features/Benefits
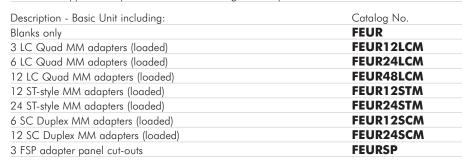
- Cable management components included.
- Slide-out tray.
- Occupies 1 rack unit.
- Flush or extended 19" or 23" rack mounting.

Specifications

- 12- or 24-port standard multimode interconnection capacity.
- Material: High quality 1.2mm Cold Rolled Steel.
- Durable, black electrostatically applied powder coat finish.
- Weight: 2.75 kg. fully loaded.
- Dimensions: 1.75"H x 17"W x 8.6"D (4.5 x 43 x 22cm).

FEUR24STM

FEUR Fiber Interconnection Shelf

Base units supplied complete with 2 cable management clips and 1 cable strain relief connector.

Description - Basic Unit including:	Catalog No.
Blanks only	**FEUR**
3 LC Quad MM adapters (loaded)	**FEUR12LCM**
6 LC Quad MM adapters (loaded)	**FEUR24LCM**
12 LC Quad MM adapters (loaded)	**FEUR48LCM**
12 ST-style MM adapters (loaded)	**FEUR12STM**
24 ST-style MM adapters (loaded)	**FEUR24STM**
6 SC Duplex MM adapters (loaded)	**FEUR12SCM**
12 SC Duplex MM adapters (loaded)	**FEUR24SCM**
3 FSP adapter panel cut-outs	**FEURSP**

HUBBELL OptiChannel **Fiber Interconnection Trays**

An economical alternative for managing fiber terminations and splice trays in protected areas. Fiber Interconnection Trays provide vertical cable feed-throughs allowing the stacking of multiple panels (available unloaded only). The open tray design reduces cost and facilitates maintenance.

Features/Benefits

■ Available 1, 2, 3, or 4 rack units.

■ Accepts all Hubbell splice trays.

■ Optional front and rear "smoked" Plexiglas covers available.

■ Accepts Plug & Play cassettes.

Specifications

◆ 16 ga. Cold Rolled Steel construction.

◆ Durable black powder coat finish.

◆ Shipping weight: 10 lbs. unloaded.

◆ Center mounting only in 19" rack or cabinet.

FTR525SP shown loaded with FSP series adapter panels and splice trays.

FTR - Interconnection Tray

FTR Tray - FSP Adapter Panel Version

Front and rear covers not included.

Capacity	Rack Units	Catalog No.
3 FSP adapter panels	1	**FTR175SP**
6 FSP adapter panels	2	**FTR350SP36**
12 FSP adapter panels	3	**FTR525SP**
15 FSP adapter panels	4	**FTR700SP**

Front Covers for FTR Trays

Description	Rack Units	Catalog No.
FTR Front Cover	1	**FTR175FCVR**
FTR Front Cover	2	**FTR350FCVR**
FTR Front Cover	3	**FTR525FCVR**
FTR Front Cover	4	**FTR700FCVR**

Rear Covers for FTR Trays

Description	Rack Units	Catalog No.
FTR Rear Cover	1	**FTR175RCVR**
FTR Rear Cover	2	**FTR350RCVR**
FTR Rear Cover	3	**FTR525RCVR**
FTR Rear Cover	4	**FTR700RCVR**

FTR350SP36 (shown with front and rear cover)

FTR350FCVR

FTR525RCVR

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OptiChannel
Splicing Products

HUBBELL
Advantage

- Patented "gasket-less" internal routing knock-outs.
- Slide-out fiber drawer for easy access to cables/connectors.
- Capable of flush or center mounting in a rack or cabinet.
- Fiber's higher traffic carrying capacity per volume reduces cabling and improves airflow.

Features/Benefits

- Adjustable rack mount brackets for 19" or 23" racks.
- Cable management hardware included.
- FCR350SE accepts up to 6 splice trays.
- FSS01 splice tray mounting stud accepts up to 2 fiber splice trays.
- FSS01 occupies 1 rack unit.

Specifications

- ◆ 16 ga. Cold Rolled Steel construction.
- ◆ Durable black powder coat finish.
- ◆ Splice trays are anodized aluminum per MIL Spec. A-8625-C.
- ◆ U.S. Patent #6498293.

FCR350SE splice enclosure shown with splice trays installed on the building cable (front cover removed and tray extended). Splice trays sold separately.

Splicing Products

RoHS

FCR350SE

FCR Fiber Splice Enclosure - For splice trays and cable storage only.

Dimensions: 17"W x 11"D x 3.5"H.

Accepts	Height	Rack units	Catalog No.
Up to 6 splice trays	3.50" (89)	2	**FCR350SE**

NOTE: Splice trays not included.

FSS01

Optical Fiber Hinged Rack Mount Splice Shelf

Dimensions: 17"W x 11"D x 1.75"H.

Accepts	Height	Rack Units	Catalog No.
Up to 2 splice trays	1.75" (45)	1	**FSS01**

NOTE: Splice trays not included.

STRAY24F

STRAY12F

Splice Trays - 0.4"H x 5"W. Includes cable ties and built-in splice cradle.

Accepts	Length	Catalog No.
24 Fiber, Fusion	10" (254)	**STRAY24F**
24 Fiber, Mechanical	10" (254)	**STRAY24M**
12 Fiber, Fusion	7" (178)	**STRAY12F**
12 Fiber, Mechanical	7" (178)	**STRAY12M**

FSP Adapter Bracket - Fits in place of the splice trays.

Description	Catalog No.
1U Bracket - holds 2 FSP adapter panels	**FBL1**
2U Bracket - holds 4 FSP adapter panels	**FBL2**

FBL1 *FBL2*

Splicing Products

F8 HUBBELL Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

OptiChannel — HUBBELL

Wall Mount Cabinets

HUBBELL Advantage

- Cable entry ports designed for stackable mounting.
- Fiber's higher traffic carrying capacity per volume reduces cabling and improves airflow.

Features/Benefits

- FCW capacity: 4 or 12 FSP adapter panels.
- FTU capacity: 2 or 4 FSP adapter panels.

Specifications

- 16 ga. Cold Rolled Steel construction.
- Durable black powder coat finish.
- FCW4SP accepts:
  - Two 7" splice trays if using standard adapter panels.
  - One 7" splice tray if using high-density adapter panels.
- FCW12SP accepts a maximum of four 10" splice trays.
- FTU4SP accepts a maximum of two 7" splice trays.
- The FTU2SP does not accept splice trays.

FCW Wall Mount Cabinets, Double-Door

FCW cabinets accept our FSP series adapter panels. They will also accept splice trays. This style of cabinet has a separate lockable "technician side" for terminating the building cable. The "user side" of the FCW encloses and protects the patch cord connections and can be secured with an optional lock set.

Accepts	Height	Width	Depth	Catalog No.
4 FSP series adapter panels	12" (305)	14" (356)	3.25" (83)	**FCW4SP**
12 FSP series adapter panels	16" (406)	14" (356)	6.50" (165)	**FCW12SP**

Supplied with lock (FLOCK1) only on technician's side.
For user's side, order separately either lock kit catalog numbers FLOCK1 or FLOCK2.

FCW12SP

FTU Wall Mount Cabinets, Single-Door

Single door FTU wall mount cabinets (FTU2SP and FTU4SP) utilize our FSP adapter panels. Extended front covers provide patch cord protection. Security can be added with optional key lock kits.

Accepts	Height	Width	Depth	Catalog No.
2 FSP series adapter panels	8.5" (216)	10.6" (269)	2.5" (64)	**FTU2SP**
4 FSP series adapter panels	11" (279)	13.6" (345)	2.5" (64)	**FTU4SP**

NOTE: Can use either Lock Kit Catalog No. FLOCK1 or FLOCK2 - order separately.

FTU4SP

Accessories - Optional Lock Kit

Fits FCW, FTU and FCR cabinets.

Description	Catalog No.
Lock kit for cabinets keyed the same as the FCW technician side	**FLOCK1**
Lock kit for cabinets keyed differently than the FCW technician side	**FLOCK2**

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OptiChannel

FSP Adapter Panels

For use with FCR, FTR, FCW and FTU enclosures and trays and the FPR3SP panel.

Adapter panels are available as blank plates or with ST-style, SC Duplex and Simplex, FC, MT-RJ, LC and SC to ST-style adapters.

Adapter panels are available in high-density versions.

Zirconia (Ceramic) adapters recommended for singlemode applications.

Features/Benefits

- For multimode and singlemode applications.
- Adapters secured with screws.
- Various colors available to differentiate networks and applications.
- Available loaded, unloaded or as blanks.
- Quick snap in installation.
- SC/APC adapter panels available.

Specifications

- Cold Rolled Steel panel with a durable black powder coat finish.
- Dimensions: 1.1"W x 5.1"H.
- Weight (loaded) - 0.1 lbs.
- FC/PC adapter housings are Nickel-plated machined brass.
- ST-style simplex adapters have black oxide Nickel-plated Zinc die-cast housings.
- Available with Phosphor Bronze or Zirconia Ceramic alignment sleeves in SC, ST-style and LC adapters.
- SC/APC and FC adapters have Zirconia Ceramic sleeves.

FSP Adapter Panels, SC Duplex

SC Duplex, Standard Version

Pre-loaded. Capacity: 6. Type: 3, SC Duplex

Sleeves	Blue	Additional Colors See Chart Below
Phosphor Bronze	**FSPSCD3**	**FSPSCDM3XX**
Zirconia Ceramic	**FSPSCDS3**	**FSPSCDS3XX**

SC Duplex, High-Density Version

Pre-loaded. Capacity: 6. Type: 3, SC Duplex

Sleeves	Blue	Additional Colors See Chart Below
Phosphor Bronze	**FSPSCD6**	**FSPSCDM6XX**
Zirconia Ceramic	**FSPSCDS6**	**FSPSCDS6XX**

XX = color: "**AQ**"=Aqua; "**BK**"=Black.

XX = color: "**OR**"=Orange; "**R**"=Red; "**Y**"=Yellow.

Other colors for Phosphor Bronze Sleeve arrangements:

Beige = **FSPSCDBE3** and **FSPSCDBE6**;
Green = **FSPSCDG3** and **FSPSCDG6**;
Orange = **FSPSCDO3** and **FSPSCDO6**;
Red = **FSPSCDR3** and **FSPSCR6**;
Yellow = **FSPSCDY3** and **FSPSCDY6**.

FSPSCD3

FSPSCDY6

FSP Adapter Panels, SC Simplex
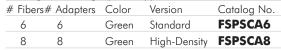
Phosphor Bronze Sleeves - Pre-Loaded

Capacity	Type	Version	Catalog No.
6	6, SC Simplex, blue	Standard	**FSPSC6**
8	8, SC Simplex, blue	High-Density	**FSPSC8**

Zirconia Ceramic Sleeves - Pre-Loaded

Capacity	Type	Version	Catalog No.
6	6, SC Simplex, blue	Standard	**FSPSCSS6**

SC Simplex, APC, Zirconia Ceramic Sleeves, Pre-Loaded

For singlemode angle polish applications.

# Fibers	# Adapters	Color	Version	Catalog No.
6	6	Green	Standard	**FSPSCA6**
8	8	Green	High-Density	**FSPSCA8**

FSPSC6

FSPSCA6

FSP Adapter Panels, SC to ST-Style

Phosphor Bronze Sleeves - Pre-Loaded

Field installable snap in adapters can be inserted in either direction.

#Fibers	#Adapters	Version	Catalog No.
6	3	Standard	**FSPSCST3**
12	6	High-Density	**FSPSCST6**

Zirconia Ceramic Sleeves - Pre-Loaded

#Fibers	#Adapters	Version	Catalog No.
6	3	Standard	**FSPSCSTDS3**
12	6	High-Density	**FSPSCSTDS6**

FSPSCST3 *FSPSCST6*

FSP Adapter Panels, FC Simplex

FC Simplex, Zirconia Ceramic Sleeves, Pre-Loaded

# Fibers	# Adapters	Color	Version	Catalog No.
6	6	-	Standard	**FSPFC6**
8	8	-	High-Density	**FSPFCSS8**

FSPFC6

FSP Adapter Panels, ST-Style Simplex

Phosphor Bronze Sleeves - Pre-Loaded

Capacity	Type	Version	Catalog No.
6	6 ST-style	Standard	**FSPST6**
8	8 ST-style	High-Density	**FSPST8**

Zirconia Ceramic Sleeves - Pre-Loaded

Capacity	Type	Version	Catalog No.
6	6 ST-style	Standard	**FSPSTSS6**

FSPST6 *FSPST8*

FSP Adapter Panels, ST-Style Duplex

Phosphor Bronze Sleeves - Pre-Loaded

Capacity	Type	Version	Catalog No.
6	3 ST-style Duplex, Blue	Standard	**FSPSTD3**
12	6 ST-style Duplex, Blue	High-Density	**FSPSTD6**

Zirconia Ceramic Sleeves - Pre-Loaded

Capacity	Type	Version	Catalog No.
6	3 ST-style Duplex, Blue	Standard	**FSPSTDS3**
12	6 ST-style Duplex, Blue	High-Density	**FSPSTDS6**

FSPSTD3

FSP Adapter Panels, LC Duplex

LC Duplex, Standard Version

Pre-loaded. Capacity: 12. Type: 6, LC Duplex

Sleeves	Blue	Additional Colors
Phosphor Bronze	**FSPLC6**	**
Zirconia Ceramic	**FSPLCDS6**	**FSPLCDS6XX**

** Additional colors for Phosphor Bronze arrangements:

Aqua =	**FSPLCDM6AQ**
Beige =	**FSPLCM6**
Black =	**FSPLCDM6BK**
Orange =	**FSPLCO6**
Red =	**FSPLCDM6R**
Yellow =	**FSPLCY6**

XX = color: "**AQ**"=Aqua; "**BE**"=Beige; "**BK**"=Black;
"**OR**"=Orange; "**R**"=Red; "**Y**"=Yellow.

FSPLCO6

FSP Adapter Panels, MT-RJ

Pre-Loaded

# Fibers	# Adapters	Version	Catalog No.
12	6	Standard	**FSPMTRJ6**
16	8	High-Density	**FSPMTRJ8**

FSPMTRJ8

FSP Adapter Panels, JACK-PACK®

(U.S. Patent No. 6273752). Accepts multimedia connections including Hubbell **XCELERATOR**™ jacks and **OPTICHANNEL**™ keystone adapters.

Capacity	Version	Catalog No.
4	Standard	**FSPHD4X**
6	High-Density	**FSPHD6X***

* Will not fit into FTU2SP, FTU4SP or FCR350SP54R cabinets or enclosures.

FSPHD4X

FSP Adapter Panels, Blank

# Adapters	Type	Version	Catalog No.
-	Blank	-	**FSPB**

FSPB

FSP Adapter Panels, LC Quad

LC Quad, Standard Version

Pre-loaded. Capacity: 12. Type: 3, LC Quad.

Sleeves	Blue	Additional Colors See Chart Below
Phosphor Bronze	**FSPLCQ3**	***
Zirconia Ceramic	**FSPLCQS3**	**FSPLCQS3XX**

LC Quad, High-Density Version

Pre-loaded. Capacity: 24. Type: 6, LC Quad.

Sleeves	Blue	Additional Colors See Chart Below
Phosphor Bronze	**FSPLCQ6**	***
Zirconia Ceramic	**FSPLCQS6**	**FSPLCQS6XX**

XX = color: "**AQ**"=Aqua; "**BE**"=Beige; "**BK**"=Black;
"**GN**"=Green; "**O**"=Orange; "**R**"=Red; "**Y**"=Yellow.*

** Other colors for Phosphor Bronze Sleeve arrangements:

Aqua =	**FSPLCQM3AQ** and	**FSPLCQM6AQ**;
Beige =	**FSPLCQM3BE** and	**FSPLCQM6BE**;
Black =	**FSPLCQM3BK** and	**FSPLCQM6BK**;
Green =	**FSPLCQM3GN** and	**FSPLCQM6GN**;
Orange =	**FSPLCQO3** and	**FSPLCQO6**;
Red =	**FSPLCQM3R** and	**FSPLCQM6R**;
Yellow =	**FSPLCQY3** and	**FSPLCQY6**.

FSPLCQY6

FSP Adapter Panels, MTP

Pre-Loaded

# Fibers	# Adapters	Color	Catalog No.
72	6	Aqua	**FSPMTPAQ6**
72	6	Beige	**FSPMTPBE6**
72	6	Black	**FSPMTP6**

FSPMTPAQ6

FSP Adapter Panels, Unloaded

Capacity	Type	Version	Catalog No.
6	SC Simplex, LC Duplex or MT-RJ	Standard	**FSPSC6X***
8	SC Simplex, LC Duplex or MT-RJ	High-Density	**FSPSC8X***
3	SC Duplex or LC Quad	Standard	**FSPSCD3X**
6	SC Duplex or LC Quad	High-Density	**FSPSCD6X***
6	ST-style	Standard	**FSPST6X**
8	SC Duplex or LC Quad	High-Density	**FSPST8X**

* Accepts SC Duplex, SC to ST-style, or LC Quad adapters.
** Accepts SC Simplex, LC Duplex, or MT-RJ adapters.

*FSPSC6X***   *FSPSC8X***   *FSPSCD3X*   *FSPSCD6X*   *FSPLC6X*

FSP Adapter Panels

HUBBELL
OptiChannel Adapters

OPTICHANNEL™ fiber optic adapters are an integral part of the cabling infrastructure. Adapters are the interface to the fiber link and are utilized in work station outlets and optical patch panels.

Specifications

◆ MM/SM Mated Pair Insertion Loss: <0.50 dB (0.25 dB typical).

◆ Operating/Storage Temperature: -40°C to +75°C.

◆ Mating Durability: 500 matings per FOTP-21.

◆ Compliant with TIA/EIA-568-C.3 specification.

◆ Available with Phosphor Bronze or Zirconia Ceramic alignment sleeves in SC, ST-style and LC adapters.

SC Duplex Adapter

RoHS

Recommended cut-out: 1.024" x 0.375".
Delivery: Package of 6 SC duplex adapters, and mounting screws (no screws for snap mount version).

FASCMPB6   FASCEMPB6   FASCDSC6OR   FASCDSC6Y

Phosphor Bronze Sleeves

Screw Mount	Blue	Green	Orange	Red	Yellow		
Catalog No.	**FASCMPB6**	**FASCDMS6GN**	**FASCMPBO6**	**FASCDMS6R**	**FASCMPBY6**		

Snap mount	Aqua	Beige	Black	Blue	Orange	Red	Yellow
Catalog No.	**FASCDMC6AQ**	**FASCDMC6**	**FASCDMC6BK**	**FASCEMPB6**	**FASCDMC6OR**	**FASCDMC6R**	**FASCDMC6Y**

Zirconia Ceramic Sleeves

Snap mount	Blue	Orange	Red	Yellow
Catalog No.	**FASCDSC6**	**FASCDSC6OR**	**FASCDSC6R**	**FASCDSC6Y**

SC Simplex Adapter

RoHS

Recommended cut-out: 0.525" x 0.390".
Delivery: Package of 12 adapters.

FASCSMPB12

Phosphor Bronze Sleeves

Snap mount	Aqua	Beige	Black	Blue	Orange	Red	Yellow
Catalog No.	**FASCSMC12AQ**	**FASCSMC12**	**FASCSMC12BK**	**FASCSMPB12**	**FASCSMC12OR**	**FASCSMC12R**	**FASCSMC12Y**

Zirconia Ceramic Sleeves

Snap mount	Blue	Orange	Red	Yellow
Catalog No.	**FASCSSC12**	**FASCSSC12OR**	**FASCSSC12R**	**FASCSSC12Y**

SC Simplex APC Adapter

Zirconia Ceramic sleeves.
Recommended cut-out: 0.525" x 0.390"
Delivery: Package of 6.

Singlemode

Snap mount	Green
Catalog No.	**FASCSAC6**

FC Adapter

RoHS

Recommended cut-out: Double D cut-out: diameter = 0.38", flat = 0.31".
Delivery: Package of 6

Singlemode

Snap mount	
Catalog No.	**FAFCSSS6**

ST-style Adapter

RoHS

Recommended Double D cut-out: diameter = 0.38", flat = 0.31"
Delivery: Package of 12 adapters, nuts and washers.

FASTMPB12

Zirconia Ceramic Sleeves		Phosphor Bronze Sleeves		Phosphor Bronze Sleeves			
Screw mount	Black Oxide	Snap mount	Black Oxide	Snap mount	Beige	Black	Blue
Catalog No.	**FASTSS12**	Catalog No.	**FASTMPB12**	Catalog No.	**FASTDMS6***	**FASTDMS6BK***	**FASTDMPB6***

Delivery: Package of 6 Phosphor Bronze Sleeves.
*These adapters can mount into unloaded FSP adapter panels (see page F10).

SC to ST-style Duplex Adapter

Recommended SC Duplex cut-out: 1.024" x 0.375".
Delivery: Package of 6 adapters.

FASTSCMPB6 *FASTSCEMPB6*

Phosphor Bronze Sleeves

Screw Mount	Blue						
Catalog No.	**FASTSCMPB6**						

Snap mount	Aqua	Beige	Black	Blue	Orange	Red	Yellow
Catalog No.	**FASTSCDMC6AQ**	**FASTSCDMC6**	**FASTSCDMC6BK**	**FASTSCEMPB6**	**FASTSCDMC6OR**	**FASTSCDMC6R**	**FASTSCDMC6Y**

Zirconia Ceramic Sleeves

Snap mount	Blue	Orange	Red	Yellow
Catalog No.	**FASTSCDSC6**	**FASTSCDSC6OR**	**FASTSCDSC6R**	**FASTSCDSC6Y**

SC to ST-style Simplex Adapter

Recommended SC Simplex cut-out: 0.525" x 0.390", or Double D cut-out: diameter = 0.39", flat = 0.31".
Delivery: Package of 12 adapters and nuts.

FASCSTSEMPB12

Phosphor Bronze Sleeves

Snap mount	Beige	Blue
Catalog No.	**FASCSTSMC12**	**FASCSTSEMPB12**

Zirconia Ceramic Sleeves

Snap mount	Blue	Orange	Red	Yellow
Catalog No.	**FASTSCSSC12**	**FASTSCSSC12OR**	**FASTSCSSC12R**	**FASTSCSSC12Y**

LC Duplex Adapter

SC Simplex style outer housing. Snap mount.
Recommended cut-out: 0.525" x 0.390".
Delivery: Package of 6.

FALCMPB6

Phosphor Bronze Sleeves

Snap mount	Aqua	Beige	Black	Blue	Orange	Red	Yellow
Catalog No.	**FALCDMC6AQ**	**FALCDMC6**	**FALCDMC6BK**	**FALCMPB6**	**FALCMPBO6**	**FALCDMC6R**	**FALCMPBY6**

Zirconia Ceramic Sleeves

Snap mount	Blue	Orange	Red	Yellow
Catalog No.	**FALCDSC6**	**FALCDSC6OR**	**FALCDSC6R**	**FALCDSC6Y**

LC Quad Adapter

SC Duplex style outer housing.
Recommended cut-out: 1.024" x 0.375".
Delivery: Package of 6.

FAQLCMPB6

Phosphor Bronze Sleeves, Snap Mount

	Aqua	Beige	Black	Blue	Orange	Red	Yellow
Catalog No.	**FALCQMC6AQ**	**FALCQMC6**	**FALCQMC6BK**	**FALCQMC6BL**	**FALCQMC6OR**	**FALCQMC6R**	**FALCQMC6Y**

Phosphor Bronze Sleeves, Screw Mount

	Blue	Orange	Yellow
Catalog No.	**FAQLCMPB6**	**FAQLCMPBO6**	**FAQLCMPBY6**

Zirconia Ceramic Sleeves, Snap Mount

	Blue	Orange	Red	Yellow
Catalog No.	**FALCQSC6**	**FALCQSC6OR**	**FALCQSC6R**	**FALCQSC6Y**

MT-RJ Adapter

SC Simplex style outer housing.
Recommended cut-out: 0.525" x 0.390".
Delivery: Package of 6.

FAMTRJMPB6

Snap mount	Aqua	Beige	Black
Catalog No.	**FAMTRJC6AQ**	**FAMTRJMPB6**	**FAMTRJC6BK**

HUBBELL
OptiChannel Keystone Adapters

Keystone adapters are factory-loaded with either ST-style, SC simplex, MT-RJ or LC adapters. Keystone adapters are used when fiber connections are needed at the work area.

The MT-RJ and LC and SC keystone adapters are offered in a flush and non-flush mount version.

Specifications

◆ Materials:
- Housings: flame-retardant polymer.
- Stainless Steel mounting clips.
◆ Meets the requirements of TIA/EIA-568-C.3.
◆ MM/SM mated pair insertion loss: < 0.50dB (0.25dB typical).
◆ Operating/Storage temp: 0°C to 60°C.
◆ Adapter snap-in force : 15 ± 5 lb.

◆ Mating durability: 500 matings per FOTP-21.
◆ Available with Phosphor Bronze or Zirconia Ceramic sleeves in SC, ST-style and LC adapters.

SC Simplex Keystone Adapter RoHS

Delivery: 25-carton.

Color	Phosphor Bronze Catalog No.	Zirconia Ceramic Catalog No.
Office White	**SFSC**	**SFSCS**
See Color Code	**SFSCX**	**SFSCSX**

MT-RJ Keystone Adapter RoHS

Delivery: 25-carton.
Colored keystone adapter with beige MT-RJ fiber adapter.

Color	Catalog No.
Office White	**SFMTRJ**
See Color Code	**SFMTRJX**

ST-style to SC Simplex Keystone Adapter RoHS

Delivery: 25-carton.

Color	Phosphor Bronze Catalog No.	Zirconia Ceramic Catalog No.
Office White	**SFSCST**	**SFSCSTS**
See Color Code	**SFSCSTX**	**SFSCSTSX**

MT-RJ Keystone Flush Mount Adapter RoHS

Delivery: 25-carton.
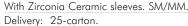
Color	Catalog No.
Office White	**FAMTRJK**
See Color Code	**FAMTRJKX**

SC/APC Simplex Keystone Adapter RoHS

With Zirconia Ceramic sleeves. SM/MM.
Delivery: 25-carton.

Color	Catalog No.
Office White	**SFSCAOW**
See Color Code	**SFSCAX**

LC Duplex Keystone Adapter RoHS

Delivery: 25-carton.

Color	Phosphor Bronze Catalog No.	Zirconia Ceramic Catalog No.
Office White	**SFLC**	**SFLCS**
See Color Code	**SFLCX**	**SFLCSX**

SC Simplex Flush Mount Keystone Adapter RoHS

Delivery: 25-carton.

Color	Phosphor Bronze Catalog No.	Zirconia Ceramic Catalog No.
Office White	**SFFSC**	**SFFSCS**
See Color Code	**SFFSCX**	**SFFSCSX**

LC Duplex Flush Mount Keystone Adapter RoHS

Delivery: 25-carton.

Color	Phosphor Bronze Catalog No.	Zirconia Ceramic Catalog No.
Office White	**SFFLC**	**SFFLCS**
See Color Code	**SFFLCX**	**SFFLCSX**

ST-style Keystone Adapter RoHS

Delivery: 25-carton.

Color	Phosphor Bronze Catalog No.	Zirconia Ceramic Catalog No.
Office White	**SFST**	**SFSTS**
See Color Code	**SFSTX**	**SFSTSX**

*Replace "**X**" with the following Color Code:*
X = "**AL**"=Almond; "**BK**"=Black; "**G**"=Gray*; "**EI**"=Electric Ivory; "**LA**"=Light Almond; "**W**"=White.

* For gray keystone adapter with SC/APC Simplex adapter, order Catalog No. **SFSCAGY**.

HUBBELL
Hlabel Compatible with **Hubbell Labeling System** - see page M8.

OptiChannel Patch Cords and Pigtails

Fiber patch cords provide connections from the work area to the wall outlet, or from active equipment to the patch panel.

Cords are available as duplex or simplex 62.5/125, 50/125 MM or SM fibers. We offer ST-style, SC, MT-RJ or LC connectors. 1.8mm/2.0mm jacket diameter takes up less space for greater patch cord density. 1.8mm/2.0mm jacket diameter takes up less space for greater patch cord density. All patch cords are factory polished and 100% optically tested for superior performance.

Specifications

- Mated pair insertion loss:
  MM: <0.50 dB (0.35dB typical).
  SM: <0.35 dB (0.15dB typical).
- Typical SM mated pair return loss: >-55 dB.
- Operating/Storage Temperature: 0°C to +75°C.
- Mating Durability: 500 matings per FOTP-21.
- Cable Retention: >10 lbs. per FOTP-6.
- Optical, mechanical and environmental performance: Meets TIA/EIA-568-B.3 specs.
- 10GbE patch cords are OFNP rated for use in plenum spaces.

50/125mm laser optimized fiber cords now available for 10GbE applications.

SC to SC Patch Cords

SC Duplex to SC Duplex MM

Replace 'X' with standard lengths of 1, 2, 3, 5 or 10 meters

Duplex/Multimode	Catalog No.
SC to SC, 62.5/125	**DFPCSCSCCXMM**
SC to SC, 50/125	**DFPCSCSCDXMM**
SC to SC, 50/125, 10GbE	**DFPCSCSCEXMM** 10G
Duplex/Singlemode	Catalog No.
SC to SC Singlemode	**DFPCSCSCSXSM**

ST-style to ST-style Patch Cords

ST-style to ST-style Duplex MM

Replace 'X' with standard lengths of 1, 2, 3, 5 or 10 meters.

Duplex/Multimode	Catalog No.
ST to ST-style, 62.5/125	**DFPCSTSTCXMM**
ST to ST-style, 50/125	**DFPCSTSTDXMM**
Duplex/Singlemode	Catalog No.
ST to ST-style Singlemode	**DFPCSTSTSXSM**

ST-style to SC Patch Cords

SC Duplex to ST-style Duplex MM

Replace 'X' with standard lengths of 1, 2, 3, 5 or 10 meters.

Duplex/Multimode	Catalog No.
ST-style to SC, 62.5/125	**DFPCSTSCCXMM**
ST-style to SC, 50/125	**DFPCSTSCDXMM**
Duplex/Singlemode	Catalog No.
ST-style to SC, Singlemode	**DFPCSTSCSXSM**

MT-RJ Patch Cords

MT-RJ to MT-RJ Duplex MM

MT-RJ Duplex to ST-style Duplex MM

Replace 'X' with standard lengths of 1, 2, 3 or 5 meters.

Duplex/Multimode	Catalog No.
MT-RJ to MT-RJ, 62.5/125	**DFPCRJRJCXMM**
MT-RJ to ST-style, 62.5/125	**DFPCRJSTCXMM**
MT-RJ to SC 62.5/125	**DFPCRJSCCXMM**

LC Patch Cords

LC Duplex to LC Duplex MM
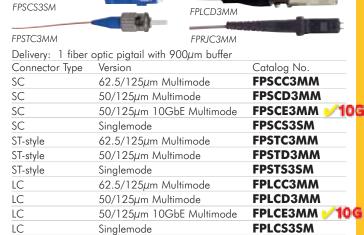
LC Duplex to SC Duplex MM

Replace 'X' with standard lengths of 1, 2, 3 or 5 meters.

Duplex/Multimode	Catalog No.
LC to LC, 62.5/125	**DFPCLCLCCXMM**
LC to ST-style, 62.5/125	**DFPCLCSTCXMM**
LC to SC, 62.5/125	**DFPCLCSCCXMM**
LC to LC, 50/125, 10GbE	**DFPCLCLCEXMM** 10G
LC to SC, 50/125, 10GbE	**DFPCLCSCEXMM** 10G
Duplex/Singlemode	Catalog No.
LC to LC, Singlemode	**DFPCLCLCCXSM**
LC to ST-style, Singlemode	**DFPCLCSTCXSM**
LC to SC, Singlemode	**DFPCLCSCCXSM**

Fiber Pigtails (3 meters long)

Hubbell's fiber optic pigtails are manufactured with superior quality connectors, factory polished to provide low insertion loss and low back reflection. Pigtails are available in LC, MT-RJ, SC and ST-style versions with both singlemode and multimode 900µm buffered fiber types. All pigtails are 100% factory tested for insertion loss after polishing. For special requirements such as custom lengths and buffer colors, contact your Hubbell representative.

FPSCS3SM

FPLCD3MM

FPSTC3MM

FPRJC3MM

Delivery: 1 fiber optic pigtail with 900µm buffer

Connector Type	Version	Catalog No.
SC	62.5/125µm Multimode	**FPSCC3MM**
SC	50/125µm Multimode	**FPSCD3MM**
SC	50/125µm 10GbE Multimode	**FPSCE3MM** 10G
SC	Singlemode	**FPSCS3SM**
ST-style	62.5/125µm Multimode	**FPSTC3MM**
ST-style	50/125µm Multimode	**FPSTD3MM**
ST-style	Singlemode	**FPSTS3SM**
LC	62.5/125µm Multimode	**FPLCC3MM**
LC	50/125µm Multimode	**FPLCD3MM**
LC	50/125µm 10GbE Multimode	**FPLCE3MM** 10G
LC	Singlemode	**FPLCS3SM**
MT-RJ	62.5/125µm Multimode	**FPRJC3MM**
MT-RJ	50/125µm Multimode	**FPRJD3MM**

Custom pigtails, assemblies and cords available upon request - see page F16.

Compatible with **Hubbell Labeling System** - see page M8.

HUBBELL
OptiChannel

Patch Cord and Fiber Trunk Cable Assemble to Order Program

HUBBELL
Advantage

- High performance, fast lead time.
- Custom-configured assemblies specific to the job.
- 100% factory tested, factory assembled.
- Fiber's higher traffic carrying capacity per volume reduces cabling and improves airflow.

Hubbell's OPTICHANNEL™ Assemble-to-Order cable assembly program can deliver custom factory fiber assemblies with guaranteed performance and timely delivery with all of today's high performance connectors.
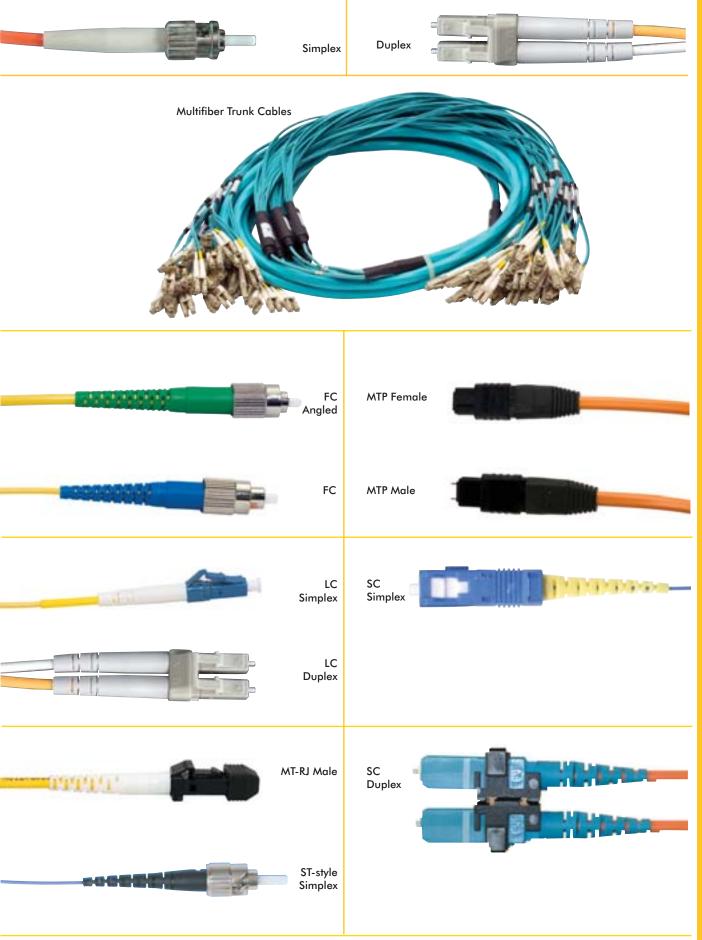
All Hubbell fiber cable assemblies are built to meet to ANSI/TIA-568-C.3.

Hubbell simplex and duplex fiber patch cords are available on an assemble-to-order (ATO) basis. You simply pick the fiber size, the flame-rating designation, the connector(s) on each end and the length.

Contact Customer Service to configure a factory-tested fiber cable assembly customized for your application.

RoHS

Cable Assemblies are available with a variety of cable styles and connectors. Cable configurations include:
- Simplex
- Duplex
- Multifiber Premise Cables
- OFNR Riser-rated
- OFNP Plenum-rated

With either:
- 900µm breakouts, or
- 1.8/2.0mm breakouts

Choose from:
- *50-micron fiber*
- *Laser Optimized 50-micron (10 GbE) fiber*
- *62.5-micron fiber*
- *Singlemode fiber*

Connector choices include:
- FC
- LC
- MT-RJ Male
- MT-RJ Female
- MTP Male
- MTP Female
- SC
- ST-Style

In Angle Polish finish, from 1 to 500 meters long.

Contact Customer Service to configure a factory-tested fiber cable assembly customized for your application.

Fiber Trunk Cable Assembly Options

Simplex

Duplex

Multifiber Trunk Cables

FC
Angled

FC

LC
Simplex

LC
Duplex

MT-RJ Male

ST-style
Simplex

MTP Female

MTP Male

SC
Simplex

SC
Duplex

HUBBELL 2Click

Pre-polished, Non-adhesive Fiber Optic Connectors

Hubbell's **2CLICK®** pre-polished connectors are field installable fiber optic connectors that eliminate the need for polishing or adhesives in the field. **2CLICK®** connectors provide a simple, quick termination method for either singlemode or multimode fibers. **2CLICK®** connectors feature a factory polished ferrule with an integral fiber stub that splices to building cable fibers. Index matching gel and a precision mechanical alignment system insure a low loss connection.

Each **2CLICK®** connector comes with a factory-installed termination clip that holds the clamping device open while the fiber is inserted. Once the fiber is in place, the termination clip is removed and discarded. Assembly can be completed in just 2 minutes or less. Simply strip the buffer, cleave and insert the fiber into the pre-polished connector and release the termination clip to complete the assembly. In addition, no expensive tools, jigs or messy epoxy needed.

For use with 250μm or 900μm buffer fibers.

Factory polished for superior optical transmission.

Specifications
◆ Meets TIA-568-C.3 performance requirements.

◆ Singlemode:
  • Operating temperature range:
    -40°C to +75°C.
  • Insertion Loss: 0.2dB average, 0.5dB max.
  • Return Loss: 56dB average, 45dB max.

◆ Multimode:
  • Operating temperature range:
    -40°C to +70°C.
  • Insertion Loss: 0.1dB average, 0.5dB max.
  • Return Loss: 20dB max.

◆ Material: Engineered polymer housing with Zirconia ferrule.

HUBBELL Advantage

■ Termination in 2 Minutes or Less.

■ No Polishing or Adhesives Required.

■ No Expensive Tools Needed.

■ Factory-Polished, Low-Loss Connector.

■ Supports 10GbE Network Connections.

■ Fiber's Higher Traffic Carrying Capacity per Volume Reduces Cabling and Improves Airflow.

2CLICK® No Epoxy, No Polish Connectors

Delivery: One bag of 12 connectors each individually bagged. Each bag includes black boot, connector, dust cap and termination clip.

2CLICK® Pre-Polished LC Connectors

	Catalog No.
Multimode, 50μm, 10G, 12-pk, Aqua Housing	**FCLC50GM12** ✓**10G**
Multimode, 50μm, 12-pk, Black Housing	**FCLC50M12**
Multimode, 62.5μm, 12-pk, Beige Housing	**FCLC62M12**
Singlemode, 12-pk, Blue Housing	**FCLCSM12**

FCLC50M12

2CLICK® Pre-Polished SC Connectors

	Catalog No.
Multimode, 50μm, 10G, 12-pk, Aqua Housing	**FCSC50GM12** ✓**10G**
Multimode, 50μm, 12-pk, Black Housing	**FCSC50M12**
Multimode, 62.5μm, 12-pk, Beige Housing	**FCSC62M12**
Singlemode, 12-pk, Blue Housing	**FCSCSM12**

FCSC50M12

2CLICK® Pre-Polished ST-style Connectors

	Catalog No.
Multimode, 50μm, 10G, 12-pk, Aqua Housing	**FCST50GM12** ✓**10G**
Multimode, 50μm, 12-pk, Black Housing	**FCST50M12**
Multimode, 62.5μm, 12-pk, Beige Housing	**FCST62M12**
Singlemode, 12-pk, Blue Housing	**FCSTSM12**

FCST62M12

Fiber Cleaver, Single Fiber Multimode

Delivery: 1 tool.

Catalog No.   **OFCLV3**

Tool Pouch

Tool pouch contains OFCLV3 cleave tool, OFSTRIP2 fiber strip tool, non-hazardous fiber cleaning solution, Kevlar scissors, ruler, wipes and black permanent marker.

Delivery: 1 tool pouch.

Catalog No.   **OFTP05**

Fiber Cleaver, Singlemode

Delivery: 1 tool.

Catalog No.   **OFCLV4**

Fiber Strip Tool

900 micron buffered fiber.

Delivery: 1 tool

Catalog No.   **OFSTRIP**

Field Installation Tool Kit

Tool Kit contains:
- OFSTRIP2 fiber strip tool
- OFCMT04 crimp tool
- Universal 2.5mm and 1.25mm polishing pucks
- Polishing plate
- 70 durometer polishing pad
- Polishing paper
- 200X microscope with 2.5mm and 1.25mm universal adapters
- Kevlar scissors
- Reversible blade carbide scribe
- Permanent marker
- Protective glasses
- Debris bottle for fiber safety

- Alcohol wipes
- Lint free cleaning wipes
- Water bottle
- Alcohol bottle
- 6" ruler
- 10" long x 7" wide x 6.25" high carrying case with the lid functioning as a portable work surface.

Delivery: 1 tool kit.

Catalog No.   **OFTK05**

Fiber Buffer and Jacket Strip Tool

Strips: 900 micron buffer, 250 acrylate buffer, loose tube and PVC jackets.

Delivery: 1 tool.

Catalog No.   **OFSTRIP2**

HUBBELL
2Quick

Crimp-Style Connectors

Your choice of crimp or adhesive termination.

Optional 3mm cable kit.

Telcordia style 900 micron strain relief boot.
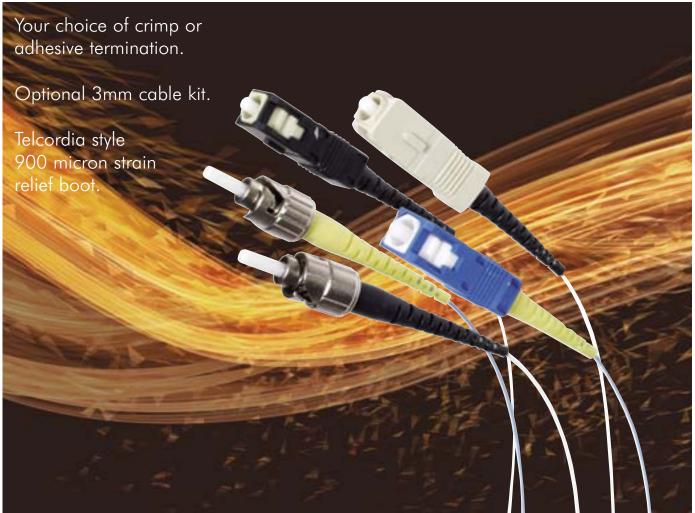
Specifications

◆ Operating temperature: 0-60°C.

◆ Materials
  - Connector ferrule: Zirconia Ceramic.
  - Connector body/nut: Nickel plated brass/zinc or polymer.
  - Crimp insert/crimp tube: Nickel plated brass/thermoplastic elastomer polymer.
  - Dust cap: Nylon or PVC.
  - Strain relief boot: Flame retardant (UL Rated 94-V0) polymer.

◆ TIA/EIA-568-C.3 compliant for long-term reliability.

◆ High quality Zirconia PC ferrule.

◆ 900 micron and 3mm cable applications*.

◆ U.S. Patent Nos. 6390688, 6726373 and 6600858.

For 3mm cables, use OFPCRKM or OFPCRKS crimp ring/boot kits.

HUBBELL
Advantage

■ Industry's First and Only TIA/EIA-568-B.3 Compliant Fiber Crimp Connector for Long-term Reliability.

■ Patented **2QUICK**® Flat Fiber Crimp Technology.

■ Quick, Easy Installation.

■ Fiber's Higher Traffic Carrying Capacity per Volume Reduces Cabling and Improves Airflow.

2QUICK® ST-style and SC Crimp-style Connectors

Hubbell's **2QUICK®** SC and ST-style connectors install in minutes. The **2QUICK®** connectors crimp easily on to 900 micron buffered fiber with a HPW hand tool. The **2QUICK®** connector system eliminates the need for adhesives and expensive curing ovens and provides a reliable fiber optic connection.

NOTE: Any ST-style or SC MM 2QUICK® connector can be installed on 50/125 as well as 62.5/125 fiber.

2QUICK® ST-style Connectors

Delivery: 1 connector, dust cap, black boot (MM) or yellow boot (SM) and crimp insert.

Description	Pack of 12 Catalog No.	Pack of 100 Catalog No.
Multimode	**FCSTMQ12RA**	**FCSTMQ100R**
Singlemode	**FCSTSQ12R**	**FCSTSQ100R**

FCSTMQXXXR

2QUICK® SC Connectors

Delivery: 1 connector, dust cap, black boot (MM) or yellow boot (SM) and crimp insert.

Description	Pack of 12 Catalog No.	Pack of 100 Catalog No.
Multimode	**FCSCMQ12R**	**FCSCMQ100R**
Singlemode	**FCSCSQ12R**	**FCSCSQ100R**

FCSTSQXXXR

For the tools, kits, and expendables required, see below.

Crimp Inserts	Pack of 12 Catalog No.	Pack of 100 Catalog No.
MM/SM	**FCCI12**	**FCCI100**

FCSCMQXXXR

FCSCSQXXXR

FCCIXXX

Crimp Tool

For **2QUICK®** Crimp and **OPTICHANNEL™** SC/ST-style epoxy/anaerobic connectors. Crimp die-set (included) pre-set at factory.

Dual hex cavity: .0178"/.0151".
Flat crimp 0.052".
Hex crimp 0.136".
Hardened die.

Catalog No.	**OFCMT04**

Cleave Tool

For **2QUICK®** crimp connectors only.

Catalog No.	**OFCLV1**

Fiber Cleaver, Single Fiber Multimode

Delivery: 1 tool.

Catalog No.	**OFCLV3**

Installation Tool, MT-RJ

Delivery: 1 tool.

Catalog No.	**OFCTOOL1**

Hand Scribe Tool

Sapphire blade.
Delivery: 1 tool and scribe guide.

Catalog No.	**OFSCRIBE**

Die-Set

For **2QUICK®** crimp tool. Replacement die for OFCMT04.

Catalog No.	**OFCMD04**

Polishing Film

Replacement kit.

Delivery: 25 sheets of 5, 1, and 0.3 micron, 1 polishing pad.

Catalog No.	**OFLFP**

Polishing Puck

Stainless Steel, polished surface. SC/ST-style or LC compatible.
Delivery: 1 puck.

	Catalog No.
SC/ST-style	**OFPUCK**
LC	**OFPUCKLC**

Fiber Strip Tool

900 micron buffered fiber.
Delivery: 1 tool

Catalog No.	**OFSTRIP**

Fiber Buffer and Jacket Strip Tool

Strips: 900 micron buffer, 250 acrylate buffer, loose tube and PVC jackets.
Delivery: 1 tool.

Catalog No.	**OFSTRIP2**
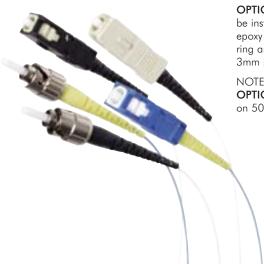
HUBBELL
OptiChannel **Adhesive Fiber Connectors**

OPTICHANNEL™ adhesive connectors can be installed with either anaerobic quick-cure or epoxy heat-cure adhesives. A separate crimp ring and boot kit is available to terminate 3mm jacketed cables.

NOTE: Any ST-style, SC or LC MM OPTICHANNEL™ connector can be installed on 50/125 as well as 62.5/125 fiber.

Features/Benefits
- ■ Zirconia PC ferrule (ST, SC and LC).
- ■ Pre-polished MT-RJ connectors require.
- ■ LC connectors require no crimping.
- ■ 900 micron and 3mm cable applications.
- ■ TIA/EIA-568-C.3 compliant for long-term reliability.
- ■ Telcordia style strain relief boot.

Specifications
ST, SC and LC Adhesive Connectors
- ◆ MM/SM Mated Pair Insertion Loss: <0.50dB (0.25dB typical).
- ◆ Operating temperature: -40 to 75°C (heat-cure epoxy).

MT-RJ Pre-Polished Connectors
- ◆ MM Mated Pair Insertion Loss: <0.75dB (0.50dB typical).
- ◆ Operating Temperature: -40 to 75°C.

OPTICHANNEL™ ST-style, SC, LC Adhesive and MT-RJ Pre-Polished Connectors

RoHS

FCSTMXXXR

OPTICHANNEL™ ST-style Connectors

Delivery: 1 connector, dust cap, black boot (MM) or yellow boot (SM) and dust cap.

Description	Pack of 12 Catalog No.	Pack of 100 Catalog No.
Multimode	**FCSTM12R**	**FCSTM100R**
Singlemode	**FCSTS12R**	**FCSTS100R**

FCSTSXXXR

OPTICHANNEL™ SC Connectors

Delivery: 1 connector, dust cap, black boot (MM) or yellow boot (SM) and dust cap.

Description	Pack of 12 Catalog No.	Pack of 100 Catalog No.
Multimode	**FCSCM12R**	**FCSCM100R**
Singlemode	**FCSCS12R**	**FCSCS100R**

FCSCMXXXR

OPTICHANNEL™ MT-RJ Connectors (900μm only)

Delivery: Factory pre-polished/fiber stub connector with alignment pins, black boot and dust cap.

	50 μm Catalog No.	62.5 μm Catalog No.
Package of 6	**FCMTRJ50**	**FCMTRJ62**

FCSCSXXXR

OPTICHANNEL™ LC Simplex Adhesive Connectors (900μm only)

Delivery: LC connector, white boot and dust cap.

Package of 6	Multimode Catalog No.	Singlemode Catalog No.
Multimode	**FCLCMM**	**FCLCSM**

FCMTRJXX

Crimp Rings/3mm Boot (SC/ST-style 2QUICK® or OPTICHANNEL™ connectors) - for 3mm jacketed cables.

Delivery: 25 crimp sleeves and boots (MM = black, SM = yellow).

Format	Catalog No.	Format	Catalog No.
Multimode	**OFPCRKM**	Singlemode	**OFPCRKS**

FCLCXX

OFPCRKX

Termination Kits for SC/ST-style Connectors

RoHS

Delivery: Canned air, 10 oz., tool pouch (OFTP02C) with fiber and cable preparation tools, wipes, heat cure epoxy, anaerobic adhesive and primer, polishing paper, polishing pad, heat-cure epoxy oven, safety glasses, syringes, needles, cure adapters and clips.

Description	Catalog No.
Termination Kit for SC/ST-style connectors, 16-port (110VAC)	**OFTK03C**
Termination Kit for SC/ST-style connectors, 8-port (220VAC)	**OFTK04C***

* Does not contain canned air.

OPTICHANNEL™ Fiber Connectors

F22   HUBBELL   Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

Termination and Tools for Fiber Connectors

Connector Installation Tool Pouch

For SC/ST-style Connectors

Delivery: Sapphire scribe, scribe guide, black permanent marker, Kevlar scissors, strip template and polishing fixture, ruler, buffer/cable jacket stripper, 200X microscope assembly, crimp tool and die.

Catalog No. **OFTP02C**

OFTP04C

For MT-RJ and LC Connectors

Delivery: Black permanent marker, Kevlar scissors, ruler, buffer stripper, stripper/cutter 30-10AWG. MT-RJ tool pouch includes cam tool and fiber cleaver; LC tool pouch includes LC cure adapters, scribe guide, polishing puck, sapphire scribe and 200X microscope.

Description	Catalog No.	Description	Catalog No.
MT-RJ	**OFTP03**	LC	**OFTP04C**

Epoxy Replacement Kit

Easy mix (1g) tubes fit into syringes. Superior bond strength. Cures in 10 minutes at 90°C. Eight month shelf life. 30 minute working time.
Delivery: 6 tubes 1g, 6 syringes/needles.

Catalog No. **OFCEP**

Anaerobic Replacement Kit

Cures in 6-10 seconds. Superior bond strength. Convenient paint brush in cap. Needle tip fits on adhesive bottle.
Delivery: Primer and adhesive, 10 syringes and 10 needles.

Catalog No. **OFCAP**

Delivery: Replacement bottle of primer only.

Catalog No. **OFPRIME**

Crimp Tool

For **2QUICK®** Crimp and **OPTICHANNEL™** SC/ST-style epoxy/anaerobic connectors. Crimp die-set (included) pre-set at factory.
Dual hex cavity: .0178"/.0151". Flat crimp 0.052". Hex crimp 0.136". Hardened die.

Catalog No. **OFCMT04**

Hand Scribe Tool

Sapphire blade.
Delivery: 1 tool and scribe guide.

Catalog No. **OFSCRIBE**

Scribe Guide

Suitable for SC, ST-style, or LC connectors. Handy loop for key chains.
Delivery: package of 6

Catalog No. **OFSG**

Polishing Puck

Stainless Steel, polished surface. SC/ST-style or LC compatible.
Delivery: 1 puck.

	Catalog No.
SC/ST-style	**OFPUCK**
LC	**OFPUCKLC**

Polishing Film

Replacement kit.
Delivery: 25 sheets of 5, 1, and 0.3 micron, 1 polishing pad.

Catalog No. **OFLFP**

Epoxy Cure Adapters

For heat cure oven.
Delivery: Package of 6.

	Catalog No.
SC/ST-style	**OFCA**
LC	**OFCALC**

OFCA

OFCALC

Complete Test Set, Multimode

Batteries and soft pouch included. Fully calibrated at factory. ST-style adapter ports.
Delivery: 1 power meter, 1 dual wavelength LED source, 1 soft pouch.

Description	Catalog No.
Complete kit	**OFPLK813A**
Power Meter Dual wavelength	**OFPM813**
LED Light Source Dual wavelength, MM	**OFLS813**

OFPM813   *OFLS813*

Fiber Optic Fault Finder

The fault finder kit is a dual visible laser light source. (OFAULT2 is single wavelength visible laser.) It provides the fiber optic system installer and troubleshooter with a durable test instrument to visibly locate excessive bends, kinks and breaks in duplex fiber optic cables. Also, the fault finder is a useful tool to optimize **2CLICK®** and MT-RJ connectors and for indicating polarity.
Delivery: OFAULT1: Waterproof carrying case, battery charger, MT-RJ assembly clip and MT-RJ patch cord

Catalog No.	**OFAULT1**
Accessories	Catalog No.
MT-RJ Assembly clip	**FCMTRJCLP**
MT-RJ Duplex patch cord 1m 62.5/125µm	**DFPCRJRJC1MM**
MT-RJ to ST-style duplex patch cord, 1m, 62.5/125µm	**DFPCRJSTC1MM**
MT-RJ to SC duplex patch cord 1m, 62.5/125µm	**DFPCRJSCC1MM**

OFAULT1

Microscope, 400X

Built-in illuminator. Soft pouch. Batteries included. SC/ST-style adapter included.

Description	Catalog No.
SC/ST-style Microscope	**OFSCOPE1**
LC Adapter (400X microscope only)	**FOADPTLC**

OFSCOPE1

OPTISOK™

Bundle Size Range	Catalog No.
0.125-0.562"	**CCPS1**
0.250-0.750"	**CCPS2**
0.750-1.750"	**CCPS3**

Support Grips

Single Eye, Single Weave

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	Closed Mesh Catalog No.	Rod Closing Split Mesh Catalog No.
.18"-.25" (.46-.63)	300 (1,334)	**022291000**	**022291016**
.23"-.32" (.58-.81)	300 (1,334)	**022291001**	**022291017**
.30"-.39" (.76-.99)	300 (1,334)	**022291002**	**022291018**
.37"-.48" (.94-1.22)	300 (1,334)	**022291003**	**022291019**
.46"-.58" (1.17-1.47)	400 (1,779)	**022291004**	**022291020**
.56"-.71" (1.42-1.80)	600 (2,669)	**022291005**	**022291021**
.69"-.88" (1.74-2.24)	800 (3,558)	**022291006**	**022291022**

* IMPORTANT: Consult Factory Support for Safety and Working Load Factors for Wire Mesh Grips.

CABLE MANAGEMENT and ENCLOSURES

IFRAME NETWORK HARDWARE MANAGEMENT SYSTEM•HORIZONTAL CABLE MANAGEMENT•WALL MOUNT SWIN
QUAD CAB WALL MOUNT CABINET•MOBILE BASES•SOUND DAMPENING KIT•CONSOLIDATION POINT ENCLOS
HASP KIT•FILLER PANELS•NEXTFRAME LADDER RACK•POWER KIT•PREMISE NETWORKING CABINETS•TELESCOPIC
ROOF MOUNT FANS•CABINET LIGHT•THERMOSTAT•EQUIPMENT MOUNTING BRACKETS•FIBER OPTIC BRACKET
EQUIPMENT CABINET•GASKET KITS•WALL MOUNT HINGE BRACKETS•VERTICAL ORGANIZERS•CENTER RACK•TR
SUPPORT•HORIZONTAL HINGE•CROSS SPLICE KIT•CEILING MOUNTING KIT•WALL ANGLE SUPPORT•PLASTIC RI
PANEL•VERTICAL CABLE MANAGEMENT•REAR WIRE FRAME•TRANSITION SPOOLS•VERTICAL RINGS•FRONT/REAR

CONTENTS

HUBBELL
NextFrame

Equipment Racks

Hinged covers
Optional.

Sturdy, Durable
Steel construction.
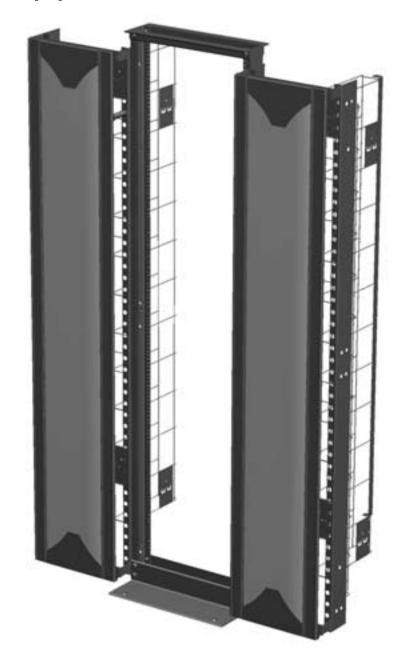
Superior Cable Management
Multiple tie-off points to organize cable.
Snap in spools to route cable where needed.

Easy-to-Use
Screws with dog-nose tip lead in and #3
Phillips combo head provided.

Mates with most other models of racks and
channels.

Specifications

◆ Material:
  Rack: 6063-T2 aluminum.
  Uprights: 1/4" web thickness.

◆ Finish: Durable black powder coat or mill
  finish.

◆ Weight capacity: 500 lbs. (static) when
  properly secured to floor.

◆ UL Listed - 7N69 Communications Circuit
  Accessory.

◆ EIA-310-D universal spacing tapped
  #12-24 front and rear.

RoHS

HUBBELL
Advantage

■ Attractive Front Covers Enhance Appearance.

■ Channels Clip to Rack Greatly Speeding Assembly.

■ Spools can be Located as Needed Along Length
  of Channel.

■ Channels Ship Knocked Down to Reduce Freight.

19" Equipment Rack with 10" and 15" Wide XXL Channels

Seven-foot cable management rack with XXL vertical cable management organizers in a single, easy to order catalog number. Use in C6A applications or other applications with 400 cables or better. Rack ships unassembled.

Delivery: 1   Rack, 7'H (HPW84RR19)
          2   XXL Vertical Organizers (see page G6)

Rack Height	Rack Units	Channel Width	Finish	Catalog No.
7' (2134)	45	10" (254)	Black	**XSR1010** ✔**10G**
7' (2134)	45	15" (381)	Black	**XSR1510** ✔**10G**

19" Equipment Rack with 6" wide 'Z' Channels

Seven-foot cable management rack with 6" wide vertical cable management organizers in a single catalog number for ease in ordering. Use in typical applications. Products are available in both black and clear aluminum finishes. Rack ships unassembled.

Delivery: 1   Rack, 7'H (HPW84RR19)
          2   Vertical Organizers (ref. VS76/VS76A - see page G9)

Rack Height	Rack Units	Finish	Cover Style	Catalog No.
7' (2134)	45	Black	Hinged	**CS1976H**
7' (2134)	45	Black	Clip on	**CS1976**
7' (2134)	45	Aluminum	Clip on	**CS1976A**

CS1976A

19" Equipment Rack with 3.25" wide 'C' Channels

Seven-foot cable management rack with 3.25" wide vertical cable management organizers in a single catalog number for ease in ordering. Use when space is limited. Products are available in both black and aluminum finishes. Rack ships unassembled.

Delivery: 1   Rack, 7'H (HPW84RR19)
          2   Vertical organizers (VS73/VS73A - see page G9)
          4   Covers (ref. VCC3/VCC3A - see page G9)

Rack Height	Rack Units	Finish	Cover Style	Catalog No.
7' (2134)	45	Black	Hinged	**CS1973H**
7' (2134)	45	Black	Clip on	**CS1973**
7' (2134)	45	Aluminum	Clip on	**CS1973A**

CS1973A

Equipment Rack

Shipped unassembled.
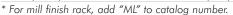
Delivery: 2   Floor angles   2   Top angles
          2   Vertical uprights   20   #12-24 x ⅝" equipment mounting screws
          1   Assembly hardware kit
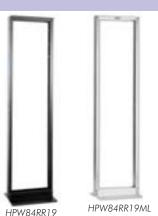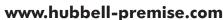
Rack Height	Rack Units	Mounting Width	Finish*	Catalog No.
48" (1219)	24	19" (483)	Black	**HPW48RR19**
48" (1219)	24	23" (584)	Black	**HPW48RR23**
68.5" (1676)	36	19" (483)	Black	**HPW66RR19**
84" (2134)	45	19" (483)	Black	**HPW84RR19**
84" (2134)	45	23" (584)	Black	**HPW84RR23**
89.7" (2286)	48	19" (483)	Black	**HPW90RR19**
89.7" (2286)	48	23" (584)	Black	**HPW90RR23**
96" (2438)	51	19" (483)	Black	**HPW96RR19**
96" (2438)	51	23" (584)	Black	**HPW96RR23**

HPW84RR19   *HPW84RR19ML*

* For mill finish rack, add "ML" to catalog number.

www.hubbell-premise.com   **Call 1-800-626-0005**   **G5**

HUBBELL
NextFrame

XXL Vertical Cable Management

Open Design
- Allows side-to-side airflow.
- "Eco-Friendly" design minimizes weight and steel content.
- Maximum cable capacity with unobstructed access to cable.

Power Strip Mounting
- All the way to the back where it is needed.

Snap in Spools
- Place where you need them along the upright for refined cable management.
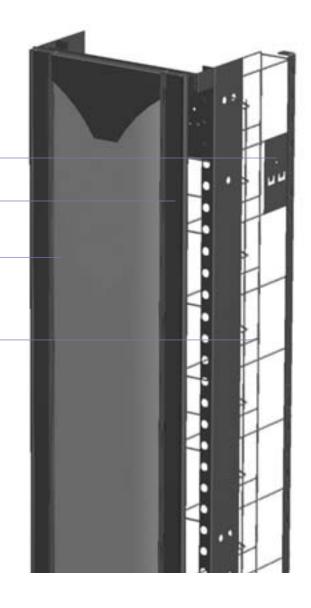
Cover
- Hinges both left and right.
- Panel easily replaced for personalized data center appearance.

Rear Organizer
- Large area to lace horizontal cable.
- Horizontal Cable on left and right sides

Specifications
- ◆ Cable capacity: See table opposite page.
- ◆ Finish: Durable black powder coat.
- ◆ Construction:
  Steel wire frame chassis;
  Cold Rolled Steel mounting rails;
  Extruded Aluminum door frame with laminate insert.

RoHS

HUBBELL
Advantage

- ■ Extra Large Capacity, Open Design Supports Large C6A Bundles.

- ■ Customize Front Door Panel - Unmatched Options to Personalize Data Center Appearance.

- ■ Pre-Assembled - Ready to Use Out of the Box.

- ■ Open Design Maximizes Airflow, Cable Capacity and Accessibility.

- ■ "Eco-Friendly" Design Minimizes Weight and Steel Content.

XXL Series Vertical Organizers

Delivery:	1	Dual hinging door
	1	Front organizer
	1	Rear organizer
	12	Snap in spools
	1	Installation hardware kit
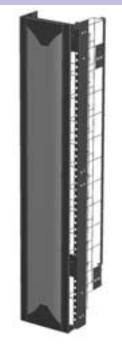
Color: Black powder coat with metallic insert.

Mounts to 7" Rack.

Channel Width:	6"W	10" W	15"W
Depth	Catalog No.	Catalog No.	Catalog No.
10"	**XS0610**	**XS1010**	**XS1510** ✓**10G**
13"	**XS0615**	**XS1515**	**XS1515** ✓**10G**
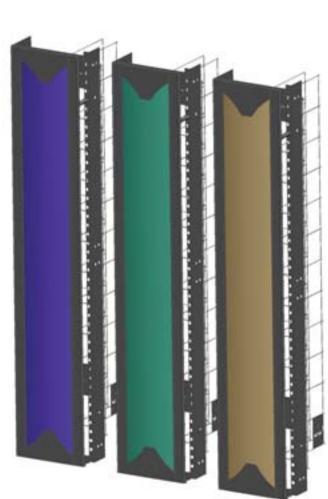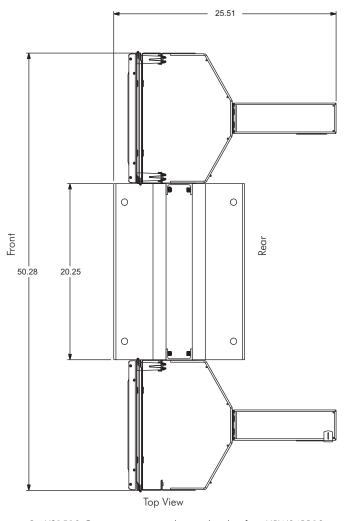
Cable Capacity Chart

	0.25" Diameter		0.29" Diameter		0.34" Diameter	
Catalog No.	Front	Rear	Front	Rear	Front	Rear
XS0610	753	538	560	400	407	291
XS0615	1069	538	794	400	578	291
XS1010	1303	1398	968	1039	704	756
XS1015	1881	1398	1398	1039	1017	756
XS1510	1987	2474	1477	1838	1074	1337
XS1515	2945	2474	2189	1838	1592	1337

Contact Customer Service for custom colors.

Top View

25.51
50.28
20.25
Front
Rear

The XXL design has a unique door construction with a replaceable center panel. Now the look of the equipment in your data center can be easily customized to reflect the unique style of your enterprise.

2 - XS1510 Organizers mounted to each side of an HPW84RR19 Equipment Rack.

HUBBELL NextFrame

Vertical Cable Management

Rugged Construction
14 ga. Z-Frame withstands abuse.

Cable Management Spools
• Ensure proper bend radius.
• Place where needed along channel for refined cable management.

Cable Management
Organize cable by groups and bundles.

Front Covers Conceal Cable
Easily snap in place.

Optional Hinged Covers
Swings both left and right hand.

"Z" Channel
Vertical Organizer.

"C" Channel Vertical
Organizer.

HUBBELL Advantage

■ Cable Management Spools can be Located Along the Length of the Channel for Proper Cable Routing.

■ Assembles Quickly - Channels Clip to Equipment Rack.

■ Pass-Thru Holes Permit Cable Routing From the Front to the Rear of the Rack When Required.

■ Channel Assembly Shipped Knocked-Down to Conserve Freight Expense.

Specifications

◆ Channel Material:
• "Z" Frame: 14 ga. Cold Rolled Steel.
• "C" Channel: 16 ga. Cold Rolled Steel.

◆ Cover material: 16 ga. Cold Rolled Steel.

◆ Finish: Durable black or Aluminum color powder coat finish.

◆ Packaged to meet Telcordia GR-63-CORE transportation requirements.

◆ U.S. Patent No. 6,347,714.

RoHS

Vertical Organizers with Hinged Covers

RoHS

Delivery:	2 Z channels, 38.5"H x 12.5"D	4 Gates
	2 38.5" Covers	24 Spools
	4 Hinges	4 ½"-13x1" Bolt w/nut and lock washer

Color	Rack Height	Catalog No. 6"W	Catalog No. 4½"W	Catalog No. 3¼"W
Black	7' (2134)	**VS76H**	**VS74H**	**VS73H**

Vertical Organizers

RoHS

Z' Channel, 6" with Cover

For 7' or 8' rack. Suitable for approximately 800 4-pair 0.25" Dia. UTP cables when fully utilized.*

Delivery: VS76(A)
2   Z channels, 38.5"H x 6"W x 10.5"D
2   Covers, 38.5"W x 6"W
4   Gates
24 Spools
4   Bolts, nuts, washers ½" - 13 x 1"

Delivery: VS86(A)
1   Z channels, lower, 45.38"H x 6"W x 10.5"D
1   Z channel, upper, 38.5"H x 6"W
1   Cover, lower, 45.38"H x 6"W
1   Cover, upper, 38.5"H x 6"W
4   Gates
24 Spools
4   Bolts, nuts, washers ½" - 13 x 1"

Rack Height	Catalog No. Black	Catalog No. Aluminum
7' (2134) or 7.5' (2286)	**VS76**	**VS76A**
8' (2438)	**VS86**	**VS86A**

'Z' Channel, 6" (for short racks)

Delivery:
1   Z channel, 38.5"H x 6"W x 10.5"D
16 Spools
2   Bolts, nut, washer ½" - 13 x 1"

Rack Height	Catalog No. Black	Catalog No. Aluminum
4' (1219) and 5.5' (1676)	**VS46**	**VS46A**

'Z' Channel, 4½" wide, 0.25" Dia.

Suitable for approximately 540 4-pair UTP cables when fully utilized.*

Delivery:
2   Z channels   38.50" x 4.5" x 10.5"   24 Spools
4   Bolts, nuts, washers ½" - 13 x 1"

Rack Height	Catalog No. Black
7' (2134)	**VS74**

'C' Channel, 3¼" wide

Suitable for approximately 300 4-pair UTP cables.

Delivery: VS73(A)
2   C channels, 38.5"H x 3.25"W x 10.5"D**
24 Spools
4   Bolt, nut, washer ½" - 13 x 1"

Rack Height	Catalog No. Black	Catalog No. Aluminum
7' (2134)	**VS73**	**VS73A**

* Capacity of front and rear of channel combined.
** When optional rear gates are used.

VS76H

VS46

VS73

Cable Management Spools

RoHS

Assembles as needed along each column to further route and conceal cable.

Features/Benefits

- Snap locks into column.
- Use every 1U to achieve duct style manager.
- Locate as needed to route cable to put wherever needed.

Specifications

- Material: Polycarbonate (ABS).
- Finish: Black.
- Maintains T568-A compliant bend radius as cable transitions from horizontal to vertical.

Description	Catalog No.
Package of 50 black spools - 3"	**ICKSS**
Package of 50 black spools - 9"	**ICKSS9**

Vertical Cable Management Accessories

Covers

Features/Benefits
- Conceal cable to provide clean appearance.
- Snap in place - no fasteners to wear or break.

Delivery: 1 Cover

Specifications
- Material: 20 ga. Cold Rolled Steel.
- Finish: Durable black or aluminum color powder coat finish.

Cover Width	38.5"H Black Catalog No.	38.5"H Aluminum Catalog No.	45.38"H Black Catalog No.	45.38"H Aluminum Catalog No.
6"	**VSC6**	**VSC6A**	**VSC6L**	**VSC6AL**
4"	**VSC4**	-	**VSC4L**	**VSC4AL**
3"	**VSC3**	**VSC3A**	**VSC3L**	**VSC3AL**

VSC6

Fiber Spools

Features/Benefits
- Used to take up fiber jumper slack in vertical channels.
- 6" wide "Z" frame only.
- Fastens to channel pass-thru holes.

Delivery: 5 sets of fiber spools

Catalog. No. **VCF610**

Specifications
- Material: ABS, Black.

Hinge Kit

Use to easily convert VS76 to VS76H.

Features/Benefits
- Allows cover to be hinged left and right during moves, adds and changes.

Delivery: 2 hinges and fasteners.

Catalog. No. **VCKH**

NOTE: Gates not provided, order separately.

Specifications
- Material: 14 ga. Cold Rolled Steel

Joining Kit

Use to easily convert VS76 to VS76H.

Features/Benefits
- Join top and bottom channel sections when mounting to other than Hubbell racks.
- Join racks and cabinets side-to-side.

Delivery: 1 joining plate, 4 #12-24 x ⅝" screws, nuts, washers, 4 ½"-13 bolts, nuts, washers

Catalog. No. **VCJK**

Specifications
- Finish: durable black powder coat.

Vertical Rings

Features/Benefits
- Attaches to front or rear 19" mounting holes on equipment racks.

Delivery: 2 vertical rings and 1 mounting kit

Brackets	One side	Between racks
Catalog No.	**MCCVMR2**	**MCCVMR22**

MCCVMR2   MCCVMR22

Specifications
- Width: 6" (152); depth: 10" (254).
- Material: 11 ga. Cold Rolled Steel.
- Finish: Durable, black powder coat.

HUBBELL
Next**Frame**

Wall Mount Swing Frame

HUBBELL Advantage

- Supports heavy or deep equipment in locations with limited floor space.
- Quick release latches - rack frame hinges both left and right.
- Cable tie slots along both sides and inside top and bottom.
- Ships knocked-down to conserve freight expense.

Specifications

- Material: 16 ga. Braces; 12 ga. equipment frame.
- Finish: durable black powder coat.
- 70 lbs. load capacity.
- 16" on center mounting for easy attachment to standard wall studs.
- 3" deep rack uprights.
- EIA-310-D universal spacing tapped #12-24 front and back.

Wall Mount Swing Frame

Hubbell's wall mount swing frames are used to conserve floor space when a full-height floor standing rack is not required. Wall mount frames are designed to hold heavy equipment in controlled rooms where open access to equipment is acceptable.
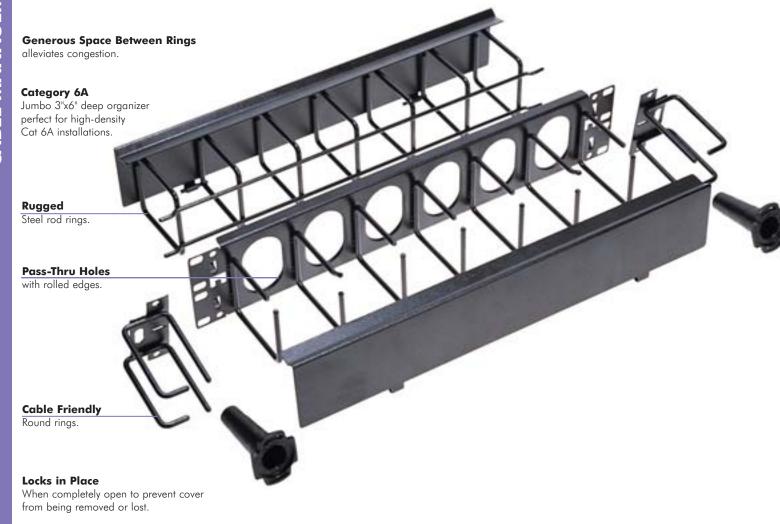
Delivery: 1 rack frame
                1 kit mounting hardware (50 - 12/24 screws)

Height	Rack Units	Width	Depth	Finish	Catalog No.
24" (610)	12	20.7" (526)	18" (457)	Black	**HPWWMR24**
36" (914)	19	20.7" (526)	18" (457)	Black	**HPWWMR36**
48" (1219)	26	20.7" (526)	18" (457)	Black	**HPWWMR48**

HUBBELL
NextFrame

Horizontal Cable Management

Generous Space Between Rings
alleviates congestion.

Category 6A
Jumbo 3"x6" deep organizer
perfect for high-density
Cat 6A installations.

Rugged
Steel rod rings.

Pass-Thru Holes
with rolled edges.

Cable Friendly
Round rings.

Locks in Place
When completely open to prevent cover
from being removed or lost.

Specifications

- ◆ Panel material: 16 ga. Cold Rolled Steel.
- ◆ Cover material: 16 ga. Cold Rolled Steel.
- ◆ Ring: 0.225" diameter Steel rod.
- ◆ Durable, black powder coat.
- ◆ GR-63-CORE transportation requirements.
- ◆ U.S. Patent No. 6,215,069.

HUBBELL
Advantage

- ■ All Steel Construction - Rugged, Non-Flammable, no Fasteners to Wear or Break, no Fingers to Fuss with.

- ■ Components Snap Together Quickly Without the Use of Tools.

- ■ Modular Components Easily Configured in Field to Adapt to Demanding Applications.

- ■ "Green" Design Minimizes Weight and Steel Content.

Duct Panels

Features/Benefits

- 7-rings.
- 6 pass-through holes.
- Hinged front cover.
- Conceals patch cords and enhances the network appearance.

Rack Width	Rack Units	Panel Height	Front Ring Depth	Rear Ring Depth	Catalog No.
19"	1U	1.75"	1.75"	-	**HC119CE1N**
19"	1U	1.75"	3.50"	-	**HC119CE3H**[1]
19"	1U	1.75"	3.50"	6.00"	**HC119GC36**[3]
19"	1U	1.75"	6.00"	-	**HC119CE6H**[1]
19"	2U	3.50"	1.75"	-	**HC219CE1N**
19"	2U	3.50"	3.50"	-	**HC219CE3N**
19"	2U	3.50"	3.50"	6.00"	**HC219GC36**[3]
19"	2U	3.50"	3.50"	6.00"	**HC219GC36P**[3]
19"	2U	3.50"	6.00"	-	**HC219CE6N**
19"	2U	3.50"	3.50"	4.6"	**HC219CR3N**[2]
19"	2U	3.50"	3.50"	4.6"	**HC219CC3N**[4]
19"	3U	5.25"	3.50"	-	**HC319CE3N** ✓**10G**
19"	3U	5.25"	6.00"	-	**HC319CE6N** ✓**10G**

[1] Heavy-duty version - no pass-through holes.
[2] Includes rear wire frame.
[3] Includes rear wire frame and rear cover - no pass-through holes.
[4] Includes rear wire frame, cover and pass-thru holes.

HC219CC3N
- front and rear cover shown

HC219CE3N
- front cover only

Enhanced Panels

Features/Benefits

- 7-rings.
- 6 pass-through holes.
- These panels can be upgraded through the use of accessories.
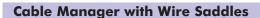
Rack Width	Rack Units	Panel Height	Front Ring Depth	Rear Rings	Catalog No.
19"	1U	1.75"	3.50"	No	**HC119ME3N**
19"	1U	1.75"	6.00"	No	**HC119ME6N**
19"	2U	3.50"	3.50"	No	**HC219ME3N**
19"	2U	3.50"	6.00"	No	**HC219ME6N**
19"	3U	5.25"	3.50"	No	**HC319ME3N** ✓**10G**
19"	3U	5.25"	6.00"	No	**HC319ME6N** ✓**10G**

HC219ME3N

Basic Panels

Features/Benefits

- 4-rings.
- Solid panel.
- Use when accessories or pass-thru holes are not required.

Rack Width	Rack Units	Panel Height	Front Ring Depth	Rear Rings	Catalog No.
19"	1U	1.75"	1.75"	No	**HC119MS1N**
19"	1U	1.75"	3.50"	No	**HC119MS3N**
19"	2U	3.50"	1.75"	No	**HC219MS1N**
19"	2U	3.50"	3.50"	No	**HC219MS3N**
23"	2U	3.50"	1.75"	No	**HC223MS1N**

Cable Manager with Wire Saddles

Delivery: 1 - Panel assembly with cover(s), 4 - #12-24 x ⅝" dog-nosed screws, 4 - #12 nylon flat washers

Rack Units	Height	Ring Depth	Catalog No.
2U	3.50"	3"	**HC219ME3S**
1U	1.75"	3"	**HC119ME3S**[1]

[1] HC119ME3S includes only wire saddles and rings for vertical cable management.

HC219ME3S

Horizontal Cable Management Accessories

Front/Rear Cover

HC219C

Features/Benefits
- Conceals patch cords.
- Locks in place when completely open to prevent cover from being removed or lost.
- Snaps open and closed, no fasteners to lose or break.
- Easily removed and replaced during moves, adds and changes.

Specifications
- Material: 16 ga. Cold Rolled Steel.
- Durable, black powder coat.

The hinged cover can be used on the front and/or rear of the Enhanced-style **NEXTFRAME**® horizontal cable management system.

Delivery: 1 cover

Height	1U/1.75"	2U/3.50"	3U/5.25"
Catalog No.	**HC119C**	**HC219C**	**HC319C**

Vertical Management Rings

HC23VR2

Features/Benefits
- Mounts to front of 2U and 3U panels or can be mounted directly to rack mounting rails - front or rear.

Specifications
- Material: Steel.
- Finish: black powder coat.
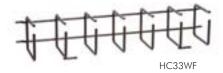
The vertical management rings attach to 19" tapped holes on the rack rails or uprights of cabinets to provide vertical cable management.

Delivery: 2 rings, 1 kit mounting hardware

Depth	3.50" (89)	6" (152)
Catalog No.	**HC23VR2**	**HC26VR2** ✔**10G**

Rear Wire Frame

HC33WF

Features/Benefits
- Rugged, non-flammable, won't wear or break like plastic.
- Easy access, allowing patch cords to connect at rear of hubs.
- Round rod design prevents cable from chafing.

Specifications
- Material: 0.225" dia. Steel rod, 3½" high rings.
- Finish: durable, black powder coat.

Mounts to 2U and 3U panels only. Our unique design allows the frame to clip on to the rear of Enhanced or Duct Style panels without the use of tools.

Delivery: 1 rear wire frame.

Depth	4.6" (117)	6" (152)
Catalog No.	**HC33WF**	**HC36WF** ✔**10G**

Plastic Cable Management Rings

MCCPSR4

Features/Benefits
- Adhesive or non-adhesive versions.

Specifications
- Material: Polycarbonate, black.
- Height: 3.95"; Width: 2.95"

Use for patch cord cable management.

Delivery: 4 rings.

Description	Non-adhesive	Adhesive
Catalog No.	**MCCPSR4**	**MCCPSRA4**

Horizontal Cable Management Accessories

Plastic Finger Duct Organizer

Features/Benefits

- Lightweight.
- Conceals cable stored in duct.
- Individual patch cord management.

Specifications

- Material: extruded PVC (organizers and cover).
- Metal panel: 16 ga. Cold Rolled Steel.
- Color: Black.

HC219CE3P

Plastic duct-style horizontal cable organizers are the traditional solution for storing and routing jumpers and patch cords on a 19" equipment rack. The slots in the finger duct accommodate precise routing of patch cords.

Delivery: 1 - Panel assembly with cover(s), 4 - #12-24 x ⅝" dog-nosed screws, 4 - #12 nylon flat washers

Rack Units	Height	Front Duct Depth	Rear Duct Depth	Catalog No.
2U	3.50"	3"	5"	**HC219CC3P**
2U	3.50"	3"	None	**HC219CE3P**
1U	1.75"	3"	5"	**HC119CC3P**
1U	1.75"	3"	None	**HC119CE3P**
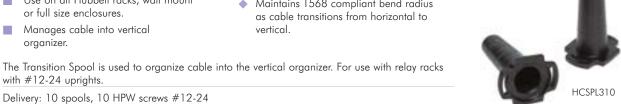
Transition Spool

Features/Benefits

- Rugged, won't wear or break.
- Use on all Hubbell racks, wall mount or full size enclosures.
- Manages cable into vertical organizer.

Specifications

- Material: ABS, black.
- Maintains T568 compliant bend radius as cable transitions from horizontal to vertical.

HCSPL310

The Transition Spool is used to organize cable into the vertical organizer. For use with relay racks with #12-24 uprights.

Delivery: 10 spools, 10 HPW screws #12-24

Depth	1.75"	3.50"	6.00"
Catalog No.	**HCSPL110**	**HCSPL310**	**HCSPL610**

Extender Brackets, 23"

Features/Benefits

- Brackets occupy 2 rack units.
- For use with patch panels and cable management panels.

Specifications

- Material: Steel.
- Finish: durable, black powder coat.

The Extender Bracket is used to modify a 19" panel to mount onto a 23" rack.

Delivery: 2 brackets, 1 kit of mounting hardware.

Catalog. No.	**BREXTB235**

Cable Management Accessories

VELCRO® Brand ONE-WRAP® Cable Ties

VELCRO® Brand ONE-WRAP® Cable Ties

Features/Benefits

■ For use in the Hubbell **NEXTFRAME®** Cable Management system.

Specifications

◆ Straps per puck: 10.

◆ Maximum bundle diameter: 2.5".

The **VELCRO®** Brand **ONE-WRAP®** cable tie is a unique ½" wide back-to-back fastening system that wraps around cable then back on itself.

Length	Color	Straps per Puck	Max. Bundle Diameter	Catalog No. (10-pk)
8" (203)	See below	10	2.5"	**HPWCVFXX8**

XX = Color: insert 2-letter code: BK=Black, OR=Orange, YL =Yellow, BL=Blue, RD=Red

Bulk VELCRO® Pucks

Width	Length		Package	Catalog No.	
1"	10'	Cut to Length	10-Pack	**HPWCVFBK120**	✓**10G**
0.625"	75'	Cut to Length	Each	**HVFBK5875**	✓**10G**
0.5"	75'	Cut to Length	Each	**HVFBK575**	✓**10G**
0.5"	75'	Rip to Length	Each	**HVFBK575S**	✓**10G**
0.5"	600'	Cut to Length	Each	**HVFBK5600**	
0.5"	75'	Cut to Length	Each	**HVFP575***	✓**10G**

* HVFP575 is UL Plenum Rated.

HVFBK5600

Basic VELCRO® Brand Fasteners

Features/Benefits

■ Simplifies moves, adds, and changes.

■ Bundle cables for effective administration.

■ Wide surface protects cable properties.

The Basic **VELCRO®** Brand Fasteners consists of 1-inch wide hook strap and a loop strap fused together. Use to gather cable bundles up to 7.5" diameter.

Length	Color	Max. Bundle Diameter	Catalog No. (10-pk)
22"	black	7.5"	**MCCMV22BK10**
9"	see below	2.5"	**MCCMV9XX10**
5"	see below	1.4"	**MCCMV5XX10**

XX = Color

Insert 2-letter code: **BK**=Black, **BL**=Blue, **YL**=Yellow, **RD**=Red, **PK**=Pink, **OR**=Orange.

Screw-Mount, Reusable Cable Ties

Features/Benefits

■ Organize cable along the 19" mounting rails in cabinets and racks.

■ Simplifies moves, adds, and changes.

Specifications

◆ Maximum bundle diameter: 2.5".

The screw mount fasteners consist of ¾" wide hook strap and loop strap fused together with a buckle at one end. The buckle end of the strap also has a through-hole reinforced with a Steel grommet.

Delivery: One 10-pack of straps.

Length	Color	Max. Bundle Diameter	Catalog No.
9"	black	2.5"	**MCCMV9BS10**
9"	orange	2.5"	**MCCMV9OS10**

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Cable Management Accessories

VELCRO® Brand Vertical Cable Manager

Features/Benefits
- Adhesive backed - mounts directly to rack or cabinet.
- 4 huge adjustable loops safely and securely contains up to 350 Cat 6 cables.

Specifications
- 43" adhesive VELCRO® Brand strip with 23" adjustable VELCRO® Brand loops.

Inexpensively manage cables on relay racks and cabinets.

Catalog. No.	**HVVCM**

VELCRO® Brand "J" Hook

Features/Benefits
- UL-94 Fire-Retardant fasteners.
- Width of VELCRO® Brand J Hook is 1".
- Bundle diameter varies (as the loop formed slides larger or smaller) from 0 to 7.875".
- Sold in packs of 50.
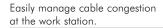
Catalog. No.	**HVJH**

VELCRO® Brand Work Station Manager

Specifications
- 21" adhesive VELCRO® Brand strip with 4" adjustable VELCRO® Brand loops.

Easily manage cable congestion at the work station.

Catalog. No.	**HVVWM**

VELCRO® Brand Pads and Loops

Features/Benefits
- VELCRO® Brand Cable Manager on self-adhesive pad.
- Use for small cable builds.
- Sold in packs of 25.

Catalog. No.	**HVPL**

VELCRO® Brand Saddle Cable Ties

Features/Benefits
- Attach cables to wood surfaces, or relay racks and enclosures.

HVSCTR

HVSCTW

VELCRO®

Width	Length	Max. Loop Diameter	Screw type	Catalog. No.
½"	8"	2.16"/55mm	Rack	**HVSCTR**
½"	8"	2.16"/55mm	Wood	**HVSCTW**

Rack Label Kit

Features/Benefits
- Attaches to Hubbell's Equipment Rack to define rack unit space.

Specifications
- Meets TIA/EIA-606-A labeling administration standards.

Delivery: 3 self-adhesive strips, black label with white lettering (numbers 01 through 60).

Dimensions: 35"H x 0.25"W.

Catalog. No.	**RRLABEL**
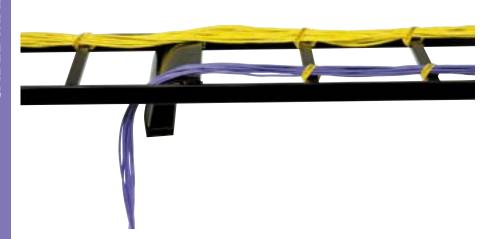
RRLABEL

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HUBBELL

NextFrame

Ladder Rack

HUBBELL

Advantage

■ Modular system - easily configured for new and existing cable routing.

■ Mounts to floors, walls, ceilings, equipment racks, and cabinets.

■ Tip: Secure Ladder to Cabinet tops using J-bolt kit and drilling holes as required.

Specifications

◆ Material: 16 ga. tubular Steel.

◆ Durable powder coat.

◆ Stringer dimensions: 0.375"W x 1.5"H.

◆ Rung spacing: 9.0".

◆ Weight capacity: 45 lbs./foot.

Ladder Rack

Straight Section

Width	Catalog No. Black 6' (1829) Length	Catalog No. Gray 6' (1829) Length	Catalog No. Black 10' (3048) Length	Catalog No. Gray 10' (3048) Length
6" (152)	**HLS0606B**	**HLS0606G**	**HLS1006B**	**HLS1006G**
12" (305)	**HLS0612B** ✓**10G**	**HLS0612G** ✓**10G**	**HLS1012B** ✓**10G**	**HLS1012G** ✓**10G**
18" (457)	**HLS0618B** ✓**10G**	**HLS0618G** ✓**10G**	**HLS1018B** ✓**10G**	**HLS1018G** ✓**10G**
24" (610)	**HLS0624B** ✓**10G**	**HLS0624G** ✓**10G**	**HLS1024B** ✓**10G**	**HLS1024G** ✓**10G**

Please order straight sections in multiples of 10 pieces.
Width = outside to outside dimensions.

90° Turns

Color: Black Width	Inside Radius 90° Catalog No.	Flat Turns 90° Catalog No.	Outside Radius 90° Catalog No.
6" (152)	**HLI0690B**	**HLF0690B**	**HLO0690B**
12" (305)	**HLI1290B**	**HLF1290B**	**HLO1290B**
18" (457)	**HLI1890B**	**HLF1890B**	**HLO1890B**
24" (610)	**HLI2490B**	**HLF2490B**	**HLO2490B**

Color: Gray Width	Inside Radius 90° Catalog No.	Flat Turns 90° Catalog No.	Outside Radius 90° Catalog No.
6" (152)	**HLI0690G**	**HLF0690G**	**HLO0690G**
12" (305)	**HLI1290G**	**HLF1290G**	**HLO1290G**
18" (457)	**HLI1890G**	**HLF1890G**	**HLO1890G**
24" (610)	**HLI2490G**	**HLF2490G**	**HLO2490G**

Width

Butt Splice Kit

Use to splice two sections of
ladder end to end.
Finish: Black powder coat

Catalog No.	**HLBSK**

Cable Radius Drop

Assembled to stringers or rungs to provide
gradual transition for cable.
Finish: Black powder coat

Ladder width	Actual width	Catalog No.
6" (152)	4.5"	**HLCD06***
12" (305)	10.75"	**HLCD12**
18" (457)	16.75"	**HLCD18**
Stringer	7.5"	**HLCDS**

* Can also be mounted on stringer.

Cable Retaining Fence Posts

Use along ladder stringers to maximize
cable routing and management.

Color	Nom. Height	Actual Height	Catalog No.
Black	6"	8.3"	**HLP06B**
Gray	6"	8.3"	**HLP06G**
Black	8"	10.4"	**HLP08B**
Gray	8"	10.4"	**HLP08G**
Black	10"	12.4"	**HLP10B**
Gray	10"	12.4"	**HLP10G**

Ceiling Mounting Kit

Use to hang ladder from ceiling.
Recommended spacing between
hangers is 5'.

Description	Catalog No.
Ceiling Mounting Kit with two 6'x 0.625Ø threaded rods	**HLCMK**
Brackets only	**HLCF**

HLCF

Foot Kit

Use to secure vertical ladder to
floor.
Finish: Black powder coat

Catalog No.	**HLRF**

J-Bolt Kit

Use to secure ladder to brackets.
5/16"Øx18"x3" long.

Catalog No.	**HLJB**

Mounting Kit to Relay Rack

Use to secure ladder rack to top
of 19" or 23" equipment rack.
Not used for 24"W Ladder Rack.

Color	Depth	Catalog No.
Black	5.4"	**HLMPK19**

Protective End Caps

Use to dress ends of stringers and
cable posts. Black, Qty. 2.

Catalog No.	**HLECPK2**

Swivel Splice Kit

Use to splice 2 sections of ladder
at any angle.

Color	Catalog No.
Black	**HLSSK**

T-Junction Splice Kit

Use to connect one section of
ladder perpendicular to another.

Catalog No.	**HLTK**

Triangle Wall Support

Use to run ladder rack along
wall. Recommended spacing: 5'.

Width	Catalog No.
6" (152)	**HLTSB06***
12" (305)	**HLTSB12***
18" (457)	**HLTSB18***
24" (610)	**HLTSB24***

* Add to Catalog No.: 'B' for
Black, or 'G' for gray

Vertical Wall Bracket

Use to secure ladder rack
vertically to wall.
Finish: Black powder coat

Catalog No.	**HLVWBK**

Wall Angle Support

Use to terminate ladder rack to
wall.
Color: Black

Width	Catalog No.*
6-12" (152-305)	**HLX0612**
18" (457)	**HLX1518**
24" (610)	**HLX24**

* Add "G" to Catalog No. for
Gray.

Wall/Rack Mounting Kit

Use to join the top of an
equipment rack to the wall.
Delivery includes: 1 HLMPK19, 1
HLX0612, 1-40" long x 12" wide
ladder section.

Color	Catalog No.
Black	**HLWRK**

Wall Mount Hinged Brackets

HPWWB6U18

HUBBELL
Advantage

- Jumbo openings in sides and rear.
- Bottom hinging uses less space to open.
- Side hinging allows complete access to the rear of components.
- Enhanced cable management - multiple tie-off points for both nylon and **VELCRO**® Brand ties.

Specifications

◆ 16 ga. Steel construction.
◆ Finish: durable black powder coat.
◆ Wall mount holes on 16" centers.
◆ EIA-310-D universal spacing tapped #12-24.
◆ Width: 19".
◆ Load capacity:
  4 and 6 Rack Units: 50 lbs.
  1 and 2 Rack Units: 25 lbs.

Wall Mount Bracket, Bottom-Hinged

HPWWB1U4

HPWWB2U4

HPWWB4U8

Delivery: 1 bottom-hinged wall bracket, completely assembled.

Rack Units	Height	Depth	Catalog No.
1	1.75" (45)	4" (102)	**HPWWB1U4**
2	3.50" (89)	4" (102)	**HPWWB2U4**
2	3.50" (89)	8" (203)	**HPWWB2U8**
4	7.00" (178)	4" (102)	**HPWWB4U4**
4	7.00" (178)	8" (203)	**HPWWB4U8**
6	10.50" (267)	4" (102)	**HPWWB6U4**
6	10.50" (267)	8" (203)	**HPWWB6U8**
6	10.50" (267)	18" (457)	**HPWWB6U18**

Wall Mount Bracket, Side-Hinged

BRMCCMB19X35X4

BRMCCMB19X7X8

Delivery: 1 side-hinged wall bracket, completely assembled.

Rack Units	Height	Depth	Catalog No.
2	3.50" (89)	4" (102)	**BRMCCMB19X35X4**
4	7.00" (178)	4" (102)	**BRMCCMB19X7X4**
2	3.50" (89)	8" (203)	**BRMCCMB19X35X8**
4	7.00" (178)	8" (203)	**BRMCCMB19X7X8**

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HUBBELL
ShieldBond

Grounding and Bonding Solutions

Telecom Grounding Bar

Delivery: 12" x 4" x .25" solid copper bus bar (¼"-20 tapped 20 places), Red GFRP isolating standoffs, (2) .063" thick Stainless Steel standoff brackets, (4) 3/8"-16 x.625" hex head bolts and lock washers

Catalog No.   **RKTGB**

19" Rack Mount Ground Bar
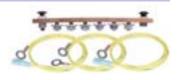
Delivery: 19" x 1" solid copper bar, (2) #12-24 mounting screws and isolating hardware, (2) #10-32 mounting screws and isolating hardware

Catalog No.   **MCCGBAR**

Wall Mount Cabinet Ground Kit

Delivery: Ground bar with ¼"-20 male studs, (2) ¼"-20 carriage bolts and isolating hardware, (2) ground straps

Catalog No.   **REKGB**

Economy Ground Strap Kit

Delivery: 1 Ground strap with connectors attached

Catalog No.   **REKEGS**

Telecom Bonding Conductor

Delivery: 7" x .625" universal ground clamp (18ga copper), ¼"-20 copper hex nut and brass flat washer, (1) ¼"-20 copper ground stud, (1) brass bell cap, Solderless ground lug with #12 thru-hole, (1) #12-24 x .625" #3 Philips combo machine screw with dog point, (2) #12 ground washers, 15 ft. piece of solid #6 ground wire

Catalog No.   **RKG**

500A Braided Strap

Material: Tin-plated braided copper.
Delivery: (10) 15" long straps, (10) kits mounting hardware

Catalog No.   **HPWCGPK10**

Bonding Connector

Delivery: 100 **SHIELDBOND®** connectors, 1 Field installation tool kit

Catalog No.   **BC285SB100**

Deluxe Cord Grips

Aluminum Fittings, Stainless Steel Mesh, Liquidtight, for Insulated Cables.

Straight Male Thread

Grip Diameter Range		Thread Size	Form	
Inches	(cm)	N.P.T. (Inches)	Size	Catalog No.
.375"-.500"	(.95-1.27)	½	F2	**07401008**
.500"-.625"	(1.27-1.59)			**07401010**
.625"-.750"	(1.59-1.90)	½	F3	**074011247***
.750"-.875"	(1.90-2.22)			**074011248***
.375"-.500"	(.95-1.27)	¾	F2	**07401015**
.500"-.625"	(1.27-1.59)			**07401017**
.625"-.750"	(1.59-1.90)	¾	F3	**07401018**
.750"-.875"	(1.90-2.22)			**074011249***
.375"-.500"	(.95-1.27)			**074011195**
.500"-.625"	(1.27-1.59)			**07401019**
.625"-.750"	(1.59-1.90)	1	F4	**07401021**
.750"-.875"	(1.90-2.22)			**07401023**
.875"-1.000"	(2.22-2.54)			**07401025**
1.000"-1.125"	(2.54-2.86)			**074011250***

* Cable jacket may have to be stripped to pass through connector body.
Kellems® Deluxe Cord Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 and 2, Class III Div. 1 and 2 of the National Electric Code Sections 501-4(b), 502-4(a), 502-4(b), 503-3(a) and 503-3(b).

Read This Data
It is important that you read all breaking strength, safety and technical data relating to the product at:
www.hubbell-wiring.com

Aluminum Body
Aluminum Compression Nut
Tapered Threads
Stainless Steel Mesh
Aluminum Collar
Neoprene Bushing

HUBBELL

iFrame **Data Center Solutions**

iFRAME® Network Hardware Management System

iFRAME® Network Cabinet

Address Major Data Center Issues:

Airflow

Security

Space Utilization

Response Time

Administration

Appearance

iFRAME® Network Hardware Management System shown with ICKC C6A rear cable management kit.

HUBBELL

Advantage

- ■ Greater Than 15% Improvement in Floor Space Utilization Over Traditional Alternatives.

- ■ Components of Infrastructure System Mate Logically and Easily Streamlining Installation.

- ■ Grounding and Bonding Simplified.

- ■ Stylized Look to Enhance the Appearance of the Equipment Room.

- ■ **iFRAME**® System Designed to Optimize Airflow and Minimize Power Consumption.

Solutions for Each Area of the Data Center

Product	Type of System	Load Capacity	Recommended Application	Page
Network Hardware Management System	Open	1400 lbs.	Servers, switches, patch panels and other open network applications.	H4
Server Cabinet	Enclosed	1000 lbs.	Servers	H8
Network Cabinet	Enclosed	1000 lbs.	Switches, panels and other cable intense network equipment.	H10
Vertical Patch Panel			Use with Hubbell's High Bandwidth and Pre-terminated copper and fiber systems.	H9
Power Distribution			Power to servers and network equipment.	H34

iFRAME® Streamlines Cable Management

Cable management is the single biggest issue installers and users of network gear have with any cabinet, **iFRAME®** Solutions provide a comprehensive solution for routing, organizing and updating cable. By defining cable pathways and entry points, by moving the frame components out of the way of the cable and by providing vastly more vertical cable management options than any other manufacturer, Hubbell **iFRAME®** Solutions eliminate cable management headaches.

Vertical Cable Management Options:

1. Snap in Spools (ICKSS or ICKSS9 - see page H6), snap to cabinet frame, vertical organizers and **iFRAME®** Columns.

2. Vertical Cable Management Rings (HC26VR2 - see page G14) use on cabinet or rack uprights.

3. **NEXTFRAME**® Vertical Channels (i.e., XS1010, XS1510, VS76H, VS76, VS73 - see pages G6 through G9) use on racks or between cabinets without side covers.

4. Internal Vertical Organizer (H1KV80, H1KV84 - see page H11) fits within cabinet frame to provide a cable path with flush or wide covers.

5. Vertical Patch Panel (VPH - see page H9) use with Server Cabinet.

6. Network Cabinet 3" wide Side Cover conceals cable (see page H13).

Three Layers of Protection for iFRAME® Cabinets

Nothing is more frustrating on the job site than receiving a cabinet and discovering it has been damaged in shipment. **iFRAME®** Enclosures offer the industry's best level of protection against shipping damage. No other off-the-shelf cabinet comes with three levels of protection to protect against abrasion, impact, and puncture.

Cabinet bolted to heavy duty skid and wrapped in heavy gauge plastic to protect against abrasion.

Cabinet enclosed in wooden frame to protect against all but the most severe impact.

Double-wall corrugated wrap protects cabinet against puncture.

Instructions for unpacking cabinet clearly visible on every iFRAME® cabinet purchased.

Data Center Solutions

HUBBELL
iFrame

Network Hardware Management System

Ultra strong columns mount every 2 feet

- Aligns with floor and ceiling grid.
- Cables run within each column.
- Equipment mounted between columns.
- Each additional column in a row forms a rack bay.

Superior appearance

- Eliminates "garbage collector".
- Cable routing spools conceal cable.
- Streamlined covers.

Ultimate Ease-of-Use

- Cover hinges to both left and right.
- Spools can be located as needed.
  - Maintains bend radius.
  - Aligned with rack positions - does not interfere with horizontal cable organizer.

Installation is a snap

- Just bolt the columns to the floor every 2'*, then screw the top plate in place.

* For 5" wide column.

Specifications

- ◆ Material: 14 ga. Cold Rolled Steel.
- ◆ Finish: durable black powder coat.
- ◆ Suitable for 400 front and 400 rear UTP cables.
- ◆ Static load capacity: 1,400 lbs.

RoHS

HUBBELL Advantage

- ■ Unique, Patented System Integrates Grounding and Bonding, Power Distribution, Cable Management, and Equipment Racking.

- ■ 80% Fewer Parts than Standard Rack to Order and Assemble - Requires Only One Tool.

- ■ Greater Than 15% Improvement in Floor Space Utilization Over Traditional Alternatives.

- ■ **iFRAME**® System Designed to Optimize Airflow and Minimize Power Consumption.

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iFRAME® Column

There is no mixing and matching of parts, hoping that they go together. Just bolt the columns to the floor and screw the top plate in place. To make installation foolproof, each column includes a floor mounting template and locating plates. The top mounting plate suspended between columns doubles as a ladder rack mounting plate. The bottom plate makes columns self-squaring.

Delivery:

1	**iFRAME®** column weldment	1	Bottom alignment installation aid and
1	**iFRAME®** top plate		floor template
1	Full height front cover with	4	Heavy-duty floor anchor washers
	dual-acting hinges*	20	#12-24 x 5/8" dog point machine screws
4	Gates, 4" (ref. Catalog No. VCG4)		and washers
2	Dual-acting front cover hinges*	12	Snap in place cable routing spools
1	Kit assembly hardware		

* Not included in IS7E.

Rack Units	Height Overall	Usable	Width	Rail Depth	Overall Depth	Color	Catalog No.
19	3'	35.0"	5"	3"	14.17"	Black	**IS3**

Use: Without Raised Floor

Rack Units	Height Overall	Usable	Width	Rail Depth	Overall Depth	Color	Catalog No.	
45	7'	78.8"	10"	3"		Black	**IS710**	✓10G
45	7'	78.8"	15"	3"		Black	**IS715**	✓10G
45	7'	78.8"	5"	3"	14.17"	Black	**IS7**	

Use: With Raised Floor up to 12" High

Rack Units	Height Overall	Usable	Width	Rail Depth	Overall Depth	Color	Catalog No.	
45	8'	78.8"	5"	3"	14.17"	Black	**IS7RF**	
45	8'	78.8"	10"	3"		Black	**IS7RF10**	✓10G

Use: With Raised Floor up to 12"-18" High

Rack Units	Height Overall	Usable	Width	Rail Depth	Overall Depth	Color	Catalog No.
45	7'	78.8"	5"	3"	14.17"	Black	**IS7RF18**

Use: With Raised Floor up to 12" High - Square Holes with Cage Nuts

Rack Units	Height Overall	Usable	Width	Rail Depth	Overall Depth	Color	Catalog No.	
45	7'	78.8"	5"	3"	14.17"	Black	**IS7RFM6**	
45	8'	78.8"	10"	3"		Black	**IS7RFM610**	✓10G

Use: Square Holes with Cage Nuts

Rack Units	Height Overall	Usable	Width	Rail Depth	Overall Depth	Color	Catalog No.	
45	7'	78.8"	5"	3"	14.17"	Black	**IS7M6**	
45	7'	78.8"	10"	3"		Black	**IS7M610**	✓10G

Use: As the Rear Columns in 4-post Applications

Rack Units	Height Overall	Usable	Width	Rail Depth	Overall Depth	Color	Catalog No.
45	7'	78.8"	5"	3"	14.17"	Black	**IS7E**

NOTES:

1. Two columns must be ordered for the first rack in a line. Only one column needs to be ordered for each additional rack.

2. See www.hubbell-premise.com for videos demonstrating assembly and use of **iFRAME®** *Network Hardware Management System.*

IS7
Shown:
door open   door closed

Shown:
door open   door closed

IS3

Spacer Kit, 23"

Use for 23" rack mount applications. This kit contains the spacer brackets needed when setting columns for 23" spacing.

Delivery: 1 top for 23" column spacing, 1 bottom for 23" column spacing.

Color	Catalog No.
Black	**ICK23**

ICK23

HUBBELL
iFrame Accessories

Top Ladder Rack

Use to provide an overhead pathway for cable between columns.

Dimensions
• Ladder: 2' long x 12" wide.
• Stringer: 1½" x 3/8".

Color	Catalog No.
Black	**ICKL**

Features/Benefits
- ■ 100% compatible with 12"W ladder.
- ■ Integrated cable radius drops.
- ■ No splices required.
- ■ Eliminates field cutting of ladder and overhead assembly.
- ■ Pre-drilled to accept 4" square work box.

Category 6A Rear Cable Management Kit

ICKC shown installed.

Features/Benefits
- ■ Allows lacing of horizontal cable in bundles to simplify termination and minimize scrap cable.
- ■ Provides high volume of cable capacity.
- ■ Provides accessible mounting surface for vertical power strips.

The rear cable management kit simplifies the process of pulling, lacing, and terminating horizontal cable.

Delivery:	2	12"W x 6'L ladder rack sticks (Catalog No. HLS0612B)
	1	12"W x 24"L **iFRAME**® top ladder
	1	27"W x 24"L **iFRAME**® top ladder
	1	Wall mounting kit (Catalog No. HLX0612)
	1	T-splice kit (Catalog No. HLTK)
	1	Kit mounting brackets

Color	Catalog No.
Black	**ICKC** ✓**10G**

Cable Management Spools

ICKSS

Assembles as needed along each column to further route and conceal cable.

Features/Benefits
- ■ Snap locks into column.
- ■ Use every 1U to achieve duct style manager.
- ■ Locate as needed to route cable to put wherever needed.

Specifications
- ◆ Material: Polycarbonate (ABS)
- ◆ Finish: Black.
- ◆ Maintains T568-A compliant bend radius as cable transitions from horizontal to vertical.

Description	Catalog No.
Package of 50 spools 3", black	**ICKSS** ✓**10G**
Package of 50 spools and screws, 9", black	**ICKSS9** ✓**10G**

Power Kit

ICKP20

Mounts to ICKL to provide power to equipment bay.

Delivery:	1	4" square work box
	1	20A receptacle L5-20R - **TWIST-LOCK**®
	1	Face plate
	1	Assembly hardware kit

Description	Receptacle Color	Receptacle	Catalog No.
iFRAME® Power Kit	Black	HBL2310	**ICKP20**
iFRAME® Power Kit with Isolated Ground	Orange	IG2310	**ICKP20IG**

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HUBBELL
iFrame **Accessories**

4-Post Rack Kit

For 4-Post applications. This kit contains a set of adjustable front/rear tool-less spacer brackets for use when setting columns in 4-post configurations.

Delivery: 2 Adjustable brackets for spacing columns front to rear
          1 Assembly hardware kit

Description	Catalog No.
For 27" to 39" equipment mounting depth.	**ISK4P**

Power Strip Mounting Brackets for 5" Wide iFRAME® Columns

Features/Benefits

■ Sets power strip ~12" away from column toward rear to separate from data cabling and conveniently locates receptacles near rear of active equipment.

■ Power strip swivels to allow user to face receptacles in desired direction.

This kit provides mounting for Hubbell standard 66" tall vertical power strips.

Delivery: 2 Mounting brackets
          1 Assembly hardware kit

Catalog No.	
	ICKPM

Cover Kit

Features/Benefits

■ Hinges to both left and right.
■ Quick, tool-less assembly.
■ Conceals cable for neat appearance.

Use to replace or add a front cover.

Delivery: 1 cover, 2 reversible hinges.

Column Width	Spool Height	Catalog No.	
5	3	**ISKC7**	
5	9	**ISKC796**	✓10G
10	9	**ISKC7910**	✓10G
15	9	**ISKC7915**	✓10G

See page H14-H17 for more accessories.

HUBBELL
iFrame Server Cabinet

Designed for Hot Aisle/Cold Aisle Cooling

Two layer top cable pathways

Integrated Waterfalls and cable routing spools

Traditional Server Cabling
- Snap in spools can be located at every rack position.
- Facilitate routing cords to traditional patch panel.

Vertical Patch Panel
- Places two or three data ports at each rack positions.
- Reduces up to 1000 feet of cable in fully loaded cabinet.
- Drastically improves airflow.
- Double door opens to reveal large cable channel.

3-phase Power Distribution
- Improves airflow by reducing wire count below the raised floor.
- Optimizes use of site PDU breaker panel.

Specifications
- ◆ EIA-310-D Compliant.
- ◆ Construction
  - Frame: 14 ga. welded Steel.
  - Mounting rails: square holes for M6 cage nuts.
  - Side covers: 16 ga. Steel.
- ◆ Static load capacity: 1,000 lbs.
- ◆ Finish: Durable black powder coat.
- ◆ Rack labels identify U positions on all four rack uprights.

RoHS

HUBBELL
Advantage

- ■ Recessed Uprights Optimize Airflow, Cable Management and Administration.

- ■ Dedicated Cable Paths, Entry Points for the Industry's Best Cable Management Solution.

- ■ Clean Look Enhances the Appearance of the Equipment Room.

- ■ In-Frame Design Optimizes Airflow and Minimizes Power Consumption.

Server Cabinets

Delivery:
- 1 Frame
- 4 19" Mounting rails (square holes with M6 cage nuts)
- 2 Perforated doors, center opening
- 2 Side panels, flush
- 1 Kit of 20 M6 cage nuts, screws and washers

Finish: Durable powder coat, black.

Description	Rack Units	Height	Width	Depth	Catalog No.	
Server Cabinet, 80"H	43	80"	24"	42"	**H1E80E**	10G
Server Cabinet, 80"H, without sides	43	80"	24"	42"	**H1E80EX**	10G
Server Cabinet, 80"H	43	80"	24"	36"	**H1E80ED**	10G
Server Cabinet, 80"H, without sides	43	80"	24"	36"	**H1E80EDX**	10G
Server Cabinet, 80"H	43	80"	24"	44"	**H1E8044E**	10G
Server Cabinet, 80"H, without sides	43	80"	24"	44"	**H1E8044EX**	10G

Vertical Patch Panel

Use Hubbell's **iFRAME**® Vertical Patch Panel in the rear of server cabinets to provide an efficient and structured connection to servers and storage equipment.
Order connection modules separately.
Material: 16 ga. Cold Rolled Steel.
Finish: Durable metallic silver powder coat.
Delivery:
- 1 70" section
- 2 Rolls of 10 VELCRO® brand ONE-WRAP® cable ties
- 1 Kit installation hardware
- 8 #12 attachment screws

Description	No. of Data Module Locations	No. of Utility Module Locations	Catalog No.
iFRAME® Vertical Patch Panel for Hubbell iFRAME® Server Cabinet	15	42	**VPH**

Data Modules for Vertical Patch Panel

	Data Module	# Ports/module	Panel Use	Catalog No.
	10GbE (55m) Module, 6-port	6	Fits into Vertical Patch Panel data module opening for use with Cat 6 UTP (10GbE - TSB-155)	**VPPC6**
	Blank Covers (10-pack)	0	Covers unused Data Module Openings	**VPMB**
	iSTATION™ Module Bezel	8	Each bezel (VPMI) accepts 4 two-port modules (IM2K1GY), which snap into VPMI for data applications where individual jacks are desired (color coding, 10GbE).	**VPMI**
	iSTATION™ Module, 2-port, gray	2	Each module accepts 2 HXJ jacks or AV inserts and snaps into VPMI.	**IM2K1GY**
	1GbE Data Module (25-pair)	6 port module	Fits into Vertical Patch Panel Data Module opening to terminate 25 pair 1GbE cable assembly. See page D10 for panels and jumpers.	**VPP1G**

VELCRO® and ONE-WRAP® are registered trademarks of Velcro Industries B.V.

HUBBELL
iFrame

Premise Networking Cabinet

Mates with 12" wide Ladder
• Holes in top of frame to J-bolt ladder to top of cabinet.

Unimpeded Cable Flow
• Into the cabinet - top and bottom.
• Vertically along the four corners where the cable is most likely to go.
• Front to rear - along the sides.
• Double door opens to reveal large cable channel.

Can be used with front-rear or side-side airflow

Integrated Waterfalls

Snap in cable routing spools
• Route and guide cable on the top.
• Snaps at every U along the vertical uprights.

Optional Top
• Facilitates cable entry and routing.
• Keeps cable clear of fan tray exhaust.
• Provides two layer top cable pathways.

Optional Locks for Side Covers

Specifications
◆ EIA-310-D Compliant.
◆ Construction
  • Frame: 14 ga. welded Steel.
  • Tapped rails: 11 ga. Steel, tapped #12-24.
  • Side covers: .06 Aluminum.
◆ Static load capacity: 1,000 lbs.
◆ Finish: Durable black powder coat.
◆ Rack labels identify U positions on all four rack uprights.

RoHS

HUBBELL
Hlabel

Compatible with **Hubbell Labeling System** - see page M8.

HUBBELL
Advantage

■ Recessed Uprights Out of the Way of Cable and Patch Cords.

■ Dedicated Cable Paths, Entry Points for the Industry's Best Cable Management Solution.

■ Clean Appearance Enhances the Appearance of the Equipment Room.

■ In-Frame Design Optimizes Airflow and Minimizes Power Consumption.

Premise Networking Cabinets

RoHS

Delivery: 1 Frame
           4 19" Mounting rails (#12-24)
           1 Kit of 20 screws, #12-24 x 5/8
           2 Perforated single doors
           2 Side panels, 3" wide

Finish: Durable powder coat, black.

Description	Rack Units	Height	Width	Depth	Catalog No.	
Premise Networking Cabinet, 84"H	45	84"	30"	32"	**H1N84E**	✓10G
Premise Networking Cabinet, 84"H, without sides	45	84"	23.94"	32"	**H1N84X**	✓10G
Premise Networking Cabinet, 80"H	43	80"	30"	32"	**H1N80E**	✓10G
Premise Networking Cabinet, 80"H, without sides	43	80"	23.94"	32"	**H1N80X**	✓10G
Premise Networking Cabinet, 84"H	45	84"	30"	36"	**H1N84ED**	✓10G
Premise Networking Cabinet, 84"H, without sides	45	84"	23.94"	36"	**H1N84XD**	✓10G
Premise Networking Cabinet, 80"H	43	80"	30"	36"	**H1N80ED**	✓10G
Premise Networking Cabinet, 80"H, without sides	43	80"	23.94"	36"	**H1N80XD**	✓10G

Cable Management Accessories

Service Loop Storage

RoHS

Includes 1 Mounting Plate, 4 snap in spools, 1 kit mounting hardware.
NOTE: Cannot be used with flush side covers.
Catalog No. **H1KSL** ✓10G

Top Plate

RoHS

Optional Top:
• Facilitates cable entry and routing.
• Keeps cable clear of fan tray exhaust.
• Provides two layer top cable pathways.

Includes 1 Mounting Plate, 4 snap in spools, 1 kit mounting hardware. Accepts 12" wide ladder.
Catalog No. **H1KT** ✓10G

Vertical Pathway

RoHS

Fits within cabinet frame to provide a vertical pathway for cable. Can be used with either flush or 3" wide side panels. Clips into place, location can be adjusted front to rear.

Description	Catalog No.	
For 80" Cabinet	**H1KV80**	✓10G
For 84" Cabinet	**H1KV84**	✓10G

Snap In Spools

RoHS

Includes 50 snap in spools.
Snap to cabinet uprights, Top Plate, and Service Loop Storage Plate for infinite cable routing options.

	Catalog No.	
3" black	**ICKSS**	✓10G
9" black	**ICKSS9***	✓10G

* For Server Cabinet only.

HUBBELL
iFrame
Customer Configured Cabinet

Choose from 4 Depths by the Extension Kit You Select:
- 32": For most networking applications.
- 36": To match Legacy server cabinets or for deep network equipment.
- 42": For server applications.
- 44": For server applications.

Choose from 2 Widths by the Side Cover You Select:
- 24": For most server applications.
- 30": Provides best cable management.
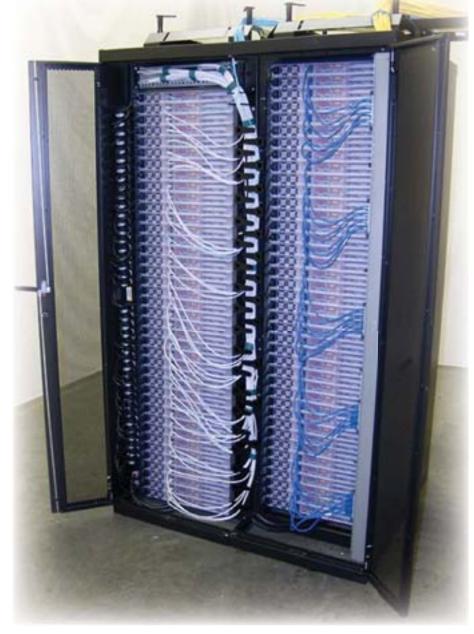
Choose the Best Door for You:
- Perforated: 68% open area provides excellent ventilation and visibility of network gear.
- Solid: Doors have removable plates allowing mounting of fan trays to actively exhaust warm air behind servers.
- Window: Large viewing area reveals entire front surface of equipment.
- Split/Center Opening: Great for tight aisles.
- Side Hinged: Simple, unobstructed view/ventilation.

Other Options Include:
- 19" mounting rails.
- Rack unit identification labels.
- Cable management accessories.
- Cooling accessories.
- Shelves.

Specifications
- ◆ EIA-310-D Compliant.
- ◆ Construction
  - Frame: 14 ga. welded Steel.
  - Tapped Rails
    - 11 ga. Steel tapped #12-24.
    - 14 ga. Steel with square holes for M6 cage nuts.
  - Side Covers
    - Flush: 16 ga. Steel.
    - 3" wide: .06 Aluminum.
- ◆ Static load capacity: 1,000 lbs.
- ◆ Finish: Durable black powder coat.
- ◆ Rack labels identify U positions on all four rack uprights.
- ◆ Components ship separately for field assembly.

HUBBELL
Advantage

✓10G

- ■ Build a Cabinet Tailored Specifically for Your Application.

- ■ Dedicated Cable Paths, Entry Points for the Industry's Best Cable Management Solution.

- ■ Clean Look Enhances the Appearance of the Equipment Room.

- ■ In-Frame Design Optimizes Airflow and Minimizes Power Consumption.

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Customer Configured Cabinets

iFRAME® Cabinet Frame

Description	Height	Catalog No.
iFRAME® Cabinet Frame, 84"H	84" (2134)	**H1F84**
iFRAME® Cabinet Frame, 80"H	80" (2032)	**H1F80**

19" Equipment Mounting Rails

Choose between #12-24 tapped rails or square holes for M6 cage nuts. Use split rails to optimize use of rack space. Lower set (80" = 26U / 84" = 28U) has square holes and can be set for deep servers. Upper set (17U) has tapped #12-24 holes and can be set for patch panels and horizontal organizers.

Delivery: 1 set of 2 rails. Order equipment mounting hardware and rack labels separately.

Description	Catalog No. For 80"H Cabinet 43 Rack Units	Catalog No. For 84"H Cabinet 45 Rack Units
Mounting Rails tapped #12-24	**H1KT80**	**H1KT84**
Mounting Rails with square holes for M6 cage nuts	**H1KR80**	**H1KR84**
Split Mounting Rails	**H1KSR80**	**H1KSR84**

H1F84

Shown with rails and extensions not included, order separately.

Doors and Side Covers

Doors

Door Style	Hinge Type	80" Cabinet Catalog No.	84" Cabinet Catalog No.
Perforated	Single Side Hinged	**H1D801P**	**H1D841P**
	Split/Center Opening	**H1D802P**	**H1D842P**
Window	Single Side Hinged	**H1D801W**	**H1D841W**
	Split/Center Opening	**H1D802W**	**H1D842W**
Solid	Single Side Hinged	**H1D801X**	**H1D841X**
	Split/Center Opening	**H1D802X**	**H1D842X**

H1D801X   *H1D801P*   *H1D802W*

Side Covers

Style	Resulting Cabinet Width	Cabinet Depth	80" Cabinet Catalog No.	84" Cabinet Catalog No.
Flush	24" (610)	32"	**H1S8032F**	**H1S8432F**
	24" (610)	36"	**H1S8036F**	**H1S8436F**
	24" (610)	42"	**H1S8042F**	**H1S8442F**
	24" (610)	44"	**H1S8044F**	**H1S8444F**
3"	30" (762)	32"	**H1S8032W**	**H1S8432W**
	30" (762)	36"	**H1S8036W**	**H1S8436W**
	30" (762)	42"	**H1S8042W**	**H1S8442W**
	30" (762)	44"	**H1S8044W**	**H1S8444W**

H1S8036W   *H1S8036F*

Enclosure Accessories

Waterfall/Extension Kit

RoHS

Use to define cabinet depth.
Includes 2 top extensions, 2 bottom extensions, 1 kit of mounting hardware.

Description	Catalog No.
4" Extension Kit (32" resulting cabinet depth)	**H1KX4**
6" Extension Kit (36" resulting cabinet depth)	**H1KX6**
9" Extension Kit (42" resulting cabinet depth)	**H1KX9**
10" Extension Kit (44" resulting cabinet depth)	**H1KX10**

H1KX4

Equipment Shelf, Telescopic

RoHS

Features/Benefits

■ Provides a slide out surface featuring rear access.

Specifications

◆ Material: 16 ga. Steel.
◆ Finish: Durable powder coat.

For use with Server cabinets. Dimensions: 16.5"W x 29.2"D. Load capacity: 200 lbs.

Delivery: 1 shelf pre-assembled with telescopic slides and 2 kits mounting hardware.

Color	Catalog. No.
Black	**CKTSD**

Equipment Shelf, Stationary

RoHS

Features/Benefits

■ Ideal for monitors, modems, external drives and manuals.
■ Perforated for ventilation.

Specifications

◆ Material: 16 ga. Steel.
◆ Finish: Durable powder coat.
◆ Load capacity: 200 lbs.

For use with Server cabinets. Dimensions: 17.7"W x 29.2"D.

Delivery: 1 shelf, 1 kit mounting hardware.

Color	Catalog. No.
Black	**CKSSD**

Equipment Shelf, Stationary, Perforated

RoHS

Features/Benefits

■ Ideal for monitors, modems, external drives and manuals.
■ Perforated for ventilation.

Specifications

◆ Material: 16 ga. Steel.
◆ Dimensions: 17.9"W x 24.13"D.
◆ Load capacity: 200 lbs.

Delivery: 1 shelf and 1 kit mounting hardware.

Color	Catalog. No.
Black	**MCCPSHLF**

Equipment Shelf, Telescopic

RoHS

Features/Benefits

■ Provides a slide out surface for equipment where rear access is crucial.

Specifications

◆ Material: 16 ga. Steel.
◆ Dimensions: 16.75"W x 22"D.
◆ Load capacity: 85 lbs.

Delivery: 1 shelf, 1 pair telescopic slides and 1 kit of mounting hardware.

Color	Catalog. No.
Black	**MCCTELSHLF**

Enclosure Accessories

Mobile Base

Features/Benefits

- Pre-assembled.
- Leveling feet to level cabinet and lock in place.

Specifications

- Material: 16 ga. Steel.
- Finish: Durable powder coat.
- Dimensions: 3.89"H x 24"W x 42"D.
- Weight capacity: 1,000 lbs.

Bolts to the bottom of Premise Networking and Server cabinets.

Delivery: 1 base, 4 swivel casters, 4 adjustable feet and 1 kit mounting hardware.

Color	Catalog. No.
Black	**H1KMB**

Description	Catalog. No.
Caster Kit	**H1KC**
Levelling Kit	**H1KL**

Fan Kits

Features/Benefits

- Increases ventilation.

Delivery: 1 fan tray assembly, 2 fans, wired, 1 kit mounting hardware.

Description	Catalog No.
Fan kit, 114 CFM, 120VAC, 60Hz, 36dBA	**HWKF120**
Fan kit, 114 CFM, 230VAC, 50Hz, 36dBA	**HWKF230**

For use with Premise Networking and Server cabinets.

Delivery: 1 fan, 1 wire guard, 4 lock nuts, screws, washers, 1 cord with plug, 6'.

Description	Catalog. No.
Blank plate with 1-4" fan/PVC conduit cut-out	**H1KB**
4" Fan, 57 CFM, 120VAC, 60Hz, 36dBA	**REKEF**

HWKF120

H1KB

REKEF

Enclosure/Rack Accessories

Equipment Shelf, Cantilevered

RoHS

MCCCS19

MCCCS19P

Features/Benefits

- For lighter equipment such as hubs or modems.
- Mount upside down to create a work surface.
- Ideal for servers, monitors, or other equipment.

Specifications

- Material: 16 ga. Steel.
- Finish: Durable powder coat.
- Load capacity: 50 lbs.

For use in all 19" cabinets and racks.
Delivery: 1 shelf and 4 HPW screws.

Description	Dimensions	Color	Catalog. No.
Solid	3.5"H x 17"W x 14"D	Black	**MCCCS19**
Perforated	3.5"H x 17"W x 14"D	Black	**MCCCS19P**

Equipment Shelf, Center-Weighted

RoHS

Features/Benefits

- Ideal for servers, monitors, and other heavy equipment.

Specifications

- Material: 16 ga. Steel.
- Finish: Durable powder coat.
- Load capacity: 75 lbs.

For use in Equipment Racks. Dimensions: 3.5"H x 17"W x 19"D.
Delivery: 1 shelf and 4 HPW screws.

Color	Catalog. No.
Black	**MCCCWS19**

Equipment Shelf, Heavy Duty

RoHS

Features/Benefits

- Heavy duty storage applications.

Specifications

- 200 lb. load capacity.
- Material: 16 ga. Cold Rolled Steel.
- Finish: Durable powder coat.

For use in 19" equipment racks and iFRAME column system.
Dimensions: 7"H x 19"W x 20"D.
Delivery: 2 shelves and 8 HPW screws.

Color	Catalog. No.
Black	**MCCCWS19HD**
Aluminum	**MCCCWS19HDA**

19" Filler Panels

RoHS

MCCBP175

MCCBP350

MCCBP700

Features/Benefits

- Rolled top and bottom edges.

Specifications

- Material: Steel.
- Finish: durable black powder coat.

Delivery: 1 panel and 4 HPW screws.

Height	1.75"H (1U)	3.50"H (2U)	7.00" H (4U)
Flat Catalog No.	**MCCBP175**	**MCCBP350**	**MCCBP700**
Angled Catalog No.	**ABP**	-	-

Enclosure/Rack Accessories

Thermostat

Delivery: 1 thermostat, 1 adhesive-backed mounting bracket, 1 wiring harness.

Catalog. No.	**CTK**

Cabinet Light, Motion Detector

For use with all cabinets.
Delivery: 1 light, 1 14W fluorescent light bulb, 1 drop light hook, 1 holder, 1 power cord, 1 lamp base, 1 assembly kit with mounting bracket.

Description	Catalog. No.
Motion Detector	**CLKM**
Switch	**CLKS**

Cabinet/Rack Label Kits

Use to identify and number rack spaces.

Catalog. No.	**RRLABEL**

Laser-printable label sheets and label holders.
Delivery: Package of 10, 8.5" x 11" paper sheets x 10 labels/sheet.

Description	Catalog No.
Rack Labels, 1"x6"	**XPLRC10W**
Rack and cabinet label holder (pack of 10)	**XPHRC10**

XPHRC10

RRLABEL

Joining Kits

Use to join Premise Networking or Server cabinets side-by-side.
Delivery: 6 each of the following: ¼"-20 x ½" hex bolts, ¼" lock washers, ¼" flat washers, ¼"-20 hex nuts.

Catalog. No.	**HPWJKIT**

Mounting Hardware

For mounting 19" equipment in Equipment Racks and Wall Mount Cabinets.
Delivery: Bag of 20 each #12-24 x 5/8" pan head Phillips black screws.

Catalog. No.	**1224RRSCRW20**

For mounting 19" equipment in Server Cabinets.
Delivery: Bag of 100 each M6 cage nuts, M6 screws, M6 washers.

Catalog. No.	**CKM6**

ZONE CABINET SOLUTIONS

Location Options
• On Wall
• In Wall
• Ceiling
• Raised Access Floors

Protection Options
• Remote Commercial Environments
• UL Type 3R
• UL Type 4/12/13
• UL Type 4X

Application Options
• Broad Range of Accessories
• Supports Wide Range of Equipment
• Ceiling
• Raised Floors

HUBBELL
Advantage

■ Innovative Designs Deliver Load Capacity, Protection and Aesthetics.

■ Modular Designs Simplify Installations in Tough Locations.

■ Versatile System Adapts to Many Environments and Applications.

■ Zone Cabling Results in Less Abandoned Cable.

14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

Application Guide

Mounting	Environmental	Application	Equipment	Load	Page	Comments	
On-Wall	HARSH e1, e2, e3	Telecommunications Enclosure	Patch Panels Switches Punch-Down Blocks	N/A	H24	Great for deploying network equipment in harsh environments. Low-profile, Type 3R, 4, 12, 13 and 4X versions.	
	Remote Commercial	Telecommunications Enclosure	Patch Panels Switches Punch-down Blocks AV Connections	100 lbs.	H22	Ideal for classroom and office. Sleek appearance. Low profile, tamper-resistant.	
	Commercial	Telecommunications Enclosure	Patch Panels Switches Punch-down Blocks AV Connections 12-port Modules Fiber Adapters	400 lbs.	H20	Suitable for TRs for medium and large offices. Large size and double hinging.	
	Commercial	Telecommunications Enclosure	Wireless Access Points	N/A	H33	Suited to provide security for wireless access points located in uncontrolled locations.	
In-Wall	Commercial	Consolidation Point	Patch Panels Punch-down Blocks AV Connections 12-port Modules Fiber Adapters	N/A	H31	Great for consolidation points serving small office areas.	
Raised Access Floor	Commercial	Consolidation Point	Patch Panels	N/A	H32	High port count consolidation point in large open offices or computer rooms with raised floors.	
Ceiling	Commercial	Telecommunications Enclosure	Wireless Access Points	N/A	H33	Suited to provide security for wireless access points (including the Cisco® Aeronet 1200) located in uncontrolled locations.	
	Commercial	Telecommunications Enclosure	Patch Panels Switches 110 Blocks	N/A	H32	Ideal for classroom and office environments where wall space is at a premium.	

HUBBELL
QuadCab

Wall Mount Cabinets

Adjustable Rails
from front to rear - notched for easy location.

Dedicated Bonding Points
speed grounding and installation.

Specifically Designed with Multiple Options to Mount
to plywood backboards, steel and wood studded walls, cinder block and concrete walls.

Vented Sides for active equipment. Optional filters available.

Structured Cable Routing
between front and rear sections.

Raceway Knockouts
simplify conduit connection.

HUBBELL
Hlabel
Compatible with
Hubbell Labeling System - see page M8.

Specifications

◆ 400 lb. load capacity.
◆ Material:
   Rear section, center section: 14ga. Cold Rolled Steel.
   Top/bottom hinge cover panel: 11 ga. Cold Rolled Steel.
   Front door: 18 ga. Cold Rolled Steel.
   Hinged mounting plates (rear door): 11 ga. Cold Rolled Steel.
◆ Finish: powder coat black.
◆ 19" rack-style rails tapped #12-24 per EIA-310-D.
◆ Grounding provisions per TIA-607.
◆ Acrylic window tinted smoke gray.
◆ 16" stud mounting.
◆ Front door and rear locks both keyed alike with key #CH751.
◆ Knockouts: 4 @ 2½"-3"; 3 @ ¾"-1"; 1 @ HBL4750 series Raceway.
◆ UL 1863 Listed.

RoHS

HUBBELL
Advantage

■ Cabinet Closes with One Hand Even When Loaded to 400 lb. Capacity.

■ Cabinet Installs in Modular Sections.

■ Rear Wall Easily Configured to Accept 19" Panels, 110 Blocks, A/V Splitters, and More.

■ Wall Mount Cabinets Help Optimize Floor Space.

QUADCAB® Wall Mount Cabinets

Delivery:
- 1 Rear section (arrives disassembled facilitating installation)
- 1 Front door
- 2 19" mounting angles
- 1 Center section with 2 CH751 locks
- 2 Top/bottom cover plates
- 2 Hinge pins
- 2 Security cotter pins
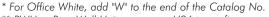
Height	Rack Units	Depth	Door Style	Color*	RWU**	Catalog No.	
24"	12	20"	Window	Black	2	**HSQ24**	10G
24"	12	26"	Window	Black	2	**HSQ2426**	10G
24"	12	36"	Window	Black	2	**HSQ2436**	10G
24"	12	20"	Solid	Black	2	**HSQ24S**	10G
24"	12	26"	Solid	Black	2	**HSQ24S26**	10G
24"	12	36"	Solid	Black	2	**HSQ24S36**	10G

Height	Rack Units	Depth	Door Style	Color*	RWU**	Catalog No.	
36"	19	20"	Window	Black	4	**HSQ36**	10G
36"	19	26"	Window	Black	4	**HSQ3626**	10G
36"	19	36"	Window	Black	4	**HSQ3636**	10G
36"	19	20"	Solid	Black	4	**HSQ36S**	10G
36"	19	26"	Solid	Black	4	**HSQ36S26**	10G
36"	19	36"	Solid	Black	4	**HSQ36S36**	10G

Height	Rack Units	Depth	Door Style	Color*	RWU**	Catalog No.	
48"	26	20"	Window	Black	6	**HSQ48**	10G
48"	26	26"	Window	Black	6	**HSQ4826**	10G
48"	26	36"	Window	Black	6	**HSQ4836**	10G
48"	26	20"	Solid	Black	6	**HSQ48S**	10G
48"	26	26"	Solid	Black	6	**HSQ48S26**	10G
48"	26	36"	Solid	Black	6	**HSQ48S36**	10G

For Office White, add "W" to the end of the Catalog No.
**RWU = Rear Wall Unit - see page H26 to configure rear wall.*

HSQ48

HSQ36

Patch Panel Mounting Bracket

Use to mount 19" patch panels to rear wall. Provides front access to rear for easy termination.
Delivery: 2 brackets, 1 left hand, 1 right hand.
Finish: Light gray powder coat

Rack units	Catalog No.
4	**REK19**
2	**REK19L**

RWU **1**

Equipment Mounting Bracket

Provides 19" mounting for hubs and other active equipment to rear wall.
Delivery: 2 brackets, 1 left hand, 1 right hand.
Material: 16 gauge steel.
Finish: Light gray powder coat.

Rack units	Catalog No.
5	**REKZ**
3	**REKZL**

RWU **1**

NOTE: Remember to account for depth of equipment.

¾" Plywood Backboard

Provides universal mounting for wall mounted brackets, blocks, splitters, hubs and other devices. Mounts to rear wall.
Delivery: 0.75" APA grade AC plywood painted fire-retardant white, 2 mounting brackets, 1 assembly hardware kit.

Dimensions	RWU	Catalog No.
20"x19"	2	**REKBB20**
30"x19"	3	**REKBB30**
40"x19"	4	**REKBB40**

20A Power Kit

Occupies left or right side of 1 rear panel space.
Delivery:
- 1 Hubbell surge-protected duplex receptacle with audible alarm (HBL5262IS).
- 1 Single-gang work box.
- 6' Hubbell **POLYTUFF®** non-metallic conduit.
- 1 Stainless steel face plate.
- 1 Assembly hardware kit.

Catalog No. **REKP**

RWU **1**

NOTE: For information on how to configure the rear wall unit, please see page H26.

www.hubbell-premise.com **Call 1-800-626-0005** **H21**

HUBBELL
ReBox

Remote Equipment Cabinet for Commercial Environments

Stylized, low-profile appearance. Suitable for classrooms and offices.

Inter-Locking Door Design and sloped door resist dust and vandalism.

Wide Variety of Accessories allow user to tailor to suit.

Pre-Configured and **User-Configurable** versions.

Mounting for 19" Patch Panel hinges down for front access termination.

Flexible Mounting for active equipment including hubs and UPSs.

Easy Expansion in the field to support future growth.

Specifications

◆ UL 1863.
◆ 16 ga. Cold Rolled Steel welded construction.
◆ Designed specifically for hostile environments:
  • Tamper resistant per Telcordia™ GR-487-CORE.
  • Ventilation pattern complies with UL 60950.
  • Designed to meet NEMA 2.
◆ Durable powder coat finish.
◆ 2 sets 19" mounting brackets with #12-24 formed threads to universal EIA hole pattern (5/8", 5/8", 1/2" spacing).
◆ Top set bottom hinging for patch panel and mounting (RE2=2U; RE4 = 4U).
◆ Bottom set fixed for switch gear (RE2 = 2U; RE4 = 5U).
◆ Load capacity: 100 lbs.
◆ Accepts maximum hub depth of 14" (RE2 and RE4) or 22" (RE4X).
◆ Abundant cable entry through sides, bottom and top.
  • Compatible with major raceway and popular conduit sizes.
◆ Designed to dissipate 160W - industry maximum without fan.
◆ Weight: RE4 = 50.6 lbs.; RE2 = 45.1 lbs.

RoHS

HUBBELL Advantage

■ Eccentric Knockouts for Conduit and Rectangular Knockouts for Metal and PVC Raceway.

■ Door Lifts Off When Open for Easy Installation, Hinge Easily Reversed in the Field (Requires Catalog No. REKI).

■ Flexible Mounting for Active Equipment Including Hubs and UPSs.

■ Distributing Network Equipment Lessens the Heat Load in the Telecom Room.

RE-BOX® - Commercial Equipment Cabinet

Pre-Configured Version

Delivery: 1 base/rear section with welded 19" brackets for 2 hubs
1 front door with 2 locks (NSQ tool)
1 set 19" extension brackets for 3 additional hubs (RE4xx only)
1 set 19" bottom hinge brackets for patch panels
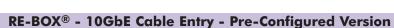
Switch Capacity	Max. Switch Depth	Height	Width	Depth	Color	Catalog No.
2U	14" (356)	32" (813)	24.2" (615)	7" (178)	Light gray	**RE2**
2U	14" (356)	32" (813)	24.2" (615)	7" (178)	Black	**RE2B**
5U	14" (356)	32" (813)	24.2" (615)	10" (254)	Light gray	**RE4**
5U	14" (356)	32" (813)	24.2" (615)	10" (254)	Black	**RE4B**
5U	22" (559)	42" (1067)	24.2" (615)	10" (254)	Light gray	**RE4X**
5U	22" (559)	42" (1067)	24.2" (615)	10" (254)	Black	**RE4XB**

User-Configurable Version

Delivery: 1 base/rear section and 1 front door with 2 locks (NSQ tool) (IDF24 has only 1 lock).

Height	Width	Depth	RWU*	Color	Catalog No.
24" (600)	24.2" (615)	10" (254)	2U	Light Gray	**IDF24**
32" (813)	24.2" (615)	10" (254)	4U	Light Gray	**IDF32**
42" (1067)	24.2" (615)	10" (254)	6U	Light Gray	**IDF42**

NOTE: IDF24L and IDF24 do not use the same base section, knock-out patterns are different.

* RWU = Rear Wall Units, see page H26 to configure rear wall.

RE4XB

RE-BOX® - 10GbE Cable Entry - Pre-Configured Version

Same as standard Preconfigured **RE-BOX**® except top conduit knockouts replaced with adjustable, high cable capacity grommet plate.
Delivery: same as Preconfigured version above.

Switch Capacity	Max. Switch Depth	Height	Width	Depth	Color	Catalog No.
2U	14" (356)	32" (813)	24.2" (615)	7" (178)	Light Gray	**RE210G** ✓**10G**
5U	14" (356)	32" (813)	24.2" (615)	10" (254)	Light Gray	**RE410G** ✓**10G**

20A Power Kit

Occupies left or right side of 1 rear panel space.

Delivery:
1 Hubbell surge-protected duplex receptacle with audible alarm (HBL5262IS).
1 Single-gang work box.
6' Hubbell **POLYTUFF**® non-metallic conduit.
1 Stainless Steel face plate.
1 Assembly hardware kit.

Catalog No.   **REKP**

RWU **1**

Fan Kit

Enhances ventilation.
Delivery: 57-CFM fan, finger guard, disconnect power cord, 2-prong plug, foam baffle, adhesive-backed baffle, #6-32 mounting screws, assembly bracket.
Material: 16 ga. Steel.
Finish: black powder coat.
NOTE: Order 1 per RE2; Order 2 per RE4, RE4X, IDF.

Catalog No.   **REKF**

NOTE: See pages H27 through H30 for Accessories.

Compatible with
Hubbell Labeling System -
see page M8.

HUBBELL
ReBox
Wall Mount Cabinet for Harsh Environments

Dust and Watertight
gasket on door.

Rear Mounting Panel
with equipment mounting brackets
(brackets shipped in pre-configured
enclosures only).

Field-Configurable to suit multiple
applications

¼ Turn Oil-tight Latches
on front cover for secure closure.

Available in UL Versions
Type NEMA 3R, 12, 4, 4X and 13.

**Protects Commercial Network
Equipment**
located in harsh environments.

Print Pocket is provided.

Specifications
- 14 ga. Steel body and door.
- Continuous plasma-welded seams.
- Poured-on polyurethane gasket on door.
- ANSI 61 Gray polyester inside and out over phosphatized surfaces.
- Usable depth: 11.59"; Nominal depth: 12".
- Dust and watertight to NEMA 12.
- UL Listed to UL 508 Type 12 enclosures*.
- cUL Certified types 4 and 12**.
- NEMA/EEMAC Types 4, 12, and 13.
- JIC EL-1-7.

UL File #E64791.
**cUL File #LL66078.*

RoHS

HUBBELL Advantage

- Industry's First **RE-BOX**® Wall Mount Cabinet for Harsh Environments.
- Modular Backboard System Eliminates Time Consuming Field Engineering.
- Easily Adapts Commercial Network Equipment to Harsh Environments.
- Distributing Network Equipment Lessens the Heat Load in the Telecom Room.

HI-IMPACT RE-BOX® - Remote Equipment Cabinet

User-Configurable Version

Delivery: 1 enclosure.

	e **1**	e **2**	e **3**
	Catalog No.	Catalog No.	Catalog No.
Material:	Cold Rolled Steel	Cold Rolled Steel	Stainless Steel
Finish:	Gray Powder Coat	Gray Powder Coat	Brushed, unpainted
NEMA Rating:	3R	4/12/13	4X
Height: 24" (610)	**IR2U3RG**	**IR2UG**	**IR2USS**
Height: 36" (914.4)	**IR3U3RG**	**IR3UG**	**IR3USS**
Height: 48" (1219.2)	-	**IR4UG**	-

Pre-Configured Version

Delivery: 1 enclosure; 1 bottom-hinged patch panel bracket, 4U (REK19); and 1 equipment mounting bracket, 5U (REKZ).

		e **2**	
	Catalog No.	Catalog No.	Catalog No.
Material:	Cold Rolled Steel	Cold Rolled Steel	Stainless Steel
Finish:	Gray Powder Coat	Gray Powder Coat	Brushed, unpainted
NEMA Rating:	3R	4/12/13	4X
Height: 36" (914.4)	-	**IR3PG**	-
Height: 48" (1219.2)	-	**IR4PG**	-

IR4UG

See page H26 to configure rear wall.

HUBBELL
Hi**Impact** Consolidation Point Cabinet

HICP412G

Specifications
◆ Body and door fabricated from 14 gauge 304 Stainless Steel (HICPSS); 14 gauge Cold Rolled Steel (HICP412G).
◆ Continuous plasma-welded seams.
◆ ¼-turn, oil-tight latches on door.
◆ Poured-in polyurethane gasket on door.
◆ ANSI 61 Gray polyester inside and out over phosphatized surfaces (HICP412G).

HUBBELL
Advantage

■ Corrosion-resistant NEMA 4X stainless steel withstands years of abuse.
■ Consolidation point cabinets provide an easy solution to house active equipment in harsh environments.
■ When tamper-resistance is needed, an optional lock is available to secure your active equipment.

Hubbell's HI-IMPACT NEMA 4X and 4/12 consolidation point cabinets are designed for harsh environments where oil, dirt, dust and moisture are present. The HI-IMPACT consolidation point cabinet is a perfect solution to house and secure small switches, wireless access points and cross connect products in harsh environments such as factory floor, convention centers, correctional facilities, and commercial kitchens.

Type	Material/finish	Size	Catalog No.	
NEMA 4X	Stainless steel	12x12	**HICPSS**	e **3**
NEMA 4/12	Powder-coat, Gray	12x12	**HICP412G**	e **2**

e **1** e **2** e **3**   *Please see page K4 for the "**Hubbell Application Rating System for Harsh Environments**".*

www.hubbell-premise.com   **Call 1-800-626-0005**   **H25**

Rear Wall Clip System

In this unique system, attachment slots spaced 3" apart are stamped into the rear wall along its entire height. The customer can then clip a wide assortment of accessories to the rear wall of the cabinet to mount patch panels, switches, punch-down blocks, coax splitters and so on.

HSQ48 shown with equipment mounted to rear panel.

IR4PG shown with door open.

Feature	Accessory Catalog Numbers	Benefit
Patch Panel Mounting	REK19 REK19L	• Mounting patch panels in rear section of **QUADCAB®** frees space in the center section for more active equipment resulting in a smaller cabinet profile on the wall or more room for future expansion. • Make cable termination easier.
Active Equipment	REKZ REKZL	• Deep active equipment can be hung vertically. • Blank 19" panels can be used to provide shelves along the rear wall for media converters or other desktop equipment.
Fiber Work Box	REKFP	• Fiber six packs can be mounted securely near cable entry points.
Punch-Down Blocks	REK110	• Mounts 110 and 66 blocks into rear using pre-threaded rails - saves labor time on the job.
Factory-Prepared Back-board	REKBB20 REKBB30 REKBB40	• Pre-painted with fire retardant white paint and kitted with clip in hardware to eliminate time on the job site. • Makes code compliance a simple task.

RWU

1 Determine the equipment you need to mount on the rear wall of the cabinet.

2 Locate the appropriate accessories on page H27.

3 Determine the amount of space needed for each and map out on the guide to the right.

NOTE: Each RWU = 6"

6 *HSQ48XX, IDF42, IR4XX*

5

4 *HSQ36XX, IDF32, IR3XX*

3

2 *HSQ24XX, ISF24, IR2XX*

1

Rear Wall Clip System

Accessories to Configure Rear Wall of
QUADCAB® (HSQ series)**, Commercial RE-BOX®** (IDF series), and the
HI-IMPACT RE-BOX® (IR series) Wall Mount Cabinets.

Patch Panel Mounting Bracket

RoHS

Use to mount 19" patch panels to rear wall. Provides front access to rear for easy termination.

Delivery: 2 brackets, 1 left hand, 1 right hand.

Finish: Light gray powder coat

Rack units	Catalog No.
4	**REK19**
2	**REK19L**

RWU **1**

Equipment Mounting Bracket

RoHS

Provides 19" mounting for hubs and other active equipment to rear wall.

Delivery: 2 brackets, 1 left hand, 1 right hand.

Material: 16 gauge steel.

Finish: Light gray powder coat.

Rack units	Catalog No.
5	**REKZ**
3	**REKZL**

RWU **1**

NOTE: Remember to account for depth of equipment.

¾" Plywood Backboard

RoHS

Provides universal mounting for wall mounted brackets, blocks, splitters, hubs and other devices. Mounts to rear wall.

Delivery: 0.75" APA grade AC plywood painted fire-retardant white, 2 mounting brackets, 1 assembly hardware kit.

Dimensions	RWU	Catalog No.
20"x19"	2	**REKBB20**
30"x19"	3	**REKBB30**
40"x19"	4	**REKBB40**

20A Power Kit

RoHS

Occupies left or right side of 1 rear panel space.

Delivery:
1 Hubbell surge-protected duplex receptacle with audible alarm (HBL5262IS).
1 Single-gang work box.
6' Hubbell **POLYTUFF®** non-metallic conduit.
1 Stainless steel face plate.
1 Assembly hardware kit.

Catalog No.	**REKP**

RWU **1**

110/66 Block Mounting Rails

RoHS

Provides mounting for 110 and 66 blocks. Mounts to rear wall.

Delivery: 2 110/66 block mounting rails, 20 #10-24 x ½" screws.

Material: 18 ga. Cold Rolled Steel.

Finish: Light gray powder coat.

Catalog No.	**REK110**

RWU **2**

Fiber Optic Bracket

RoHS

Accepts one fiber FSP adapter panel. Occupies no rear panel spaces.

Delivery: 1 fiber optic bracket.

Material: 16 ga. Steel.

Finish: Light gray powder coat.

Catalog No.	**REKFP**

IDF Mounting Bracket

RoHS

For use with Residential Structured Cabling Modules shown on page L6 and L7, and with NSOFSB.

Catalog No.	**REKHS**

RWU **1.5**

Panel Bracket Adapter, FSP

RoHS

For use with adapter panels (see page F10). Snap mounts into structured cabling enclosures.

Catalog No.	**NSOFSB**

HUBBELL
QuadCab Accessories

Fan Kit

Increases ventilation.

Delivery: 1 Fan tray assembly, wired, 1 Kit mounting hardware.

Description	Catalog No.
114 CFM, 120 VAC, 60 Hz, 36 dBA	**HWKF120**
114 CFM, 230 VAC, 50 Hz, 36 dBA	**HWKF230**

Front Door

Replacement front doors for Super **QUADCAB®** enclosure.

Delivery: 1 door, 1 window (on Plexiglas doors only), 2 hinge barrels, right and left hinges, 4 lock nuts and 4 carriage bolts.

Catalog No. **HQKXDHH***

X = "**S**" for solid metal door or "**W**" for window door.

HH = Height: "**24**" for 24"H, "**36**" for 36"H, or "**48**" for 48"H.

***** = Finish: Standard finish is Black, for White add "**W**".

Fan Plate/Fan

Fan Delivery: 1 fan, 1 wire guard, 4 lock nuts, screws, and washers and 1 cord with 6' plug.

Description	Catalog No.
Blank plate with 4" fan/PVC conduit knock-out	**H1KB**
Fan, 125V/7A	**REKEF**

Rear Rail Kit

Use to support rear of deep, active equipment or to adapt to accept cage nuts.

Delivery: 2 19" Mounting rails, 1 Kit mounting hardware, 20 screws + 20 washers.

Description	Catalog No.
24"xM6	**HWK6M6**
36"xM6	**HWK9M6**
48"xM6	**HWK12M6**
24"x#12-24	**HWK241224**
36"x#12-24	**HWK361224**
48"x#12-24	**HWK481224**

HWK241224

Reusable Dust Filter

Dust filter for air intake when using fans. Recommended use with gasket kit.

Delivery: 2 filters with pre-assembled adhesive Velcro® fasteners.

Catalog No. **HWKFF***
* 2 kits are needed for 3' and 4' cabinets.

Mobile Base

Use to convert **QUADCAB®** Wall Mount Cabinet to floor standing cabinet.

Delivery: 1 mobile base, 4 swivel casters, 4 leveling feet, 1 kit mounting hardware.

Mobile Base	Catalog No.
20" depth	**HSQKMB20**
26" depth	**HSQKMB26**
36" depth	**HSQKMB36**

DIN Rail Communications Kit

Communications DIN rail utility box kit (unloaded).

Catalog No. **HIDRUBCKIT**

See page B30 for **Decorator** and Duplex frames.

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H28 HUBBELL Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

QUADCAB® Accessories

HUBBELL ReBox Accessories

Fan Kit

RoHS

Enhances ventilation.
Delivery: 57-CFM fan, finger guard, disconnect power cord, 2-prong plug, foam baffle, adhesive-backed baffle, #6-32 mounting screws, assembly bracket.
Material: 16 ga. Steel.
Finish: black powder coat.
NOTE: Order 1 per RE2; Order 2 per RE4, RE4X, IDF.
Catalog No.   **REKF**

Conversion Kit

RoHS

Use in the field to convert an RE2 to an RE4 for added space.
Delivery: 1 RE4 door, 2 RE4 19" x 3U extender brackets, Two 4U bottom hinged patch panel brackets.
Material: 16 ga. Steel
Finish: Powder coat.

Color	Catalog No.
Light Gray	**REKU**
Black	**REKUB**

Fan Plate/Fan

RoHS

Fan Delivery: 1 fan, 1 wire guard, 4 lock nuts, screws, and washers and 1 cord with 6' plug.

Description	Catalog No.
Fan, 125V/7A	**REKEF**

Padlock Hasp Kit

RoHS

Use to secure the door with the user supplied padlock.
Delivery: 2 padlock hasps, Four ¼"-20 Carriage bolts , hex nuts, and washers.
Catalog No.   **REKH**

Fan Filter Kit

RoHS

Cabinet dust filter for air intake when using fans (for RE4, RE4X, IDF only).
Delivery: 1 mounting bracket, 2 foam filters, 1 assembly hardware kit.
Catalog No.   **REKFF**

Left Hand Hinge Kit

RoHS

Delivery: 2 sets left hand RE-BOX® door hinges use to reverse door.
Catalog No.   **REKI**

Sound Dampening Kit

RoHS

Use to dampen noise generated from active equipment in cabinet.
Delivery: Dow Quash™ foam pieces, pre-cut to line cabinet interior.
Catalog No.   **REKS**

Joining Kits

RoHS

Use to join cabinets side-by-side or top-to-bottom.
Delivery:1 shroud, 16 ga. Cold Rolled Steel; 1 mounting hardware kit.
Finish: Powder coat, light gray.

Description	Catalog No.
Top-to-bottom kit for use with all RE-BOX® cabinets	**REKTJ**
Side-by-side kit for use with IDF24, IDF24L	**REKSJ20**
Side-by-side kit for use with RE2, RE4, IDF32	**REKSJ30**
Side-by-side kit for use with RE4X, IDF42	**REKSJ40**

REKTJ

REKSJ20

Recessed Mounting Kit

RoHS

For Commercial RE-BOX® cabinets - where recessed mounting is desired. Louvered section at bottom enhances cabinet ventilation.
Material: 16 ga. Steel.
Finish: Durable powder coat, light gray.
Delivery: 1 trim ring, Six 1/4x5/8" sheet metal screws, 8 #12-24x1¼" pan head screws.

Height	Catalog No.
24"	**REKR24**
32"	**REKR32**
42"	**REKR42**

Accessories for **QUADCAB®** and **Commercial RE-BOX®**
Wall Mount Cabinets.

Lock Kits

Use to change lock style to meet specific applications.

Delivery: 2 Assembly locks and keys (except CKL716). CKL716 includes NSQ tool.

Description	Catalog No.
CH751 keyed lock kit	**CKL751**
333 keyed lock kit	**CKL333**
Bellcore 716 bit lock	**CKL716**
Cat60 keyed lock kit	**CKLCAT60**
Cat70 keyed lock kit	**CKLCAT70**

Thermostat

Delivery: 1 thermostat, 1 adhesive-backed mounting bracket, 1 wiring harness.

Catalog No.   **CTK**

MT10 Adapter

Mates PS3 large capacity, 3-channel, surface raceway to the top of **RE-BOX®** cabinets. Routes both electrical and communications cables

Delivery: 1 base, 1 cover, 1 cover hardware kit.

Material: 16 ga. Steel construction.

Finish: Powder coat.

Catalog No.   **REKMT10**

Gasket Kit

Use to enhance protection against dust and water, and performance of fan and filter.

Delivery: 1 roll adhesive-backed foam gasket.

Length	Use	Catalog No.
30'	HSQXX	**HWKGT**
10'	REXX, IDFXX	**REKG**

Delivery: One 10' adhesive-backed foam gasket.

Catalog No.

Ground Kit

Use to ground cabinet components to common ground. Used in conjunction with the MCCGBAR and HPWCGPK10.

Delivery: 1 Grounding bar, 1 Ground strap w/ring terminals, 1 Ground strap w/ring Terminal + Female Faston.

Catalog No.   **REKGB**

RE-BOX® Shelf

Mount to REKZ for use as a shelf.

Delivery: 1 panel 2U, 4 #12-24 x 5/8" HPW screws.

Material: 0.09" aluminum.

Finish: black anodized.

Catalog No.   **MCCBP350**

Ground Strap

Delivery: 1 Ground strap with ring terminations.

Catalog No.   **REKEGS**

20A Power Kit

Occupies left or right side of 1 rear panel space.

Delivery:
1 Hubbell surge-protected duplex receptacle with audible alarm (HBL5262IS).
1 Single-gang work box.
6' Hubbell **POLYTUFF®** non-metallic conduit.
1 Stainless steel face plate.
1 Assembly hardware kit.

Catalog No.   **REKP**

RWU **1**

Consolidation Point Enclosure

Features/Benefits

■ 5 mounting locations - each accepts 100-pair block or 89D bracket.

■ Optional key lock provides security when used in remote locations.

■ Cable entry: top, bottom and sides.

Specifications

◆ Enclosure material: 16 ga. Cold Rolled Steel.
Cover: 20 ga. Cold Rolled Steel.

◆ Finish: Enclosure: Zinc Galvanized; Cover: powder-coated.

◆ Dimensions: 21"H x 14.5"W x 4.5"D.

Pre-threaded mounting rails accept: 110 blocks with legs, 89D brackets.

Mounts between studs or can be surface mounted.

Mounting for 2 FSP or **JACK-PACK**® adapter panels provides for multiple fiber and copper connectors.

Consolidation Point Enclosure

Delivery: 1 Enclosure   1 door
           2 mounting rails   1 FSP adapter bracket
           2 fiber routing spools
           4 wall mounting screws (#8-32 x 3/4" wood screws)
           20 internal equipment mounting screws (#10-24 x 3/8" pan head Phillips)

Color	Height	Width	Depth	Catalog No.
Electrical Ivory	21" (533)	14.5" (368)	4.5" (114)	**CPEI**
Black	21" (533)	14.5" (368)	4.5" (114)	**CPEB**

CPEB

Consolidation Point Enclosure - Accessories

Louvered Cover
Delivery: 1 louvered cover.
Material: 20 gauge cold rolled steel.
Finish: Powder-coated.

Color	Catalog No.	Color	Catalog No.
Electrical Ivory	**CPKLDI**	Black	**CPKLDB**

Trim Ring
Delivery: 1 trim ring.

Color	Catalog No.	Color	Catalog No.
Electrical Ivory	**CPKTRI**	Black	**CPKTRB**

Lock Kit
Catalog No.   **FLOCK1**

CPKLDI   *CPKTRI*

FLOCK1
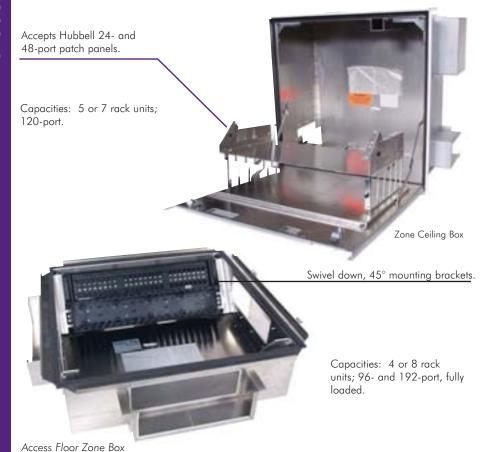
ZOBOX® Zone Boxes - Access Floor and In-Ceiling

Accepts Hubbell 24- and 48-port patch panels.

Capacities: 5 or 7 rack units; 120-port.

Zone Ceiling Box

Swivel down, 45° mounting brackets.

Capacities: 4 or 8 rack units; 96- and 192-port, fully loaded.

Access Floor Zone Box

Features/Benefits

Floor Box

- ■ Cover available.
- ■ Cable entry behind the connecting hardware, exits from the face.

Ceiling Box

- ■ Lock kits available.
- ■ Continuous hinged door.
- ■ Door accepts sized ceiling tile panel.

Specifications

- ◆ Aluminum enclosure, .060.
- ◆ Plenum rated, UL listed, file no. E129878.
- ◆ Accepts standard 19" rack mount panels.
- ◆ Tapped holes in brackets: #12-24.
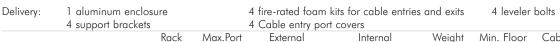
Floor Box

- ◆ Mounts in standard 24" x 24" raised floor panel spaces.

Ceiling Box

- ◆ Ventilation fan included (9CFM) active unit only.
- ◆ Active equipment max. dimensions: 3.5"H x 15.5"D x 19"W.
- ◆ Mounts in standard 24"x24" drop ceiling panel spaces.
- ◆ Structural mounting hardware supplied by installer.

ZOBOX® - Access Floor Box

RoHS

Delivery: 1 aluminum enclosure   4 fire-rated foam kits for cable entries and exits   4 leveler bolts
        4 support brackets   4 Cable entry port covers

Description	Rack Units	Max.Port Capacity	External Dims HxWxD	Internal Dims HxWxD	Weight Lbs.	Min. Floor Depth	Cable Entry Dims	Catalog No.
Zone Access Floor Box	4	96	4.12"x21.9"x21.9"	4"x21"x21"	14	6"	3.5"x11"	**ZAFB4U6**
Zone Access Floor Box	8	192	7.12"x21.9"x21.9"	7"x21'x21"	15	8"	3.5"x11"	**ZAFB8U8**
Zone Access Floor Box Cover	-	-	22"X22"	-	5	-	-	**ZAFBC**

NOTE: ZAFBC uses key no. 2233.

ZOBOX® - In-Ceiling Box

RoHS

Delivery: 1 Aluminum enclosure   2 knob assemblies
        2 fire-rated foam kit for cable entries and exits   Support brackets
        Hinged door plate   Equipment mounting assemblies
        9 CFM, 12 volt fan and transformer (active unit only)

Description	Rack Units	Max.Port Capacity	External Dims HxWxD	Door Weight Capacity Lbs.	Weight Lbs.	Total Weight Capacity Lbs.	Cable Entry Dims	Catalog No.
Passive Zone Ceiling Box	5	120	12"x24"x24"	25	38	75	6"x3"	**ZCB5UP**
Passive Zone Ceiling Box	7	120	12"x24"x24"	25	39	75	6"x3"	**ZCB7UP**
Active Zone Ceiling Box	7	120 plus 2U Active Equip	12"x24"x24"	25	39	75	3.5"x11"	**ZCB7UA**
Zone Ceiling Box Lock Kit	-	-	-	-	-	-	-	**ZCBLKIT**
Spare Zone Ceiling Box Lock Key	-	-	-	-	-	-	-	**KEY333**

Security Boxes for Wireless Access Points
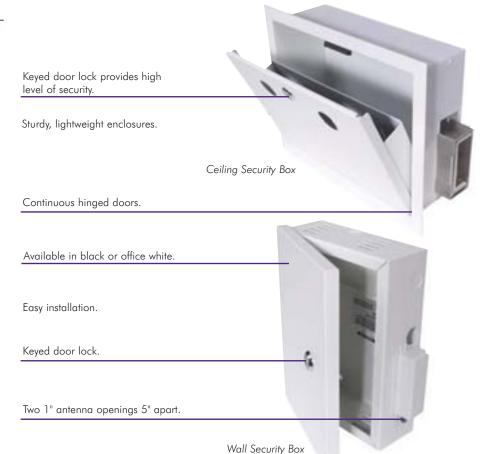
Specifications

Ceiling Box
◆ Material: aluminum .060.
◆ Plenum rated.
◆ UL listed, file no. E129878.
◆ Accepts most standard, low voltage wireless access point sizes.
◆ Fasten wireless access points to mounting plate with **VELCRO**®, cable ties or self-tapping screws.
◆ Mounts in standard 24"x24" drop ceiling panel spaces.
◆ Accommodates sized ceiling tiles on the doors.

Wall Box
◆ Vented, steel enclosure.
◆ Finish: durable powder coat.
◆ Cable entry/exit: four 7/8" round knock-out openings on sides, top and bottom.
◆ Cable entry/exit: one 1-3/8" knock-out on back.

Keyed door lock provides high level of security.

Sturdy, lightweight enclosures.

Ceiling Security Box

Continuous hinged doors.

Available in black or office white.

Easy installation.

Keyed door lock.

Two 1" antenna openings 5" apart.

Wall Security Box

Wireless Access Point Ceiling Box

Delivery: Aluminum enclosure — 1 lockable knob assembly
1 fire-rated foam kit for cable entries and exits — Cable entry port and cover (factory installed)
Hinged door equipment mounting plate (factory installed)

Description	Mounting Plate Dims. H x W	External Dimensions H x W x D	Weight Capacity Lbs. Door	Total	Cable Entry Dimensions	Catalog No.
Universal WAP Enclosure	9.7" x 5.25"	4"x10"x12.7"	15	20	6.5"x1.2"	**WBC1**
CISCO Aironet 1200 Series	N/A	10"x10.5"x13.2"	15	20	6.5"x1.2"	**WBC12**

NOTE: WBC1 uses key no. 2233. WBC12 uses key no. C346A.

Wireless Access Point Wall Box

Delivery: 1 Aluminum enclosure — 4 each #10 x 1 pan head screws
4 each plastic conical screw anchors for #10 screw — 4 each flat steel washers, size #10
1 drill template

Description	External Dimensions HxWxD	Weight Lbs.	Color	Catalog No.
Wall Box	8"x11"x3"	1.5	Office White	**WBW1OW**
Wall Box	8"x11"x3"	1.5	Black	**WBW1BK**
Spare Wall Box Lock Key				**KEY333**

NOTE: WBW1OW and WBW1BK uses key no. 333.

VELCRO® is a registered trademark of Velcro Industries B.V.

Power Strips, Vertical

PR20620

- Made with Premium Hubbell Receptacles.
- Multiple Bracket Options to Suit Every Application.
- "Assemble-to-Order" Available for Customized Power Strips.

Features/Benefits

- Wide variety of sizes available.
- NEMA and IEC configurations.
- Cords available with Hubbell **TWIST-LOCK**® plugs.

Specifications

- ◆ Housing
  Material: cold-rolled steel.
  Finish: Powder-coated, black.
- ◆ AC Voltage: 120V or 250V.
- ◆ Current Rating: 15, 20, 30 or 60 Amp.
- ◆ Outlets: NEMA 5-15R or 5-20R or IEC C-13 or C-19.
- ◆ Input Plug Cord: 10' cable with NEMA plug, IEC 320 C-20 inlet, or 60A IEC 309 plug.
- ◆ Surge Protection:
  Protection Modes: L-N, L-G, N-G.
  Joule Rating: 720.

PREZB

PRSLB4

PR10420

Full Length Bracket

Power Strips, Vertical Mount

Can be mounted in all HPW cabinets and racks to distribute power to active equipment. All units include circuit breakers and full length mounting bracket. All units feature 10' cable (except PR20820I).

Delivery: 1 strip, 1 kit mounting hardware, universal mounting brackets.

Electrical Specification	Receptacle Type	Outlets Front	Plug Type	No. of Circuits	Surge Protected	Switch	Current Monitor	Catalog No.
15A-120V	NEMA 5-15R	10	NEMA 5-15P	1	No	No	No	**PR104**
20A-120V	NEMA 5-20R	10	NEMA 5-20P	1	No	No	No	**PR10420**
15A-120V	NEMA 5-15R	20	NEMA 5-15P	1	No	No	No	**PR206**
20A-120V	NEMA 5-20R	20	NEMA 5-20P	1	No	No	No	**PR20620**
20A-120V	NEMA 5-20R	20	NEMA 5-20P	1	No	Yes	Yes	**PR20820DRTL**
30A-120V	NEMA 5-20R	20	NEMA L5-30P	1	No	No	No	**PR20830**
20/16A /circuit 120V	NEMA 5-20R	20	NEMA 5-20P	2	No	No	No	**PR20820A***
20/16A-120/250V	IEC 320C-13	20	IEC 320 C20	1	No	No	No	**PR20820I****
30/24A-250V	IEC 320C-13	24	NEMA L6-30P	1	No	No	No	**PR24**

* PR20820A features (2) 20A circuits each fed by 10ft. cable w/ NEMA 5-20 plug.
** PR20820I includes an IEC 320 (C-20) inlet for power input.

Mounting Brackets for Vertical Power Strips

Description	Catalog No.
'L' brackets - turned 'in', these are ideal for rack/rail mounting. Turned 'out' they extend your mounting options an additional 8 inches.	**PRSLB4**
Provides left, right, front or back rail mounting. May be installed in conjunction with other equipment mounted in the same 'U' space.	**PREZB**

Power Strips, Horizontal

HUBBELL
Advantage

- Long lasting construction.
- Multiple Bracket Options.
- Fast turn-around time on specials.

Features/Benefits

- Rack mount units.
- Surge protection and current monitoring available.
- NEMA and IEC configurations.

Specifications

- Housing Material: Cold Rolled Steel. Finish: Powder-coated, black.
- AC Voltage: 120V or 250V.
- Current Rating: 15, 20, 30 or 60 Amp.
- Outlets: NEMA 5-15R or 5-20R or IEC C-13 or C-19.
- Input Plug Cord: 10' cable with NEMA plug, IEC 320 C-20 inlet, or 60A IEC 309 plug.
- Surge Protection: Protection Modes: L-N, L-G, N-G. Joule Rating: 720.

MCCPSS19TS

HPWPWR

PR10720

PRAMB

PREZB

PRPMB

PRSLB4

Power Strips, Horizontal

Can be mounted in all HPW cabinets and racks to distribute power to active equipment. All units utilize 1U of rack space and include circuit breakers (except PR10720). 15A units feature 10' cable with NEMA 5-15P plug; 20A units feature 10' cable with NEMA 5-20P plug.
Delivery: 1 strip, 1 kit mounting hardware.

Electrical Specification	Receptacle Type	Outlets Front	Outlets Rear	Mounting Style	Surge Protected	Transformer Spaced	Switch	Current Monitor	Catalog No.
15A/120V	NEMA5-15R	0	10	Flush	No	No	Yes	No	**HPWPWR**
15A/120V	NEMA5-15R	0	10	Flush	Yes	No	Yes	No	**MCCPSS19**
15A/120V	NEMA5-15R	4	4	Recess	Yes	Yes	No	No	**MCCPSS19TS**
20A/120V	NEMA5-20R	0	10	Flush	No	No	No	No	**PR10120**
20/16A, 120/250V	IEC320-C13	10	0	Flush	No	No	No	No	**PR10720***
15A/120V	NEMA 5-15R	0	6	Flush	No	No	No	No	**PR0615**
20A/120V	NEMA 5-20R	0	10	Flush	No	No	Yes	Yes	**PR1020**
60A/250V	IEC 320-C19	0	3	Adjustable	No	N/A	CB/Switch	No	**PR0360****

* PR10720 includes an IEC 320 (C-20) inlet for power input. Vertical mount brackets are also included.
** PR0360 features 10' cable with IEC 60A 2P/3W plug.

Mounting Brackets for Horizontal Power Strips

Description	Catalog No.
Adjustable mount brackets; allows numerous recess or flush mount options.	**PRAMB**
Panel mount brackets; ideal for zero 'U' mounting applications by effectively allowing the unit to be hung from a cross beam or flat surface.	**PRPMB**

Type	Catalog No.	Integral Fixed Brackets	Pre-Assembled Brackets Included	Optional Brackets Available
19" Rack Mount	HPWPWR MCCPSS19 PR10120 PR0615 PR1020	Flush Mount	N/A	N/A
	MCCPSS19TS	N/A	Recess Mount	PRAMB PRPMB
	PR10720	N/A	Flush Mount & PRSLB4	PREZB
	PR0360	N/A	PRAMB	PRPMB

Intelligent Power Strips with Monitoring

60, 80, 120 Amp/250V Solutions
for the most demanding data center applications.

Power
for those most demanding, multiple blade server applications.

Remote Monitoring
to maximize uptime and life span of active equipment.

User-Defined current thresholds.

Local current meter.

Application Support
for applications with a mix of power receptacles - NEMA and IEC.

Numerous power cord types.

Vertical Mounting Arrangements
ideally suited for data center and cabinet applications.

PRRMLM30125N1T1   PRRMLM203PYN2T4   PRRMLM602503PDC2PS   PRRMLM1202503PDN4NO

HUBBELL
Advantage

- ■ Advanced Monitoring and Alert Capabilities to Help Ensure the Maximum Life Span for Active Equipment.

- ■ 3-Phase WYE Configurations Support Multiple Voltage (120/208) Applications and Minimize Input Cabling.

- ■ Support for the Simple to the Most Advanced Data Center Applications.

- ■ Local and Remote Monitoring Optimize Power Consumption.

Specifications

- ◆ Housing
  Material: Cold Rolled Steel.
  Finish: Durable, black powder coat.
- ◆ UL and cUL Listed 60950.
- ◆ FCC Part 15, Class A conformance.
- ◆ Web based GUI.
- ◆ SNMP v1.
- ◆ AC voltage: 125, 250, 120/208.
- ◆ Current rating: 20, 30, 60, 80, 120 amp.
- ◆ Phase: Single, 3~ WYE, 3~ DELTA.
- ◆ Frequency: 50/60Hz.
- ◆ Input plug type: Various, NEMA, Strait Blade, TWIST-LOCK®, Pin and Sleeve, none - conduit connection access provided.
- ◆ Receptacles: various NEMA and IEC.

Intelligent Power Strips with Monitoring

All power strips provide remote current monitoring over an Ethernet connection. A RJ-45 jack is provided on the front of the power strip. A web based GUI is provided as part of the strip (no additional software or software disc is required). User defined current thresholds are supported for monitoring and alerting. SNMP V1 is supported. A local current monitor is provided on front of each unit. The mounting arrangement is 66" vertical mount, unless otherwise noted. All receptacles are located on the front of the units.

Electrical Specification (AC Input)	Input Plug Type	Cord Length (feet)	Receptacle Information	Maximum Output per Receptacle	Circuit Break-er	Switch	Brackets	Dim. LxWxD inches	Catalog No.
20A/125V	NEMA 5-20P	10	24 NEMA 5-20R	125V, 20A	No	No	66" full length	66.25 x 2 x 2	**PRRMLM20125N1P1**
20A/125V	NEMA 5-20P	10	24 IEC C-13 (banks of 4 and IEC C-19	125V, 15A per IEC C-13 re-ceptacle bank. 125V, 20A for IEC C-19	No	No	66" full length	66.25 x 2 x2	**PRRMLM20125C1C3P1**
30A/125V	NEMA L5-30P[3]	10	24 NEMA 5-20R	125V, 20A	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2 x 3.5**	**PRRMLM30125N1T1B**
30A/125V	NEMA L5-30P[3]	10	24 IEC C-13 and 6 IEC C-19	125V, 15A per IEC C-13 re-ceptacle bank. 125V, 20A for IEC C-19	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2 x 3.5**	**PRRMLM30125C1C3T1B**
20A/250V	NEMA L6-20P[3]	10	24 NEMA 6-20R	250V, 20A	No	No	66" full length	66.25 x 2 x 2	**PRRMLM20250N2T2**
20A/250V	NEMA 6-20P	10	24 IEC C-13 and 6 IEC C-19	250V, 15A per IEC C-13 re-ceptacle bank. 125V, 20A for IEC C-19	No	No	66" full length	66.25 x 2 x 2	**PRRMLM20250C1C3P2**
30A/250V	NEMA L6-30P[3]	10	24 NEMA 5-20R	250V, 20A	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2 x 3.5**	**PRRMLM30250N1T3B**
30A/250V	NEMA L6-30P[3]	10	24 IEC C-13 and 6 IEC C-19	250V, 15A per IEC C-13 re-ceptacle bank. 125V, 20A for IEC C-19	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2 x 3.5**	**PRRMLM30250C1C3T3B**
20A/120V-208V[1]	NEMA L21-20P[3]	10	24 NEMA 5-20R and 6 L6-20R	120V, 20A for 5-20R. 208V, 20A for L6-20R	No	No	66" full length	66.25 x 2 x 2	**PRRMLM203PYN1N3T4**
20A/120V-208V[1]	NEMA L21-20P[3]	10	24 NEMA 6-20R	208V, 20A	No	No	66" full length	66.25 x 2 x 2	**PRRMLM203PYN2T4**
20A/120V-208V[1]	NEMA L21-20P[3]	10	12 IEC C-13 and 6 NEMA 5-20R	208V, 15A for IEC C-13. 120V, 15A for 5-20R	No	No	70" full length	70 x 2 x 2	**PRRMLM7203PYC2N5T4***
30A/120V-208V[1]	NEMA L21-30P[3]	10	24 IEC C-13 and 6 IEC C-19	208V, 15A per IEC C-13 re-ceptacle bank. 208V, 20A for IEC C-19	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2 x 3.5**	**PRRMLM303PYC1C3T5B**
30A/120V-208V[1]	NEMA L21-30P[3]	10	24 IEC C-13 and 3 IEC C-19 and 6 NEMA 5-20R	208V, 15A per IEC C-13 re-ceptacle bank. 208V, 20A for IEC C-19. 120V/20A for NEMA 5-20R	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2 x 3.5**	**PRRMLM303PYCCNT5B**
30A/120V-208V[1]	NEMA L21-30P[3]	6	6 NEMA 5-20R and 6 NEMA L6-30R	120V, 20A for 5-20R. 250V, 30A for L6-30R	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2 x 3.5**	**PR3PWYERPMONLCN66T**
60A/250V[2]	IEC 60309 Pin/Sleeve, 60A/250V, 3P/4W, Watertight	5	12 IEC C-19	250V, 12A	Yes	Integral to Breaker	Tool less and 66" full length	66.25 x 2.3 x 3.45	**PRRMLM603PDC2PSB**
80A/250V[2]	None[4]	N/A	12 IEC C-19	250V, 20A	Yes	Integral to Breaker	Tool less	66.25 x 3.5 x 3.5	**PRRMLM803PDC2NOB**
120A/250V[2]	None[4]	N/A	12 NEMA L15-30R	30A 3-Phase	Yes	Integral to Breaker	Tool less	66.25 x 3.5 x 3.5	**PRRMLM1203PDN4NOB**

* This is a 70" vertical mount unit.
** 1.44" of 3.5" is for the breaker area.
[1] 3-Phase WYE.
[2] 3-Phase DELTA.
[3] TWIST-LOCK®.
[4] Conduit connection access.

Metal PlugTrak®

Metal PlugTrak® - 3 Ft. Base and Cover

Amp	Circuits	# Single Receptacles	Receptacle Spacing (in.)	Catalog No. Ivory	Catalog No. Gray
15	Single	6	6	**HBL20GB306IV**	**HBL20GB306GY**
15	IG/Single	6	6	**HBL20IG306IV**	**HBL20IG306GY**
20	Single	6	6	**HBL24GB306IV**	**HBL24GB306GY**

Metal PlugTrak® - 5 Ft. Base and Cover

Amp	Circuits	# Single Receptacles	Receptacle Spacing (in.)	Catalog No. Ivory	Catalog No. Gray
15	Single	10	6	**HBL20GB506IV**	**HBL20GB506GY**
15	Single	5	12	**HBL20GB512IV**	**HBL20GB512GY**
15	Two	5	12	**HBL20GBA512IV**	**HBL20GBA512GY**
15	IG/Single	5	12	**HBL20IG512IV**	**HBL20IG512GY**
20	Single	10	6	**HBL24GB506IV**	**HBL24GB506GY**
20	Single	5	12	**HBL24GB512IV**	**HBL24GB512GY**
20	Two	5	12	**HBL24GBA512IV**	**HBL24GBA512GY**

Metal PlugTrak® - 6 Ft. Base and Cover

Amp	Circuits	# Single Receptacles	Receptacle Spacing (in.)	Catalog No. Ivory	Catalog No. Gray
15	Single	12	6	**HBL20GB606IV**	**HBL20GB606GY**
15	Single	8	9	**HBL20GB609IV**	**HBL20GB609GY**
15	Single	6	12	**HBL20GB612IV**	**HBL20GB612GY**
15	Single	4	18	**HBL20GB618IV**	**HBL20GB618GY**
15	Two	8	9	**HBL20GBA609IV**	**HBL20GBA609GY**
15	Two	6	12	**HBL20GBA612IV**	**HBL20GBA612GY**
15	Two	4	18	**HBL20GBA618IV**	**HBL20GBA618GY**
15	IG/Single	12	6	**HBL20IG606IV**	**HBL20IG606GY**
20	Single	12	6	**HBL24GB606IV**	**HBL24GB606GY**
20	Single	6	12	**HBL24GB612IV**	**HBL24GB612GY**
20	Single	4	18	**HBL24GB618IV**	**HBL24GB618GY**
20	Two	6	12	**HBL24GBA612IV**	**HBL24GBA612GY**
20	Two	4	18	**HBL24GBA618IV**	**HBL24GBA618GY**

Boxes and Fittings

Description	Color	Catalog No.
One-Gang Device Box	Ivory Gray	**HBL2048IV** **HBL2048GY**
Two-Gang Device Box	Ivory Gray	**HBL20482IV** **HBL20482GY**
Internal Corner Coupling	Galv. Steel	**HBL2017TC**
External Elbow	Ivory Gray	**HBL2018CIV** **HBL2018CGY**
Flat Elbow	Ivory Gray	**HBL2011IV** **HBL2011GY**
Tee	Ivory Gray	**HBL2015IV** **HBL2015GY**
Entrance End Fitting	Ivory Gray	**HBL2010A2IV** **HBL2010A2GY**
Large Entrance End Fitting	Ivory Gray	**HBL2010A3IV** **HBL2010A3GY**
Blank End Fitting	Ivory Gray	**HBL2010BIV** **HBL2010BGY**
Cover Clip	Ivory Gray	**HBL2006IV** **HBL2006GY**
Supporting Clip	Galv. Steel	**HBL2003SC**
Coupling	Galv. Steel	**HBL2001C**

Portable Metal PlugTrak®

Length	Cord Length	Amp	Circuits	# Single Receptacles	Catalog No. Ivory	Catalog No. Gray
40 In.	6 Ft.	15	Single	6	**HBL20C215IV**	**HBL20C215GY**
64 In.	6 Ft.	15	Single	8	**HBL20C315IV**	**HBL20C315GY**

Notes: Hubbell Metal PlugTrak is supplied with two **HBL2010B(IV)** or **(GY)** Blank End Fittings and one **HBL2001C**.

"IV" suffix to catalog number for ivory finish. "GY" suffix to catalog number for gray finish.

Outlets match raceway color. "IG" Isolated receptacles are orange color.

Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

Assemble-to-Order Power Strips

Hubbell's **Assemble-to-Order (ATO) Power Strip** program allows customization of power strips to ensure the optimum match of product features with project requirements.

Whether it's a minor modification to an existing power strip or the creation of a new custom power strip, the ATO Power Strip program provides the best power strip for the application. Examples of the options available for the power strips are provided below.

Assemble-to-Order Power Strips

- Mountings:
  - Horizontal: 19'', 24''.
  - Vertical: 38'', 48'', 66'', 70''.
- AC Voltage (VAC): 125, 250, 120/208.
- Current rating (Amps): 20, 30, 60, 80, 120.
- Phases: Single, 3~WYE, 3~DELTA.
- Receptacles:
  - NEMA 5-15R, L5-15R, 5-20R, L5-20R, 6-20R, L6-20R, L6-30R, L15-30R.
  - IEC C-13, C-19.
  - Select Quantity.
  - Mix of IEC and NEMA receptacles
- Input Plug Types: NEMA, Straight Blade, **TWIST-LOCK**®, Pin and Sleeve.
- Cord Length: 10', 15' or custom up to 15'.
- Monitoring: None, Local Current Meter, Remote Monitoring over Ethernet and SNMP V1.
- Circuit Breakers.
- Power Switch.
- Surge Protection.

Contact Hubbell Premise Wiring at 1-800-626-0005 to configure your power strip today.

HUBBELL Advantage

- Numerous Configurations, NEMA and IEC Receptacles, Various Power Cord Types.
- Single, 3-Phase WYE, and 3-Phase Delta Arrangements.
- Customize Configurations for your Specific Application and Project.
- Local and Remote Monitoring Options.
- Support for the Simple, to the Most Advanced Data Center Applications.
- 3-Phase Configurations Reduce Cabling and Improve Airflow.
- Advanced Monitoring and Alert Capabilities to Help Ensure the Maximum Life Span for Active Equipment.

DELIVERY SYSTEMS

Hubbell SystemOne is an innovative system that provides consumers with the flexibility to create personal solutions for the most demanding multi-service applications for both flush in-floor boxes and fire-rated poke-throughs.
Hubbell SystemOne features a unique universal cover assembly and a wide variety of application sub-plates that install on both Hubbell flush floor boxes and fire-rated poke-throughs.
Now, whatever the application, Hubbell SystemOne delivers a consistent, aesthetic and functional solution for applications "in-the-floor" or "through-the-floor" for power, voice, data, and AV requirements.

HUBBELL SYSTEMONE•NON-METALLIC•SINGLE SERVICE• STAMPED STEEL•RAISED ACCESS •FLOOR BOXES•ADA
COLLAR•MULTI-SERVICE•ENCLOSURE•THROUGH FLOOR FITTING•MULTIMEDIA•DELIVERY+•DECORATOR•VOI
DATA•SUB-PLATES•DUPLEX•FACE PLATES•ADAPTER FRAME•BRASS•ROUND FLOOR BOX•SERVICE POLES•DATAC
RATED POKE-THROUGHS•CARPET• GFCI•EXTRON®•4" CORE HOLE•ROUND FLOOR BOXES•CAST IRON•STAM
STEEL•FURNITURE FEED• SYSTEMONE SUB-PLATES•CONCRETE•TILE•DUCT PANEL•COVER/FLANGE•REAR WIRE
FRAME•FLUSH DUPLEX•SINGLE RECEPTACLE•2X2 FIRE-RATED POKE-THROUGH•SERVICE FITTING•ALUMINUM•E
AAP•TWIST-LOCK®•INNOVATIVE DELIVERY SYSTEM•2x2 FLUSH POKE-THOUGH•MULTI-CHANNEL•CARPET•TILE

DELIVERY CONTENTS

Hubbell SystemOne Metal and Non-Metallic Concrete Floor Boxes

ScrubShield™
Complies with UL514 A & C

c (UL) US LISTED

Hubbell SystemOne Cast-Iron Floor Box (S1CFB)

Non-metallic riser.

The Cast Iron Floor Box construction provides durability and corrosion resistance for on-grade applications.

Oversized 1½ in. N.P.T. threaded conduit access holes for low voltage.

1 in. N.P.T. threaded conduit access holes for power.

■ Easily installed, aesthetic and configurable floor box solution for open floor plans that require both power and data services.

■ The Hubbell SystemOne Universal Cover mounts directly to the floor box riser, eliminating the need for an additional adapter collar.

Hubbell SystemOne Steel Floor Box (S1SFB)

Non-metallic riser.

The Stamped Steel Floor Box construction provides an economic solution for above-grade applications.

Concentric knockouts permit various conduit sizes for both power and data services.

■ The Hubbell SystemOne Universal Cover features ScrubShield™ technology that exceeds UL514A and UL514C scrub water exclusion requirements.

■ Convenient cubic inch (cm³) capacity markings on interior of box.

■ Leveling feet provide before pour adjustability.

Hubbell SystemOne Steel AV Floor Box (S1SFBAV)

Non-metallic riser.

Accommodates high-capacity multimedia applications in a 3½" minimum depth of pour.

Oversized 1½ in. N.P.T. threaded data hub.

¾ in., 1 in. trade size concentric knockouts for power services.

■ PVC riser allows a simple saw cut for adjustment after pour.

■ Supplied with concrete cover and closure plugs (where applicable).

■ Designed to accommodate multi-service applications with the wide offering of Hubbell SystemOne Sub-Plates.

■ c (UL) US LISTED, Metallic Floor Box.

Hubbell SystemOne Non-Metallic Floor Box (S1PFB)

High-strength rigid PVC construction that is non-corrosive.

Oversized 1½" data conduit hub for increased cable capacity and bend radius.

Parallel conduit hubs reduce labor and material cost, facilitating easier wire pull.

■ Provides an economical, easy to install in-floor delivery system for large, open plan spaces.

■ The Hubbell SystemOne Universal Cover mounts directly to the floor box, eliminating the need for additional adapter collar.

■ Supplied with concrete cover, conduit reducers and conduit hub plugs.

■ c (UL) US LISTED, Non-Metallic Floor Box.

Hubbell SystemOne Metal and Non-Metallic Concrete Floor Boxes

ScrubShield™
Complies with UL514 A & C

c(UL)us LISTED

Dimensions Inches (mm)	**Cast Iron**	**Steel**	**Steel AV**	**Non-Metallic**
Metal / Non-Metallic	S1CFB*	S1SFB*	S1SFBAV*	S1SPFB
Min. Depth of Pour	3.50" (88.9)	3.50" (88.9)	3.50" (88.9)	3.00" (76.2)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm³) Capacity	156.0 cu. in. (2556.4 cm³)	175.7 cu. in. (2879.2 cm³)	177.5 cu. in. (2909.7 cm³)	100 cu. in. (1638.7 cm³)
Dimensions - A	3.00" (76.2)	3.00" (76.2)	3.00" (76.2)	6.00" (152.4)
Dimensions - B	7.26" (184.4)	7.50" (190.5)	7.50" (190.5)	5.58" (141.7)
Dimensions - C	7.45" (189.2)	7.38" (187.4)	7.38" (187.4)	8.76" (222.5)
Dimensions - D (Inside Diameter)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)
Power Entries	1" N.P.T. Access Holes	¾", 1" Concentric K.O.	¾", 1" Concentric K.O.	1" Conduit Hub
Data Entries	1½" N.P.T. Access Holes	¾", 1", 1¼" Concentric K.O.	1½" Threaded Hub (included)	1½" Conduit Hub
Concrete Cover Included	✓	✓	✓	✓
Closure Plugs Included	✓	-	✓	✓
Accepts Hubbell SystemOne Universal Cover	✓	✓	✓	✓
Cover Mounting Clips Included	✓	✓	✓	✓
Non-Metallic Low Voltage Divider Included (S1DIV1)	✓	✓	✓	✓

Notes: UL File Number E92074.
CSA File Number LR18416.
*S1CFB, S1SFB, S1SFBAV are approved for use in the City of Chicago.

Hubbell SystemOne Universal Covers

Universal Carpet Flange and Cover Assembly

■ Cast aluminum construction.
■ Durable powder coat finish.

8.0" Diameter

Color	Catalog No.
Aluminum Finish	**S1CFCAL**
Brass Finish	**S1CFCBRS**
Black	**S1CFCBL**
Gray	**S1CFCGY**
Ivory	**S1CFCI**

Universal Tile Flange and Cover Assembly

■ Cast aluminum construction.
■ Durable powder coat finish.

5.62" Diameter

Color	Catalog No.
Aluminum Finish	**S1TFCAL**
Brass Finish	**S1TFCBRS**
Black	**S1TFCBL**
Gray	**S1TFCGY**
Ivory	**S1TFCI**

Aluminum Finish   Brass Finish   Black   Gray   Ivory

Hubbell SystemOne Sub-Plates

ScrubShield™
C (UL) US LISTED
Complies with UL514 A & C

Hubbell SystemOne Sub-Plates

Decorator/GFCI

(2) Decorator openings for power and/or datacom applications.

3 Non-Metallic   **3.5** Metal

Catalog No.   **S1SP**

Duplex/Duplex

(2) Duplex openings for power and/or datacom applications.

3 Non-Metallic   **3.5** Metal

Catalog No.   **S1SPDU**

Duplex/Decorator

(1) Duplex and (1) Decorator opening for power and/or datacom applications.

3 Non-Metallic   **3.5** Metal

Catalog No.   **S1SPDUSL**

Hubbell 4x4

(4) 20A, 125V receptacles. (4) Keystone openings for Hubbell jacks or flush AV connectors.

4

Catalog No.   **S1SP4X4**

Carpet Furniture Feed Cover/Flange

(1) ¾" & (1) 1½" N.P.T. plugs for power and/or datacom applications. Universal Cover not required. Includes carpet flange.

3 Non-Metallic   **3.5** Metal

Color	Catalog No.
Brass Finish	**S1SPFFBRS***
Aluminum Finish	**S1SPFFAL***
Black	**S1SPFFBL***
Gray	**S1SPFFGY***

Tile Furniture Feed Cover/Flange

(1) ¾" & (1) 1½" N.P.T. plugs for power and/or datacom applications. Universal Cover not required. Includes tile flange.

3 Non-Metallic   **3.5** Metal

Color	Catalog No.
Brass Finish	**S1SPFFTBRS***
Aluminum Finish	**S1SPFFTAL***
Black	**S1SPFFTBL***
Gray	**S1SPFFTGY***

Active Multimedia + Power

Single 20A, 125V receptacle; (2) flush Keystone openings; (1) rectangular Decorator opening to accommodate active multimedia modules.

5

Catalog No.   **S1SPAMM20**

Single Receptacle + Data

20A or 30A Twist-Lock® receptacle (1.56" OD). (2) Keystone openings for Hubbell jacks or flush AV connectors.

4

Catalog No.   **S1SPTL**

Hubbell Datacom + Power

(1) 20A, 125V receptacle. 3-unit recessed **iSTATION™** opening for data, voice, and AV applications.

5

Catalog No.   **S1SP3IM**

Hubbell Datacom + Duplex

(1) Duplex opening, (2) flush Keystone openings and 1.5-unit recessed **iSTATION™** opening for data, voice and AV applications.

5

Catalog No.   **S1SPDU2IM**

Hubbell Datacom + Decorator

(1) Decorator opening, (2) flush Keystone openings and 1.5-unit recessed **iSTATION™** opening for data, voice and AV applications.

5

Catalog No.   **S1SPSL2IM**

Hubbell Datacom

1-unit flush **iSTATION™** opening. 3-unit recessed **iSTATION™** opening for data, voice, and AV applications.

3.5

Catalog No.   **S1SP4IM**

Extron® or FSR + Power

(1) 20A, 125V receptacle. Recessed opening for (3) single Extron® MAAP series adapter plates or FSR IPS plates.

4

Catalog No.   **S1SPEXT1**

Extron® or FSR + Power

(1) 20A, 125V receptacle. Recessed opening for (1) single Extron® MAAP and (2) single AAP series adapter plates or FSR IPS plates.

4

Catalog No.   **S1SPEXT2**

Extron® or FSR Single Service

Recessed opening for (2) single Extron® MAAP and (2) single AAP series adapter plates or FSR IPS plates.

4.5

Catalog No.   **S1SPEXT3**

Extron® AAP + Power

(1) 20A, 125V receptacle. (2) flush Keystone and recessed opening for (2) single Extron® AAP series adapter plates.

4

Catalog No.   **S1SPEXT4**

*Notes: *Furnished with two screw-in flexible metal conduit connectors.*
Extron® is a registered trademark of Extron Electronics.

⌒ Signifies minimum depth of concrete pour in inches for Hubbell SystemOne Metal Floor Boxes (S1CFB, S1SFB and S1SFBAV) and SystemOne Non-Metallic Floor Box (S1PFB).

Hubbell SystemOne Features

ScrubShield™
Complies with UL514 A & C

c(UL)us LISTED

Hubbell SystemOne Universal Cover Features

Hinged doors open 180 degrees flush to the carpet flange or tile.

Screws allow each door to be secured independently.

Universal carpet or tile flange can be used for Hubbell SystemOne metal and non-metallic floor box as well as SystemOne fire-rated poke-throughs.

- Cast aluminum construction available in durable black, gray, brass, aluminum and ivory powder coat finishes.

- Features ScrubShield™ technology that exceeds UL514A and UL514C scrub water exclusion requirements.

- Provides consistent look and maximum functionality throughout the installed life.

Hubbell SystemOne Sub-Plate Features

Can be used in both SystemOne floor boxes and fire-rated poke-throughs.

Accommodates various power and data configurations.

Durable construction.

- Cast aluminum construction.
- Durable powder coat finish.
- Black mat color.
- See the SystemOne Configuration Chart on page I26.

Hubbell SystemOne Accessories

Replacement Side-by-Side Divider

For replacement purposes only. Used to isolate compartments when Catalog No. S1SP, S1SPFFx, S1SPFFTx, S1SPDU, S1SPDUSL, S1SPDU2IM and S1SPSL2IM sub-plates are used. All SystemOne Floor Boxes include this divider.

Catalog No.	**S1DIV1**

Replacement Universal Cover Mounting Clips - 5-pack

For replacement purposes only. Used to mount SystemOne Universal Cover to SystemOne metal and non-metallic floor boxes (S1CFB, S1SFB, S1SFBAV, S1PFB). Includes clips and ground leads for (5) floor boxes. All SystemOne Floor Boxes include mounting clips.

Catalog No.	**S1FBCLIP5PK**

1½" Threaded Hub

Includes 1½" threaded hub for use with S1SFBAV ONLY. Permits feed-through applications. S1SFBAV floor box includes one (1) threaded hub.

Catalog No.	**S1AVHUB15**

Replacement Threaded Conduit Plugs

For replacement purposes only, to be used with S1SPFFx and S1SPFFTx ONLY. Sub-plate is supplied with plugs.

Description	Catalog No.	Description	Catalog No.
1½" Aluminum	**S1FP15AL**	¾" Aluminum	**S1FP34AL**
1½" Brass	**S1FP15BRS**	¾" Brass	**S1FP34BRS**
1½" Black	**S1FP15BL**	¾" Black	**S1FP34BL**
1½" Gray	**S1FP15GY**	¾" Gray	**S1FP34GY**

Decorator Frame, Black

Catalog No.	**2100BK**

Abandonment Plate

Use to cover SystemOne Floor Boxes when cover, flange and sub-plate are removed.

Catalog No. Gray	**S1AP4GY**
Catalog No. Black	**S1AP4BL**

Floor Boxes, Flush Round Single or Multi-Service
Non-Metallic, Concrete

ScrubShield™
Complies with UL514C

C (UL) US LISTED

Dimensions Inches (mm)

PFB1

Min. Depth of Pour	3.00" (76.2)
Capacity	100 cubic inches prior to cutting level to floor (19.5 cubic inches per inch of depth).
Dimensions - A	6.00" (152.4)
Dimensions - B	7.08" (179.8)
Dimensions - C	6.69" (169.9)
Dimensions - D	5.38" (136.5)
Hubs	(2) 1.0" and (2) ¾" conduit hubs
Concrete Cover Included	✔
Closure/Reducer Plugs	(2) 1" plugs close off 1" hubs or reduce 1" to ¾" (2) ¾" plugs close off ¾" hubs or reduce ¾" to ½"

Note: UL File Number E92074. CSA File Number LR18416.

Adapter	Catalog No.
Required for all applications.	**PFBA1A**
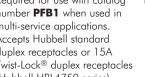
Low Voltage Divider	Catalog No.
Required for use with catalog number **PFB1** when used in multi-service applications. Accepts Hubbell standard duplex receptacles or 15A Twist-Lock® duplex receptacles (Hubbell HBL4750 series).	**PFBT1A**

"Y" Adapter	Catalog No.
¾" "Y" adapter to feed parallel runs of ¾" conduit.	**PFBYA1**

Flush Round Covers and Flanges

Multi-Service Cover and Flange Assemblies	Brass	Brown Non-Metallic	Ivory Non-Metallic	Gray Non-Metallic	Black Non-Metallic
Includes floor box cover with Duplex flaps, (2) ½" dia. low voltage feed through holes and matching carpet flange. 6.25" Diameter.	**SF39253A**	**PFBCBRA**	**PFBCIA**	**PFBCGYA**	**PFBCBLA**

Single Service Covers

	3.88" Diameter	Duplex Flap	Duplex Screw	2⅛" x ¾" Combination	2⅛" x 1" Combination	2⅛" Single Receptacle	2⅜" Single Receptacle	2⅛" Single Receptacle (Terrazzo Floor)
Brass		**S3925**	**S3725**	**S2525**	**S2725**	**S2925**	**S3525**	**S3325**
Aluminum		**SA3925**	**SA3725**	**SA2525**	**SA2725**	**SA2925**	-	-

Metal Carpet Flange

Use with single service covers for carpet applications. 6.25" Diameter.

Brass	Alum. Finish
S3082	**S3082AL**

Adapter Ring

Use with single service covers for tile applications.

Brass	Aluminum
S5016	**SA5016**

Furniture Feed Plate

Unpainted plate with 1" threaded opening.

Steel
PFBP1

Cover and Carpet Flange, One-Piece

6.25" Diameter Duplex Flap	2⅛" x ¾" Combination	2⅛" x 1" Combination	2⅛" Single Receptacle
SF3925*	**SF2525***	**SF2725**	**SF2925**

* Catalog Number S5016 adapter ring is required for mounting SF series covers covers onto PFBA1A.

Floor Boxes, Flush Round, Single Service, Metal, Concrete

ScrubShield™
Complies with UL514A

c(UL)us LISTED

Dimensions Inches (mm)

A B C D (dimension diagram)

	Cast Iron				Stamped Steel	
Collar Material						
Brass	**B2536** **B253641**	**B2503**	**B2506** **B2506415**	**B2537**	**B2527**	**B2529**
Aluminum	**BA2536** –	–	– –	**BA2537**	**BA2527**	**BA2529**
Min. Depth of Pour	3.75" (95.3)	3.75" (95.3)	4.75" (120.7)	3.00" (76.2)	4.00" (101.6)	3.00" (76.2)
Adjustability	Fully	Fully	Fully	Fully	Fully	Fully
Cubic Inch (cm³) Capacity	33.0 cu. in. (540.7 cm³)	36.0 cu. in. (590.0 cm³)	50.8 cu. in. (832.5 cm³)	33.0 cu. in. (540.7 cm³)	54.0 cu. in. (884.9 cm³)	37.3 cu. in. (611.2 cm³)
Dimensions - A	3.05" (77.5)	3.75" (95.3)	4.75" (120.7)	2.87" (72.9)	3.88" (98.6)	2.91" (73.9)
Dimensions - B	4.84" (122.9)	5.00" (127.0)	5.00" (127.0)	4.84" (122.9)	6.00" (152.4)	6.00" (152.4)
Dimensions - C	4.84" (122.9)	4.63" (117.6)	4.66" (118.4)	4.84" (122.9)	4.81" (122.2)	4.81" (122.2)
Dimensions - D	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)
Threaded Access Holes	(4) ¾" (4) 1"	(4) ¾"	(4) 1¼" (4) 1½"	(4) ¾"	–	–
Knockouts - Sides	– –	–	– –	–	(1) 1" & (1) ¾"	(2) ½" & (1) ¾"
Knockouts - Ends	– –	–	– –	–	(1) 1¼" & (1) ¾"	(1) ½" & (1) ½"
Knockouts - Bottom	– –	–	– –	–	(3) ½" & (2) ¾"	(3) ½" & (2) ¾"
Concrete Cover Included	✓	✓	✓	✓	✓	✓
Closure Plugs Included	✓	✓	✓	✓	–	–

Notes: UL File Number E31999.
CSA File Number LR18416.
Suitable for single service applications only.

Single Service Covers

3.88" Diameter

	Duplex Flap	Duplex Screw	2⅛" x ¾" Combination	2⅛" x 1" Combination	2⅛" Single Receptacle	2⅜" Single Receptacle	2⅛" Single Receptacle (Terrazzo Floor)
Brass	**S3925**	**S3725**	**S2525**	**S2725**	**S2925**	**S3525**	**S3325**
Aluminum	**SA3925**	**SA3725**	**SA2525**	**SA2725**	**SA2925**	-	-

Carpet Flanges

5.25" Diameter	Brass	Aluminum	Clear Polycarbonate	6.25" Diameter	Brass	Aluminum Finish
	S3182	**SA3182**	**S3079**		**S3082**	**S3082AL**

Cover and Carpet Flange, One-Piece

6.25" Diameter

	Duplex Flap	2⅛" x ¾" Combination	2⅛" x 1" Combination	2⅛" Single Receptacle
	SF3925	**SF2525**	**SF2725**	**SF2925**

Floor Boxes, Flush Rectangular, Non-Metallic Concrete with Non-Metallic Covers

ScrubShield™
Complies with UL514C

Rectangular Floor Boxes, Flush

Dimensions Inches (mm)

Style	1-Gang	2-Gang	3-Gang
	PFBRG1*	**PFBRG2**	**PFBRG3**
Min. Depth of Pour	3.00" (76.2)	3.00" (76.2)	3.00" (76.2)
Adjustability	Fully	Fully	Fully
Cubic Inch (cm³) Capacity Per Gang	14.3 cu. in. (234.3 cm³) per 1" depth	14.3 cu. in. (234.3 cm³) per 1" depth	14.3 cu. in. (234.3 cm³) per 1" depth
Dimensions - A	6.00" (152.4)	6.00" (152.4)	6.00" (152.4)
Dimensions - B	3.60" (91.4)	6.82" (173.2)	10.04" (255.0)
Dimensions - C	5.42" (137.7)	5.42" (137.7)	5.42" (137.7)
Dimensions - D	6.90" (175.3)	6.90" (175.3)	6.90" (175.3)
Dimensions - E	5.44" (138.2)	8.66" (220.0)	11.87" (301.5)
Hubs	(4) 1"	(6) 1"	(8) 1"
Reducers	(4) 1" to ¾"	(6) 1" to ¾"	(8) 1" to ¾"
Concrete Cover Included	✓	✓	✓
Closure Plugs and Reducers Included	✓	✓	✓
Removable LV Barrier	–	✓	✓

Notes: UL File Number E92074.
    CSA File Number LR18416.
    * Suitable for single service applications only.

Flush Rectangular, Non-Metallic Covers and Flanges

Required Components for Carpet Applications

Carpet Flanges

Cover with Duplex and Decorator Inserts included

One Required per Gang 4.15" x 2.97"

Number of Gangs	1-Gang	2-Gang	3-Gang	Duplex Insert	Cover	Decorator Insert
Dimensions	6.00" x 4.88"	6.00" x 8.13"	6.00" x 11.35"			
Black	**PFBRFBL1**	**PFBRFBL2**	**PFBRFBL3**		**PFBR826BLA**	
Brown	**PFBRFBR1**	**PFBRFBR2**	**PFBRFBR3**		**PFBR826BRA**	
Gray	**PFBRFGY1**	**PFBRFGY2**	**PFBRFGY3**		**PFBR826GYA**	
Ivory	**PFBRFI1**	**PFBRFI2**	**PFBRFI3**		**PFBR826IA**	

Required Components for Tile Applications

Cover with Duplex and Decorator
Inserts included - Gray
One Required per Gang
Cover Dim. 4.15" x 2.97"

Mounting Collar
One Required per Gang

Cover Frame
One Required per Gang
Dim. 4.47" x 3.25"

Duplex Insert   Cover   **Decorator** Insert

PFBRMC

PFBRFRA

PFBR826GYA

Floor Boxes, Flush Rectangular Non-Metallic Concrete with Metal Covers

ScrubShield™
Complies with UL514C

UL CSA

Rectangular Floor Boxes, Flush

Dimensions Inches (mm)

Style		1-Gang	2-Gang	3-Gang
		PFBRG1*	**PFBRG2**	**PFBRG3**
Min. Depth of Pour		3.00" (76.2)	3.00" (76.2)	3.00" (76.2)
Adjustability		Fully	Fully	Fully
Cubic Inch (cm³) Capacity Per Gang		14.3 cu. in. (234.3 cm³) per 1" depth	14.3 cu. in. (234.3 cm³) per 1" depth	14.3 cu. in. (234.3 cm³) per 1" depth
Dimensions - A		6.00" (152.4)	6.00" (152.4)	6.00" (152.4)
Dimensions - B		3.60" (91.4)	6.82" (173.2)	10.04" (255.0)
Dimensions - C		5.42" (137.7)	5.42" (137.7)	5.42" (137.7)
Dimensions - D		6.90" (175.3)	6.90" (175.3)	6.90" (175.3)
Dimensions - E		5.44" (138.2)	8.66" (220.0)	11.87" (301.5)
Hubs		(4) 1"	(6) 1"	(8) 1"
Reducers		(4) 1" to ¾"	(6) 1" to ¾"	(8) 1" to ¾"
Concrete Cover Included		✓	✓	✓
Closure Plugs and Reducers Included		✓	✓	✓
Removable LV Barrier		–	✓	✓

Notes: UL File Number E92074.
CSA File Number LR18416.
* Suitable for single service applications only.

Flush Rectangular, Metal Covers and Flanges

Required Components for Carpet and Tile Applications

Adapter Collar - One Required per Gang
Gray **PFBRAC**

Adapter Frame with Grounding Lug - One Required per Gang
Dim. 4.36" x 3.20"
Brass **S5017G**
Aluminum **SA5017G**

Covers - One Required per Gang

	Duplex Flap	Duplex Screw	Decorator Opening	2⅛" x ¾" Combination	2⅛" x 1" Combination	2⅛" Single Receptacle	Blank
Brass	**S3825**	**S3625**	**S3826**	**S2425**	**S2625**	**S2825**	**S3813**
Aluminum Dimensions: 4.15" x 2.99"	**SA3825**	**SA3625**	**SA3826**	**SA2425**	**SA2625**	-	**SA3813**

Carpet Flanges (Not Required for Tile Applications)

Tapered Flange

No. of Gangs	1-Gang	2-Gang	3-Gang
Dimensions	6" x 4.85"	6" x 8.13"	6" x 11.34"
Brass	**SB3083**	**SB3084**	**SB3085**
Aluminum	**SA3083**	**SA3084**	**SA3085**

Floor Boxes, Flush Rectangular, Cast Iron, Concrete

ScrubShield™
Complies with UL514A

Dimensions Inches (mm)

Cast Iron

Style	1-Gang Deep	2-Gang Deep	3-Gang Deep	1-Gang Shallow	2-Gang Shallow	3-Gang Shallow
Collar Material						
Brass	B2436* B243641*	B4233 B423341	B4333 B433361	B2414*	B4214	B4314
Aluminum	BA2436* –	BA4233 –	BA4333 –	–	–	–
Min. Depth of Pour	3.75" (95.3)	3.75" (95.3)	3.75" (95.3)	2.00" (50.8)	2.00" (50.8)	2.00" (50.8)
Adjustability	Fully	Fully	Fully	Semi	Semi	Semi
Cubic Inch (cm³) Capacity Per Gang	33.0 cu. in. (540.7 cm³)	36.5 cu. in. (598.1 cm³)	34.8 cu. in. (570.3 cm³)	16.0 cu. in. (262.2 cm³)	16.0 cu. in. (262.2 cm³)	16.0 cu. in. (262.2 cm³)
Dimensions - A	3.20" (81.3)	3.38" (85.9)	3.38" (85.9)	2.00" (50.8)	2.00" (50.8)	2.00" (50.8)
Dimensions - B	4.69" (119.1)	4.84" (122.9)	4.90" (122.5)	5.46" (138.7)	5.46" (138.7)	5.46" (138.7)
Dimensions - C	4.69" (119.1)	8.06" (204.7)	11.41" (289.8)	4.19" (106.4)	7.49" (190.2)	10.7" (271.8)
Dimensions - D	4.36" (110.7)	4.36" (110.7)	4.36" (110.7)	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)
Dimensions - E	3.19" (81.0)	6.42" (163.1)	9.64" (244.9)	3.19" (81.0)	6.38" (162.1)	9.56" (242.8)
Threaded Access Holes	(4) ¾" (4) 1"	(6) ¾" (4) 1" & (2) ¾"	(8) ¾" (6) 1" & (2) ¾"	(2) ¾"	(4) ¾"	(6) ¾"
Concrete Cover Included	✓	✓	✓	✓	✓	✓
Closure Plugs Included	✓	✓	✓	✓	✓	✓
Removable LV Barrier	–	✓	✓	–	–	–

Notes: UL File Number E92074.
CSA File Number LR18416.
* Suitable for single service applications only.

Floor Box Covers, Flush Rectangular

	Duplex Flap	Duplex Screw	Decorator Opening	2⅛" x ¾" Combination	2⅛" x 1" Combination	2⅛" x Single Receptacle	2⅜" Single Receptacle	Blank
Brass	S3825	S3625	S3826	S2425	S2625	S2825	S3425	S3813
Aluminum	SA3825	SA3625	SA3826	SA2425	SA2625	–	–	SA3813

Dimensions: 4.15" x 2.99"

Carpet Flanges

Tapered Flange	1-Gang	2-Gang	3-Gang
Dimensions	6.00" x 4.85"	6.00" x 8.13"	6.00" x 11.34"
Brass	SB3083	SB3084	SB3085
Aluminum	SA3083	SA3084	SA3085
Clear Polycarbonate	S3083	S3084	S3085

Floor Boxes, Flush Rectangular, Stamped Steel, Concrete

ScrubShield™
Complies with UL514C

Dimensions Inches (mm) | **Stamped Steel**

Style	1-Gang Deep	2-Gang Deep	3-Gang Deep	1-Gang Shallow	2-Gang Shallow	3-Gang Shallow	1-Gang Deep	1-Gang Shallow
Collar Material Brass	**B2431***	**B2432**	**B2433**	**B2421***	**B2422**	**B2423**	**B2427***	**B2429***
Aluminum	**BA2431***	**BA2432**	**BA2433**	**BA2421***	**BA2422**	**BA2423**	–	–
Min. Depth of Pour	3.75" (95.3)	3.75" (95.3)	3.75" (95.3)	2.75" (69.9)	2.75" (69.9)	2.75" (69.9)	4.00" (101.6)	3.00" (76.2)
Adjustability	Fully	Fully	Fully	Fully	Fully	Fully	Fully	Fully
Cubic Inch (cm³) Capacity Per Gang	60.0 cu. in. (983.2 cm³)	52.8 cu. in. (865.2 cm³)	50.8 cu. in. (832.5 cm³)	39.5 cu. in. (647.3 cm³)	35.0 cu. in. (573.5 cm³)	34.0 cu. in. (557.2 cm³)	54.0 cu. in. (884.9 cm³)	37.3 cu. in. (611.2 cm³)
Dimensions – A	3.72" (94.5)	3.72" (94.5)	3.72" (94.5)	2.74" (69.6)	2.74" (69.6)	2.74" (69.6)	3.90" (99.1)	2.81" (71.4)
Dimensions – B	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)
Dimensions – C	6.00" (152.4)	9.25" (235.0)	12.50" (317.5)	6.00" (152.4)	9.25" (235.0)	12.50" (317.5)	6.00" (152.4)	6.00" (152.4)
Dimensions – D	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.2)	4.38" (111.2)
Dimensions – E	3.19" (81.0)	6.44" (163.6)	9.67" (245.6)	3.19" (81.0)	6.44" (163.6)	9.67" (245.6)	3.19" (81.0)	3.19" (81.0)
Knockouts – Sides	(1) ¾",1",1¼"	(2) ¾",1",1¼"	(3) ¾",1",1¼"	(2) ½",(1) ¾"	(4) ½",(1) ¾"	(6) ½",(1) ¾"	(1) ½",(1) 1¼"	(2) ½",(1) ¾"
Knockouts – Ends	(1) ¾",1",1¼"	(1) ¾",1",1¼"	(1) ¾",1",1¼"	(1) ½",(1) ¾"	(2) ½",(1) ¾"	(2) ½",(1) ¾"	(1) ¾",(1) 1"	(1) ½",(1) ¾"
Knockouts – Bottom	(2) ¾",1",1¼"	(4) ¾",1",1¼"	(6) ¾",1",1¼"	(2) ¾",1",1¼"	(4) ¾",1",1¼"	(6) ¾",1",1¼"	(3) ½",(2) ¾"	(3) ½",(2) ¾"
Concrete Cover Included	✓	✓	✓	✓	✓	✓	✓	✓
Closure Plugs Included	–	–	–	–	–	–	–	–
Removable LV Barrier	–	✓	✓	–	✓	✓	–	–

Notes: *UL File Number E92074.*
CSA File Number LR18416.
* Suitable for single service applications only.

Floor Box Covers, Flush Rectangular

	Duplex Flap	Duplex Screw	Decorator Opening	2⅛" x ¾" Combination	2⅛" x 1" Combination	2⅛" x Single Receptacle	2⅜" Single Receptacle	Blank
Brass	**S3825**	**S3625**	**S3826**	**S2425**	**S2625**	**S2825**	**S3425**	**S3813**
Aluminum	**SA3825**	**SA3625**	**SA3826**	**SA2425**	**SA2625**	–	–	**SA3813**

Dimensions: 4.15" x 2.99"

Carpet Flanges

Tapered Flange	1-Gang	2-Gang	3-Gang
Dimensions	6.00" x 4.85"	6.00" x 8.13"	6.00" x 11.34"
Brass	**SB3083**	**SB3084**	**SB3085**
Aluminum	**SA3083**	**SA3084**	**SA3085**
Clear Polycarbonate	**S3083**	**S3084**	**S3085**

Floor Boxes, Recessed 4- and 8-Gang Concrete

ScrubShield™
Complies with UL514A

Dimensions Inches (mm)	Stamped Steel			Cast Iron
Style	4-Gang Deep	4-Gang Shallow	8-Gang Deep	4-Gang Shallow
	HBLCFB301BASE	**HBLCFB401BASE**	**HBLCFB501BASE**	**HBLCFB401CB**
Min. Depth of Pour	4.25" (107.6)	3.00" (76.2)	5.25" (133.4)	3.25" (82.6)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm³) Capacity Per Chamber	29.5 cu. in. (483.4 cm³)	25.5 cu. in. (417.9 cm³)	49.5 cu. in. (811.2 cm³)	25.5 cu. in. (417.9 cm³)
Dimensions – A	4.0" (101.6)	2.63" (66.8)	5.13" (130.3)	3.13" (79.5)
Dimensions – B	10.0" (254.0)	10.0" (254.0)	10.0" (254.0)	10.0" (254.0)
Dimensions – C	10.0" (254.0)	10.0" (254.0)	10.0" (254.0)	10.0" (254.0)
Threaded Access Holes – Per Chamber	–	–	–	(2) 1"
Knockouts – Per Chamber	(1) Concentric ½", ¾" (1) Concentric ¾", 1" (1) 1¼"	(3) Concentric ½", ¾"	(1) Concentric ½", ¾" (1) Concentric ¾", 1" (1) 1¼"	–
Concrete Cover Included	✓	✓	✓	✓
Closure Plugs Included	–	–	–	✓

Notes: UL File Number E197203.
CSA File Number LR702145.

Recessed Floor Box Covers

Die Cast Zinc Cover and Flange Assembly
Dimensions 10.69" x 10.69"

	Granite	Black
Catalog No.	**HBLTCGNTSW**	**HBLTCGNTBKSW**

Hubbell Screw Type Face Plates*

Duplex	Decorator	Toggle	Single Receptacle (1.56" Boss Dia.)	Single Receptacle (1.39" Boss Dia.)	Blank	Hubbell iSTATION™ (See page B23 for module options)	Hubbell 6-port
HBLST302SGY	**HBLDE301SGY**	**HBLTO310SGY**	**HBLTL318SGY**	**HBLTL319SGY**	**HBLBL300SGY**	**HBLIMFSGY**	**HBL317SGY**

*Note: * Catalog No. indicated is gray, replace "**GY**" with the following to designate color: "**BK**" for Black, "**WA**" for White, "**I**" for Ivory.*

Floor Boxes , Recessed 6-Gang Concrete

ScrubShield™
Complies with UL514A

Dimensions Inches (mm)	**Stamped Steel**	**Cast Iron**
Style	6-Gang	6-Gang
	LCFBSSA	**LCFBCA**
Min. Depth of Pour	3.50" (88.9)	3.65" (92.7)
Adjustability	Fully	Fully
Cubic Inch (cm³) Capacity Per Chamber	(4) at 38.2 cu. in. (626.0 cm³) (2) at 25.4 cu. in. (416.2 cm³)	(4) at 36.8 cu. in. (603.0 cm³) (2) at 25.4 cu. in. (416.2 cm³)
Dimensions – A	6.18" (157.0)	6.35" (161.3)
Dimensions – B	12.95" (328.9)	13.11" (333.0)
Dimensions – C	12.95" (328.9)	13.11" (333.0)
Threaded Access Holes – Per Chamber	–	(1) ¾" (1) 1¼"
Knockouts – Per Chamber	(1) Concentric 1", 1¼" (1) ¾"	–
Concrete Cover Included	✓	✓
Closure Plugs Included	–	✓
Cover Mounting Brackets Included	✓	✓

Notes: UL File Number E31999.
CSA File Number LR18416.

Recessed Floor Box Covers

Smooth Metallic Cover Flange and Cable Doors for Carpet Applications	Cover Dimensions 10.30" x 10.30"	Aluminum Finish	**LCFBCALTC**
		Brass Finish	**LCFBCBRSTC**
		Black	**LCFBCBKTC**
		Gray	**LCFBCGYTC**
Metallic Cover Flange and Cable Doors for Carpet Applications – Carpet Insert Required	Cover Dimensions 10.30" x 10.30"	Aluminum Finish	**LCFBCALC**
		Brass Finish	**LCFBCBRSC**
		Black	**LCFBCBKC**
		Gray	**LCFBCGYC**
Reinforced Non-Metallic Cover Flange and Cable Doors for Carpet Applications – Carpet Insert Required	Cover Dimensions 10.30" x 10.30"	Black	**LCFBCBKA**
		Brown	**LCFBCBRA**
		Gray	**LCFBCGYA**
		Ivory	**LCFBCIA**
Smooth Metallic Cover and Cable Doors for Tile Applications	Cover Dimensions 8.31" x 7.70"	Aluminum Finish	**LCFBCALT**
		Brass Finish	**LCFBCBRST**
		Black	**LCFBCBKT**
		Gray	**LCFBCGYT**

Face Plates

Duplex	Decorator	Single Receptacle (1.56" Boss Dia.)	3-Unit iSTATION™ (See page B23 for module options)	Blank
LCFBP8	**LCFBP26**	**LCFBP720**	**LCFBIM**	**LCFBP14**

Floor Boxes, Recessed, 3-Service, Concrete

3-Service Floor Boxes

Dimensions Inches (mm)	Stamped Steel	Cast Iron
	3SFBSS	**3SFBC**
Min. Depth of Pour	3.00" (76.2)	3.00" (76.2)
Adjustability	Fully	Fully
Cubic Inch (cm^3) Capacity Per Chamber	22.4 cu. in. (367.1 cm^3)	21.6 cu. in. (354.0 cm^3)
Dimensions – A	2.88" (73.2)	3.00" (76.2)
Dimensions – B	12.20" (309.9)	12.88" (327.2)
Dimensions – C	5.52" (140.2)	6.00" (152.4)
Threaded Access Holes	–	Sides (2) ¾" Ends (1) 1¼" Center Area (1) 1¼" (each side)
Knockouts	Sides (2) ¾" Ends (1) 1" Center Area (1) Concentric 1", 1¼" (each side)	–
Concrete Cover Included	✓	✓
Closure Plugs Included	–	✓

Notes: UL File Number E31999.
CSA File Number LR18416.

Recessed Floor Box Covers, Carpet Applications

Reinforced Non-Metallic Cover, Flange and Cable Doors - Carpet Insert Required - Dimensions 11.88" x 5.20"

Brown	Ivory	Gray	Black
3SFBCBRA	**3SFBCIA**	**3SFBCGYA**	**3SFBCBKA**

Face Plates

Duplex Knockout	Decorator Opening	Single Receptacle Opening (1.39" Base Dia.)	Blank	Voice/Data (2) Jack Knockouts (0.6" x 0.75")	3-Unit **iSTATION**™ Opening (See page B23 for module options)
3SFBRP	**3SFBDS**	**3SFBS**	**3SFBB**	**3SFBTP**	**3SFBIM**

Raised Access Floor Boxes (Unloaded), and Face Plates

Raised Access Floor Boxes

Dimensions Inches (mm)		**Metallic Cover**			**Non-Metallic Cover**
Style		4-Gang Deep	4-Gang Shallow	8-Gang Deep	4-Gang Deep
Cover Color Black Gray		AFB301BK▶ AFB301GNT▶	AFB401BK▶ AFB401GNT▶	AFB501BK▶ AFB501GNT▶	HBLAFB101BK* HBLAFB101GNT*
Max. Floor Thickness		2.75" (69.9)	1.88" (47.8)	3.75" (95.3)	2.00" (50.8)
Cubic Inch (cm³) Capacity Per Gang		29.5 cu. in. (483.4 cm³)	25.5 cu. in. (417.9 cm³)	49.5 cu. in. (811.2 cm³)	(2) 22.5 cu. in. (368.7 cm³) (2) 20.5 cu. in. (335.9 cm³)
Dimensions – A		4.00" (101.6)	2.62" (66.5)	5.12" (130.0)	5.18" (131.6)
Dimensions – B		10.00" (254.0)	10.00" (254.0)	10.00" (254.0)	9.00" (228.6)
Dimensions – C		10.00" (254.0)	10.00" (254.0)	10.00" (254.0)	7.00" (177.8)
Cover Flange Dimensions		12.00" x 12.00"	12.00" x 12.00"	12.00" x 12.00"	10.62" x 8.62"
Knockouts – Sides		(1) ½", (2) ½" and ¾", (4) 1¼" trade size	(1) ½", (6) ½" and ¾" trade size	(1) ½", (2) ½" and ¾", (4) 1¼" trade size	(4) ½" & ¾", (4) ¾" and 1" trade size
Knockouts – Bottom		(4) ¾" and 1" trade size	(4) ¾" and 1" trade size	(4) ¾" and 1" trade size	(4) ¾" and 1" trade size
Cover and Flange Included (Carpet or tile application)		✓	✓	✓	✓
Floor Tile Cut-Out		10.25" x 10.25"	10.25" x 10.25"	10.25" x 10.25"	9.00" x 7.00"

Notes: UL File Number E197203.
CSA File Number LR702145.

Replacement Metallic Cover and Flange

Description	Dimensions	Color	Catalog No.
Cover and Flange	12"W x 12"L	Gray	**HBLTCGNT**
Cover and Flange	12"W x 12"L	Black	**HBLTCGNTBK**

HBLTCGNT

Replacement Non-Metallic Cover and Flange

Description	Dimensions	Color	Catalog No.
Cover and Flange	7"W x 9"L	Gray	**HBLAFB101TCGNT***
Cover and Flange	7"W x 9"L	Black	**HBLAFB101TCBK***

Notes: ▶*For City of Chicago approved versions, use following part numbers: HBLAFB301BASEC,*
HBLAFB401BASEC and HBLAFB501BASEC. Cover must be ordered separately
(i.e., HBLTCGNT and HBLTCGNTBK). These versions do not include knockouts and
meet construction requirements for CCEA-2000.
AFB covers are reversible for both carpet recess and flush tile applications.
* Insert for flush tile applications included. Remove insert for carpet recess.

HBLAFB101TCGNT*

Hubbell Screw Type Face Plates*

Duplex	Decorator	Toggle	Single Receptacle (1.56" Boss Dia.)	Single Receptacle (1.39" Boss Dia.)	Blank	Hubbell iSTATION™ (See page B23 for module options)	Hubbell 6-port
HBLST302SGY	**HBLDE301SGY**	**HBLTO310SGY**	**HBLTL318SGY**	**HBLTL319SGY**	**HBLBL300SGY**	**HBLIMFSGY**	**HBL317SGY**

*Note: * Catalog No. indicated is gray, replace "**GY**" with the following to designate color: "**BK**" for Black, "**WA**" for White, "**I**" for Ivory.*

Hubbell SystemOne Fire-Rated Poke-Throughs
4-Inch Core Hole

ScrubShield™
Complies with UL514A

c (UL) us

Hubbell SystemOne Through-Floor Fittings

Step down installation clips allow the fitting to be installed or removed from the floor above.

Fire barrier expands during fire conditions to maintain the floor's fire rating.

Adjustable lower fire barrier accommodates concrete floor thicknesses from 2¼ to 7 in.

Features E.M.T. conduit tubes for increased cable capacity.

- Accepts all Hubbell SystemOne covers and sub-plates.
- Excellent solution for both retrofit and new construction.
- Brings power, voice, data and multimedia precisely where needed.
- Installs in 4 inch core hole.
- UL listed for use in 1-4 hour fire rated floors.
- UL installation spacing. Minimum 2 ft. on center and not more than one per 65 sq. ft. of floor area.
- Approved for use in the City of Chicago.
- Available with integral power junction box.

Hubbell SystemONE Universal Cover

Hinged doors open 180 degrees flush to the carpet flange or tile.

Screws allow each door to be secured independently.

Universal carpet or tile flange can be used for Hubbell SystemOne Fire-Rated Poke-Through as well as Hubbell SystemOne Floor Boxes.

- Cast aluminum construction available in durable black, gray, brass, aluminum and ivory powder coat finishes.
- Features ScrubShield™ technology that exceeds UL514C scrub water exclusion requirements.
- Provides consistent look and maximum functionality throughout the installed life.
- See the SystemOne Configuration Chart on page I26.

Hubbell SystemOne Sub-Plates

While no one can predict the future, Hubbell's modular sub-plate design allows users to economically upgrade Hubbell SystemOne FRPT and Floor Boxes to accommodate future moves, adds and changes.

- Durable cast aluminum, powder coat construction.
- Hubbell 4x4: four 20A, 125V receptacles, four openings for voice/data jacks and multimedia connectors.
- Hubbell iSTATION™ front loading modular connectivity.
- Accommodates Extron® Electronics Architectural Series audio/video system integration products.
- Accommodates GFCI, surge and standard Decorator receptacles.
- Twist-Lock® receptacle with flush keystone jack openings.
- Large capacity and multi-service furniture feed applications.

Hubbell SystemOne Fire-Rated Poke-Throughs
4-Inch Core Hole One-Piece Units

ScrubShield™
Complies with UL514A

c (UL) us

Hubbell SystemOne FRPT - One-Piece Units

4x4 Poke-Through, One-Piece

Description	Color	Catalog No.*
Assembled-unit includes Hubbell SystemOne 4X4 floor fitting (S1PT4X4FIT) with four pre-wired 20A, 125V receptacles and four keystone opening sub-plate (S1SP4X4) to accept Hubbell modular jacks and flush multimedia AV connectors. Receptacles feature single or two circuit wiring, as well as isolated ground capability. Finish flange and universal carpet cover (S1CFCxx) assembly are supplied in aluminum, brass, black or gray finishes.	Aluminum Finish	**S1PT4X4AL**
	Brass Finish	**S1PT4X4BRS**
	Black	**S1PT4X4BL**
	Gray	**S1PT4X4GY**

Dual Decorator Poke-Through, One-Piece

Description	Color	Catalog No.*
Assembled-unit includes a Hubbell SystemOne dual channel floor fitting (S1PTFIT) and two Decorator opening sub-plate (S1SP) to accept two Decorator or one surge or GFCI receptacle and one Decorator receptacle. Additionally, outlet frames can be used to convert the application to a 6-port multi-service or a 12-port all communication solution. Finish flange and universal carpet cover (S1CFCxx) assembly are supplied in aluminum, brass, black or gray finishes.	Aluminum Finish	**S1PTAL**
	Brass Finish	**S1PTBRS**
	Black	**S1PTBL**
	Gray	**S1PTGY**

Modular AV Poke-Through, One-Piece

Description	Color	Catalog No.*
Assembled-unit includes a Hubbell SystemOne AV floor fitting (S1PTAVFIT) and a Hubbell SystemOne sub-plate (S1SP3IM) to provide a 20A, 125V power outlet and a recessed 3-unit **iSTATION**™ opening. This comprehensive data/voice/audio/and video solution can accommodate 15-pin VGA, RCA, S-Video, 3.5mm stereo, and XLR microphone jacks. Finish flange and universal carpet cover (S1CFCxx) assembly are supplied in aluminum, brass, black or gray finishes.	Aluminum Finish	**S1PT3IMAL**
	Brass Finish	**S1PT3IMBRS**
	Black	**S1PT3IMBL**
	Gray	**S1PT3IMGY**

Furniture Feed Poke-Through, One-Piece

Description	Color	Catalog No.*
Assembled-unit includes a Hubbell SystemOne AV floor fitting (S1PTAVFIT) and a Hubbell SystemOne Furniture Feed Cover Plate (S1SPFFxx). This solution provides one ¾" conduit opening for power and one 1½" conduit opening for low-voltage. Available in aluminum, brass, black or gray finishes. Furnished with two screw-in flexible metal conduit connectors.	Aluminum Finish	**S1PTFFAL**
	Brass Finish	**S1PTFFBRS**
	Black	**S1PTFFBL**
	Gray	**S1PTFFGY**

* For integral Power Junction Box, add "J" suffix to catalog number (Example: S1PT4X4ALJ).

Aluminum Finish	Brass Finish	Black	Gray

Hubbell SystemOne FRPT
4-Inch Core Hole Three-Piece Units

ScrubShield™
Complies with UL514A
c(UL)us

Hubbell SystemOne FRPT - Three-Piece Units

4x4 Through-Floor Fitting

Description	Catalog No.*
Through floor fitting with two ¾" E.M.T. for communications and one ¾" E.M.T. for power. For use with Hubbell SystemOne Universal Covers and S1SP4X4 and S1SPTL series sub-plates only. Universal cover and sub-plate ordered separately.	**S1PT4X4FIT**

Dual Channel Through-Floor Fitting

Description	Catalog No.*
Through floor fitting with two 1" E.M.T. trade size conduit stems to feed power and communication services. For use with Hubbell SystemOne universal covers and all Hubbell sub-plates except S1SP4X4 and S1SPTL series. Universal cover and sub-plate ordered separately.	**S1PTFIT**

AV Through-Floor Fitting

Description	Catalog No.*
Through floor fitting with one ¾" E.M.T. trade size conduit stem for power and one 1½" E.M.T. trade size conduit stem for communication services. Ideal for demanding, large capacity audio/video and data requirements. For use with Hubbell SystemOne universal covers and all Hubbell sub-plates except S1SP4X4 and S1SPTL series. Universal cover and sub-plate ordered separately.	**S1PTAVFIT**

* For Integral Power Junction Box, add "J" suffix, (Example: S1PT4X4FITJ).

Hubbell SystemOne Universal Covers Not required for furniture feed applications.

Universal cover assembly installs on the Hubbell SystemOne fire-rated poke-through floor fittings and acommodates all Hubbell SystemOne sub-plates for carpet and tile applications.

Carpet Assembly Covers

Aluminum Finish	Brass Finish	Black	Gray	Ivory
S1CFCAL	**S1CFCBRS**	**S1CFCBL**	**S1CFCGY**	**S1CFCI**

Tile Assembly Covers

Aluminum Finish	Brass Finish	Black	Gray	Ivory
S1TFCAL	**S1TFCBRS**	**S1TFCBL**	**S1TFCGY**	**S1TFCI**

Hubbell SystemOne Fire-Rated Poke-Through Accessories

S1AP4BL

S1FRP4BL

S1FRPTJB

Abandonment Plate

Description	Color	Catalog No.
Use with Hubbell SystemOne 4-inch core hole Poke-Throughs to cover the opening when FRPT is abandoned. Cover, Flange and Sub-Plate are removed and through-floor fitting remains.	Gray	**S1AP4GY**
	Black	**S1AP4BL**

Fire-Rated Closure Plug

Description	Color	Catalog No.
This plug seals 4-inch core hole when FRPT is no longer required and the through-floor fitting is removed. Maintains the floor's 1–4 hour fire rating.	Gray	**S1FRP4GY**
	Black	**S1FRP4BL**

Power Junction Box

Description		Catalog No.
For use with SystemOne Fire-Rated Poke-Throughs. Provides 27.0 cubic inches. cULus Listed.		**S1FRPTJB**

Hubbell SystemOne Sub-Plates

ScrubShield™
Complies with UL514A

c(UL)us

Hubbell SystemOne Sub-Plates

Decorator/GFCI
(2) Decorator openings for power and/or datacom applications. Use with **S1PTFIT** (recommended) or **S1PTAVFIT**.

Catalog No. **S1SP**

Duplex/Duplex
(2) Duplex openings for power and/or datacom applications. Use with **S1PTFIT** (recommended) or **S1PTAVFIT**.

Catalog No. **S1SPDU**

Duplex/Decorator
(1) Duplex and (1) Decorator opening for power and/or datacom applications. Use with **S1PTFIT** (recommended) or **S1PTAVFIT**.

Catalog No. **S1SPDUSL**

Hubbell 4x4
(4) 20A, 125V receptacles. (4) Keystone openings for Hubbell jacks or flush AV connectors. Use with **S1PT4X4FIT** only.

Catalog No. **S1SP4X4**

Carpet Furniture Feed Cover
(1) ¾" & (1) 1½" N.P.T. plugs for power and/or datacom applications. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**. Universal Cover not required. Includes carpet flange.

Color	Catalog No.
Brass Finish	**S1SPFFBRS**
Aluminum Finish	**S1SPFFAL**
Black	**S1SPFFBL**
Gray	**S1SPFFGY**

Tile Furniture Feed Cover
(1) ¾" & (1) 1½" N.P.T. plugs for power and/or datacom applications. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**. Universal Cover not required. Includes tile flange.

Color	Catalog No.
Brass Finish	**S1SPFFTBRS**
Aluminum Finish	**S1SPFFTAL**
Black	**S1SPFFTBL**
Gray	**S1SPFFTGY**

Single Receptacle + Data
20 or 30A **Twist-Lock®** receptacle (1.56" OD). (2) Keystone openings for Hubbell jacks or flush AV connectors. Use with **S1PT4X4FIT** only.

Catalog No. **S1SPTL**

Hubbell Datacom + Power
(1) 20A, 125V receptacle. 3-unit recessed **iSTATION™** opening for data, voice, and AV applications. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SP3IM**

Hubbell Datacom + Duplex
(1) Duplex opening, (2) flush keystone openings and 1.5-unit recessed **iSTATION™** opening for data, voice and AV applications. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SPDU2IM**

Hubbell Datacom + Decorator
(1) Decorator opening, (2) flush keystone openings and 1.5-unit recessed **iSTATION™** opening for data, voice, and AV applications. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SPSL2IM**

Hubbell Datacom
1-unit flush **iSTATION™** opening. 3-unit recessed **iSTATION™** opening for data, voice, and AV applications. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SP4IM**

Active Multimedia + Power
Single 20A, 125V receptacle; (2) flush Keystone openings; (1) rectangular Decorator opening to accommodate active multimedia modules.

Catalog No. **S1SPAMM20**

Extron® or FSR + Power
(1) 20A, 125V receptacle. Recessed opening for (3) single Extron® MAAP series adapter plates or FSR IPS Plates. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SPEXT1**

Extron® or FSR + Power
(1) 20A, 125V receptacle. Recessed opening for (1) single Extron® MAAP and (2) single AAP series adapter plates or FSR IPS Plates. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SPEXT2**

Extron® or FSR Single Service
Recessed opening for (2) single Extron® MAAP and (2) single AAP Series adapter plates or FSR IPS Plates. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SPEXT3**

Extron® AAP + Power
(1) 20A, 125V receptacle. (2) flush Keystone openings and recessed opening for (2) single Extron® AAP series adapter plates. Use with **S1PTAVFIT** (recommended) or **S1PTFIT**.

Catalog No. **S1SPEXT4**

* Furnished with two screw-in flexible metal conduit connectors.
Extron® is a registered trademark of Extron Electronics.

Fire-Rated Poke-Throughs, 2x2 Flush
3-Inch Core Hole Units

ScrubShield™
Complies with UL514A

Fire-Rated Poke-Throughs, 2x2 - One-Piece Units

2x2 Aluminum Poke-Through

Complete assembled unit includes:
- **PT2X2FIT** through-floor fitting.
- Pre-wired 20A duplex Decorator receptacle & (2) Category 5e data jacks.
- Non-metallic cover.
- Painted aluminum flange.
- UL Listed and CSA Certified.
- Approved for use in the City of Chicago.

Color	Catalog No.
Black	**PT2X2BL**
Gray	**PT2X2GY**
Black	**PT2X2IGBL***
Gray	**PT2X2IGGY***

* Includes pre-wired 20A isolated ground Duplex Decorator receptacle.

PT2X2GY
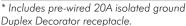
2x2 Black/Brass Poke-Through

Complete assembled unit includes:
- **PT2X2FIT** through-floor fitting.
- Pre-wired 20A duplex Decorator receptacle & (2) Category 5e data jacks.
- Non-metallic cover.
- Solid Brass flange.
- UL Listed and CSA Certified.
- Approved for use in the City of Chicago.

Color	Catalog No.
Black/Brass	**PT2X2BRS3**
Brass Finish/Brass	**PT2X2BRS**
Black/Brass	**PT2X2IGBRS3***
Brass Finish/Brass	**PT2X2IGBRS***

* Includes pre-wired 20A isolated ground Duplex Decorator receptacle.

PT2X2BRS3

Fire-Rated Poke-Throughs, 2x2 Flush - Two-Piece Units

Multi-Channel Through-Floor Fitting

Complete assembled unit includes:
- UL Listed and CSA Certified.
- 1-4 hour fire rating (1-3 hour for steel floor units and concrete topping (D900 Series Design).
- For 2¼" to 7" floor thickness.
- Painted aluminum flange.
- UL installation spacing. Minimum 2 ft. on center and not more than one per 65 sq. ft. of floor area.
- Approved for use in the City of Chicago.

Through-Floor fitting with (1) ¾" E.M.T. stem with junction box for power and (2) ½" E.M.T. stems for low voltage.

Catalog No.	**PT2X2FIT**

PT2X2FIT

Service Fittings

2x2 Service Fitting - Aluminum Flange

- Pre-wired 20A Duplex Decorator receptacle & (2) Category 5e data jacks.
- Non-metallic cover.
- Painted aluminum flange.
- UL Listed and CSA Certified.

Color	Catalog No.
Black	**PT2X2SFBL**
Gray	**PT2X2SFGY**

PT2X2SFBL

2x2 Service Fitting - Brass Flange

- Pre-wired 20A Duplex Decorator receptacle & (2) Category 5e data jacks.
- Non-metallic cover.
- Solid Brass flange.
- UL Listed and CSA Certified.

Color	Catalog No.
Black/Brass	**PT2X2SFBRS3**
Brass Finish/Brass	**PT2X2SFBRS**

PT2X2SFBRS3

Accessories

Non-Metallic Replacement Covers

Color	Catalog No.
Black	**PT2X2CBL**
Gray	**PT2X2CGY**
Brass Finish	**PT2X2CBRS**

PT2X2CBL

HUBBELL®

Fire-Rated Poke-Throughs, Flush Duplex
3-Inch Core Hole Units

ScrubShield
Complies with UL514A

Fire-Rated Poke-Throughs, Flush Duplex - One-Piece Units

Flush Aluminum Poke-Through
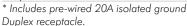
Complete assembled unit includes:
- **PT7FSD** through-floor fitting.
- Pre-wired 20A Duplex receptacle.
- Non-metallic flip-lid cover with (2) ½" diameter low voltage, feed through holes.
- Painted aluminum flange.
- UL Listed and CSA Certified.

Color	Catalog No.
Black	**PT7FSDBLA**
Gray	**PT7FSDGYA**
Ivory	**PT7FSDIA**
Brown	**PT7FSDBRA**
Gray	**PT7IGFSDGYA***
Ivory	**PT7IGFSDIA***

* Includes pre-wired 20A isolated ground Duplex receptacle.

PT7FSDGYA

Flush Brass Poke-Through

Complete assembled unit includes:
- **PT7FSD** through-floor fitting.
- Pre-wired 20A Duplex receptacle.
- All brass or black non-metallic cover option.
- Flip-lid cover with (2) ½" diameter low voltage feed through holes.
- Solid Brass flange.
- UL Listed and CSA Certified.

Color	Catalog No.
All Brass	**PT7FSDBRS2A**
Black/Brass	**PT7FSDBRS3A**
All Brass	**PT7IGFSDBRSA***

* Includes pre-wired 20A isolated ground Duplex receptacle.

PT7FSDBRS2A

Fire-Rated Poke-Throughs, Flush - Two-Piece Units

Multi-Channel Through-Floor Fitting

Specifications:
- UL Listed and CSA Certified.
- 1-4 hour fire rating (1-3 hour for Steel floor units and concrete topping, D900 Series Design).
- For 2¼ to 7" floor thickness.
- UL installation spacing. Minimum 2 ft. on center and not more than 1 per 65 sq. ft. of floor area.

Through-Floor fitting with (1) ¾" E.M.T. stem for power and (2) ½" low voltage feed through holes.

Description	Catalog No.
With Junction Box	**PT7FSD**
Without Junction Box	**PT73SD**

PT7FSD

Service Fittings

Flush Aluminum Service Fitting
- Pre-wired 20A Duplex receptacle.
- Non-metallic flip-lid cover with (2) ½" diameter low voltage feed-through holes.
- Painted aluminum flange.
- UL Listed and CSA Certified.

Color	Catalog No.
Black	**FRFBLA**
Gray	**FRFGYA**
Ivory	**FRFIA**
Brown	**FRFBRA**

FRFGYA

Flush Brass Service Fitting
- Pre-wired 20A Duplex receptacle.
- Solid Brass flip-lid cover with (2) ½" diameter low voltage feed-through holes.
- Solid Brass flange.
- UL Listed and CSA Certified.

Material	Catalog No.
Solid Brass	**FRFBRS2A**

FRFBRS2A

Accessories

Non-Metallic Replacement Covers

Color	Catalog No.
Black	**PFBRCBLA**
Gray	**PFBRCGYA**
Ivory	**PFBRCIA**
Brown	**PFBRCBRA**

PFBRCGYA

All Brass Replacement Cover

Material	Catalog No.
Solid Brass	**BRS2RCA**

BRS2RCA

Fire-Rated Poke-Throughs, Flush Furniture Feed
3-Inch Core Hole Units

ScrubShield
Complies with UL514A

FRPT, Large Capacity, Low Voltage, Flush Furniture Feed - Two-Piece Units

Large Capacity, Low Voltage Through Floor Fitting

Through-floor fitting with (1) 2" E.M.T. stem. Will accommodate up to 36 Category 5e cables.
Specifications:
- UL Listed and CSA Certified.
- 1-2 hour fire rating.
- For 2¼ to 7" floor thickness.
- UL installation spacing. Minimum 2 ft. on center and not more than 1 per 65 sq. ft. of floor area.
- Approved for use in the City of Chicago.

Catalog No.	**PT2FIT**

Large Capacity, Cover/Flange

Specifications:
- UL Listed and CSA Certified.
- Cover/flange with 1¼" and 2" trade size combination knockout.
- Painted aluminum cover and flange.
- Approved for use in the City of Chicago.

FF2BK

Color	Catalog No.
Brass Finish	**FF2BRS**
Black	**FF2BK**
Gray	**FF2GY**

FRPT, Flush Furniture Feed - One-Piece Units

3-Service Furniture Feed Poke-Through

Complete assembled unit includes:
- PT73SD floor fitting.
- Aluminum cover with (2) ½" threaded hubs for low voltage and (1) ¾" threaded hub for power.
- Painted aluminum flange.
- UL Listed and CSA Certified.

PT73FFSDGY

Color	Catalog No.
Black	**PT73FFSDBK**
Gray	**PT73FFSDGY**
Ivory	**PT73FFSDI**

Single-Service Furniture Feed Poke-Through

Complete assembled unit includes:
- PT71SD floor fitting.
- Aluminum cover with (1) KO to accept a ¾" connector.
- Painted aluminum cover and flange.

PT7FFSDGY

Color	Catalog No.
Gray	**PT7FFSDGY**
Ivory	**PT7FFSDI**

FRPT, Flush Furniture Feed - Two-Piece Units

3-Service Furniture Feed, Through-Floor Fittings

Through-floor fitting with (1) ¾" E.M.T. stem for power and (2) ½" low voltage conduit holes.
Specifications:
- UL Listed and CSA Certified.
- 1-4 hour fire rating (1-3 hour for n Steel floor units and concrete topping, D900 Series Design).

Catalog No.	**PT73SD**

Single-Service Furniture Feed, Through-Floor Fittings

Through-floor fitting with (1) ¾" E.M.T. stem for power or low voltage applications.
Specifications:
- UL Listed and CSA Certified.
- UL installation spacing. Minimum 2 ft. on center and not more than 1 per 65 sq. ft. of floor area.

Catalog No.	**PT71SD**

Service Fittings

Single-Service Furniture Feed Poke-Through

- Aluminum cover with (2) ½" threaded hubs for low voltage and (1) ¾" threaded hub for power.
- Painted aluminum flange.
- UL Listed and CSA Certified.

FRF3GY

Color	Black	Gray	Ivory
Catalog	**FRF3BK**	**FRF3GY**	**FRF3I**

Single-Service Furniture Feed Poke-Through

- Aluminum cover with (1) KO to accept a ¾" connector.
- Painted aluminum flange.
- UL Listed and CSA Certified.

FRF1GY

Color	Black	Gray	Brass Finish
Catalog	**FRF1BK**	**FRF1GY**	**FRF1BRS**

Aluminum Service Poles - Specifications and Dimensional Information

Aluminum Service Poles

Hubbell offers a line of gray, ivory and satin finish extruded aluminum service poles. These attractive and durable poles effectively distribute power and telecommunications wiring from above the ceiling to workstations below. They are offered in lengths of 10' 2", 12' 2", and 15' 2", and with a variety of electrical wiring devices. Poles with three service capability have a divider to separate power and low voltage wiring.

A blank pole is also offered which does not have devices or wiring. In addition to a standard pole, which has two 20 amp Duplex receptacles, an isolated ground version is available, as well as a surge suppression version. All poles, except the blank versions, are factory wired with Hubbell Decorator receptacles. Two Decorator knockouts are also provided on the same side as the power receptacles for communication outlets.

HBLPP10AI

HBLPP10IGA

HBLPP10SAI

ATB

PPTRIM1

Service Pole Description		Catalog No. Gray	Catalog No. Ivory	Catalog No. Aluminum, Satin Finish
Three-service; two 20A/125V Decorator Duplex receptacles; one circuit.	Height: 10' 2" (3.10m)	**HBLPP10A**	**HBLPP10AI**	**HBLPP10AAL**
	Height: 12' 2" (3.71m)	**HBLPP12A**	**HBLPP12AI**	**HBLPP12AAL**
	Height: 15' 2" (4.62m)	**HBLPP15A**	**HBLPP15AI**	**HBLPP15AAL**
Three-service; one orange isolated ground 20A/125V Decorator Duplex receptacle; one 20A/125V Decorator Duplex receptacle; two circuits.	Height: 10' 2" (3.10m)	**HBLPP10IGA**	**HBLPP10IGAI**	-
Three-service; two orange isolated ground 20A/125V Decorator Duplex receptacles; one isolated ground surge supression 20A/125V Duplex receptacle; one circuit.	Height: 10' 2" (3.10m)	**HBLPP10SA**	**HBLPP10SAI**	-
Three-service; blank pole; divider; four Decorator device knockouts.	Height: 10' 2" (3.10m)	**HBLPPOA**	**HBLPPOAI**	**HBLPPOAAL**
	Height: 12' 2" (3.71m)	**HBLPPO12A**	**HBLPPO12AI**	**HBLPPO12AAL**
	Height: 15' 2" (4.62m)	**HBLPPO15A**	**HBLPPO15AI**	**HBLPPO15AAL**

Accessories	Catalog No.
Adjustable T-bar assembly for mounting poles in middle of ceiling tile.	**ATB**
Replacement Service Pole Trim Kit (Ceiling White)	**PPTRIM1**

NOTE: Decorator plates/outlets, modular jacks, and data connectors are sold separately. See Section B for the complete line.

Specifications

Material: Extruded aluminum; .05" thick (1.27mm)
Finish: gray, ivory or satin finish
Conductors: #12 AWG stranded copper

Receptacles: (see drawings below)
Listing: UL Listed
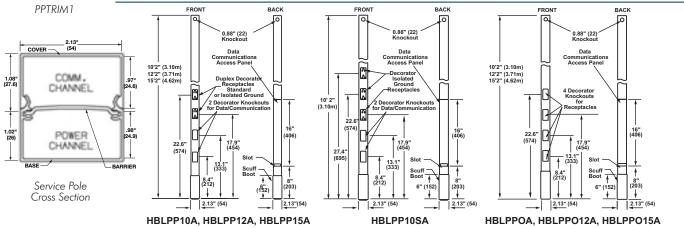
Wiring Capacity (@40% fill)	Voice Data Channel*			Power Channel**
	Cat. 5E	Cat. 6	Cat. 6A	
HBLPP10A; HBLPP12A; HBLPP15A: HBLPP10IGA	26	11	9	41
HBLPP10SA; HBLPP10SAI	8	6	3	41
HBLPPOA, HBLPPO12A, HBLPPO15A (with barrier)	26	11	9	41

Notes: * Pole wiring capacity (telephone fill): Cat. 5 UTP (2.30 sq. ft.).
 **#12 THHN stranded.

Dimensions

Service Pole Cross Section

HBLPP10A, HBLPP12A, HBLPP15A   HBLPP10SA   HBLPPOA, HBLPPO12A, HBLPPO15A

Hubbell SystemOne Configuration Chart

Sub-Plates			Non-Metallic Floor Box	Metal Floor Boxes			4" Core Hole Fire-Rated Poke-Throughs		
			S1PFB	S1CFB	S1SFB	S1SFBAV	S1PTFIT	S1PT4X4FIT	S1PTAVFIT
S1SP	Decorator/GFCI		③	③.5	③.5	③.5	✓+ (Single-Service)	✗	✓ (Multi-Service)
S1SPDU	Duplex/Duplex		③	③.5	③.5	③.5	✓+ (Single-Service)	✗	✓ (Multi-Service)
S1SPDUSL	Duplex/Decorator		③	③.5	③.5	③.5	✓+ (Single-Service)	✗	✓ (Multi-Service)
S1SP4X4	Hubbell 4x4		④	④	④	④	✗	✓+	✗
S1SPTL	Twist-Lock® Receptacle + Data		④	④	④	④	✗	✓+	✗
S1SP3IM	Hubbell Datacom + Power		⑤	⑤	⑤	⑤	✓	✗	✓+
S1SP4IM	Hubbell Datacom		③.5	③.5	③.5	③.5	✓	✗	✓+
S1SPDU2IM	Hubbell Datacom + Duplex		⑤	⑤	⑤	⑤	✓	✗	✓+
S1SPSL2IM	Hubbell Datacom + Decorator		⑤	⑤	⑤	⑤	✓	✗	✓+
S1SPAMM20	Active Multimedia + Power		⑤	⑤	⑤	⑤	✓	✗	✓+
S1SPFFxx (Carpet) S1SPFFTxx (Tile)	Furniture Feed Cover/ Flange (replace "xx" with BRS (brass), AL (aluminum), BL (black) or GY (gray).		③	③.5	③.5	③.5	✓	✗	✓+
S1SPEXT1	Extron® MAAP or FSR IPS + Power		④	④	④	④	✓	✗	✓+
S1SPEXT2	Extron AAP or FSR IPS + Power		④	④	④	④	✓	✗	✓+
S1SPEXT3	Extron or FSR IPS Single-Service		④.5	④.5	④.5	④.5	✓	✗	✓+
S1SPEXT4	Extron AAP + Flush Keystone + Power		④	④	④	④	✓	✗	✓+
S1CFCxx SystemOne Carpet Cover	All SystemOne Floor Boxes and FRPTs accept the SystemOne Universal Covers (replace "xx" with BRS (brass), AL (aluminum), BL (black), GY (gray) or I (ivory).			Signifies minimum depth of concrete pour in inches for Hubbell SystemOne Floor Boxes.				✓+ Recommended Floor Fitting	✓ Alternative Floor Fitting	✗ Not Compatible
S1TFCxx SystemOne Tile Cover									

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for so many in-floor applications:

Flush Floor Boxes

Everything Connects with SystemOne

Fire-Rated Poke Throughs

SystemOne
from Hubbell

Flush Floor Boxes and Fire-Rated Poke Throughs offer a whole new level of performance and flexibility, thanks to **Hubbell SystemOne**. Now, one system covers so many in-floor installations.

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More Configuration Options - With 18 sub-plates to choose from, SystemOne handles a wide variety of power, data or audio/video device configurations.

More Flexibility - If needs change, no problem. The SystemOne modular sub-plate design allows you to easily install a new device combination.

Get the one solution that can satisfy so many in-floor needs: Hubbell SystemOne. Because nobody delivers like Hubbell Commercial Solutions.

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®
WIRING SYSTEMS
Wiring Device-Kellems
Premise Wiring

Hubbell SystemOne

RACEWAY SYSTEMS

METAL AND NON-METALLIC RACEWAY FROM HUBBELL PREMISE WIRING ARE PACKED WITH FEATURES FOR THE SPECIFIER, INSTALLER AND USER. NEW FEATURES INCLUDE BEND RADIUS CORNERS AND FITTINGS THAT EXCEED THE AUGMENTED CATEGORY 6 CABLING REQUIREMENTS FOR COPPER AND FIBER APPLICATIONS. NEW BOXES ALLOW THE USE OF LONG AND DEEP FIBER, COAX, VOICE, VIDEO AND DATA OUTLET CONNECTORS.

NON-METALL... ...GLE CHANNEL•PREMISETRAK•STATION BOXES•CEILING FITTING•TEE
PIECE•2 CHA... ...EXTERNAL ELBOW•THREE CHANNEL•FACE PLATES•FLOORTRAK•INTERN
ELBOW•SING... ...CONDUIT ADAPTER•LIGHT FIXTURE BOX•HBL750•DOUBLE GANG
STATION BOX... ...CTANGULAR PLATES•SPLICE COVER•INLINE BOX•FULL CAPACITY STATI
BOX•BASETR... ...EL CONNECTOR•SECURITY STRAP•WIRE FILL CAPACITIES•PASS-THROU
TUNNELS•HB... ...FILL CA... ...SUPER BASETRAK• iSTATION MODULE BEZEL•HBL500
PLATES•PREM... ...E CLIPS•INLINE DEVICE BOXES•TRANSITION FITTING•MULTI-SERVICE

RACEWAY CONTENTS

The Raceway Story

F or well over a century, Hubbell Wiring Systems, including Wiring Device-Kellems and Hubbell Premise Wiring, has continued its tradition of pioneering innovative products and quality solutions for industrial, commercial and institutional applications.

In 1986, Hubbell's commitment to this tradition led to the introduction of **PolyTrak**®, a line of ground-breaking non-metallic surface raceway that was designed and developed to exceed every customer's expectations.

Listening to and understanding the needs of our customers gave rise to several unique **PolyTrak**® designs that meet virtually every raceway application. With products like **BaseTrak**®, **Super BaseTrak**®, **LANTrak**®, **WallTrak**®, and **PremiseTrak**®, customers can easily install the right raceway system to provide the proper capacity, bend radius and aesthetically pleasing design for any power, data and telecommunication cable distribution.

Hubbell's innovative tradition continues today with the introduction of a new line of Metal Raceway. Only Hubbell Wiring Systems could take a familiar, mature product like metal raceway and make it better. How did we do it? We listened to our customers.

Through extensive interviews, in-depth focus groups and state-of-the-art research and development, we have delivered an improved metal raceway product line with all the enhancements and flexibility customers asked for. Consider using features like the Hubbell Handi-Screw® and the Hubbell By-Pass divider along with rounded corners, single-seam box construction and enhanced datacom capabilities are just some of the elements we incorporated to benefit customers. With maximum functionality, vital capacity, unmatched quality and easy installation, never before has there been a metal raceway like this.

Listening to the customer and developing and implementing innovative products to meet their needs are the fundamental principles that make Hubbell Wiring Systems a respected leader in the electrical and data communications industry. These same principles are the driving force behind the expansion and enhancement of our comprehensive surface raceway product line. That's our story.

HUBBELL Advantage

- **Best in Class Products**
  Industry leading datacom capacity and capabilities.

- **Ease of Installation**
  Hubbell Handi-Screw speeds installation through easy screw alignment.

- **Application Solutions**
  Flexibility to accommodate a wide range of power and datacom applications.

- **Eco-Friendly Solutions**
  Available in Pre-Wired versions minimizing packing materials and saving on site assembly time.

For more detailed information, go to:
www.hubbell-premise.com/Raceway.asp

HBL500 and HBL750 Series Single Channel Metal Raceway
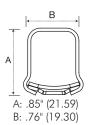
HBL500	**Base and Cover** 10 ft.	**Base and Cover** 5 ft.
Ivory	**HBL50010IV**	**HBL5005IV**

A: .53" (13.46)
B: .76" (19.30)

HBL750	**Base and Cover** 10 ft.	**Base and Cover** 5 ft.
Ivory	**HBL75010IV**	**HBL7505IV**

A: .85" (21.59)
B: .76" (19.30)

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

HBL500 and HBL750 Series Fittings

Raceway	Internal Elbow Ivory	External Elbow Ivory	Flat Elbow 90° Ivory	Flat Elbow 45° Ivory	Mounting Strap	Bushing	Connection Cover
HBL500	**HBL517IV**	**HBL518IV**	**HBL511IV**	**HBL512IV**	**HBL504IV**	**HBL502B**	**HBL506IV**
HBL750	**HBL717IV**	**HBL718IV**	**HBL711IV**	**HBL712IV**	**HBL704IV**	**HBL702B**	**HBL706IV**

Raceway	Internal Elbow 1½" Bend Radius, Ivory	External Elbow 1½" Bend Radius, Ivory	Flat Elbow 1½" Bend Radius, Ivory	Tee Fitting 1½" Bend Radius, Ivory	Tee Fitting Ivory
HBL500 or **HBL750**	**HBL5717BRIV**	**HBL5718BRIV**	**HBL5711BRIV**	**HBL5715BRIV**	**HBL5715IV**

Raceway	Internal Twisted Elbows For double turns at right angles, Ivory		Corner Box For connecting HBL500 or HBL750 Raceway from ceiling or corner, Ivory	Coupling Galvanized Steel	Support Clip Ivory	Transition Fitting* Wiremold® to Hubbell Ivory
	Right Elbow	Left Elbow				
HBL500 or **HBL750**	**HBL5711RHIV**	**HBL5711LHIV**	**HBL5719IV**	**HBL5701C**	**HBL5703IV**	**HBL500TFIV** **HBL750TFIV**

Raceway	Elbow Box Connector Right angles to boxes with ½" KO, Ivory	Elbow Conduit Connector Right angles to ½" conduit, Ivory	Combination ½" Connector No offsetting needed to 3¼" or 4" box, Ivory	Adjustable Offset Connector with 2 ½" KOs, Ivory	Entrance Connector ¾" KO and ¾" Chase Nipple, Ivory
HBL500 or **HBL750**	**HBL5783IV**	**HBL5784IV**	**HBL5785IV**	**HBL5786IV**	**HBL5786AIV**

* For transitioning from either Wiremold® V500 to Hubbell HBL500 Raceway or Wiremold® V700 to Hubbell HBL750 Raceway.
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HBL500 and HBL750 Series Fittings

Raceway	Flexible Section 18" long, Ivory	Box Connector		Conduit Connector		Grounding Clamp For ½" Conduit	Special Nipple For ½" Trade Size KOs
		½" Male	¾" Male	½" Female	¾" Female		
HBL500 or HBL750	HBL5700FIV	HBL5781	HBL5781A	HBL5782C	HBL5782A	HBL5709GC	HBL5780

Raceway	Armored Cable Connector	Ground Clamp	EMT Connector ½"*
HBL500 or HBL750	HBL5790B	HBL5709	HBL5791

HBL500 and HBL750 Series Tools

	HBL500	HBL750
Cutter	HBL605CUT	HBL607CUT
Replacement Blade	HBL605K	HBL607K
Bender	HBL600B	
Touch-Up Pen, Ivory	HBLIWEP	

HBL500 and HBL750 Series Device Boxes*

Color	Device Box 1.75" Deep					
	1-Gang	2-Gang	3-Gang	4-Gang	5-Gang	6-Gang
Ivory	HBL5748IV	HBL57482IV	HBL57483IV	HBL57484IV	HBL57485IV	HBL57486IV

Color	Shallow Device Box 1.38" Deep			Deep Device Box 2.25" Deep		
	1-Gang	2-Gang	3-Gang	1-Gang	2-Gang	3-Gang
Ivory	HBL5747IV	HBL57472IV	HBL57473IV	HBL5744SIV	HBL5744S2IV	HBL5744S3IV

Color	Extra Deep Device Box 2.75" Deep			Extension Box Open Base, 1.38" Deep			Extension Box Open Base 1.75" Deep 1-Gang
	1-Gang	2-Gang	3-Gang	1-Gang	2-Gang	3-Gang	
Ivory	HBL5744IV	HBL57442IV	HBL57443IV	HBL5751IV	HBL57512IV	HBL57513IV	HBL5751AIV

HBL500 and HBL750 Series Round Extension and Fixture Boxes*

Color	Round Extension Box Open Base			Round Fixture Box Solid Base			Blank Cover ½" Trade KO in Center**
	4.75" diameter	5.5" diameter	6.375" diameter	4.75" diameter	5.5" diameter	6.375" diameter	
Ivory	HBL5737IV	HBL5737AIV	HBL5739AIV	HBL5738IV	HBL5738AIV	HBL5739IV	HBL5736IV

Color	Outlet Box 3" diameter	Blank Cover For use with HBL5733IV		Color	Fanbox Fans up to 50 lbs.		Color	Round Fixture Box for Audible Alarms
Ivory	HBL5733IV	HBL5731IV		Ivory	HBL5738AFIV		Ivory	HBL5739AABIV

HBL500 and HBL750 Series Specialty Boxes*

Color	Device Box Low-Profile 1.13" Deep	Device Box ½" side KOs 1.75" Deep		Color	Blank Extension Box Open Base		Color	Utility Box ½" KO
Ivory	HBL5748SIV	HBL5745IV		Ivory	HBL5760IV		Ivory	HBL57242IV

Color	Alarm Device Box 1.38" Deep	Alarm Device Box Extra Deep 2.75"		Color	Distribution Box Mounting screw centers of 2.75", 3.5", 4.06"
Ivory	HBL5752IV	HBL5753IV		Ivory	HBL5735IV
Red	HBL5752R	HBL5753R			
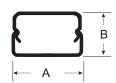
Use Catalog No. HBL5791 for connecting ½" EMT to all HBL5700 Series round and rectangular having a ½" trade size KO.

**For use with HBL5735IV, HBL5737IV, HBL5737AIV, HBL5739AIV, HBL5738IV, HBL5738AIV and HBL5739IV.*

www.hubbell-premise.com   **Call 1-800-626-0005**   J7

HBL2000 Series Metal Raceway

A: 1.31" (33.27)
B: .83" (21.08)

Color	Base and Cover* 5 ft.
Ivory	**HBL2000BCIV**
Gray	**HBL2000BCGY**

Color	Cover 5 ft.	Base 5 ft.
Ivory	**HBL2000CIV**	**HBL2000B5IV**
Gray	**HBL2000CGY**	**HBL2000B5GY**

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

* Cover is .025" thick for up to 300V AC applications.

HBL2000 Series Metal Raceway Fittings

Color	90° Flat Elbow	90° Flat Elbow 1½" Bend Radius	Tee Fitting	Tee Fitting 1½" Bend Radius	External Elbow Coupling	External Elbow 1½" Bend Radius	Internal Elbow 1½" Bend Radius
Ivory	**HBL2011IV**	**HBL2011BRIV**	**HBL2015IV**	**HBL2015BRIV**	**HBL2018CIV**	**HBL2018BRIV**	**HBL2017BRIV**
Gray	**HBL2011GY**	**HBL2011BRGY**	**HBL2015GY**	**HBL2015BRGY**	**HBL2018CGY**	**HBL2018BRGY**	**HBL2017BRGY**

Color	Blank End Fitting	Entrance End Fitting ½" KOs	Entrance End Fitting Large Capacity ½" and ¾" KOs	Cover Clip to hide seams in cover	Flush Plate Adaptor	Transition Fitting Wiremold® to Hubbell
Ivory	**HBL2010BIV**	**HBL2010A2IV**	**HBL2010A3IV**	**HBL2006IV**	**HBL2051HIV**	**HBL2000TFIV**
Gray	**HBL2010BGY**	**HBL2010A2GY**	**HBL2010A3GY**	**HBL2006GY**	**HBL2051HGY**	**HBL2000TFGY**

Color	Side Reducing Connector to HBL500	End Reducing Connector to HBL500	Coupling Galvanized Steel	Internal Corner Coupling Galvanized Steel	Wire Clip Galvanized Steel	Support Clip Galvanized Steel	Ground Clamp
Ivory	**HBL2089IV**	**HBL2089EIV**	**HBL2001C**	**HBL2017TC**	**HBL2000WC**	**HBL2003SC**	**HBL2009GC**
Gray	-	-					

HBL2000 Series Metal Raceway Boxes

Color	Device Box 1-Gang, 1.75" Deep	Device Box 2-Gang, 1.75" Deep
Ivory	**HBL2048IV**	**HBL20482IV**
Gray	**HBL2048GY**	**HBL20482GY**

HBL2000 and HBL3000 Series Tools

HBL2000 Tools	Raceway Cutter	Cutter Replacement Blade Set
Catalog No.	**HBL620C**	**HBL620BCK**

HBL3000 Tools	Base Cutter	Replacement Base Cutter Blade Set	Cover Cutter	Replacement Cover Cutter Blade Set
Catalog No.	**HBL630B**	**HBL630BDK**	**HBL630C**	**HBL630CDK**

Color	Touch-Up Paint Pen
Ivory	**HBLIWEP**
Gray	**HBLGWEP**

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HBL3000 Series Metal Raceway

Available in **PRE-WIRED**

Color	**Base** 10 ft.	**Cover** 5 ft.	**7.5" Precut Cover** For mounting devices on 12" centers	**19.5" Precut Cover** For mounting devices on 24" centers
Ivory	HBL3000BIV	HBL3000CEIV	HBL3000C075IV	HBL3000C195IV
Gray	HBL3000BGY	HBL3000CEGY	HBL3000C075GY	HBL3000C195IV

HBL3000 Metal Raceway Fittings

A: 2.75" (69.85)
B: 1.53" (38.86)

Color	**90° Flat Elbow**	**Tee Fitting**	**External Corner Coupling**	**Internal Corner Coupling**
Ivory	HBL3011EIV	HBL3015EIV	HBL3018AEIV	HBL3017TCEIV
Gray	HBL3011EGY	HBL3015EGY	HBL3018AEGY	HBL3017TCEGY

Color	**Cover Clip** to hide seams in covers	**Entrance End Fitting** ½" KOs	**Large Capacity Entrance End Fitting** ½", ¾", 1" KOs	**Blank End Fitting** ½", ¾" KOs	**Wall Box Connector** to connect to flush boxes	**Panel Connector** to connect to surface boxes	**Reducer HBL3000 to HBL2000**
Ivory	HBL3006EIV	HBL3010AEIV	HBL3010CIV	HBL3010BIV	HBL3014CIV	HBL3086IV	HBL3200REDIV
Gray	HBL3006EGY	HBL3010AEGY	HBL3010CGY	HBL3010BGY	HBL3014CGY	HBL3086GY	HBL3200REDGY

Color	**Transition Fitting** Wiremold® to Hubbell	**Tap-Off** ½" and ¾" KOs and twist out	**Support Clip** to fasten raceway to wall	**Wire Clip** Galvanized Steel	**Coupling** Galvanized Steel	**Heavy-Duty Coupling** Galvanized Steel	**1½" Trade Size Conduit Connector**
Ivory	HBL3000TFIV	HBL3046H2IV	HBL3003IV	HBL3000WCGY	HBL3001GY	HBL3001AGY	HBL3082GY
Gray	HBL3000TFGY	HBL3046H2GY	HBL3003GY				

HBL3000 Device Bracket and Cover Plates
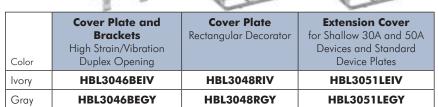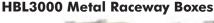
Color	**Device Bracket** for use with Standard Device Plates	**Cover Plate** Single Receptacle 1.39"	**Cover Plate** Single Receptacle 1.58"	**Blank Cover Plate** ½" KO in center	**Switch Cover Plate**	**Cover Plate** Duplex Opening
Ivory	HBL3007CGY	HBL3027AEIV	HBL3033JEIV	HBL3036HEIV	HBL3040CEIV	HBL3043BEIV
Gray		HBL3027AEGY	HBL3033JEGY	HBL3036HEGY	HBL3040CEGY	HBL3043BEGY

Color	**Cover Plate and Brackets** High Strain/Vibration Duplex Opening	**Cover Plate** Rectangular Decorator	**Extension Cover** for Shallow 30A and 50A Devices and Standard Device Plates
Ivory	HBL3046BEIV	HBL3048RIV	HBL3051LEIV
Gray	HBL3046BEGY	HBL3048RGY	HBL3051LEGY

NOTE: All Cover Plates except HBL3046BE include HBL3007CGY Device Bracket.

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HBL3000 Metal Raceway Boxes

Color	**Switch and Receptacle Box** 2-Gang, 2.75" Deep	**Utility Box** Cover has twist-outs on all sides
Ivory	HBL30442IV	HBL3028IV
Gray	HBL30442GY	HBL3028GY

NOTE: See page J8 for HBL3000 series Tools.

HBL4750 Series Metal Raceway

Color	Base 10 ft.	Cover 5 ft.
Ivory	HBL4750B10IV	HBL4750CIV
Gray	HBL4750B10GY	HBL4750CGY

A: 4.75" (120.65)
B: 1.75" (44.45)

Color	31.5" Precut Cover For mounting devices on 36" centers	19.5" Precut Cover For mounting devices on 24" centers	13.5" Precut Cover For mounting devices on 18" centers	7.5" Precut Cover For mounting devices on 12" centers
Ivory	HBL4750C315IV	HBL4750C195IV	HBL4750C135IV	HBL4750C075IV
Gray	HBL4750C315GY	HBL4750C195GY	HBL4750C135GY	HBL4750C075GY

	Divider 5 ft.	By-Pass Divider	Divider Clip use every 2.5 ft.	Coupling to couple together raceway	Wire Clip to hold conductors in place
Cat. No.	HBL4750DGY	HBL4750BP	HBL4751DA	HBL4751AC	HBL4750WCGY

HBL4750 Metal Raceway Fittings

Color	Internal or External Elbow 45°	Internal Elbow Divided 1¼" Bend Radius	Internal Elbow Undivided	Internal Elbow Inverted Connects vertical run with horizontal run	Internal Corner Coupling	External Elbow Divided 1¼" Bend Radius
Ivory	HBL4712TXIV	HBL4717DFOIV	HBL4717IV	HBL4717NIV	HBL4717TCAGY	HBL4718DFOIV
Gray	HBL4712TXGY	HBL4717DFOGY	HBL4717GY	HBL4717NGY		HBL4718DFOGY

Color	External Elbow Undivided	Flat Elbow Divided 1¼" Bend Radius	Flat Elbow Undivided	Tee Fitting Divided 1¼" Bend Radius	Tee Fitting Undivided	Wall Box Connector for back feeding raceway
Ivory	HBL4718IV	HBL4711DFOIV	HBL4711IV	HBL4715DFOIV	HBL4715IV	HBL4714AIV
Gray	HBL4718GY	HBL4711DFOGY	HBL4711GY	HBL4715DFOGY	HBL4715GY	HBL4714AGY

Color	Blank End Fitting (2) ½" KOs	Entrance End Fitting Divided 1¼" Bend Radius, ¾", 1, 1¼" KOs	Entrance End Fitting Undivided, ¾", 1, 1¼" KOs	Take-Off Connector for connecting HBL4750 to HBL3000	Connection Cover to hide seams in cover	Panel Connector for connecting to surface type panel boxes
Ivory	HBL4710BIV	HBL4710DFOIV	HBL4710IV	HBL4774AIV	HBL4756AIV	HBL4786AIV
Gray	HBL4710BGY	HBL4710DFOGY	HBL4710GY	HBL4774AGY	HBL4756AGY	HBL4786AGY

HBL4750 Series Metal Raceway Device Mounting Brackets

HBL4750 Specialty Fittings

Color	Device Mounting Bracket* 2-Gang	Vertical Mount Device Plate Use 1-Gang Commercial Plate	Vertical Mount Device Plate Use 2-Gang Commercial Plate	Transition Fitting**	Tap-Off Fitting 2-Gang
Ivory	HBL4750IV	HBL4747CVMIV	HBL4747CVM2IV	HBL4750TFIV	HBL4746H2IV
Gray	HBL4750GY	HBL4747CVMGY	HBL4747CVM2GY	HBL4750TFGY	HBL4746H2GY

Overlapping Cover Plates (Includes Mounting Bracket)

Color	2-Gang Device Cover Plates					
	Single Round Opening 1 Blank	1 Duplex Opening Opening 1 Blank	2 Duplex Openings	1 Duplex Opening 1 Modular Furniture with 2 keystone twist-outs	Single Round Opening 1 Blank	1 Decorator Opening 1 Blank
Ivory	HBL4747AXIV	HBL4747BXIV	HBL4747BBIV	HBL4747BFIV	HBL4747JXIV	HBL4747RXIV
Gray	HBL4747AXGY	HBL4747BXGY	HBL4747BBGY	HBL4747BFGY	HBL4747JXGY	HBL4747RXGY

Color	2-Gang Device Cover Plates	
	1 Decorator Opening 1 Modular Furniture with 2 keystone twist-outs	1 Duplex Opening 1 Decorator Opening
Ivory	HBL4747RFIV	HBL4747BRIV
Gray	HBL4747RFGY	HBL4747BRGY

Color	2-Gang Device Cover Plates	
	1-Gang Device Plate 1 Blank use 1-Gang commercial plate	2-Gang Device Plate use 2-Gang commercial plate
Ivory	HBL4747C1IV	HBL4747C2IV
Gray	HBL4747C1GY	HBL4747C2GY

Color	4-Gang Device Cover Plates				
	2 Decorator Openings 2 Blanks	2 Duplex Openings 2 Decorator Openings	4 Duplex Opening Openings	2 Duplex Openings 2 Modular Furniture with 2 keystone twist-outs	2 Duplex Openings 2 Blanks
Ivory	HBL47472RRXXIV	HBL47472BBRRIV	HBL47472BBBBIV	HBL47472BBFFIV	HBL47472BBXXIV
Gray	HBL47472RRXXGY	HBL47472BBRRGY	HBL47472BBBBGY	HBL47472BBFFGY	HBL47472BBXXGY

Cutters

	Base Cutter for cutting base of HBL4750 Raceway	Cover Cutter for cutting cover of HBL4750 Raceway
Cutter	HBL640B	HBL640C
Replacement Blade	HBL640BDK	HBL640CDK

Color	Touch-Up Paint Pen
Ivory	HBLIWEP
Gray	HBLGWEP
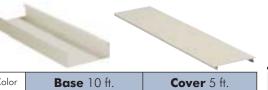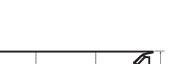
Use 1-Gang KP plates shown on page J26.
*** For transitioning Wiremold® 4000 Raceway to Hubbell HBL4750 Raceway.*

Wiremold® is a registered trademark of The Wiremold Company.

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

HBL6750 Series Metal Raceway

Color	Base 10 ft.	Cover 5 ft.
Ivory	HBL6750B10IV	HBL6750CIV
Gray	HBL6750B10GY	HBL6750CGY

A: 6.75" (171.45)
B: 2.22" (56.39)

Color	31.5" Precut Cover For mounting devices on 36" centers	19.5" Precut Cover For mounting devices on 24" centers	13.5" Precut Cover For mounting devices on 18" centers	7.5" Precut Cover For mounting devices on 12" centers
Ivory	HBL6750C315IV	HBL6750C195IV	HBL6750C135IV	HBL6750C075IV
Gray	HBL6750C315GY	HBL6750C195GY	HBL6750C135GY	HBL6750C075GY

	Divider 5 ft.	Divider Clip Use every 2.5'	Wire Clip to hold conductors in place	Coupling to couple together raceway
Cat. No.	HBL6750DAGY	HBL6751DAGY	HBL6750WCGY	HBL6751A

HBL6750 Series Metal Raceway Fittings

Color	Flat Elbow Divided 1¼" Bend Radius	Flat Elbow Undivided	Internal Elbow Divided 1¼" Bend Radius	Internal Elbow Undivided	Internal Corner Coupling (Galvanized Steel)	Inverted Internal Elbow Connect vertical run to horizontal run	Internal or External 45° Elbow
Ivory	HBL6711DFOIV	HBL6711IV	HBL6717DFOIV	HBL6717IV	HBL6717TCAGY	HBL6717NIV	HBL6712TXIV
Gray	HBL6711DFOGY	HBL6711GY	HBL6717DFOGY	HBL6717GY		HBL6717NGY	HBL6712TXGY

Color	External Elbow Divided 1¼" Bend Radius	External Elbow Undivided	Tee Fitting, Divided 1¼" Bend Radius	Tee Fitting Undivided	Connection Cover to hide seams in cover	Entrance End Fitting Divided 1¼" Bend Radius, ¾", 1" and 1¼" KOs
Ivory	HBL6718DFOIV	HBL6718IV	HBL6715DFOIV	HBL6715IV	HBL6756AIV	HBL6710DFOIV
Gray	HBL6718DFOGY	HBL6718GY	HBL6715DFOGY	HBL6715GY	HBL6756AGY	HBL6710DFOGY

Color	Entrance End Fitting Undivided ¾", 1" and 1¼" KOs	Blank End Fitting (3) ½" KOs	Wall Box Connector for back feeding raceway	90° Take-Off Connector to connect HBL6750 to HBL4750	Panel Connector for connecting to surface type panel	3-Gang Tap-Off Fitting (6) ½" and ¾" KOs	Transition Fitting* Wiremold® to Hubbell
Ivory	HBL6710IV	HBL6710BIV	HBL6714AIV	HBL6774AIV	HBL6786IV	HBL6746HHHIV	HBL6750TFIV
Gray	HBL6710GY	HBL6710BGY	HBL6714AGY	HBL6774AGY	HBL6786GY	HBL6746HHHGY	HBL6750TFGY

* For transitioning Wiremold® 6000 Raceway to Hubbell HBL6750 Raceway.
Wiremold® is a registered trademark of The Wiremold Company.

HBL6750 Series Mounting Bracket and Overlapping Cover Plates

Color	3-Gang Device Cover Plates				
	Device Mounting Bracket*	1-Gang Device Opening 2 Blanks**	2-Gang Device Opening 1 Blank**	1 Single Round 1.39" Opening 2 Blanks	1 Duplex Opening 2 Blanks
Ivory	HBL6750IV	HBL6747C1IV	HBL6747C2IV	HBL6747AXXIV	HBL6747BXXIV
Gray	HBL6750GY	HBL6747C1GY	HBL6747C2GY	HBL6747AXXGY	HBL6747BXXGY

Color	3-Gang Device Cover Plates					
	3 Duplex Openings	2 Duplex Openings 1 Modular Furniture with 2 keystone twist-outs	1 Single Round 1.58" Opening 2 Blanks	1 Decorator Opening 2 Blanks	2 Decorator Openings, 1 Modular Furniture with 2 keystone twist-outs	1 Duplex Opening, 2 Decorator Openings
Ivory	HBL6747BBBIV	HBL6747BBFIV	HBL6747JXXIV	HBL6747RXXIV	HBL6747RRFIV	HBL6747BRRIV
Gray	HBL6747BBBGY	HBL6747BBFGY	HBL6747JXXGY	HBL6747RXXGY	HBL6747RRFGY	HBL6747BRRGY

Color	6-Gang Device Cover Plates				
	4 Decorator Openings 2 Blanks	6 Duplex Openings	4 Duplex Openings 2 Modular Furniture with 2 keystone twist-outs	4 Duplex Openings 2 Blanks	2 Duplex Openings 4 Decorator Openings
Ivory	HBL67473RRRRXXIV	HBL67473BBBBBBIV	HBL67473BBBBFFIV	HBL67473BBBBXXIV	HBL67473BBRRRRIV
Gray	HBL67473RRRRXXGY	HBL67473BBBBBBGY	HBL67473BBBBFFGY	HBL67473BBBBXXGY	HBL67473BBRRRRGY

Cutters

	Base Cutter for cutting base of HBL6750 Raceway	Cover Cutter for cutting cover of HBL6750 Raceway
Cutter	HBL660B	HBL660C
Replacement Blade	HBL660BDK	HBL660CDK

Color	Touch-Up Paint Pen
Ivory	HBLIWEP
Gray	HBLGWEP

For more detailed information, go to www.hubbell-premise.com/Raceway.asp
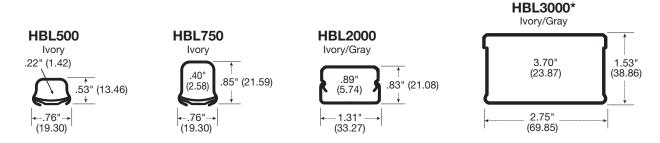
* Use 1-Gang KP plates shown on page J26.
** Use with commercially available device plates (not included).
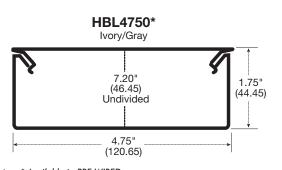
Hubbell Metal Raceway
Raceway Profiles - Quick Reference Guide

* **Available in PRE-WIRED**

Metal Raceway - Ivory or Gray in Color

HBL500
Ivory
.22" (1.42)
.53" (13.46)
.76" (19.30)

HBL750
Ivory
.40" (2.58)
.85" (21.59)
.76" (19.30)

HBL2000
Ivory/Gray
.89" (5.74)
.83" (21.08)
1.31" (33.27)

HBL3000*
Ivory/Gray
3.70" (23.87)
1.53" (38.86)
2.75" (69.85)

HBL4750*
Ivory/Gray
7.20" (46.45) Undivided
1.75" (44.45)
4.75" (120.65)

HBL6750*
Ivory/Gray
13.77" (88.84) Undivided
2.22" (56.39)
6.75" (171.45)

*Notes: * Available in PRE-WIRED.*
Channel Area in Square Inches (square centimeters).
Dimensions in Inches (mm).

Metal Raceway Wire Fill Capacities

Series		Channel Area (sq. in.)	Power (THHN/T90 Nylon)			Voice		Data (Copper Cables)					Data (Multimode Fiber Optic Cables)		
			14 AWG	12 AWG	10 AWG	4-Pair	25-Pair	Type RG59U	Cat. 5e	Cat. 6	Cat. 6A	Cat. 6 STP	(2) or (4) Fiber Round Cable	Fiber Optic Jumpers	Fiber Optic Zip Cord
Wire O.D. (in):			0.111	0.13	0.164	0.19	0.41	0.242	0.21	0.25	0.35	0.29	0.19	0.118	.12 x .24
Wire Area (sq. in.):			0.0097	0.0133	0.0211	0.0283	0.1320	0.0460	0.0346	0.0491	0.0962	0.0660	0.0283	0.0109	0.0288
			Wire Fill Capacity			40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
HBL500		0.22	7	5	3	3	1	2	3	2	1	1	3	8	3
HBL750		0.40	12	9	5	6	1	3	5	3	2	2	6	15	6
HBL2000		0.89	7	7	0	13	3	8	10	7	4	5	13	33	12
HBL3000		3.70	152	111	70	52	11	32	43	30	15	22	52	136	51
HBL4750	No Barriers	7.20	296	216	136	102	22	63	83	59	30	44	102	264	100
[A][B]	Barrier Centered Ch. A	3.10	127	93	58	44	9	27	36	25	13	19	44	114	43
	Barrier Centered Ch. B	3.30	127	93	58	47	10	29	38	27	14	20	47	121	46
[A][B]	Barrier Offset Ch. A	2.10	86	63	39	30	6	18	24	17	9	13	30	77	29
	Barrier Offset Ch. B	4.30	176	129	81	61	13	37	50	35	18	26	61	158	60
HBL6750	No Barriers	13.77	566	412	259	195	42	120	159	112	57	83	195	505	191
[A][A][A]	Barrier Offset Ch. A $\frac{1}{3}$	4.59	189	138	86	65	14	40	53	37	19	28	65	168	64
[A][B]	Barrier Offset $\frac{2}{3}$ Ch. B	9.18	379	278	173	130	28	80	106	75	38	56	130	337	128

Note: Pathway (Raceway) fill shall be 40% maximum.
Raceway fittings and outlets/receptacles reduce the cross section of the raceway system, thus reducing overall cable fill capacity.

Codes/Standards

TIA/EIA	569B
UL Standard	UL 5
Listings	E253976 /E253830 /E253833
CSA Standard	C22.2 no. 62
Certification	LR87514

Physical Properties

Material   Steel

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

Non-Metallic Raceway
Complete Line of Raceway
Features and Benefits

One Box, Three Systems

■ Boxes have three cut-aways that can be utilized with **WallTrak**®, **LANTrak**® and **PremiseTrak**® (Latching) systems.

■ Eliminates need to order three separate boxes and reducing inventory requirements.

■ Boxes available in low, standard and deep profiles.

■ Two-gang divided box available for power, data, voice, audio and video applications.

■ Boxes utilize Hubbell KP plates or **iSTATION**™ Modules and Bezels.

Flush or Full Capacity Boxes

■ **Super BaseTrak**® and **BaseTrak**® Raceway offer multiple solutions for box installation.

■ **Super BaseTrak**® in-line three-gang box allows maximum capacity in a flush design.

■ **Super BaseTrak**® and **BaseTrak**® available in single, two and three-gang full capacity boxes.

■ Two and three channel **BaseTrak**® (PB2 and PB3) available with one and two-gang in-line boxes.

■ Full capacity in-line boxes eliminate the need to de-rate the wire fill capacity due to the intrusion of devices into the raceway channel.

Complete Line of Raceway

■ **PolyTrak**® Non-Metallic Surface Raceway is a complete system with raceway, fittings, boxes and devices.

■ Sizes range from single channel **PremiseTrak**® to three channel **Super BaseTrak**® for all types of surface raceway requirements.

■ Single and two channel latching raceways are dual-rated for both power and data applications, reducing inventory requirements.

■ UL Listed and CSA Certified to 600 volts.

■ Office white color.

PremiseTrak® (PT1) Single-Channel, Non-Metallic Raceway (Non-Latching)

A: .68" (17.27)
B: .75" (19.05)

Color	Base and Cover 5 ft.	Base and Cover 7 ft.
Office White	**PT1BC5**	**PT1BC7**
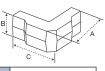
Color	Base and Cover with Adhesive Back 5 ft.	Base and Cover with Adhesive Back 7 ft.
Office White	**PT1ABC5**	**PT1BC7**
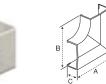
PT1 Non-Metallic Raceway Fittings and Device Boxes

Color	Internal Elbow Cover Only	Dimensions
Office White	**PT1IE**	A: 1.34" (34.04) B: 0.89" (22.61) C: 1.34" (34.04)

Color	External Elbow Cover Only	Dimensions
Office White	**PT1EE**	A: 1.24" (31.50) B: 0.88" (22.35) C: 1.24" (31.50)

Color	Flat Elbow Cover Only	Dimensions
Office White	**PT1FE**	A: 1.33" (33.78) B: 1.33" (33.78) C: 0.74" (18.80)

Color	Tee Cover Only	Dimensions
Office White	**PT1TC**	A: 1.77" (44.90) B: 1.33" (33.78) C: 0.74" (18.80)

Color	Splice Cover	Dimensions
Office White	**PT1SC**	A: 1.00" (25.40) B: 0.89" (22.61) C: 0.74" (18.80)

Color	End Cap	Dimensions
Office White	**PT1EC**	A: 0.88" (22.35) B: 0.74" (18.80) C: 0.89" (22.61)

Color	Conduit Adapter/ Ceiling Fitting	Dimensions
Office White	**PT12CA**	A: 1.64" (41.66) B: 1.62" (41.15) C: 2.50" (63.50)

Color	Low-Profile Box 1-Gang	Dimensions
Office White	**PT12LPB**	A: 4.9" (124.46) B: 3.25" (82.55) C: 1.12" (28.45)

Color	Standard Box* 1-Gang	Dimensions
Office White	**PT12SBA**	A: 4.9" (124.46) B: 3.25" (82.55) C: 1.63" (41.4)

Color	Deep Box* 1-Gang	Dimensions
Office White	**PT12DBA**	A: 4.9" (124.46) B: 3.25" (82.55) C: 1.91" (48.51)

Color	Deep Box* 2-Gang	Dimensions
Office White	**PT12TGB***	A: 4.9" (124.46) B: 5.06" (128.52) C: 1.91" (48.51)

Color	Round Lighting Fixture Box	Dimensions
Office White	**PT12LFB**	A: 5.31" (134.87) B: 1.04" (26.52)

See page J25 for recommended plate to box compatibility.

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

PremiseTrak® PT1

PremiseTrak® (PP1) Single-Channel, Non-Metallic Raceway (Latching)

A: 0.77" (19.56)
B: 0.84" (21.34)

Color	Base and Cover 5 ft.	Base and Cover 7 ft.
Office White	**PP1BC5**	**PP1BC7**
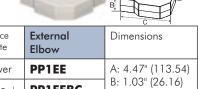
Color	Base and Cover with Adhesive Back 5 ft.	Base and Cover with Adhesive Back 7 ft.
Office White	**PP1ABC5**	**PP1ABC7**

PP1 Non-Metallic Raceway Fittings and Device Boxes

Office White	Internal Elbow	Dimensions
Cover	**PP1IE**	A: 2.40" (60.96) B: 1.03" (26.16) C: 2.40" (60.96)
Base + Cover	**PP1IEBC**	

Office White	External Elbow	Dimensions
Cover	**PP1EE**	A: 4.47" (113.54) B: 1.03" (26.16) C: 4.47" (113.54)
Base + Cover	**PP1EEBC**	

Office White	Flat Elbow	Dimensions
Cover	**PP1FE**	A: 2.62" (66.55) B: 2.62" (66.55) C: 0.85" (21.59)
Base + Cover	**PP1FEBC**	

Office White	Tee	Dimensions
Cover	**PP1TC**	A: 4.22" (107.19) B: 2.62" (66.55) C: 0.85" (21.59)
Base + Cover	**PP1TCBC**	

Office White	Conduit Adapter/ Ceiling Fitting	Dimensions
Base + Cover	**PLP1CACF**	A: 2.29" (58.17) B: 3.31" (84.07) C: 3.90" (99.06)

Color	Splice Cover	Dimensions
Office White	**PP1SC**	A: 1.09" (27.69) B: 1.02" (25.91) C: 0.85" (21.59)

Color	End Cap	Dimensions
Office White	**PP1EC**	A: 1.00" (25.40) B: 0.84" (21.34) C: 0.77" (19.56)
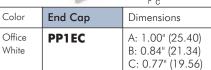
Color	Safety Strap	Dimensions
Office White	**PP1SS**	A: 0.62" (15.75) B: 1.94" (49.28) C: 0.86" (21.84)

Color	Low-Profile Box* 1-Gang	Dimensions
Office White	**PDB12LP**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.25" (31.75)

Color	Standard Box* 1-Gang	Dimensions
Office White	**PDB12S**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.78" (45.21)

Color	Deep Box* 1-Gang	Dimensions
Office White	**PDB12D**	A: 4.90" (124.46) B: 3.25" (82.55) C: 2.44" (61.98)

Color	Deep Box* Divided 2-Gang	Dimensions
Office White	**PDB12TGD**	A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)

Color	Deep Box* Undivided 2-Gang	Dimensions
Office White	**PDB12TGLV**	A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)

Color	Round Lighting Fixture Box*	Dimensions
Office White	**PDB12LF**	A: 5.31" (134.87) B: 1.29" (32.77)

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp
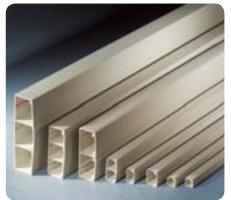
* See page J25 for recommended plate to box compatibility.

LANTrak® (PL1) Single-Channel, Non-Metallic Raceway (Latching)

A: 1.04" (26.42)
B: 1.38" (35.05)

Color	Base and Cover 5 ft.	Base and Cover 7 ft.
Office White	**PL1BC5**	**PL1BC7**

Color	Base and Cover with Adhesive Back 5 ft.	Base and Cover with Adhesive Back 7 ft.
Office White	**PL1ABC5**	**PL1ABC7**

PL1 Non-Metallic Raceway Fittings and Device Boxes

Office White	Internal Elbow	Dimensions
Cover	**PL1IE**	A: 2.51" (63.75) B: 1.57" (39.88) C: 2.51" (63.75)
Base + Cover	**PL1IEBC**	

Office White	External Elbow	Dimensions
Cover	**PL1EE**	A: 5.06" (128.52) B: 1.57" (39.88) C: 5.06" (128.52)
Base + Cover	**PL1EEBC**	

Office White	Flat Elbow	Dimensions
Cover	**PL1FE**	A: 3.19" (81.03) B: 3.19" (81.03) C: 1.11" (28.19)
Base + Cover	**PL1FEBC**	

Office White	Tee	Dimensions
Cover	**PL1TC**	A: 4.75" (120.65) B: 3.15" (80.01) C: 1.11" (28.19)
Base + Cover	**PL1TCBC**	

Office White	Conduit Adapter/ Ceiling Fitting	Dimensions
Base + Cover	**PLP1CACF**	A: 2.29" (58.17) B: 3.31" (84.07) C: 3.90" (99.06)

Color	Splice Cover	Dimensions
Office White	**PL1SC**	A: 1.12" (28.45) B: 1.55" (39.37) C: 1.11" (28.19)

Color	End Cap	Dimensions
Office White	**PL1EC**	A: 1.00" (25.40) B: 1.39" (35.31) C: 1.04" (26.42)
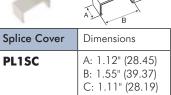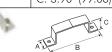
Color	Safety Strap	Dimensions
Office White	**PL1SS**	A: 0.62" (15.75) B: 2.68" (68.07) C: 1.12" (28.45)

Color	Low-Profile Box* 1-Gang	Dimensions
Office White	**PDB12LP**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.25" (31.75)

Color	Standard Box* 1-Gang	Dimensions
Office White	**PDB12S**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.78" (45.21)

Color	Deep Box* 1-Gang	Dimensions
Office White	**PDB12D**	A: 4.90" (124.46) B: 3.25" (82.55) C: 2.44" (61.98)

Color	Deep Box* Divided 2-Gang	Dimensions
Office White	**PDB12TGD***	A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)

Color	Deep Box* Undivided 2-Gang	Dimensions
Office White	**PDB12TGLV**	A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)

Color	Round Lighting Fixture Box	Dimensions
Office White	**PDB12LF**	A: 5.31" (134.87) B: 1.29" (32.77)

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

* See page J25 for recommended plate to box compatibility.

HUBBELL® Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

WallTrak® (PW1) Single-Channel, Low-Profile , Non-Metallic Raceway
(Latching)

A: .50" (12.70)
B: 1.19" (30.23)

Color	**Base and Cover** 5 ft.	**Base and Cover** 7 ft.
Office White	**PW1BC5**	**PW1BC7**

Color	**Base and Cover with Adhesive Back** 5 ft.	**Base and Cover with Adhesive Back** 7 ft.
Office White	**PW1ABC5**	**PW1ABC7**

PW1 Non-Metallic Raceway Fittings and Device Boxes

Office White	Internal Elbow	Dimensions
Cover only	**PW1IE**	A: 1.75" (44.45) B: 1.43" (36.32) C: 1.75" (44.45)
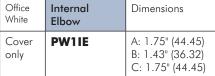
Office White	External Elbow	Dimensions
Cover only	**PW1EE**	A: 1.50" (38.10) B: 1.43" (36.32) C: 1.50" (38.10)

Office White	Flat Elbow	Dimensions
Cover only	**PW1FE**	A: 2.18" (55.37) B: 2.18" (55.37) C: .60" (15.24)

Office White	Tee	Dimensions
Cover only	**PW1TC**	A: 2.93" (74.42) B: 2.18" (55.37) C: .60" (15.24)

Office White	Conduit Adapter/ Ceiling Fitting	Dimensions
Base + Cover	**PW1CA**	A: 1.40" (35.56) B: 2.34" (59.44) C: 3.22" (81.79)

Color	Splice Cover	Dimensions
Office White	**PW1SC**	A: 1.00" (25.40) B: 1.43" (36.32) C: .60" (15.24)

Color	End Cap	Dimensions
Office White	**PW1EC**	A: 1.00" (25.40) B: 1.24" (31.50) C: .50" (12.70)

Color	Low-Profile Box* 1-Gang	Dimensions
Office White	**PW1LPB**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.13" (28.70)

Color	Standard Box* 1-Gang	Dimensions
Office White	**PW1SBA**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.63" (41.40)

Color	Deep Box* 1-Gang	Dimensions
Office White	**PW1DBA**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.91" (48.51)

Color	Deep Box* 2-Gang	Dimensions
Office White	**PW1TGB***	A: 4.90" (124.46) B: 5.06" (128.52) C: 1.91" (48.51)

Color	Round Lighting Fixture Box	Dimensions
Office White	**PW1LFB**	A: 5.31" (134.87) B: 1.04" (26.52)

See page J25 for recommended plate to box compatibility.

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp
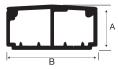
WallTrak® (PW2) Two-Channel, Non-Metallic Raceway (Latching)

A: 1.04" (26.42)
B: 2.12" (53.85)

Color	**Base and Cover**, 5 ft.	**Base and Cover**, 7 ft.
Office White	**PW2BC5**	**PW2BC7**

Color	**Base and Cover with Adhesive Back**, 5 ft.	**Base and Cover with Adhesive Back**, 7 ft.
Office White	**PW2ABC5**	**PW2ABC7**

PW2 Non-Metallic Raceway Fittings and Device Boxes

Office White	Internal Elbow	Dimensions
Cover	**PW2IE**	A: 2.83" (71.88) B: 2.32" (58.93) C: 2.83" (71.88)
Base + Cover	**PW2IEBC**	

Office White	External Elbow	Dimensions
Cover	**PW2EE**	A: 5.00" (127.00) B: 2.32" (58.93) C: 5.00" (127.00)
Base + Cover	**PW2EEBC**	

Office White	Flat Elbow	Dimensions
Cover	**PW2FE**	A: 3.94" (100.08) B: 3.94" (100.08) C: 1.11" (28.19)
Base + Cover	**PW2FEBC**	

Office White	Tee	Dimensions
Cover	**PW2TC**	A: 5.42" (137.67) B: 3.91" (99.31) C: 1.90" (48.26)
Base + Cover	**PW2TCBC**	

Office White	Conduit Adapter/ Ceiling Fitting	Dimensions
Base + Cover	**PW2CACF**	A: 4.18" (106.17) B: 3.32" (84.33) C: 4.20" (106.68)
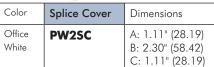
Office White	Reducer (from PW2 to PP1)	Dimensions
Base + Cover	**PW2RED**	A: 1.62" (41.15) B: 2.40" (60.96) C: 1.15" (29.21)

Color	Splice Cover	Dimensions
Office White	**PW2SC**	A: 1.11" (28.19) B: 2.30" (58.42) C: 1.11" (28.19)

Color	Safety Strap	Dimensions
Office White	**PW2SS**	A: 0.62" (15.75) B: 3.43" (87.12) C: 1.12" (28.45)

Color	End Cap	Dimensions
Office White	**PW2EC**	A: 1.00" (25.40) B: 2.14" (54.36) C: 1.04" (26.42)

Color	Low-Profile Box* 1-Gang	Dimensions
Office White	**PDB12LP**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.25" (31.75)

Color	Standard Box* 1-Gang	Dimensions
Office White	**PDB12S**	A: 4.90" (124.46) B: 3.25" (82.55) C: 1.78" (45.21)
Divider**, 1-Gang	**PDB1DIV**	

Color	Deep Box* 1-Gang	Dimensions
Office White	**PDB12D**	A: 4.90" (124.46) B: 3.25" (82.55) C: 2.44" (61.98)
Divider**, 1-Gang	**PDB1DIV**	

Color	Deep Box*, Divided 2-Gang	Dimensions
Office White	**PDB12TGD**	A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)
Divider**, 2-Gang	**PDB2DIV**	

Color	Deep Box* Undivided 2-Gang	Dimensions
Office White	**PDB12TGLV**	A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)

Color	Round Lighting Fixture Box	Dimensions
Office White	**PDB12LF**	A: 5.31" (134.87) B: 1.29" (32.77)
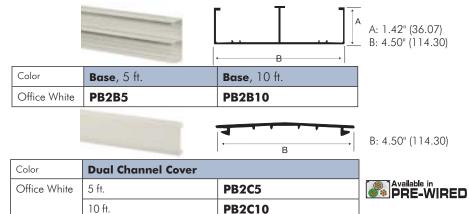
* See page J25 for recommended plate to box compatibility.
** Order separately to divide box.

WallTrak® PW2

J20   HUBBELL®   Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

BaseTrak® (PB2) Two-Channel, Non-Metallic Raceway (Non-Latching)

A: 1.42" (36.07)
B: 4.50" (114.30)

Color	**Base**, 5 ft.	**Base**, 10 ft.
Office White	**PB2B5**	**PB2B10**

B: 4.50" (114.30)

Available in PRE-WIRED

Color	**Dual Channel Cover**	
Office White	5 ft.	**PB2C5**
	10 ft.	**PB2C10**

PB2 Non-Metallic Raceway Fittings and Device Boxes

Office White	Single Channel Cover	Dimensions
5ft.	**PB2SPL5**	B: 2.22" (56.39)
10 ft.	**PB2SPL10**	

Office White	Internal Elbow	Dimensions
Base + Cover	**PB3IEBCA**	A: 4.36" (110.74) B: 4.72" (119.89) C: 4.36" (110.74)

Office White	External Elbow	Dimensions
Base + Cover	**PB3EEBCA**	A: 6.48 (164.59) B: 4.72 (119.89) C: 6.48 (164.59)

Office White	Flat Elbow	Dimensions
Base + Cover	**PB3FEBCA**	A: 7.64" (194.66) B: 7.64" (194.66) C: 1.71" (43.43)

Office White	Tee	Dimensions
Base + Cover	**PB3TCBCA**	A: 7.37" (187.20) B: 7.08" (179.83) C: 2.72" (69.09)

Office White	Conduit Adapter/ Ceiling Fitting	Dimensions
Base + Cover	**PB2CACF**	A: 4.72" (119.89) B: 5.22" (132.70) C: 6.30" (160.02)

Office White	Reducer (from PB2 to PW2)	Dimensions
Base + Cover	**PB3REDA**	A: 3.50" (88.90) B: 4.72" (119.89) C: 1.73" (43.94)

Office White	Transition Fitting (from PB2 to PW2, PL1, or PP1)	Dimensions
Base + Cover	**PB3TRBC**	A: 3.22" (81.79) B: 7.28" (184.91) C: 2.42" (61.47)

Office White	Surface Panel Connector	Dimensions
Base + Cover	**PB3SPCA**	A: 2.22" (56.39) B: 5.66" (143.76) C: 1.60" (40.64)

Color	Splice Cover	Dimensions
Office White	**PB3SC**	A: 1.56" (39.62) B: 4.74" (120.40) C: 1.69" (42.93)

Color	Safety Strap	Dimensions
Office White	**PB3SS**	A: 1.50" (38.10) B: 6.01" (152.65) C: 1.74" (44.20)

Color	End Cap	Dimensions
Office White	**PB3ECA**	A: 2.02" (51.31) B: 4.68" (118.97) C: 1.72" (43.69)

Color	Inline Box* 2-Gang	Dimensions
Office White	**PB2IND2G**	A: 7.66" (194.56) B: 4.74" (120.40) C: 1.84" (46.74)

Color	Wire Clip	
Office White	**PB2WC**	

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

* See page J25 for recommended plate to box compatibility.

BaseTrak® (PB3) Three-Channel, Non-Metallic Raceway (Non-Latching)

A: 1.63" (41.40)
B: 4.50" (114.30)

Color	Base and Cover 5 ft.	Base and Cover 10 ft.
Office White	PB3BC5	PB3BC10

Available in PRE-WIRED

Color	Safety Strap	Dimensions	Splice Cover	Dimensions	Wire Clip
Office White	PB3SS	A: 1.50" (38.10) B: 6.01" (152.65) C: 1.74" (44.20)	PB3SC	A: 1.56" (39.62) B: 4.74" (120.40) C: 1.69" (42.93)	PB3WC

PB3 Non-Metallic Raceway Fittings

Office White	Internal Elbow	Dimensions
Cover	PB3IE	A: 4.36" (110.74) B: 4.72" (119.89) C: 4.36" (110.74)
Base + Cover	PB3IEBCA	

Office White	External Elbow	Dimensions
Cover	PB3EE	A: 6.48" (164.59) B: 4.72" (119.89) C: 6.48" (164.59)
Base + Cover	PB3EEBCA	

Office White	Flat Elbow	Dimensions
Cover	PB3FE	A: 7.64" (194.66) B: 7.64" (194.66) C: 1.71" (43.43)
Base + Cover	PB3FEBCA	

Office White	Tee	Dimensions
Base + Cover	PB3TCBCA	A: 7.37" (187.20) B: 7.08" (179.83) C: 2.72" (69.09)

Office White	Conduit Adapter/ Ceiling Fitting	Dimensions
Base + Cover	PB3CACF	A: 4.72" (119.89) B: 5.22" (132.70) C: 6.30" (160.02)

Office White	Reducer (from PB3 to PW2)	Dimensions
Base + Cover	PB3REDA	A: 3.50" (88.90) B: 4.72" (119.89) C: 1.73" (43.94)

Office White	Transition Fitting (from PB3 to PW2, PL1, or PP1)	Dimensions
Base + Cover	PB3TRBC	A: 3.22" (81.79) B: 7.28" (184.91) C: 2.42" (61.47)

Color	Transition Fitting (from BT3 old style to PB3 new style)	Dimensions
Office White	BTPB3TF	A: 2.22" (56.39) B: 5.66" (143.76) C: 1.35" (34.29)

Color	Surface Panel Connector	Dimensions
Office White	PB3SPCA	A: 2.22" (56.39) B: 5.66" (143.76) C: 1.60" (40.64)

Color	End Cap	Dimensions
Office White	PB3ECA	A: 2.02" (51.31) B: 4.68" (118.97) C: 1.72" (43.69)
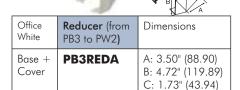
Office White	Inline Box* 1-Gang	Dimensions
Base + Cover	PB3IND	A: 7.70" (195.58) B: 4.84" (122.94) C: 2.02" (51.31)

Office White	Inline Box* 2-Gang	Dimensions
Base + Cover	PB3IND2G	A: 7.00" (177.80) B: 4.75" (120.65) C: 3.22" (81.78)

Office White	Full Capacity Box* 1-Gang	Dimensions
Base + Cover	PB3FCIB	A: 4.38" (111.25) B: 4.80" (121.92) C: 3.17" (80.52)
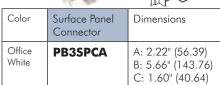
Office White	Full Capacity Box* 2-Gang	Dimensions
Base + Cover	PB3FCIB2G	A: 7.20" (182.88) B: 4.80" (121.92) C: 3.17" (80.52)

Office White	Full Capacity Box* 3-Gang	Dimensions
Base + Cover	PB3FCIB3G	A: 9.96" (252.98) B: 4.80" (121.92) C: 3.17" (80.52)
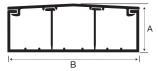
* See page J25 for recommended plate to box compatibility.

Super BaseTrak® (PS3) Three-Channel, Non-Metallic Raceway (Non-Latching)

A: 1.97" (50.04)
B: 6.70" (170.18)

Color	Base and Cover 5 ft.	Base and Cover 10 ft.
Office White	**PS3BC5**	**PS3BC10**

Available in **PRE-WIRED**

Color	Safety Strap	Dimensions	Splice Cover	Dimensions	Wire Clip
Office White	**PS3SS**	A: 1.50" (38.10) B: 8.24" (209.30) C: 2.08" (52.85)	**PS3SC**	A: 1.56" (39.62) B: 6.95" (176.53) C: 2.03" (51.62)	**PS3WC**

PS3 Non-Metallic Raceway Fittings and Device Boxes

Office White	Internal Elbow	Dimensions
Cover	**PS3IE**	A: 4.36" (110.74) B: 6.93" (176.02) C: 4.36" (110.74)
Base + Cover	**PS3IEBC**	

Office White	External Elbow	Dimensions
Cover	**PS3EE**	A: 6.81" (172.97) B: 6.93" (176.02) C: 6.81" (172.97)
Base + Cover	**PS3EEBC**	

Office White	Flat Elbow	Dimensions
Cover	**PS3FE**	A: 9.85" (250.19) B: 9.85" (250.19) C: 2.08" (52.83)
Base + Cover	**PS3FEBC**	

Office White	Tee	Dimensions
Base + Cover	**PS3TCBC**	A: 10.00" (254) B: 9.68" (245.87) C: 3.30" (83.82)

Office White	Conduit Adapter/ Ceiling Fitting	Dimensions
Base + Cover	**PS3CACF**	A: 6.93" (176.02) B: 4.32" (109.73) C: 6.29" (159.77)
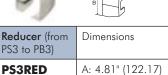
Office White	Reducer (from PS3 to PB3)	Dimensions
Base + Cover	**PS3RED**	A: 4.81" (122.17) B: 6.93" (176.02) C: 2.05" (52.07)

Color	Surface Panel Connector	Dimensions
Office White	**PS3SPC**	A: 1.00" (25.40) B: 7.87" (199.90) C: 2.54" (64.52)

Color	End Cap	Dimensions
Office White	**PS3EC**	A: 1.50" (38.10) B: 6.88" (174.75) C: 2.06" (52.32)

Office White	Inline Box* 3-Gang	Dimensions
Base + Cover	**PS3IND**	A: 7.00" (177.80) B: 6.95" (176.53) C: 2.28" (57.91)

Office White	Full Capacity Box* 1-Gang	Dimensions
Base + Cover	**PS3FCIB**	A: 4.38" (111.25) B: 6.95" (176.53) C: 3.46" (87.88)

Office White	Full Capacity Box* 2-Gang	Dimensions
Base + Cover	**PS3FCIB2G**	A: 7.20" (182.88) B: 6.95" (176.53) C: 3.46" (87.88)

Office White	Full Capacity Box* 3-Gang	Dimensions
Base + Cover	**PS3FCIB3G**	A: 9.96" (252.98) B: 6.95" (176.53) C: 3.46" (87.88)

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

* See page J25 for recommended plate to box compatibility.

HUBBELL PolyTrak

Non-Metallic Surface Raceway
Selection Guide - Raceway and Fittings

Raceway	PremiseTrak®		LANTrak®	WallTrak®		BaseTrak®		Super BaseTrak®
Raceway Style	Non-Latching	Latching	Latching	Latching	Latching	2-Piece	2-Piece	2-Piece
Profile Dimensions	.75" x .68"	.84" x .77"	1.38" x 1.04"	1.19" x .5"	2.12" x 1.04"	4.5" x 1.63"	4.5" x 1.63"	6.7" x 1.97"
No. of Channels	1	1	1	1	2	2	3	3
5' Base and Cover	**PT1BC5**	**PP1BC5**	**PL1BC5**	**PW1BC5**	**PW2BC5**			
5' Base and Cover, Adhesive	**PT1ABC5**	**PP1ABC5**	**PL1ABC5**	**PW1ABC5**	**PW2ABC5**			
7' Base and Cover	**PT1BC7**	**PP1BC7**	**PL1BC7**	**PW1BC7**	**PW2BC7**			
7' Base and Cover, Adhesive	**PT1ABC7**	**PP1ABC7**	**PL1ABC7**	**PW1ABC7**	**PW2ABC7**			
5' Base only						**PB2B5**		
10' Base only						**PB2B10**		
5' One-piece Cover						**PB2C5**		
10' One-piece Cover						**PB2C10**		
5' Split Cover						**PB2SPL5**		
10' Split Cover						**PB2SPL10**		
5' Base and Cover							**PB3BC5**	**PS3BC5**
10' Base and Cover							**PB3BC10**	**PS3BC10**

Fittings	PremiseTrak®		LANTrak®	WallTrak®		BaseTrak®		Super BaseTrak®
Flat Elbow Cover	**PT1FE**	**PP1FE**	**PL1FE**	**PW1FE**	**PW2FE**		**PB3FE**	**PS3FE**
Flat Elbow*		**PP1FEBC**	**PL1FEBC**		**PW2FEBC**	**PB3FEBCA**	**PB3FEBCA**	**PS3FEBC**
Internal Elbow Cover	**PT1IE**	**PP1IE**	**PL1IE**	**PW1IE**	**PW2IE**		**PB3IE**	**PS3IE**
Internal Elbow*		**PP1IEBC**	**PL1IEBC**		**PW2IEBC**	**PB3IEBCA**	**PB3IEBCA**	**PS3IEBC**
External Elbow Cover	**PT1EE**	**PP1EE**	**PL1EE**	**PW1EE**	**PW2EE**		**PB3EE**	**PS3EE**
External Elbow*		**PP1EEBC**	**PL1EEBC**		**PW2EEBC**	**PB3EEBCA**	**PB3EEBCA**	**PS3EEBC**
Tee Cover	**PT1TC**	**PP1TC**	**PL1TC**	**PW1TC**	**PW2TC**			
Tee Cover*	**PT1SC**	**PP1TCBC**	**PL1TCBC**		**PW2TCBC**	**PB3TCBCA**	**PB3TCBCA**	**PS3TCBC**
Splice Cover		**PP1SC**	**PL1SC**	**PW1SC**	**PW2SC**	**PB3SC**	**PB3SC**	**PS3SC**
Security Strap, 2-hole		**PP1SS**	**PL1SS**		**PW2SS**	**PB3SS**	**PB3SS**	**PS3SS**
End Cap	**PT1EC**	**PP1EC**	**PL1EC**	**PW1EC**	**PW2EC**	**PB3ECA**	**PB3ECA**	**PS3EC**
Conduit Adapter/ Ceiling Fitting	**PT12CA**	**PLP1CACF**	**PLP1CACF**	**PW1CA**	**PW2CACF**	**PB2CACF**	**PB3CACF**	**PS3CACF**
Wire Clips						**PB2WC**	**PB3WC**	**PS3WC**
Surface Panel Connector						**PB3SPCA**	**PB3SPCA**	**PS3SPC**
Transition Fitting (BaseTrak to Wall/ LAN/PremiseTrak)						**PB3TRBC**	**PB3TRBC**	
Reducers					**PW2RED**	**PB3REDA**	**PB3REDA**	**PS3RED**
Transition Fitting BT3 to PB3							**BTPB3TF**	

* Indicates 1¼" bend radius base and cover fitting.

Physical Properties
(When tested in accordance with UL 5A)

Impact Resistance	5 ft. lbs.
Crush Resistance	300 lbs.
Temperature Range	-25.6° to 158° F
Flame Rating	UL94V-0
Material	UV Stabilized PVC

Codes/Standards

EIA/TIA	569A
UL Standard	UL 5A
Listings	E118895 / E119190
CSA Standard	C22.2 no. 62
Certified	LR87514

For more detailed information, go to
www.hubbell-premise.com/Raceway.asp

HUBBELL PolyTrak

Non-Metallic Surface Raceway
Selection Guide - Boxes and Accessories

Catalog No.	PremiseTrak®		LANTrak®	WallTrak®		BaseTrak®		Super BaseTrak®
Low-Profile 1-Gang	PT12LPB	PDB12LP	PDB12LP	PW1LPB	PDB12LP			
Standard Profile 1-Gang	PT12SBA	PDB12S	PDB12S	PW1SBA	PDB12S			
Deep Profile 1-Gang	PT12DBA	PDB12D	PDB12D	PW1DBA	PDB12D			
Divided 2-Gang (Multi-service capable)		PDB12TGD	PDB12TGD		PDB12TGD			
Communications only 2-Gang		PDB12TGLV	PDB12TGLV	PDB12TGLV				
2-Gang	PT12TGB			PW1TGB				
Round Lighting Fixture Box	PT12LFB	PDB12LF	PDB12LF	PW1LFB	PDB12LF			
Multi-service Pass-thru Divider Tunnel 1-Gang					PDB1DIV			
Multi-service Pass-thru Divider Tunnel 2-Gang					PDB2DIV			
ISM Surface Housings		ISM 1,2,4,6,&12	ISM 4,6,&12		ISM 4,6,&12			
AMO Multimedia Housing			AMO		AMO			
Inline 1-Gang							PB3IND	
Inline 2-Gang (Multi-service capable)						PB2IND2G	PB3IND2G	
Inline 3-Gang (Multi-service capable)								PS3IND
Full Capacity Raise Inline 1-Gang							PB3FCIB	PS3FCIB
Full Capacity Raise Inline 2-Gang							PB3FCIB2G	PS3FCIB2G
Full Capacity Raise Inline 3-Gang (Multi-service capable)							PB3FCIB3G	PS3FCIB3G
iSTATION™ Module Bezel	KPIMBZOW	KPIMBZOW	KPIMBZOW	KPIMBZOW	KPIMBZOW	KPIMBZOW	KPIMBZOW	KPIMBZOW

Recommended Plate to Box Compatibility Selection Chart

Non-Metallic Raceway Box Series		PS3 Boxes				PB3 Boxes					PB2 Boxes	PDB12 Boxes			PT12 & PW1 Boxes	
Plate Style	Sample Catalog No.	IND	FCIB	FCIB2G	FCIB3G	IND	IND2G	FCIB	FCIB2G	FCIB3G	IND2G	LP, S, D	TGD	TGLV	LPB, SBA, DBA	TGB
1-Gang KP Series Plate	KP8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
1-Gang KP Series Bezel	KPIMBZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
1-Gang IFP Data Plate	IFP12OW		✓	✓	✓			✓	✓	✓		✓			✓	
1-Gang iSTATION™ IMF Plate Frame	IMF1OW		✓	✓	✓			✓	✓	✓		✓			✓	
2-Gang iSTATION™ IMF Plate Frame	IMF2OW													✓		✓
2-Gang IFP Data Plate	IFP29OW													✓		✓
2-Gang KP Series Plate	KP82															✓

Note: Hubbell Office White plates and devices color match all non-metallic raceway systems.

Face Plates and Frames
Metal and Non-Metallic Raceway Fittings

Ivory Metal Raceway uses Almond (AL) Plates and Frames; Non-Metallic Raceway uses Office White (OW or no suffix) Plates and Frames.

1-Gang "KP" Plates

Color*	Duplex	Decorator	Single Receptacle (1.41" ID)	Single Receptacle (1.60" ID)	Toggle	Blank	Coax (2)	Jack/Coax	Jacks (2)	Jacks (3)	KP Module Bezel*
Office White	**KP8**	**KP26**	**KP7**	**KP720**	**KP1**	**KP14**	**KP212**	**KP2140**	**KP2162**	**KP2163**	**KPIMBZOW**
Almond	**KP8AL**	**KP26AL**	**KP7AL**	**KP720AL**	**KP1AL**	**KP14AL**	**KP212AL**	**KP2140AL**	**KP2162AL**	**KP2163AL**	**KPIMBZAL**
Gray	**KP8GY**	**KP26GY**	**KP7GY**	**KP720GY**	**KP1GY**	**KP14GY**	**KP212GY**	**KP2140GY**	**KP2162GY**	**KP2163GY**	**KPIMBZGY**

* Accepts all iSTATION™ Modules located in Section B.

2-Gang "KP" Plates (For use with PT12TGB and PW1TGB only)

Color	Duplex, 2-Gang	Decorator, 2-Gang	Toggle, 2-Gang	Blank, 2-Gang
Office White	**KP82**	**KP262**	**KP2**	**KP24**
Almond	**KP82AL**	**KP262AL**	**KP2AL**	**KP24AL**
Gray	**KP82GY**	**KP262GY**	**KP2GY**	**KP24GY**

iSTATION™ Frames

Front loading plate will accept any modules in three unit combinations. Angled fixtures to be used in bottom opening only. See section B for complete iSTATION™ Module offering.

Color	Plate Frame 1-Gang	Plate Frame 2-Gang
Office White	**IMF1OW**	**IMF2OW**
Almond	**IMF1AL**	**IMF2AL**
Gray	**IMF1GY**	**IMF2GY**

Keystone "IFP Plates"

Color	1-Gang, 2-Port	1-Gang, 3-Port	1-Gang, 4-Port	1-Gang, 6-Port	2-Gang, 6-Port	2-Gang, 9-Port	2-Gang, 12-Port
Office White	**IFP12OW**	**IFP13OW**	**IFP14OW**	**IFP16OW**	**IFP26OW**	**IFP29OW**	**IFP212OW**
Almond	**IFP12AL**	**IFP13AL**	**IFP14AL**	**IFP16AL**	-	-	-
Gray	**IFP12GY**	**IFP13GY**	**IFP14GY**	**IFP16GY**	-	-	-

Communication Plates and Frames

Color	Decorator	Decorator Keystone				Duplex	Duplex Keystone	
		2-Port	3-Port	4-Port	6-Port		2-Port	4-Port
Office White	**IFP126OW**	**ISF2OW**	**ISF3OW**	**ISF4OW**	**ISF6OW**	**IFP18OW**	**BR106C**	**Q106O**
Almond	**IFP126AL**	**ISF2AL**	**ISF3AL**	**ISF4AL**	**ISF6AL**	**IFP18AL**	**BR106AL**	**Q106AL**
Gray	-	**ISF2GY**	**ISF3GY**	**ISF4GY**	**ISF6GY**	**IFP18GY**	**BR106G**	**Q106G**

Audio Video Connectors

AV connectors to be used with any plate with a standard keystone opening. Not recommended for use with KP plates. For KP applications, use KPIMBZOW bezel and appropriate iSTATION™ Modules located in section B. Use appropriate iSTATION™ Module for SC fiber adapters. See section B for complete AV offering.

Color	Blank (10 Pack)	F-Connector	ST Fiber Connector	BNC Connector	RCA	Super S-Video	SC Duplex Adapter	SC to ST Duplex Adapter
Office White	**SFB10**	**SFFX**	**SFST**	**SFBOW**	**SFRC110R** (Black Housing only)	**SFSV110BK** (Black Housing only)	**FASCMPB6**	**FASTSCEMPB6**
Almond	**SFBAL10**	**SFFALX**	**SFSTAL**	**SFBAL**				
Gray	**SFBGY10**	**SFFGX**	**SFSTG**	**SFBGGY**				

XCELERATOR™ Keystone Jacks

Cat. 5e, Office White
T568A, T568B, RJ45
HXJ5EOW

Cat. 6, Office White
T568A, T568B, RJ45
HXJ6OW

6 Position USOC, Office White, RJ25
HXJUOW

Jack Color Options (Replaces **OW** Suffix)

AL=Almond	**BK**=Black	**B**=Blue	**EI**=Electric Ivory	**GL**=Gold	**GY**=Gray	**GN**=Green	**LA**=Light Almond
OW=Office White	**OR**=Orange	**P**=Purple	**R**=Red	**TI**=Telco Ivory	**W**=White	**Y**=Yellow	

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Non-Metallic Raceway Dimensions

PT1 **PP1** **PL1** **PW1** **PW2**

.29" (1.87) .68" (17.27) .75" (19.05)

.38" (2.45) .77" (19.56) .84" (21.34)

1.03" (6.65) 1.04" (26.42) 1.38" (35.05)

.30" (1.94) .50" (12.70) 1.19" (30.23)

.81" (5.23) .79" (5.10) 1.04" (26.42) 2.12" (53.85)

PB2* **PB3*** **PS3***

2.86" (18.45) 2.86" (18.45) 1.63" (41.40) 4.50" (114.30)

1.80" (11.61) 1.97" (12.71) 1.80" (11.61) 1.63" (41.40) 4.50" (114.30)

3.41" (22.00) 3.76" (24.26) 3.41" (22.00) 1.97" (50.04) 6.70" (170.18)

Notes: ** Available in PRE-WIRED.*
Channel Area in Square Inches (square centimeters).
Dimensions in Inches (mm).

Non-Metallic Raceway Wire Fill Capacities

			Power (THHN/T90 Nylon)			Voice		Data (Copper Cables)					Data (Multimode Fiber Optic Cables)		
			14 AWG	12 AWG	10 AWG	4-Pair	25-Pair	Type RG59U	Cat. 5e	Cat. 6	Cat. 6A	Cat. 6 STP	(2) or (4) Fiber Round Cable	Fiber Optic Jumpers	Fiber Optic Zip Cord
		Wire O.D. (in.):	0.111	0.13	0.164	0.19	0.41	0.242	0.21	0.25	0.35	0.29	0.19	0.118	.12 X .24
		Wire Area (sq. in.):	0.0097	0.0133	0.0211	0.0283	0.1320	0.0460	0.0346	0.0491	0.0962	0.0660	0.0283	0.0109	0.0288
Series	Channel	Channel Area (sq. in.)	Wire Fill Capacity			40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
PT1	A	0.29	5	8	5	4	1	3	3	2	1	2	4	11	4
PP1	A	0.38	12	11	8	5	1	3	4	3	2	2	5	14	5
PL1	A	1.03	42	34	22	15	3	9	12	8	4	6	15	38	14
PW1	A	0.30	6	10	4	4	0	2	3	2	1	2	4	11	4
PW2	A+B	1.60	41	36	22	23	5	14	18	13	7	10	23	59	22
A B	A	0.81	12	22	12	11	2	7	9	7	3	5	11	30	11
	B	0.79	12	22	10	11	2	7	9	6	3	5	11	29	11
PB2	A+B	5.72	60	36	45	81	17	50	66	47	24	35	81	210	79
A B	A or B	2.86	42	30	28	40	9	25	33	23	12	17	40	105	40
PB3	A+B+C	5.57	60	36	45	79	17	48	64	45	23	34	79	204	77
A B C	A or C	1.80	42	30	28	25	5	16	21	15	7	11	25	66	25
	B	1.97	42	30	28	28	6	17	23	16	8	12	28	72	27
PS3	A+B+C	10.58	72	66	78	150	32	92	122	86	44	64	150	388	147
A B C	A or C	3.41	42	36	42	48	10	30	39	28	14	21	48	125	47
	B	3.76	42	36	42	53	11	33	43	31	16	23	53	138	52

Note: Pathway (Raceway) fill shall be 40% Maximum. Raceway fittings and outlets/receptacles reduce the cross section of the raceway system, thus reducing overall cable fill capacity.

FLOORTRAK®
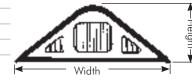
FLOORTRAK® is a non-metallic, flexible, protective cover for cables that run over the floor.

Specifications

◆ Available in 3 sizes, variety of lengths.
◆ Made from flexible PVC.

Dimensions

FLOORTRAK®	2	3	4
Width	2.75"	3.0"	3.25"
Height	0.53"	0.75"	1.10"
Center hole	0.6x.31"	0.75x0.5"	1.21x0.75"

Description	Color	Length	Catalog No.
FLOORTRAK® 2	Black	10'	**FT2BK10**
FLOORTRAK® 3	Black	5'	**FT3BK5**
	Black	25'	**FT3BK25**
FLOORTRAK® 4	Black	5'	**FT4BK5**
	Black	25'	**FT4BK25**

HARSH ENVIRONMENTS

COMPLETE COMMUNICATION SOLUTION FOR HARSH ENVIRONMENTS.

HUBBELL'S HI-IMPACT SYSTEM IS MORE THAN JUST A CONNECTION. IT IS A COMPLETE END-TO-END COMMUNICATIONS SOLUTION DESIGNED TO SOLVE PROBLEMS IN THE MOST PUNISHING ENVIRONMENTS.
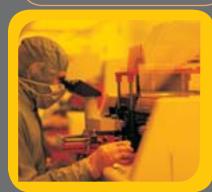
Connectors **Patch Cords** **Plates** **Boxes** **Cabinets** **Delivery**

HI-IMPACT•N...........ONMENTS•MULTIMEDIA CONNECTORS•PATCH CORDS•WEATHERPROOF
COVERS•SU...........RD CONNECTORS•STRAIN RELIEF GRIPS•IP67•HARSH ENVIRONMENTS
•PROTECTE...........NON-METALLIC CONDUIT•TRANSMISSION PERFORMANCE•FIELD TERMIN
CORROSIO...........UGH ENVIRONMENTS•THERMOPLASTIC•STAINLESS STEEL•INLINE COUP
UV-RESISTAN...........L UTILITY BOX•REMOTE EQUIPMENT CABINET•CATEGORY 6•NON-CON
DUCTIVE•C...........E•QUICK...........-F...........HIGH-DENSITY•COMMERCIAL
ENVIRONM...........RATED•NEMA 4/12/13•ETHERNET•AUTOMATION•REINFORCED FIBERG

HI-IMPACT CONTENTS

HARSH- e   A Comprehensive Rating System.

The **H**ubbell **A**pplications **R**ating **S**ystem for **H**arsh **E**nvironments (HARSH-**e**) simplifies specifying the right product by categorizing environmental conditions into three classes – severe, harsh and tough. When determining what product set to specify, define each application, the standards that need to be addressed and the environmental condition, which it resides in. Use the HARSH-**e** table to identify the e-level that best describes your specific application. Once the level is determined, use the e-icons to assemble the appropriate product solution for that application. NOTE: The most severe environmental condition dictates the HARSH-**e** level for your application.

Loading Dock

Warehousing

Cafeteria

Offices

Quality Control

Material Handling

Laboratory

CNC Machines and Work Cells

Research & Development

Batch and Liquid Processing

Automation

Outside Plant

HARSH- e
Hubbell Application Rating System for Harsh Environments

	e3 Application Severe	e2 Application Harsh	e1 Application Tough
Dust	Enclosures: **NEMA 4X** Connectors: **IP67** and **IP66** Totally protected against dust (Dust-tight)	Enclosures: **NEMA 4/12/13** Connectors: **IP67** and **IP66** Protected against dust, Objects greater than 1 mm	Enclosures: **NEMA 3R** Connectors: **IP43** Objects greater than 1 mm i.e., tools, wires, small wires
Water	Enclosures: **NEMA 4X** Connectors: **IP67** and **IP66** Immersion and strong pressure jets	Enclosures: **NEMA 4/12/13** Connectors: **IP67** and **IP66** Protected against strong and low pressure jets	Enclosures: **NEMA 3R** Connectors: **IP43** Protected against sprays of water to 60° from vertical
Corrosion	Enclosures: **NEMA 4X** Stainless Steel: Dust, water and corrosive liquids Connectors: PBT Common oils, chemicals and cleaning agents	Enclosures: **NEMA 4/12/13** Ice, dust, water, non-corrosive liquids Connectors: PBT Common oils	Enclosures: **NEMA 3R** Falling rain, sleet Connectors: N/A
Impact	Enclosures: 14 ga., 304 SS Connector Housing: PBT	Enclosures: 14 ga., Steel Connector Housing: PBT	Enclosures: 14 ga., Steel Connectors: Thermoplastic
Tamper	Enclosures: Protected, secured and locked	Enclosures: Protected, and optional lock	Enclosures: Protected, but not secured
Temperature	TIA/EIA-568-B.2 TIA/TR 42.9 pending	TIA/EIA-568-B.2	TIA/EIA-568-B.2
Vibration	TIA/TR 42.9 10-500Hz 5g Acceleration	TIA/TR 42.9 10-500Hz 2g Acceleration	TIA/TR 42.9 10-500Hz 0.7g Acceleration
Ultra-Violet	Protected	Protected	Not Protected

e³ Severe Environments

HARSH-e3 applications are punishing environments where extreme temperatures, EMI, vibration and exposure to corrosive materials may be present.

Typical Severe Environment Applications

- Food Processing
- Manufacturing
  Automation
  Automotive
  Finishing and Plating
  Foundries
  Molding
  Paper Mills
  Process & Control
  Robotics Welding
  Stamping
  Tool & Die

- Marinas
- Pharmaceutical
- Utility
  Electric Utilities
  Oil & Mining
  Refinement & Waste
  Treatment Facilities

e² Harsh Environments

HARSH-e2 applications are harsh environments where hardware is exposed to regular abuse.

Typical Harsh Environment Applications

- Automated
  Tellers Machines
- Billboards and
  Display
- Food
  Commercial Food
  Fast Food
  Restaurants
- Laboratories
- Manufacturing
  Automation
  Material Handling
  Warehouses

- Medical
  Mobile Med Units
- Pharmaceutical
- Retail
- Transportation
  Airports
  Bus Stations
  Train Stations
  Subways
- Zoos

e¹ Tough Environments

HARSH-e1 applications are more demanding than typical commercial environments. Hardware is exposed to occassional rough use.

Typical Tough Environment Applications

- Hospitality and
  Entertainment
  Aquariums
  Amusement and Family
    Entertainment
  Casinos
  Convention Centers
  Hotels
  Resorts
  Stadiums
  Theme Parks

- Educational
  K-12
  University
- Grocery/Deli
- Laboratories
- Medical

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HUBBELL
HiImpact
Copper Connectors

Specifications

◆ Environmental
- Ingress Protection: IP67 and IP66 (dust/water).
- Corrosion: Resistant to most common chemicals, oils and cleaning agents.
- HI-IMPACT Housing: UV resistant.
- HI-IMPACT Housing Temperature Range: TIA/EIA-568-B.2 -25°C to 70°C

◆ Mechanical
- Vibration
  - Frequency Range: 10-500Hz.
  - Acceleration: 5g (operational).
- Mating Cycles: 750 minimum.
- UL 1863 compliant.

◆ Material
- HI-IMPACT Housing: Valox®, UL 94V-0.
- Nose Contacts: Beryllium Copper with a precious metal plating over Nickel under plating.
- F-Connector: brass, Gold-plated 2μ".

◆ Electrical
- ANSI/TIA/EIA-568-B.2-1 (Cat 6 and 5e).
- Supports TIA-1005 Industrial Telecommunications Infrastructure.
- IEEE 802.3 for DTE power.
- F-Connector Performance: 1500 MHz Impedance: 75Ω.

HI6

HUBBELL Advantage

- Standard Hubbell Keystone opening provides a migration path to upgrade in the future.
- Standard ¾" conduit knockout simplifies installation.
- Resistant to UV, common chemicals, cleaning agents and petroleum.

Features/Benefits

- IP67 and IP66 rated for dust and liquids.
- IEEE 802.3 PoE/PoE+ support.
- Third-Party verified to Category 6 and Category 5e.
- Durable, rugged construction for the most punishing environments.
- Vibration TIA 568-B.2 transmission integrity.
- User-Friendly Quick Connect positive indication when fully engaged.
- Valox® construction: resistant to temperature extremes, common chemicals and impact.

HI-IMPACT Copper Connectors

Delivery: 1 housing, 1 jack (see below), 1 flat bulkhead gasket, and 1 retaining nut.

HI-IMPACT Category 6 Connector (UTP)
The HI6's unmatched transmission performance is the perfect solution for bandwidth intensive applications, convergence and large file transferring.

| Catalog No. | **HI6** |

HI6

HI-IMPACT Category 5e Connector
The HI5E is the ideal solution for convergence and PoE applications such as VoIP, video IP, wireless access points, vision systems and automation sensors.

| Catalog No. | **HI5E** |

HI5E

HI-IMPACT Inline Coupler, Category 5e
The HI coupler allows the user a fast and easy way to add a connection to a cabinet, surface housing or panel and connect to a device in a protected environment without punching down. Use a Hubbell category rated 5e/6 patch cord to connect in the protected environment to the HI coupler to the device.

	Category 5e
Catalog No.	**HI5EC**

HI5EC

HI-IMPACT Shielded, Category 5e/6 Connectors
The HIS shielded jacks deliver protection from interference caused by EMI providing high performance data transmission from data points without interruption. The quick connect bayonet style housing provides tactile feedback when fully engaged minimizing user error typically found with screw-type mating mechanisms.

Catalog No.	Category 5e
A-Wiring	**HIS5EA**
B-Wiring	**HIS5EB**

HIF

HI-IMPACT F-Connector
HI-IMPACT F-connector's Gold plating provides the perfect connection solution for distributing high quality video signal over horizontal coaxial cable (RG6 and RG59) to and from a device. Whether it's surveillance cameras, video distribution equipment, CCTV or delivering CATV out to marinas, the HIF provides the IP67 protection needed to make the reliable connection.

| Catalog No. | **HIF** |

HIC

Protective Cap
| Catalog No. | **HIC** |

NOTE: For E3 environments, please contact Technical Services for specific chemical and environmental applications.

HARSH e³ e²

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HUBBELL
HiImpact Patch Cords

HUBBELL Advantage

- Patch cords deliver unmatched transmission performance.
- Different media styles means full application support for all media types: voice-data-video.
- Field-terminable cords and connectors allow installation and configuration on-site to best suit the application.

Features/Benefits

- Vibration TIA 568-B.2 transmission integrity.
- Maximum cable strain relief resists pull-out.
- User-friendly Quick Connect positive feedback when mated.
- Flexible, durable patch cable resistant to UV, chemicals, cleaning agents and oils.
- O-Ring seal: reliable IP67 and IP66.
- Valox® construction: resistant to temperature extremes and impact.

Specifications

- Environmental
  - Ingress Protection: IP67 and IP66 (dust/water).
  - Corrosion: Resistant to most common chemicals, oils and cleaning agents.
  - HI-IMPACT Housing: UV resistant.
  - HI-IMPACT Housing Temperature Range: TIA/EIA-568-B -25°C to 70°C.

HI-IMPACT Patch Cords

HI-IMPACT patch cord assemblies deliver the superior transmission performance your network needs, packaged in a durable HI-IMPACT shell providing the ultimate protection your harsh environment demands. The HI-IMPACT patch cords are available in a large variety of lengths, styles and media types to accommodate the various applications and combinations requested.

[1] HARSH e[3] e[2]
[2] HARSH e[1]

HI-IMPACT Patch Cord Assembly Chart

	AE	AA	EE
A	A	A	E
E	E	A	E

Patch Cords, Cat 6/5e

	Category 6 Catalog No.	Category 5e Catalog No.	Category 5e Shielded Catalog No.
HI-IMPACT RJ-45 to standard RJ-45	**HI6XXAE**[1]	**HI5EXXAE**[1]	**HI5ESXXAE**[1]
HI-IMPACT RJ-45 on both ends	**HI6XXEE**[1]	**HI5EXXEE**[1]	**HI5ESXXEE**[1]
Standard RJ-45 on both ends	**HI6XXAA**[2]	**HI5EXXAA**[2]	**HI5ESXXAA**[2]

*Substitute "**XX**" with 02, 03, 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 to indicate length in feet.*

Patch Cords, F-Connector (RG59)

	Catalog No.
F-connector HI-IMPACT F to standard F (RG59)	**HIFXXAE**[1]
F-connector HI-IMPACT F to HI-IMPACT F (RG59)	**HIFXXEE**[1]

*Substitute "**XX**" with 02, 03, 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 to indicate length in feet.*

Field Termination Patch Cord Kits

NOTE: HI-IMPACT plugs, cable and connectors are only rated when used together.

HI-IMPACT Plug Connector	Category 5e	Plug Connector	Catalog No.
UTP	**HI5EP**	F-connector (RG59)	**HIFP**
Shielded	**HI5ESP**		

HI-IMPACT Plug, 25-pk	Category 5e	HI-IMPACT RJ45 Plug	Catalog No.
RJ45 UTP Stranded	**HIP5E25**	Boot, 25-pk, Black	**HICB25BK**
Shielded	**HIP5ES25**		

HIFXX

Bulk Patch Cable

HI-IMPACT Cable	Category 5e	HI-IMPACT Cable	Catalog No.
100'	**HIPC100**	RG59 coaxial, 100'	**HIF100**
Shielded, 100'	**HI5ES100**		

HIPC100

HI5EP

Coupler Housing (Coming Soon)

HI-IMPACT Coupler Housing - is a perfect solution for temporary and flexible work areas where single port drops are needed. Add any HI-IMPACT connector to support your application.
Delivery: 1 coupler housing with cord connector attached and 1 protective cap.
NOTE: HI-IMPACT connectors not included, see page K6.

Catalog No.	**HICH**[1]

HICH

NOTE: For E[3] environments, please contact Technical Services for specific chemical and environmental applications.

HUBBELL HIlabel

Compatible with **Hubbell Labeling System** - see page M8.

HUBBELL
HiImpact **Plates, Boxes and Covers**

HI-IMPACT Plates and Device Boxes

Features/Benefits

- ■ IP55 rated for dust and liquids (HISFXX).
- ■ Pre-punched, keyed opening for HI connector.
- ■ Single and double gang offerings.
- ■ Gasketed to protect from elements.

Specifications

Stainless Steel Plates
- ◆ Thickness: .04" (.9) nominal.
- ◆ Material: smooth metal 302/304; super Stainless Steel 17-19%; chrome, 8% Nickel.
- ◆ Gasket Material: UL closed-cell foam.

Thermoplastic Plates
- ◆ Flammability: UL 94-V0, 94-5VA classification.
- ◆ Material: Valox®.
- ◆ Gasket Material: UL closed-cell foam.

HISF11

HI114PY

Plates

Port Size	Gang	Stainless Steel Catalog No.	Color	Thermoplastic 4-Point FS/FD Catalog No.
1	1	**HISF11**	Gray	**HI14GY**
1	1	-	Yellow	**HI114PY**
2	1	**HISF12**	Gray	**HI24GY**
2	1	-	Yellow	**HI124PY**
2	2	**HISF22**		
4	2	**HISF24**		

Fiberglass Weatherproof Device Box

Hub	Color	Catalog No.
¾"	Yellow	**HBL60CM83**

Cast Aluminum Device Box w/Lugs

Hub	Color	Catalog No.
½"	Gray	**HIFD1L**
¾"	Gray	**HIFD2L**

HBL60CM83

HIFD2L

HI-IMPACT Connector Opening Punch Tool

Catalog No.	**HIPT**

NOTE: See page K14 for dimensional drawings.

HARSH e² e¹

HIPT

HI-IMPACT Weatherproof Covers, Wall Plates, and Device Boxes

Features/Benefits

- ■ Authentic Bell® brand products.
- ■ Durable, long-lasting design.
- ■ Impact-resistant construction.
- ■ Gasketed and self-closing wall plates.
- ■ Transparent cover provides visibility to connection.
- ■ Provisions for padlock.

Specifications

- ◆ Moisture resistance: Wet and damp locations Enclosure. NEMA 3R when used with weatherproof box. Dry, indoor locations Enclosure.

Thermoplastic Flip-Cover Plates
- ◆ Material, Cover flap: Lexan. Spring screws: Stainless Steel.
- ◆ Flammability: UL 94V-0, 94-5VA.

Aluminum Die-Cast Plates
- ◆ Alloy 360 (has less than 0.004 Copper). Rayntite® Covers
- ◆ Material: Impact-resistant Polycarbonate. - Gaskets: UL recognized closed-cell foam. Neoprene (aging and oil-resistant).
- ◆ Flammability: UL 94V-0, 94-5VA.

HBL5221HI *WPFS26HI*

Weatherproof Plate (Flip Cover), Vertical Mounting, 1-Gang

Cover includes: 1 plate with 4 Stainless Steel mounting screws (#6-32 x ½")

Opening	Mounting	Material	Color	Protection Level	Catalog No.
Duplex	Device	Thermoplastic	Gray	IP44 suitable/NEMA3R	**HBL5222**
Duplex	FS/FD Box (4-point)	Thermoplastic	Gray	IP44 suitable/NEMA3R	**HBL5221**
Decorator	Device	Die-cast Al.	Gray	IP44 suitable/NEMA3R	**WP26HI**
Decorator	FS/FD Box (4-point)	Die-cast Al.	Gray	IP44 suitable/NEMA3R	**WPFS26HI**

Weatherproof Rayntite® Cover, Maximum Protection, In-Use

Cover includes: 1 cover, 1 each plates for duplex and Decorator devices, 4 Stainless Steel mounting screws (#6-32 x ½")

Orientation	Gang	Protection Level	Catalog No.
Horizontal/Vertical	Single	NEMA 3R	**RW57500**
Vertical	Double	NEMA 3R	**RW57750**

See page B30 for Decorator and Duplex frames.

RW57500

Weatherproof Device Box

Knockout	Color	Protection Level	Catalog No.
½"	Gray	NEMA 3R	**HIWP05GY**
¾"	Gray	NEMA 3R	**HIWP75GY**

HARSH e¹

HUBBELL Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

HUBBELL
HiImpact Equipment Cabinets

HUBBELL Advantage

- ■ Corrosion-resistant NEMA 4X Stainless Steel withstands years of abuse.
- ■ Consolidation point cabinets provide an easy solution to house active equipment in harsh environments.
- ■ When tamper-resistance is needed, an optional lock is available to secure your active equipment.

Specifications
- ◆ Body and door fabricated from 14 gauge 304 Stainless Steel and 14 gauge 316 Stainless Steel.
- ◆ Plasma-welded, continuous seams.
- ◆ ¼-turn, oil-tight latches on door.
- ◆ Poured-in Polyurethane gasket on door.

HI-IMPACT RE-BOX® Remote Equipment Cabinet

User-Configurable Version

Delivery: 1 enclosure and 1 HI-IMPACT RE-BOX® back panel.

		e 1	e 2	e 3
Height	Depth	Catalog No.	Catalog No.	Catalog No.
24"	12"	**IR2U3RG**	**IR2UG**	**IR2USS**
36"	12"	**IR3U3RG**	**IR3UG**	**IR3USS**
48"	12"	-	**IR4UG**	-
Material:		Cold Rolled Steel	Cold Rolled Steel	Stainless Steel
Finish:		Gray, Powder Coat	Gray, Powder Coat	Brushed, Unpainted
NEMA Rating:		3R	4/12/13	4X

Pre-Configured Version

Delivery: 1 enclosure; 1 bottom-hinged patch panel bracket, 4U (REK19); and 1 equipment mounting bracket, 5U (REKZ), 1 HI-IMPACT **RE-BOX**® back panel.

		e 2
Height	Depth	Catalog No.
36"	12"	**IR3PG**
48"	12"	**IR4PG**
Material:		Cold Rolled Steel
Finish:		Gray, Powder Coat
NEMA Rating:		4/12/13

NOTE: Please see page H26 for features and specifications. See page H29 for RE-BOX® accessories.

IR4UG

HI-IMPACT Consolidation Point Cabinet

Hubbell's HI-IMPACT NEMA 4X and 4/12 consolidation point cabinets are designed for harsh environments where oil, dirt, dust and moisture are present. The HI-IMPACT consolidation point cabinet is a perfect solution to house and secure small switches, wireless access points and cross connect products in harsh environments such as factory floors, convention centers, correctional facilities, and commercial kitchens.

Consolidation Point Cabinet

Type	Material/finish	Size	Catalog No.	
NEMA 4X	Stainless Steel	12x12x6.91	**HICPSS**	e 3
NEMA 4/12	Powder-coat, Gray	12x12x6.91	**HICP412G**	e 2

Lock Kit

Use to change lock style to meet specific applications.

Delivery: 2 Assembly locks and keys.

Description	Catalog No.
CH751 keyed lock kit	**CKL751**

HICP412G

HUBBELL
HiImpact

Surface Mount Boxes

HI24XGY Loaded

The HI-IMPACT surface mount boxes provide an easy way to mount and protect connectivity in punishing environments, supporting all HI-IMPACT media types. If your application requires Stainless Steel, NEMA 4/12 or NEMA 4X, in different port configurations, the HI-IMPACT surface mount boxes will suit your environmental needs.

HUBBELL Advantage

- ■ Corrosion-resistant surface mount boxes withstand years of abuse and wash down.
- ■ Locate surface mount boxes easily with many different options to route and protect cable.
- ■ Deploy Ethernet out to remote devices with the proper environmental protection needed.

HI24XGY

HI1CBSS

HI2CB2G

Ports	Catalog No.	Catalog No.	Catalog No.
1	**HI14XGY**	**HI1CBSS**	**HI1CB2G**
2	**HI24XGY**	**HI2CBSS**	**HI2CB2G**
4	**HI44XGY**	-	-
6	**HI64XGY**	-	-
Material:	Thermoplastic	Stainless Steel	Steel
Finish:	Gray		Gray (Powder-coated)
NEMA Rating	NEMA 4X Box	NEMA 4X Box	NEMA 4/12 Box

HUBBELL
HiImpact

DIN Rail Utility Box

DRUBTVSS15

HIDRUBCKIT

Hubbell's HI-IMPACT DIN Rail Utility Boxes offer a labor saving way to provide utility power and/or communications to any control cabinet. Installing the DIN Rail Utility Box is as easy as snapping the box vertically onto a 35mm DIN Rail and connecting the line, neutral and ground wires to the terminal block for power or punching down **XCELERATOR**™ jacks for communications.

Features/Benefits

- ■ Labor savings.
- ■ DIN rail compatible.
- ■ Easy delivery of power or data.
- ■ Quick and easy installation.
- ■ Surge protected.

Specifications

- ◆ Material - ABS.
- ◆ Surge Receptacle (HBL526GYSA).
- ◆ Amperage: 15A.
- ◆ Voltage: 125V.
- ◆ Material
  - • Top and base: Nylon.
  - • Mounting strap: 0.050" (1.3) Steel, Zinc-coated.
  - • Clamping plate: 0.031" (.8) Brass.
  - • Terminal screw: Brass #8-32.
  - • Grounding screw: Steel (green).
  - • Auto ground clip: Stainless Steel.
  - • Mounting screws: Steel, Zinc-plated.
  - • Alarm muting screw: Nylon.
- ◆ LED color: Red.
- ◆ Frequency: 60Hz.
- ◆ Voltage range: 120V AC +10%-15%.
- ◆ Operating Temperature Range: TIA/EIA-568-B   -25°C to 70°C.

Description	Catalog No.
Electrical DIN rail utility box kit with 15A TVSS surge-protected receptacle	**DRUBTVSS15**
Communications DIN rail utility box kit (unloaded)	**HIDRUBCKIT**

See page B30 for Decorator and Duplex frames.

HUBBELL
HiImpact

POLYTUFF®
Non-metallic Conduit

HI-IMPACT **LIQUIDTIGHT**® is the perfect conduit system to deliver all of your communication needs for all 3 levels of Hubbell's HARSH-E environments.

HI-IMPACT POLYTUFF® Non-metallic Conduit

HI-IMPACT POLYTUFF® Non-Metallic Conduit

Size	Color	Description	Length	Catalog No.
½"	Gray	Non-Metallic Conduit	100'	**G1050**
¾"	Gray	Non-Metallic Conduit	100'	**G1075**

LIQUIDTIGHT® Non-Metallic Fittings

Size	Color	Description		Catalog No.
½"	Gray	Straight Male		**P050NGYA**
¾"	Gray	Straight Male		**P075NGYA**
½"	Gray	SWIVELLOK® Male		**PS0509NGY**
¾"	Gray	SWIVELLOK® Male		**PS0759NGY**

G1050

P050NGYA

PS0509NGY

HARSH e³ e² e1

HUBBELL
HiImpact

TREDTRAK® and TRUKTRAK®

HBLTRED5B

HBLTRED5YB

HBLTRED5XB
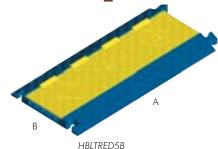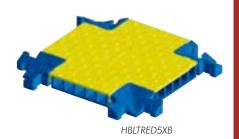
HI-IMPACT TREDTRAK® and TRUKTRAK®

TREDTRAK®

Use for lightweight traffic applications in public, institutional and commercial environments.

Description	A (Length)	B (Width)	Weight lbs. (kg)	Maximum Load lbs. (N) @ 21°C	48°C	Catalog No.
36" TredTrak®	36" (914.1)	17.5" (445)	18 (18.2)	10,500 (46,700)	6,500 (28,900)	**HBLTRED5B**
End Caps (pair)	Male 5.5" (120) Female 6.75" (171)	17.5" (445)	2.5 (1.13)	10,500 (46,700)	6,500 (28,900)	**HBLTRED5ECB**
"X" Fitting	17.5" (445)	19.5" (500)	12 (5.43)	2,900 (12,900)	2,300 (10,230)	**HBLTRED5XB**
"Y" Fitting	17.5" (445)	19.5" (500)	12 (5.43)	2,900 (12,900)	2,300 (10,230)	**HBLTRED5YB**

TRUKTRAK®

Use for heavy duty industrial locations with heavy weight traffic such as trucks and fork lifts.

Description	A (Length)	B (Width)	Weight lbs. (kg)	Maximum Load lbs. (N) @ 21°C	48°C	Catalog No.
36" TrukTrak®	36" (914.4)	20" (508)	29 (13.2)	20,150 (89,627)	9,200 (40,921)	**HBLTT5B**
End Caps (pair)	Male 5.25" (183.4) Female 7.5" (114.3)	20" (508)	4.7 (2.1)	20,150 (89,627)	9,200 (40,921)	**HBLTT5ECB**
45° Left Turn	25" (635)	20" (508)	13 (5.9)	20,150 (89,627)	9,200 (40,921)	**HBLTT545LB**
45° Right Turn	25" (635)	20" (508)	13 (5.9)	20,150 (89,627)	9,200 (40,921)	**HBLTT545RB**

HUBBELL
HiImpact Cord Connectors

HI-IMPACT Cord Connectors

Features/Benefits

- IP66 rated.
- UL listed to 4, 4X, 12 and Type 13.
- Resistant to common chemicals, cleaning agents and oils.
- Effective pullout protection.

SHC1022SS

SHC1022CR

HARSH e³ e²

Specifications

- Stainless Steel hub size: ½".
- Aluminum hub size: ½", ¾".
- Nylon standard style hub size: ½".
- Flammability: UL 94-V2 rating.
- Cord diameter range: 0.25"- 0.38" (6.3- 9.7).

- Cord connector body style: straight male.
- Recommended knockout hole size:
  - ½"-.86"- .91" (21.8-3.0).
  - ¾"-1.09"- 1.14" (27.8-29.0).
- Effective operating temperature: -30°F to +225°F (-34°C to +107°C).

Cord Connectors

The N.P.T. hub features an attractive knurled finish which makes them easy to handle and maintain a U.L. listing by hand tightening. The E3 Stainless Steel cord connectors provide superior strength and corrosion resistance for industrial and military applications. They are machined from 300 series Stainless Steel. Hubbell's nylon cord connectors resist most common industrial corrosives and provide highly effective pullout protection in a lightweight design. They are ideal for any application where weight, conductivity or corrosion may be an issue.

Size	Material	Color	Cord O.D. Range	Catalog No.
½"	Aluminum	-	0.25" - 0.38" (6.7-9.7)	**SHC1022**
¾"	Aluminum	-	0.25" - 0.38" (6.7-9.7)	**SHC1032**
½"	Stainless Steel	-	0.25" - 0.38" (6.7-9.7)	**SHC1022SS**
½"	Nylon	Gray	0.25" - 0.38" (6.7-9.7)	**SHC1022CR**

Accessories

Description	Size	Catalog No.
Metal clad sealing O-ring	½"	**20509001**
Metal clad sealing O-ring	¾"	**20509002**
Lock nut, non-metallic	½"	**31622003LPK50**
Lock nut, non-metallic	¾"	**31622007LPK50**

HUBBELL
HiImpact

KELLEMS® Strain Relief Grips

HI-IMPACT **KELLEMS®** Strain Relief Grips are designed to prevent tension from being transmitted to joints and terminals on electrical cord, cable and conduit. In most applications, a grip for strain relief is stronger than the cable/conduit itself, giving greater security than the use of a standard fitting alone.

Specifications

- Aluminum hub size: ½", ¾".
- Nylon standard style hub size: ½".
- Flammability: UL 94-V2 rating.
- Thread type: N.P.T.
- Grip cord range (diameter): 0.250"- 0.375" (.63- .95) cord.
- Connector body style: straight male.
- Recommended knockout hole size:
  - ½"-0.86"- 0.91" (21.8-3.0).
  - ¾"-1.09"- 1.14" (27.8-29.0).
- Operating temperature: -30°F to +225°F (-34°C to +107°C).

Features/Benefits

- Minimize down time.
- Safer systems.
- **LIQUIDTIGHT®** fitting.
- Corrosion resistant.

HI-IMPACT KELLEMS® Strain Relief Grips
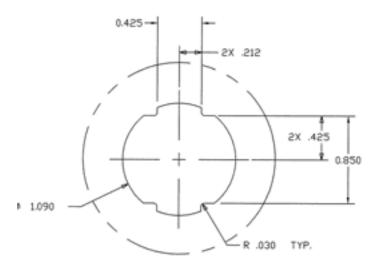
Size	Color	Material	Cord OD Range	Catalog No.
½"	-	Aluminum	0.250"- 0.375" (.63- .95)	**07401006**
¾"	-	Aluminum	0.250"- .0375" (.63- .95)	**07401013**
½"	Gray	Nylon	0.250"- 0.375" (.63- .95)	**CG406NM**
½"	Black	Nylon	0.250"- 0.375" (.63- .95)	**074011332**
½"	Stainless	Steel	0.187"- 0.250"	**074011331**
3/8"		Nylon	0.250"- 0.375" (.63- .95)	**CG305NM**

CG406NM

07401006
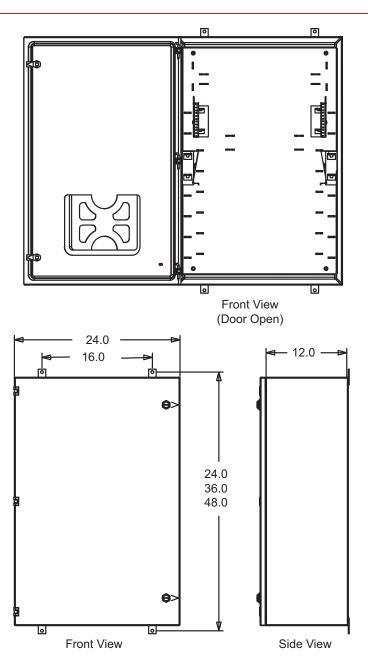
Dimensions

HI-IMPACT Opening (Tool Catalog No. HIPT)

Industrial RE-BOX®

Front View
(Door Open)

Front View

Side View

RESIDENTIAL

Hubbell has taken its expertise in providing quality commercial telecommunications products, and has developed a reliable, innovative solution for the home and small office environment. **NETSELECT**® cabling solution products satisfy the need for a fast, dependable, yet flexible system to accommodate today's changing voice, data and video requirements.

NETSELECT® NETWORKING SYSTEM•PRIMARY TELEPHONE MODULE, 8-PORT•TELEPHONE EXPANSION MODULE, 8-PORT•CATEGORY
MODULE, 8-PORT•COAX SPLITTER MODULE, 4-WAY•COAX SPLITTER MODULE, 6-WAY•COAX SPLITTER MODULE, 8-WAY•FIXED VIDEO A
FIER MODULE, 10DB•MODULE PLATE, BLANK•POWER KIT, SURGE SUPRESSION•POWER KIT, STANDARD•LOCK KIT•NETSELECT® NETW
SYSTEM•PRIMARY TELEPHONE MODULE, 8-PORT•TELEPHONE EXPANSION MODULE, 8-PORT•CATEGORY 5E DATA MODULE, 8-PORT•C
SPLITTER MODULE, 4-WAY•COAX SPLITTER MODULE, 6-WAY•COAX SPLITTER MODULE, 8-WAY•FIXED VIDEO AMPLIFIER MODULE, 10DB•
PLATE, BLANK•POWER KIT, SURGE SUPRESSION•POWER KIT RESIDENTIAL CONTENTS NETWORKING SYSTEM•PRIMARY TELEF
MODULE, 8-PORT•TELEPHONE EXPANSION MODULE, 8-PORT•CATEGORY 5E DATA MODULE, 8-PORT•COAX SPLITTER MODULE, 4-WAY
SPLITTER MOD... ULE, 8-WAY•FIXED VIDEO AMPLIFIER MODULE, 10DB•MODULE PLATE, BLANK•POWER
SUPRESSION•... NETSELECT® NETWORKING SYSTEM•PRIMARY TELEPHONE MODULE, 8-PORT•TELEPHO

RESIDENTIAL CONTENTS

PRODUCT	PAGE
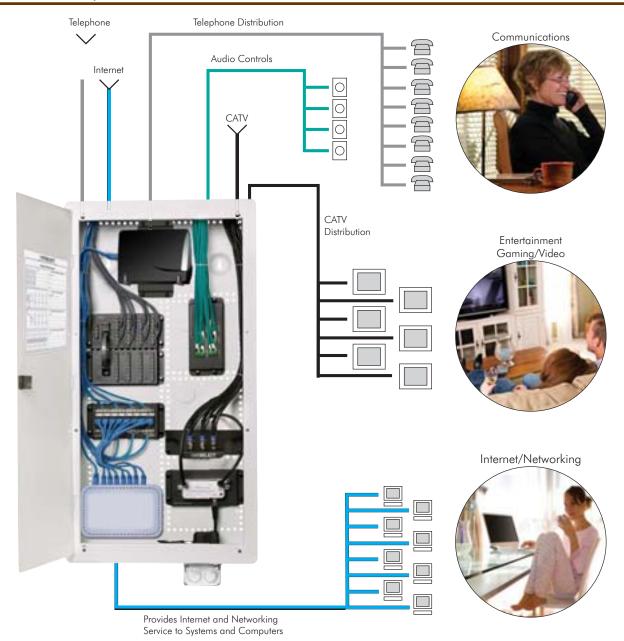
net**SELECT**® Advantages and Wiring Layout

Today's Communications Entail A Lot More Than Just Talking
NETSELECT® *Keeps You Connected—Internet, Voice, Data and Entertainment*

Telephone

Telephone Distribution

Internet

Audio Controls

CATV

Communications

CATV
Distribution

Entertainment
Gaming/Video

Internet/Networking

Provides Internet and Networking
Service to Systems and Computers

HUBBELL
Advantage

- ■ High-Performance Connectivity with Uncompromising Aesthetics.
- ■ Modular System Makes Custom Configurations Effortless.
- ■ Supports Single Family, High Rise MDU, Small Office, and Hospitality Applications.
- ■ Packaging Materials Minimized to Simplify Job Site Clean-Up.

netSELECT®

Network Enclosures

Features/Benefits

- Flush or surface mount enclosure (hardware provided).
- Hinged cover can be mounted to swing from either side.
- Integral trim ring on hinged cover hides rough-in hole in sheet rock.
- Horizontal and vertical module mounting holes for maximum flexibility.
- Unique 89D bracket mounting holes allow easy mounting of 66 blocks and peripherals (excluding 10" enclosure).
- Provisions to mount optional duplex power in 10"+ enclosure and lock kit available.
- Integral cable management slots and tie-wraps provided to help dress cable runs.
- Additional nylon push pins provided to assist module mounting.
- Material: 20-18 gauge Steel.
- Finish: white, powder coat.
- UL and cULus Listed UL 1863.

NETSELECT® Network Enclosures

10" Network Enclosure
for MDU and Modular Applications

NSOBX10

Dimensions: 14.38"W x 10"H x 3.96"D.
Knockouts:
Top: four 1½" N.P.T. or completely open combo;
Bottom: four 1½" N.P.T. or completely open combo;
Side: 1½" N.P.T.

Description	Catalog No.
10" Enclosure with Hinged Cover	**NSOBX10**
10" Enclosure with Panel Cover	**NSOBX10BC**
10" Enclosure Box only	**NSOBX10B**
Hinged Door	**NSOBX10D**
Panel Cover	**NSOBX10C**

14" Network Enclosure

NSOBOX14

Dimensions: 14.38"W x 14"H x 3.96"D.
Knockouts:
Top: two 1" Dia. and three 1½" N.P.T. combo;
Bottom: one 1" Dia. and one 1½" N.P.T. combo;
1 Power kit knockout;
Back: two 1" N.P.T.

Description	Catalog No.
14" Enclosure with Hinged Cover	**NSOBOX14**
14" Enclosure with Panel Cover	**NSOBOX14BC**
14" Enclosure Box only	**NSOBOX14B**
Hinged Door	**NSOBOX14D**
Panel Cover	**NSOBOX14C**
2"D Extension Bracket with ventilation and WiFi KOs	**NSOBOX14X2**

Pre-Configured Network Enclosure
14"H with Hinged Cover

Pre-configured Network System Basic home network kit includes:
1 box with hinged cover (NSOBOX14),
1 primary 8-port telephone module (NSOPTM8),
1 4-way coaxial splitter module (NSOVDM4)
Catalog No. **NSOBNK14**

28" and 48" Network Enclosure

NSOBOX28

28" Enclosure
Dimensions: 14.38"W x 28"H x 3.96"D.
Knockouts:
Top: five 1½" N.P.T.;
Bottom: two power kit knockouts;
Back: four 1" N.P.T.

48" Enclosure
Dimensions: 14.38"W x 48"H x 3.96"D.
Knockouts:
Top: five 1½" N.P.T.;
Bottom: two power kit knockouts;
Back: none.

Description	Catalog No.
28" Enclosure with Hinged Cover	**NSOBOX28**
28" Enclosure with Panel Cover	**NSOBOX28BC**
28" Enclosure Box only	**NSOBOX28B**
Hinged Door	**NSOBOX28D**
Panel Cover	**NSOBOX28C**
2"D Extension Bracket with ventilation and WiFi KOs	**NSOBOX28X2**
48" Enclosure with Hinged Cover	**NSOBOX48**

Power Kits

NSOKPS

Standard Power Kit
Includes duplex receptacle 15A 125V.
NEMA 5-15R, electrical steel box and wall plate.
Catalog No. **NSOKP***

Surge Suppression Power Kit
Includes duplex receptacle 15A 125V.
NEMA 5-15R, 240 Joules/15,000A protection per mode, electrical steel box and wall plate.
Catalog No. **NSOKPS***

Lock Kit, Chromed Steel

Includes two keys. Eliminates unwanted tampering.
Catalog No. **FLOCK1***

WiFi Antenna Kit

Attaches to extension brackets. 7dB gain for better coverage.
Catalog No. **NSOKA***
*Not UL, not cULus Listed.

net**SELECT**® Modules

NETSELECT® **Network Modules**

NETSELECT® modular components enable the designer to select performance requirements specifically for the application. Modules snap horizontally or vertically into the enclosures for maximum flexibility and optimum space usage.

Specifications
- Dimensions: 6.47"W x 2.95"H, except NSOMTM24: 6.47"W x 6.0"H.
- Meets FCC Part 68 standard.
- Finish: black, powder coat.
- Material: 18 gauge Steel or high impact plastic.
- UL and cULus Listed UL 1863.
- T-568A wiring.

Combo Module, 6-port

6-Port Telephone Panel and 6-Port Coaxial Splitter with Optional 6-Port Cat. 5e Panel Provides voice, video, and data distribution. Perfect for use with NSOBOX10 and NS790xx plates to quickly establish a comprehensive home network.

NSOTVDM6

Description	Catalog No.
Telephone and Video	**NSOTVM6**
Telephone, Video and Cat 5e	**NSOTVDM6**
Cat 5e Data Upgrade Kit	**NSODK6**

Data Module, 8-port

Category 5e Data Module, 8-Port Supports up to 8 data lines with front 110 punch-down terminations.

Category 6 Data Module, 8-Port Supports enhanced transmission speeds beyond gigabit ethernet.

NSODM8

Description	Catalog No.
Category 5e Data Module	**NSODM8**
Category 6 Data Module	**NSODM8C6**

Primary Telephone Module, 8-port

Supports 8 phone outlets with up to 4 incoming lines for voice. RJ31X interface jack included for security system connection. RJ45 jack interfaces with optional NSOETM8 Telephone Expansion module for additional extensions.

Description	Catalog No.
Primary Telephone Module, 8-port	**NSOPTM8**

Multiport Patchable Telecom Module

Terminates lines via modular plug to accommodate flexibility, by changing plug locations. Reconfigure where phone lines go at the panel level. Includes nine RJ45 jumper cords.

Description	Catalog No.
Multiport Patchable Telecom Module	**NSOMTM24**

Expansion Telephone Module, 8-port

Adds an additional 8 phone outlets with up to 4 incoming lines when used with the primary telephone module. Includes RJ45 jumper cord to connect with NSOPTM8 Primary Telephone module.

Description	Catalog No.
Expansion Telephone Module, 8-port	**NSOETM8**

Combination Module, 6-port Telephone and 1-port Data

Provides basic telephone and data delivery in a small package. Allows data lines to be converted to voice, with the move of a patch cord.

Description	Catalog No.
Combo Module, 6-port Telephone/ 1-port Data	**NSO6P1DM**

Blank Module Plate

Allows mounting of active components (i.e. switches, routers) or other devices (66 blocks, audio components) onto a modular platform. Can be custom drilled or used with two self-adhesive VELCRO® strips included to mount components onto module.

Description	Catalog No.
Blank Module Plate	**NSOBM**

VELCRO® is a registered trademark of Velcro Industries B.V.

NETSELECT® **Audio Video Modules**

NETSELECT® Audio Video Modules support bidirectional signal by splitting to 4, 6, or 8 separate work areas. Pre-mounted push pins snap the module quickly into place.

Specifications

◆ Dimensions 4- and 6-way: 6.47"W x 2.95"H.
◆ Dimensions 8-way: 6.47"W x 2.09"H , 3.2"D.
◆ Finish: black, powder coat.
◆ UL and cULus Listed UL 1863.

4-Way Coaxial Splitter Modules

One Incoming Line, Four Outgoing.

NSOVM4

Description	Catalog No.
1 Ghz, Basic Unit	**NSOVM4**
2.3 Ghz, Enhanced Capability	**NSOVM42G**

6-Way Coaxial Splitter Modules

One Incoming Line, Six Outgoing.

NSOVM6

Description	Catalog No.
1 Ghz, Basic Unit	**NSOVM6**
2.3 Ghz, Enhanced Capability	**NSOVM62G**

8-Way Coaxial Splitter Modules

One Incoming Line, Eight Outgoing.

NSOVM8

Description	Catalog No.
1 Ghz, Basic Unit	**NSOVM8**
2.3 Ghz, Enhanced Capability	**NSOVM82G**

Fixed Video Amplifier Module, 10dB

Provides video signal amplification for incoming cable feeds recommended for use when more than four outputs are installed or when signal level is low. Provides 10dB forward path gain and supports current digital cable systems and modems with a passive return. Includes RG-59 cable jumper to connect amplifier to passive video splitter.

NSOVAMP

Description	Catalog No.
120 volt rated	**NSOVAMP**

8 Room Audio Module

Distributes audio from an amplifier to matching volume controllers. Supports up to eight rooms of audio. Power handling - 200W RMS@20° C per channel. Requires impedance matching volume controls, see below.

Description	Catalog No.
8 Room Audio Module	**NSOAM8**

NETSELECT® **Accessories**

Audio Volume Controllers

Decorator Styling (NSOSAVC). Power handling - 70W RMS@20° C. Impedance matching for up to 8 pairs of speakers. Includes both ivory and white slides/knobs and frames.

Description	Catalog No.
Slide Controller, Ivory/White	**NSOSAVC**
Rotary Controller, Ivory/White	**NSORAVC**

NSOSAVC   NSORAVC

Adapter Panels

Description	Catalog No.
Panel Bracket Adapter	**NSOFSB**
For use with Adapter Panels shown below, and FSP series modules, see page F8. Snap mounts into structured cabling enclosures.	
F-Connector Adapter Panel	**FSPFP6X**
Includes 6 populated coaxial connectors.	
Keystone Adapter Panel	**FSPHD6X**
Includes 6 blank openings for modular jacks and AV connectors.	

NSOFSB

FSPFP6X

FSPHD6X

net**SELECT**® **Multimedia Connectors**

Modular Voice/Data Jacks

RoHS

netSELECT® Voice/Data Jacks provide for a wide range of applications ranging from high performance data demands of Category 6 and Category 5e, to voice grade jacks.

Specifications
◆ Easy to terminate angled wiring towers.
◆ Meets FCC part 68.
◆ Exceeds TIA Category 6 and Category 5e standards.
◆ UL Listed and CSA Certified.

NSJ6W

Color	Category 6 Catalog No.	Category 6 Bag of 25 Catalog No.	Category 5e Catalog No.	Category 5e Bag of 25 Catalog No.	USOC Catalog No.
See below	**NSJ6XX**	**NSJ6XX25**	**NSJ5EXX**	**NSJ5EXX25**	**NSJUXX**

XX = Jack Color Options

AL=Almond	**BK**=Black	**B**=Blue	**GY**=Gray	**GN**=Green	**I**=Ivory
LA=Light Almond	**OR**=Orange	**R**=Red	**W**=White	**Y**=Yellow	

F-Connector, Nickel, F/F Coupler

RoHS

Housing Color	Almond	Black	Electric Ivory	Gray
Catalog No.	**NSF70AL**	**NSF70BK**	**NSF70I**	**NSF70GY**

Housing Color	Light Almond	White
Catalog No.	**NSF70LA**	**NSF70W**

Universal Patch Cords, Category 6 and Category 5e

RoHS

netSELECT® Patch Cords allow for quick change of voice/data lines with insertion of modular plugs.

Specifications
◆ Exceeds TIA Category 6 and Category 5e standards.
◆ UL Listed and cUL Certified.

Description	Black Catalog No.	Blue Catalog No.	Gray Catalog No.	Green Catalog No.	Red Catalog No.	Yellow Catalog No.
Category 6	**SC6BK****	**SC6B****	**SC6GY****	**SC6GN****	**SC6R****	**SC6Y****
Category 5e	**SC5EBK****	**SC5EB****	**SC5EGY****	**SC5EGN****	**SC5ER****	**SC5EY****

**=Length: '01'=1 foot; '03'=3 feet; '05'=5 feet; '07'=7 feet; '10'=10 feet; '15'=15 feet; '20'=20 feet; '25'=25 feet.
NOTE: *Additional colors and lengths are available. Please contact Customer Service.*

Universal Patch Panels, Category 6 and Category 5e

RoHS

netSELECT® Patch Panels are excellent for designing rack systems for telephone, data and AV systems. Consolidation Blocks are ideal for smaller user count configurations that mount in or on the wall.

Specifications
◆ Exceeds TIA Category 6 and Category 5e standards.
◆ UL Listed and cUL Certified.

NS612U

	Patch Panels, Universal, 89D Bracket Category 5e, 12-port, Wall Mount	Patch Panels, Universal, 89D Bracket Category 6, 12-port, Wall Mount
Catalog No.	**NS5E12U**	**NS612U**

NS624U

Size	Universal Patch Panel Category 5e	Universal Patch Panel Category 6
24-port/1.75"H/1 Rack Unit	**NS5E24U**	**NS624U**
48-port/3.50"H/2 Rack Units	**NS5E48U**	**NS648U**

NS648U

netSELECT® Multimedia Plates and Frames

Decorator Wall Plates

Standard, Nylon

See Color Code	1-Gang	2-Gang	3-Gang	4-Gang	5-Gang	6-Gang
	NP26XX	**NP262XX**	**NP263XX**	**NP264XX**	**NP265XX**	**NP266XX**

Standard color without **XX** = Brown. All other colors add suffix to Catalog No.
XX=Color: 'AL'=Almond; 'BK'=Black; 'GY'=Gray; 'I'=Ivory; 'LA'=Light Almond; 'W'=White.

Mid-Size, Nylon

See Color Code	1-Gang	2-Gang	3-Gang	4-Gang
	NPJ26XX	**NPJ262XX**	**NPJ263XX**	**NPJ264XX**

Standard color without **XX** = Brown. All other colors add suffix to Catalog No.
XX=Color: 'AL'=Almond; 'BK'=Black; 'GY'=Gray; 'I'=Ivory; 'LA'=Light Almond; 'R'=Red; 'W'=White.

Snap On

See Color Code	1-Gang	2-Gang	3-Gang	4-Gang	5-Gang	6-Gang
	RCW1XX	**RCW2XX**	**RCW3XX**	**RCW4XX**	**RCW5XX**	**RCW6XX**

XX=Color: 'AL'=Almond; 'I'=Ivory; 'LA'=Light Almond; 'W'=White.

Decorator Outlet Frames

Description	Catalog No.
1-Gang Adapter, 0.406" Hole (For use with rotary dimmers or to pull through AV or telephone cable)	**NS621XX**
Decorator Frames with:	
Single F-Type Coupler Bulkhead, F/F	**NS780XX**
Duplex F-Type Coupler Bulkhead, F/F	**NS782XX**
1 Cat. 5e 110 Punch-Down, 1 F-type Coupler Bulkhead, F/F	**NS785XX**
Blank GFCI Frame, 1-Gang	**NS620XX**

XX=Color: 'AL'=Almond; 'I'=Ivory; 'LA'=Light Almond; 'W'=White.

NS621I   NS780I   NS782I   NS785I

Molded-In Plates

Description	Catalog No.
1-Gang Plate, Single F-Type Coupler Bulkhead, F/F	**NS750XX**

XX=Color: 'AL'=Almond; 'I'=Ivory; 'LA'=Light Almond; 'W'=White.

Description	Catalog No.
1-Gang Plate, Duplex F-Type Coupler Bulkhead, F/F	**NS752XX**

XX=Color: 'AL'=Almond; 'I'=Ivory; 'LA'=Light Almond; 'W'=White.

Description	Catalog No.
1-Gang Plate, 1 Cat 5e 110 Punch-Down, 1 RJ-11 Jack (6-position/4-conductor), 1 F-Type Coupler Bulkhead, F/F	**NS790XX**

XX=Color: 'AL'=Almond; 'BK'=Black, 'BN'=Brown; 'GY'=Gray; 'I'=Ivory; 'LA'=Light Almond; 'W'=White.

NS750XX   NS790XX

Telephone Wall Jacks, Thermoplastic

Designed for voice applications, these jacks provide an economical alternative to basic wall mount and performance needs.

Description	Catalog No.
Wall Phone Jack, 6-position/4-conductor (punch-down termination tool included)	**NS721XX**
Wall Phone Jack, 6-position/4-conductor, Screw Terminations	**NS722XX**
Wall Phone Jack, 6-position/6-conductor, Screw Terminations	**NS725XX**

XX=Color: 'AL'=Almond; 'I'=Ivory; 'LA'=Light Almond; 'W'=White.

NS721XX

Telephone Wall Jacks, Stainless Steel

Designed for voice applications, these jacks provide an economical alternative to basic wall mount and performance needs.

Description	Catalog No.
Wall Phone Jack, Quick Connect, 6-position/4-conductor, Stainless Steel (punch-down termination tool included)	**NS723SS**
Wall Phone Jack, Quick Connect, 6-position/4-conductor, Screw Terminations, Stainless Steel	**NS726SS**

NS723SS

net**SELECT**® Multimedia Distribution

JLOAD™ Multimedia Outlet

■■■■ **HUBBELL**
Advantage

■ Exclusive J-LOAD™ Combines High and Low Voltage into a Single Gang.

■ Specialty Delivery Products Deliver Connectivity where Previously Impossible.

■ Great Rooms, Kitchens, Labs, and Recreation Areas can all Benefit from These Products.

■ Do More in a Single Gang.

JLOAD™ Multimedia Outlet, Loaded

RJ620W

Specifically designed to provide power, Category 5e and coaxial in a single gang box. Requires JLOAD™ Multimedia Box RJ600. Perfect for HDTV and computer use where a combination of power and data are needed. Includes Decorator frame, one Cat. 5e, one F-connector and one power receptacle 125V with voltage divider.

Color	15A/125V Tamper-Resistant Catalog No.	15A/125V Standard Catalog No.	20A/125V Tamper-Resistant Catalog No.	20A/125V Standard Catalog No.
Almond	**RJ650ALTR**	**RJ650AL**	**RJ620ALTR**	**RJ620AL**
Black	**RJ650BKTR**	**RJ650BK**	**RJ620BKTR**	**RJ620BK**
Gray	**RJ650GYTR**	**RJ650GY**	**RJ620GYTR**	**RJ620GY**
Ivory	**RJ650ITR**	**RJ650I**	**RJ620ITR**	**RJ620I**
Lt. Almond	**RJ650LATR**	**RJ650LA**	**RJ620LATR**	**RJ620LA**
White	**RJ650WTR**	**RJ650W**	**RJ620WTR**	**RJ620W**

RoHS

JLOAD™ Multimedia Outlet, Unloaded

RJ62W

Includes Decorator frame with two open ports for custom configuration and one power receptacle 125V with voltage divider.

Color	15A/125V Tamper-Resistant Catalog No.	15A/125V Standard Catalog No.	20A/125V Tamper-Resistant Catalog No.	20A/125V Standard Catalog No.
Almond	**RJ65ALTR**	**RJ65AL**	**RJ62ALTR**	**RJ62AL**
Black	**RJ65BKTR**	**RJ65BK**	**RJ62BKTR**	**RJ62BK**
Gray	**RJ65GYTR**	**RJ65GY**	**RJ62GYTR**	**RJ62GY**
Ivory	**RJ65ITR**	**RJ65I**	**RJ62ITR**	**RJ62I**
Lt. Almond	**RJ65LATR**	**RJ65LA**	**RJ62LATR**	**RJ62LA**
White	**RJ65WTR**	**RJ65W**	**RJ62WTR**	**RJ62W**

RoHS
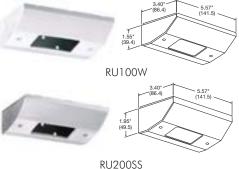
JLOAD™ Multimedia Box

3.0 inches deep with seven ½-inch knockouts, non-metallic sheathed cable clamps on each side. Screw in mounting to stud.

Material	Catalog No.
Steel	**RJ600**

RoHS

Under Cabinet/Counter Multimedia Distribution

3.40" (86.4)   5.57" (141.5)
1.55" (39.4)

RU100W

3.40" (86.4)   5.57" (141.5)
1.95" (49.5)

RU200SS

Under Cabinet/Counter Boxes provide a convenient, out-of-sight way to distribute power and voice/data. These boxes comply with the NEC® for kitchen receptacles, with placement not more than 20 inches above the counter surface. They can also be placed under counter islands, not lower than 15 inches from the surface.

• Available with nylon or metal cover.
• Custom configurable, accepts any decorator style device.
• Mounting hardware included.
• UL Listed E31999 and CSA Certified under cabinet boxes.

Slim Fit Box

Offers the slimmest, sleekest, most stylish option for low profile, out-of-sight mounting. Devices sold separately.

Material/Color	Catalog No.
Stainless Finish	**RU100SS**
White Metal	**RU100W**
White Nylon	**RU170W***

* Steel box with Nylon cover

RoHS

GFCI Fit Box

Designed specifically for GFCI or JLOAD™ accommodation where internal wiring space is needed. Devices sold separately.

Material/Color	Catalog No.
Stainless Finish	**RU200SS**
White Metal	**RU200W**
White Nylon	**RU270W***

* Steel box with Nylon cover

RoHS

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

L10   HUBBELL   Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

Multimedia Distribution

net**SELECT**® Delivery Products

Floor Boxes for Wood Floors

netSELECT™ Wood Floor Boxes allow for the placement of electrical power or a combination of power and voice/data devices. Boxes easily mount into the floor and are height adjustable (up to ¾ inch) for optimal alignment and fit. UL Listed E31999 and CSA Certified.

Floor Box

Decorator Duplex Receptacle Floor Box Kit, 15A/125V - NEMA 5-15R. Includes steel box, flange and hinged door cover assembly with duplex receptacle. Available in solid brass or durable powder coat painted finish. Designed for installation in wood floors, mounts to sub floor between joists.

Material/Color	Catalog No.
Solid Brass	**RF515BR**
Stainless Finish	**RF515SS**
Almond	**RF515AL**
Black	**RF515BK**
Chestnut Brown	**RF515BN**

Flange and Hinged Door Cover Assembly

15A/125V - NEMA 5-15R. Includes duplex receptacle, neoprene gaskets, for use with steel box RF500.

Material/Color	Catalog No.
Solid Brass	**RF506BR**
Stainless Finish	**RF506SS**
Almond	**RF506AL**
Black	**RF506BK**
Chestnut Brown	**RF506BN**

Adjustable Floor Box, 3" Deep

Three ½-inch knockouts: One on bottom, one on each side, non-metallic sheathed cable clamps on each side.

Material/Color	Catalog No.
Steel	**RF500**

Hinged Door Cover Only

Replacement door for RF515 and RF506 series.

Material/Color	Catalog No.
Solid Brass	**RF507BR**
Stainless Finish	**RF507SS**
Almond	**RF507AL**
Black	**RF507BK**
Chestnut Brown	**RF507BN**

Drop In Floor Box

15A/125V - NEMA 5-15R. Mounts in 2½ inch hole opening. Includes solid brass cover, single tamper-resistant receptacle, optional device mounts for two (2) voice/data video ports. Suitable for feed through circuitry. Impact resistant box.

Material/Color	Catalog No.
Solid Brass	**RF151R**

RF506BR

RF515BR

RF507BR

RF500

RF151R

Floor Boxes for Concrete Floors

After the box has been secured in concrete, cut for height, apply PVC glue and push the cover assembly into the box. No fasteners or adjustment screws required.

- 4 inch minimum concrete pour.
- Recessed GFCI/Decorator opening.
- Self height and leveling ring, no adjustments.
- UL Listed E92074 Floor Box.

PVC Floor Box with Concrete Protective Cover

Accepts ¾ in. and 1.0 in. schedule 40 and schedule 80 PVC conduit. Includes round box (4⅞ in. diameter x 6.0 in. deep), four reducers, closure plugs, and concrete cover with locator flag.

Material/Color	Catalog No.
Gray	**RF400**

RF400

RF407BK

Flange and Hinged Door Cover Assembly

Includes duplex receptacle, gasket, floor leveling PVC ring, high impact and chemically resistant nylon. Factory pre-assembled for easy drop-in installation.

Rating	Material/Color	Catalog No.
15A 125V	Solid Brass	**RF406BR**
NEMA 5-15R	Almond	**RF406AL**
NEMA 5-15R	Black	**RF406BK**

Hinged Replacement Door Cover, Nylon

Includes neoprene gasket to seal plug openings. Replacement cover for RF406 series.

Material/Color	Catalog No.
Solid Brass	**RF407BR**
Almond	**RF407AL**
Black	**RF407BK**

RF406BK

RF408

Low Voltage Divider

For use in PVC box RF400 when JLOAD™ Multimedia Outlet is used.

Material/Color	Catalog No.
Gray	**RF408**

Tools

1-Punch Termination Tool

Comfortable, Ergonomic
Tool Handle.

Polarized Tool Head,
Eliminates Confusion.

Interchangeable Heads:
Provides Ease-of-Use with
just 1 Tool (XJ Jack, P6E/
P6A Panel, 110 Block).

HUBBELL
Advantage

- ■ Patented termination tool designed to punch-down all 4-pairs in "1-Punch" and cut off the excess wire.
- ■ Reduces termination time by 75%.
- ■ Consistent, reliable termination every time.

Specifications

- ◆ High impact handle with ergonomic grip.
- ◆ Common handle for XJ, 5-pair block and Cat 6A/6E panel.
- ◆ Replaceable blade, cartridges.

Termination Tools and Accessories

The "1-Punch" XJ Tool and **XCELERATOR**™ Jacks are made for each other. This tool should be used exclusively with **XCELERATOR**™ jacks. Additionally, it is necessary to use this with the HXTA termination aid.

1-Punch Tool for XCELERATOR™ Jacks

Description	Catalog No.
1-Punch XJ tool with head, blades and HXTA termination aid	**TX4P**
1-Punch XJ replacement head	**TX4PH**
1-Punch XJ replacement blades	**TX4PHBL**
Hand termination aid "Jack Knuckles"	**HXTA**
Snap-X termination puck (Bag of 25)	**HXTP25**

1-Punch Tool for P6E and P6A Series Patch Panels

Patch Panel tool with head and blades	**TX4PP**
Patch Panel tool replacement head (includes blades)	**TX4PPH**
Patch Panel tool replacement blades	**TX4PPBL**

HXTA

TX4P

HXTP25

TX4PP

Termination Tools

Termination Tool, 6-110/4-pair, Category 6

6110MPPDT

6110MPPDT1

This termination tool is designed to seat 6-110/4-pair connecting blocks and terminate/cut UTP cable on 6-110 wiring blocks.

Features
- Cut designation on tool head aids proper orientation before termination.
- Ergonomic rubber handle.
- Head and blades remove easily for fast replacement

Description	Catalog No.
Termination tool, 4-pair, 6-110	**6110MPPDT**
Replacement tool head, 6-110	**6110MPPDT1**

1-Punch Termination Tool, 110/5-pair, Category 5/5e

T5PPD110

T5PPD110H

T5PPD110B

The 110 5-pair impact tool is designed to seat 110 connecting blocks and terminate and cut UTP cable on 110 wiring blocks. Saving time and money, it makes large termination jobs small by greatly reducing the number of punch cycles.

Features
- High impact handle with ergonomic grip.
- Replaceable punch-down head and cartridge blades.
- Terminates 26-22 AWG solid and stranded wires with single insulation.
- Common handle for 5-pair/110, jack and panel 1-Punch.
- Twist and lock head.

Description	Catalog No.
Punch-down tool, 5-pair head	**T5PPD110**
Replacement 110, 5-pair head	**T5PPD110H**
Replacement 110, 5-pair blades	**T5PPD110B**

Replacement head can be used with Hubbell 1-Punch or 5-pair tool handle - not compatible with 6-110.

1-Pair Punch-Down Tool

TPDH

TBLH

Features
- Cuts punch time in half by terminating a pair at a time.

Description	Catalog No.
Punch-down Tool with Blade	**TPDH**
Replacement Blade	**TBLH**

Punch-Down Tool, 110

TPD110

TBL110

TBL66

Features/Benefits
- Comfortable ergonomic grip.
- High visibility colors.
- Lanyard holes in the handle end.
- Latching blade storage cover.

Specifications
- Terminates 28-22AWG solid/stranded wire.
- Adjustable high and low impact settings.
- Twist and lock blades.
- Insulated, rubber-embedded handle.

Description	Catalog No.
Punch-down Tool with 110 Blade	**TPD110**
Replacement 110 Blade	**TBL110**
Replacement 66 Blade	**TBL66**

Lighted Punch-Down Tool

Features/Benefits

- Comfortable ergonomic grip.
- High visibility colors.
- Latching blade storage cover.
- Illuminates termination area.

Specifications

- Terminates 28-22AWG solid/stranded wire.
- Integral illuminating light.
- Batteries included.
- Built-in, fold-out pick, hook and spludger.
- Adjustable high and low impact settings.
- Twist and lock blades.
- Insulated, rubber-embedded handle.

Description	Catalog No.
Lighted punch-down tool with 110 blade	**TPDL110**
Replacement 110 blade	**TBL110**
Replacement 66 blade	**TBL66**
Replacement light and batteries	**TPDLITE**

TPDL110

Crimp Tools

Features/Benefits

- Universal frame (Cat. No. UCT) accepts interchangeable dies to crimp different plugs.
- Complete ratchet cycle release assures no-fault crimps.

Specifications

- Parallel compression (Cat. No. COMPTRG659) terminates to FCC specs - no misalignment.
- Integral wire cutter/stripper - cuts and strips cable without another tool (Cat. No. ECT).

Description	Catalog No.
Complete tool kit in hard, plastic case includes crimp tool, 4 die-sets, UTP cable stripper Die-sets include: RJ45, RJ22 and RJ11	**UCTKIT**
Crimp Tool frame (die-sets sold separately)	**UCT**
RJ11 Die-Set	**CDTSR11**
RJ22 Die-Set	**CDTSR22**
RJ45 Die-Set	**CDTSR45**
RJ45 Die-Set (snagless)	**CDTSR45S**
RG6 and RG59 Hex Crimp die-set	**CDTSRG659**
Economy Crimp Tool - includes non-replaceable RJ11, RJ22 and RJ45 Die-Sets	**ECT**
RG6 and RG59 Compression tool	**COMPTRG659**

ECT

UCT

CDTSR11

CDTSR22

CDTSR45

COMPTRG659

See page B9 for F-type Connectors.
See page D10 for Modular Plugs.

Communications Cable Stripper/Cutter

Features/Benefits

- Strips round Cat 5e and 6 UTP/STP.
- Cuts cable.
- Strips flat cables.
- Compact size.
- High-visibility for quick locating.

Specifications

- Strips round cables with diameters of 0.145" to 0.275".
- Cuts round UTP/STP cables up to 0.350".
- Non-metallic body.
- Adjusting screw for varied cable diameters to avoid scoring interior conductor insulation.

Description	Catalog No.
Communications Cable Stripper/Cutter	**TCS3**

Punch-Down Tools

Strippers and Testers

Coax Cable Stripper

Features/Benefits
- Self-regulating tension.
- Pre-set for common strip lengths.
- Adjust cutting depth for varying cable thickness with the included hex key.

Specifications
- Non-metallic body.
- Pre-set strip length: .0236" outer jacket.
- RG59, RG6 and RG6 Quad CATV "F".

Description	Catalog No.
Cable Stripper	**CSTRPR**

Screwdriver, 4-Bit

Features/Benefits
- Ergonomic, insulated handle.
- Chrome, nut driving shaft.
- Hard, durable driving bits.
- High-visibility red dots for easy locating.

Specifications
- 2 slotted bits, #4 and #6.
- 2 Philips bits, #2 and #3.
- ¼" nut driving shaft.

Description	Catalog No.
Screwdriver, 4-bit	**TSD4**

Nut Driver/Stripper

Features/Benefits
- Non-metallic handle.
- Easy to use strip notches.
- 2 nut drivers.
- Slim profile.

Specifications
- Nut driver sizes are 3/8" and 7/16".
- Strips outer jacket of AWG 22/4 and 24/4.
- Strips inner insulation of AWG 22 and AWG 24.
- Overall length: 7 7/8".

Description	Catalog No.
Nut Driver/Stripper	**TW38716**

Cable Continuity Tester

Features/Benefits
- Compact size.
- One button test results.
- Automatic shut off.
- 9 volt battery included.

Specifications
- Tests up to 320 feet.
- Built-in BNC connector with F connector.
- Coax cable types tested: 50-75Ohm RG58, RG59, RG6, RG6 quad, Belden 8281, RG8 AND RG11.

Delivery: Main and remote continuity test units, 2 F-connector adapters, 2 RJ45 shielded patch cables, 2 belt clips

Catalog No.	**TCT2**

Tool Kits

Tool Kit, 3-Piece

Features/Benefits

- Punch-down tool with 110 and 66 blades and rubber-embedded handle.
- Durable, black, nylon belt pouch.
- Belt pouch fits up to 3" belt.

Specifications

- ◆ Punch-down tool for 28-22 AWG solid or stranded wire; Twist and lock 110 and 66 blades.

Delivery: 1 Punch-down tool with 110 and 66 blade, 1 pair snips, and 1 belt pouch.

Description	Catalog No.
Tool Kit, 3-piece	**TK3**

Tool Kit, 8-Piece

Features/Benefits

- Punch-down tool with 110 and 66 blades; and rubber-embedded handle.
- Durable, black, nylon belt pouch.
- Belt pouch fits up to 2½" belt (slide on style).

Specifications

- ◆ Punch-down tool for 28-22 AWG solid or stranded wire; Twist and lock 110 and 66 blades.
- ◆ Screwdriver:
  - #4 and #6 slotted;
  - #2 and #3 Philips bits.
- ◆ Stripper works on UTP and STP cables.
- ◆ Snap-X has removable lanyard.

Delivery: 1 Punch-down tool, 110 blade, 66 blade, Snips, 4-bit screwdriver, UTP/STP cable striper/cutter, Maglite™, Belt pouch, and Snap-X termination aid.

Description	Catalog No.
Tool Kit, 8-piece	**TK8**

Maglite is a trademark of Mag Instruments, Inc.

Deluxe Cord Grips

Aluminum Fittings, Stainless Steel Mesh, Liquidtight, for Insulated Cables.

Straight Male Thread

Grip Diameter Range		Thread Size	Form	
Inches	(cm)	N.P.T. (Inches)	Size	Catalog No.
.375"-.500"	(.95-1.27)	½	F2	**07401008**
.500"-.625"	(1.27-1.59)			**07401010**
.625"-.750"	(1.59-1.90)	½	F3	**074011247***
.750"-.875"	(1.90-2.22)			**074011248***
.375"-.500"	(.95-1.27)	¾	F2	**07401015**
.500"-.625"	(1.27-1.59)			**07401017**
.625"-.750"	(1.59-1.90)	¾	F3	**07401018**
.750"-.875"	(1.90-2.22)			**074011249***
.375"-.500"	(.95-1.27)			**074011195**
.500"-.625"	(1.27-1.59)			**07401019**
.625"-.750"	(1.59-1.90)	1	F4	**07401021**
.750"-.875"	(1.90-2.22)			**07401023**
.875"-1.000"	(2.22-2.54)			**07401025**
1.000"-1.125"	(2.54-2.86)			**074011250***

* Cable jacket may have to be stripped to pass through connector body.
Kellems® Deluxe Cord Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 and 2, Class III Div. 1 and 2 of the National Electric Code Sections 501-4(b), 502-4(a), 502-4(b), 503-3(a) and 503-3(b).

Read This Data
It is important that you read all breaking strength, safety and technical data relating to the product at:
www.hubbell-wiring.com

Tool Kits and Grips

HUBBELL
HIabel

Hubbell Labeling Solutions

- Meets TIA/EIA-606-A labeling administration standards.
- Labor savings. Installer can produce and print labels before installation.
- Saving job files reduces potential for error and eliminates the time to re-enter information when changes and additions are required.

Features/Benefits

- Makes closets and work stations look professional with clearly marked connections and leaves an impression of quality workmanship.
- In ever-changing work environments, clearly marked connections will make moves, adds, and changes easier by eliminating mistakes and wasted time.

Hubbell Labeling Solutions Software

To purchase, visit our website at www.hubbell-premise.com.

Catalog No.   **XPSOFT**

Patch Panel and Rack Labels

Delivery: Package of 10 paper sheets, 8.5" x 11".

Laser-Printable Label Sheets and Covers
offer extensive labeling options for the front of Hubbell patch panels.
Delivery: 10   8.5" x 11" label sheets.

Description	Identifies	Label Sheets Catalog No.	Extra Label Holders Catalog No.
Adhesive patch panel 8-port front labels	1600 ports	**XPLPPA10W**	-
Patch panel 8-port adapter paper labels. Use with label holders supplied with panel.	1440 ports	**XPLPP10W**∗	**XPHPP50**
Patch panel ID paper labels. Use with supplied vertical ID label holders.	180 panels	**XPLPPID10W**	**XPHPPID1U10** (for 1U) **XPHPPID2U10** (for 2U)

∗ *Standard color is white, for other colors replace "W" with one of the following: "Y" = yellow or "B" = blue.*

Description	Identifies	Label Sheets Catalog No.	Extra Label Holders
1"x6" Rack and cabinet identification labels		**XPLRC10W**	**XPHRC10**

XPLPPA10W

Port Identification

Pre-printed numbering strips are made of a durable black polycard material with a pressure sensi-tive adhesive back. Port numbering strips provide the capability to consecutively number separate patch panels up to 480.

Delivery: 60 8-port strips

Description	Identifies	Catalog No.
Adhesive pre-printed number strips 1-480	480 ports	**XPL1TO480**

XPL1TO480

Multimedia Panel Labels

Delivery: Package of 10, 8.5" x 11" paper sheets.
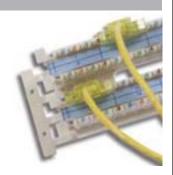
Description	Labels per sheet	Label Sheets Catalog No.	Extra Label Holders Catalog No.
Paper 8-port front label strips (use with label holders supplied with panel).	18	**XPLUDX2410W**	**XPHUDX2410**

NOTE: Use XPLFOSEPAW labels for the UDX36 multimedia panel.

Cross Connect, 110 and 6-110 Labels

Delivery: Package of 10, 8.5" x 11" paper sheets.

Description	Labels per sheet	Label Sheets Catalog No.	Extra Label Holders Catalog No. (10-pk)
Paper index strip, white.	18	**XPL11010W**	**XPH11010**
Paper index strip, blue.	18	**XPL11010B**	**XPH11010**
Paper index strip, yellow.	18	**XPL11010Y**	**XPH11010**

Face Plate and Port Labels

Delivery: Package of 10, 8.5" x 11" paper sheets.

Description	Labels per sheet	Label Sheets Catalog No.	Extra Label Holders Catalog No.
Paper face plate labels, white.	63	**XPLFP10W**	-
Adhesive face plate labels, white.	120	**XPLFPA10W**	-
Adhesive face plate labels, clear.	120	**XPLFPA10C**	-
Adhesive port icon labels, white.	325	**XPLIPA10W**	-
Adhesive port icon labels, clear.	325	**XPLIPA10C**	-

Cable Labels

Features/Benefits
■ Self-laminating, laser-printable cable labels are designed to identify all sizes of wire and cables quickly, clearly and economically.

Specifications
◆ TIA/EIA-606-A standard compliant.

Label Description	Labels per Sheet	Cable OD	Catalog No.
For 2-4 strand fiber cables	63	0.11 to 0.21	**XPLCBLA1**
For 4-pair copper UTP and 2-12 strand fiber cables	49	0.15 to 0.27	**XPLCBLA2**
For 25-pair copper UTP and 24-132 strand fiber cables	21	0.31 to 0.70	**XPLCBLA3**

Fiber Adapter Panel Labels

Delivery: Package of 10, 8.5" x 11" paper sheets.

Description	Labels per sheet	Label Sheets Catalog No.	Extra Label Holders Catalog No.
White, adhesive labels for fiber six-packs	38	**XPLFOSEPAW***	-

* Cannot be used with the high-density versions of the FSP adapter panels.

STANDARDS

Structured Cabling Standards and Practices

This section explains the key ANSI/TIA standards and practices required for structured cabling installation and testing. Adherence to standards and codes is required to obtain Hubbell's MISSION CRITICAL® Warranty.
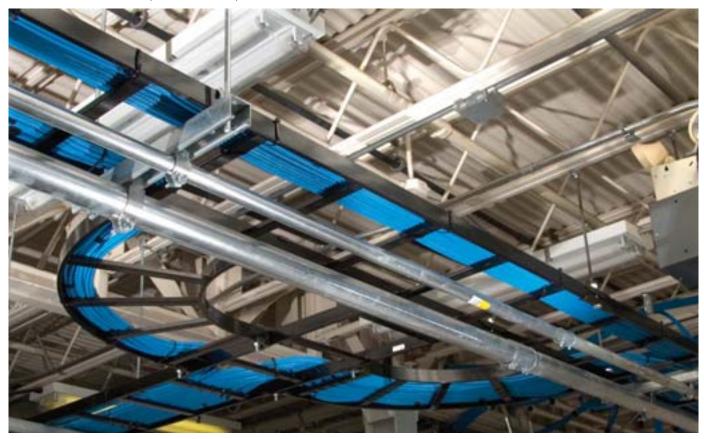
STRUCTURED CABLING STANDARDS AND PRACTICES•RESIDENTIAL CABLING•FIBER CABLING AND COMPONENT
COPPER CABLING REQUIREMENTS•PATHWAYS AND SPACES•INTERNATIONAL STANDARDS•PERMANENT LINK AN
FIELD TESTING•FIBER INSTALLATION PRACTICES•BUILDING AUTOMATION SYSTEMS•APPLICATION GUIDELINES•
FOR COMMERCIAL BUILDINGS•GLOSSARY•UTP CABLING COMPONENTS PERFORMANCE•BACKBONE & HORIZ
CABLING STRUCTURE•TELECOMMUNICATIONS PATHWAYS AND SPACES•ADMINISTRATION•RESIDENTIAL CABLIN
TELECOMMUNICATIONS STANDARD•UTP WIRING CONVENTIONS•CABLING STANDARDS•PRODUCT TESTING•
AND BONDING•INDUSTRIAL ETHERNET APPLICATIONS•WORK AREA•UTP PERMANENT LINK•CHANNEL FIELD TE

TECHNICAL CONTENTS

Introduction: Structured Cabling Standards Evolution

Industry standards are published design and performance requirements that are approved by industry ballot among cable and component manufacturers. The objective of cabling standards is to promote global inter-connectivity of equipment from diverse manufacturers. Since the release of IEEE 802.3an 10-Gigabit Ethernet (10GbE) standard in 2006, evolution of ANSI/TIA-568 structured cabling standards has achieved a new level of performance, defined as Category 6A, or Augmented Category 6. The Category 6A cabling performance requirements of Addendum ANSI/TIA-EIA-568-B.2-10 were officially ratified in February 2008.

In addition to the release of Category 6A requirements, the ANSI/TIA-568-B series of standards are being superseded by ANSI/TIA-568-C series. The new '568-C series incorporates all previously published addenda, plus a new section of generic cabling guidelines. 568C.0. These new developments are also presented in this section.

As an active contributor to and leader in cabling standards organizations such as TIA and IEEE, Hubbell manufactures products that exceed all applicable standards. Compliance to industry standards is a long-term commitment by Hubbell Premise Wiring.

Global industry standards offer the following advantages:

● Interoperability of connecting hardware.

● Backward compatibility.

● Open systems architecture.

● Ease of migration to new performance levels.

● Multi-vendor choice to the end-user.

Compliance to standards also applies to **MISSION CRITICAL**® objectives. **MISSION CRITICAL**® is defined as the delivery of long-term, uninterrupted service at stated performance levels.

This is the philosophy of Hubbell's 25-year **MISSION CRITICAL**® warranty. For more information about the Hubbell **MISSION CRITICAL**® training and installer certification, go to:

www.hubbell-premise.com
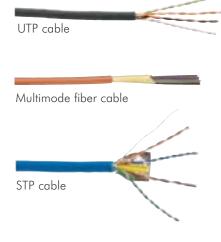
Standards

ANSI/TIA-568-C

The ANSI/TIA-568-C series of standards is a family of our individual documents.
Note: the 568-C series will replace ANSI/TIA-568-B series in 2008.

◆ ANSI/TIA-568-C.0: "Generic Telecommunications Cabling for Customer Premises".

◆ ANSI/TIA-568-C.1: "Commercial Building Telecommunications Cabling Systems Standard".

◆ ANSI/TIA-568-C.2: "Balanced Twisted Pair Telecommunications Cabling Systems Standard".

◆ ANSI/TIA-568-C.3: "Optical Fiber Telecommunications Cabling Systems Standard".

UTP cable

Multimode fiber cable

STP cable

ANSI/TIA-568-C.0 defines the overall premises infrastructure for copper and fiber cabling. Detailed requirements for cabling installation and field-testing are also included. TIA-568-C.1 provides detailed design requirements for horizontal and backbone cabling infrastructure and distribution facilities. TIA-568-C.2 and C.3 establish component level testing and prformance requirements for copper and fiber connecting hardware respectively.

ANSI/TIA-568-C.0 and C.1: Horizontal Cabling *(previously 568-B.1)*

The horizontal cabling in a building is a single floor cable distribution from the horizontal cross connect (HC) in the telecommunications room (TR) to the work area (WA) outlet.

Recognized Horizontal Cables
◆ 4-Pair 100Ω UTP or Screened Twisted Pair (ScTP), Category 3, 5e, 6, and 6A.
  • Minimum 2-Strand Multimode Fiber Optic Cable.
◆ 150Ω Shielded Twisted Pair (STP).

Horizontal Cable Minimum Bend Radius and Pull Force
◆ 4-Pair UTP: 4 times cable diameter.
  • Maximum pull force: 25 lbs.
◆ Fiber Cable: 10 times cable diameter.
  • See pages N14 and N15 for Pull Forces.
NOTE: See pages N14 and N16 for Installation Practices.
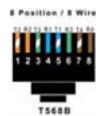
Recognized Connectors
◆ 8-position modular jack and plug.
  • Pin/pair assignments configured T568A or T568B.
◆ 568SC and ST-style fiber connectors.
◆ SFF fiber connectors: LC and MT-RJ.
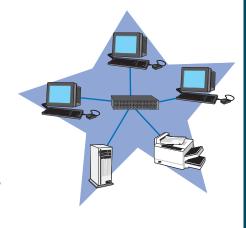
Horizontal Cabling Topology and Design Notes

Each outlet connection in the work area has an individual cable run (link) from the TR. This represents a star topology shown in the diagram. This arrangement is most convenient for moves, adds and changes (MAC's). Any horizontal cable link is limited to 90 meters in length. Locate the TR centrally on each floor to equalize cable run lengths. As a rule, use 40% max fill for cable pathways. Allow one work area per 100 sq. ft. of floor space for design purposes.
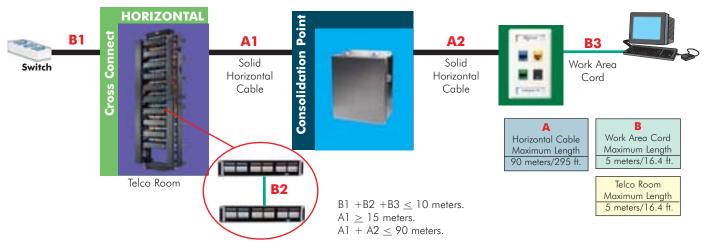
ANSI/TIA-568-C.0 and C.1: Horizontal Cabling Practices (cont'd)

Consolidation Point

The consolidation point is an optional interconnection node that is allowed in the horizontal cabling between the TR and the work area.

◆ The consolidation point must be mounted to a permanent building structure in an area free from obstructions or furniture.

◆ Cross connections are not allowed in the consolidation enclosure.

◆ Due to the effect of NEXT on multiple connections in close proximity, this standard recommends locating all consolidation points at least 15m (49 ft.) away from the TR.

◆ Consolidation points and transition points cannot be combined in any single horizontal link.

◆ Each consolidation point should serve a maximum of 12 work areas, with consideration for future growth.

◆ Administration should follow the guidelines of ANSI/TIA-606-B.

Consolidation Point Solution

$$B1 + B2 + B3 \leq 10 \text{ meters.}$$
$$A1 \geq 15 \text{ meters.}$$
$$A1 + A2 \leq 90 \text{ meters.}$$

A
Horizontal Cable Maximum Length
90 meters/295 ft.

B
Work Area Cord Maximum Length
5 meters/16.4 ft.

Telco Room Maximum Length
5 meters/16.4 ft.
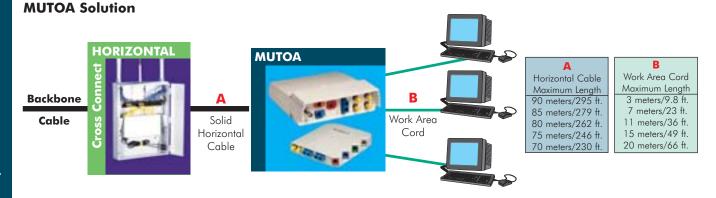
These are maximum channel length configurations - alternate length configuration are allowed, consult the standard.

The Multi-User Telecommunications Outlet Assembly (MUTOA)

The MUTOA contains multiple telecommunications outlet connectors to service a cluster of individual work areas.

◆ A combination of solid conductor 4-pair UTP cables and fiber optic cables may be run from the TR to the MUTOA.

◆ The MUTOA is permanently mounted to a building structure that is in close proximity to a cluster of work areas.

◆ A MUTOA allows horizontal cabling to remain intact when the open-office layout plan is changed.

◆ Work area cables are either fiber patch cords or stranded conductor copper cords with a modular plug on each end.

◆ Length of all work area cables from the MUTOA must be labeled on both ends. Maximum length is 20 meters for horizontal runs less than 70 meters.

◆ Each MUTOA should serve a maximum of 12 work areas.

◆ Administration should follow the guidelines of ANSI/TIA-606-B.

MUTOA Solution

A
Horizontal Cable Maximum Length
90 meters/295 ft.
85 meters/279 ft.
80 meters/262 ft.
75 meters/246 ft.
70 meters/230 ft.

B
Work Area Cord Maximum Length
3 meters/9.8 ft.
7 meters/23 ft.
11 meters/36 ft.
15 meters/49 ft.
20 meters/66 ft.

ANSI/TIA-568-C.0 and C.1: Optical Fiber Supportable Distances

Application	Wave length (nm)	Maximum Supportable Distance (m)				Maximum Channel Attenuation (dB)			
		Multimode			Single-mode	Multimode			Single-mode
		62.5/125	50/125	850 nm Laser Optimized 50/125		62.5/125	50/125	850 mm Laser Optimized 50/125	
10/100BASE-SX	850	300	300	300	NST	4.0	4.0	4.0	NST
Gigabit Ethernet									
1000BASE-SX	850	220	550	N/A	N/A	3.2	3.9	N/A	N/A
1000BASE-LX	1300	550	550	N/A	5000	4.0	3.5	N/A	4.7
10G Ethernet									
10GBASE-S	850	26	82	300	NST	2.6	2.3	2.6	NST
10GBASE-L	1310	NST	NST	NST	10000	NST	NST	NST	6.0
10GBASE-E	1550	NST	NST	NST	40000	NST	NST	NST	11.0
10GBASE-LX4	1300	300	300	300	NST	2.5	2.0	2.0	NST
10GBASE-LX4	1310	N/A	N/A	N/A	10000	N/A	N/A	N/A	6.6

NOTES:
S=Short wavelength; L=Long wavelength; E=Extended wavelength.
NST=Non-standard; N/A=Not applicable.
LX4=Multiplex (4) wavelengths.
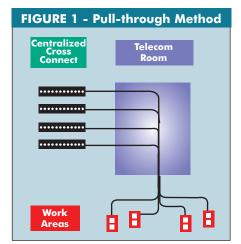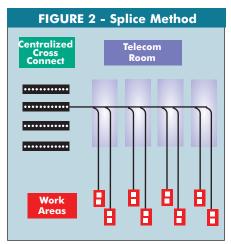
ANSI/TIA-568-C.0: Fiber Optic Cabling Guidelines: Centralized Cabling
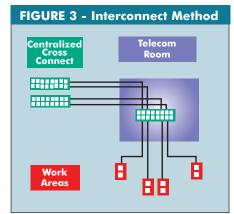
Single tenant users of fiber optic data networks can avoid distributed electronic equipment by using the centralized cabling method. Centralized electronic equipment and cabling reduces cost and complexity, and maximizes transmission performance. Extended distances are permitted using these methods. The interconnect method is most flexible and is the preferred choice.

FIGURE 1 - Pull-through Method

Max Distance: 90m

FIGURE 2 - Splice Method
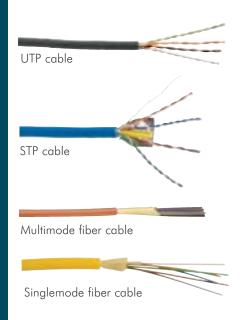
Max Distance: 300m
(Includes horizontal + backbone + patch cords)

FIGURE 3 - Interconnect Method

Max Distance: 300m

ANSI/TIA-568-C.1: Backbone Cabling

A backbone distribution system is the part of a premises distribution system that provides connection between equipment rooms (ERs), telecommunication rooms (TRs), telecommunication enclosures (TEs), and telecommunication services entrance facilities (EFs).

UTP cable

STP cable

Multimode fiber cable

Singlemode fiber cable

Recognized Backbone Cables

Twisted Pair Copper Cable

◆ Data: 100Ω solid conductor 24-AWG UTP or Screened Twisted Pair (ScTP) (Cat 6A, Cat 6 or Cat 5e).
◆ Voice: 100Ω solid conductor 24-AWG UTP (Cat 3 or Cat 5e).
◆ Multi-pair cable (25-pair, 50-pair).

Multimode Fiber Optic Cable

◆ 62.5/125µm fiber.
◆ 50/125µm fiber.
◆ 50/125µm fiber (laser optimized).

Singlemode Fiber Optic Cable

◆ 9/125µm fiber.

Backbone Cable Minimum Bend Radius
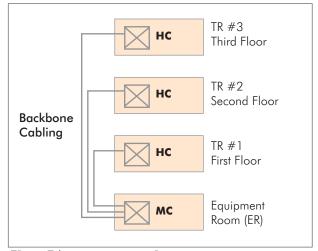
◆ 4-pair 100Ω UTP: 4x cable diameter.
◆ Multi-pair (25-50 pair): 10X cable diameter.
◆ Fiber cable: 15x cable diameter (with load)/10X (no load).
◆ OSP fiber cable: 20x cable diameter (with load)/10X (no load).

NOTE: See page N14 through N16 for Pull Forces, Minimum Bend Radius, and Installation Practices.

Backbone Cabling Topology and Design Notes

For the simplest design, the HC on each floor receives a home run backbone cable from the MC in the ER. This represents a star topology. Multiple buildings in a campus form a Hierarchical star topology from the central MC facility. Codes require non-fire rated OSP backbone cable to extend no longer than 50 ft into the building without conduit. Firestopping is required for wall or floor penetrations of backbone sleeves or slots. Properly support vertical cables, and do not exceed manufacturer's vertical rise limits. Consider diverse and redundant cable paths for disaster recovery. If possible, vertically align TR's on multiple floors to simplify the backbone pathways.

Backbone Cabling

HC	TR #3 Third Floor
HC	TR #2 Second Floor
HC	TR #1 First Floor
MC	Equipment Room (ER)

TR: Telecommunications Room
HC: Horizontal Cross Connect
MC: Main Cross Connect
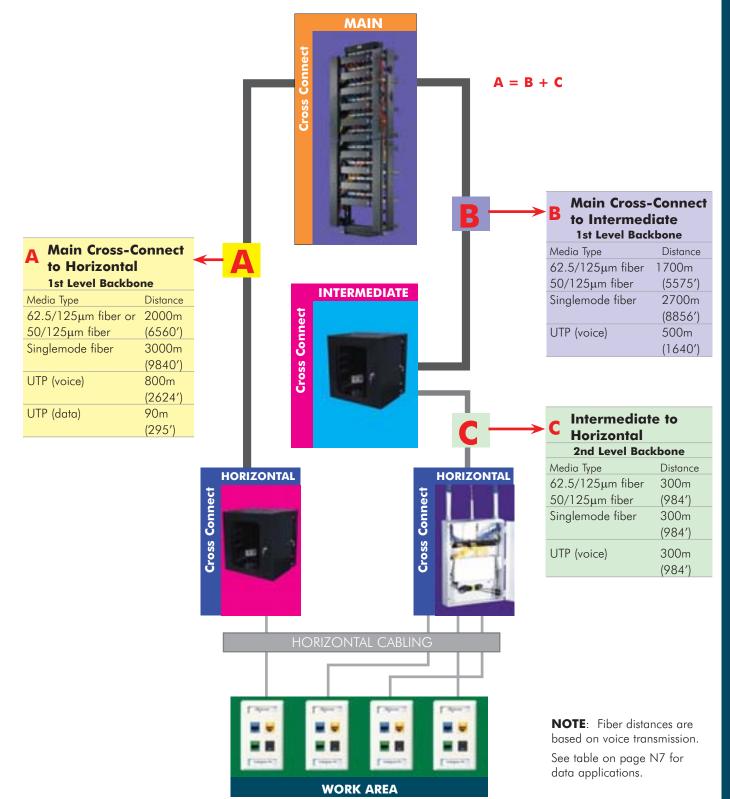
ANSI/TIA-568-C.1: Backbone and Horizontal Cabling Structure

A backbone cabling structure shall have no more than two levels of cross-connections. A two-level backbone and the relationship with horizontal cabling is shown below.

Application Notes

◆ Backbone distances are application dependent. Maximum distances for UTP are based on voice transmission. A 90-meter maximum distance applies to UTP data transmission at a bandwidth of 5-16 MHz for Category 3, 20-100 MHz for Category 5e, and 1-250 MHz for Category 6.

◆ For UTP voice applications and fiber, the backbone distances of segment "B" may be increased if "C" is less than the maximum, but the total B + C must not exceed "A".

◆ Refer to "Optical Fiber Supportable Distances" on page N7.

MAIN

Cross Connect

A = B + C

B → **B** Main Cross-Connect to Intermediate
1st Level Backbone

Media Type	Distance
62.5/125μm fiber	1700m
50/125μm fiber	(5575')
Singlemode fiber	2700m
	(8856')
UTP (voice)	500m
	(1640')

A **A** Main Cross-Connect to Horizontal
1st Level Backbone

Media Type	Distance
62.5/125μm fiber or	2000m
50/125μm fiber	(6560')
Singlemode fiber	3000m
	(9840')
UTP (voice)	800m
	(2624')
UTP (data)	90m
	(295')

INTERMEDIATE

Cross Connect

C → **C** Intermediate to Horizontal
2nd Level Backbone

Media Type	Distance
62.5/125μm fiber	300m
50/125μm fiber	(984')
Singlemode fiber	300m
	(984')
UTP (voice)	300m
	(984')

HORIZONTAL

Cross Connect

HORIZONTAL

Cross Connect

HORIZONTAL CABLING

NOTE: Fiber distances are based on voice transmission.

See table on page N7 for data applications.

WORK AREA

ANSI/TIA-568-C.1: Work Area

The work area is the terminal end of the structured cabling network. This is the space for interaction of people with computers, phones, data terminals, and other devices on a local area network (LAN).

◆ A minimum of two telecommunications outlet connectors are required at each work area:

  ● First Outlet (mandatory): 4-pair 100Ω UTP or ScTP cable and connector (Category 5e min. recommended).

  ● Second Outlet:

    ▲ 4-pair 100Ω UTP cable and connector (min. Category 5e, Category 6 is recommended).

    ▲ 2-fiber 62.5/125μm or 50/125μm optical fiber cable and connectors: SC, ST-style, or SFF recommended.

◆ One horizontal transition point or consolidation point is permitted.

◆ Bridges, taps, or splices are not allowed in copper wiring.

◆ Additional outlets are allowed. Double gang box is best for service loop storage.

◆ Equipment cords must have the same performance rating as the patch cords.

◆ Maximum length for work area cords is 5 meters.

◆ Splitters are not allowed in optical fibers.

◆ Separation from electrical wiring and pathways shall be according to ANSI/TIA-569-B.

◆ Work area telecommunications outlet boxes should be located near an electrical outlet (within 3 feet) and installed at the same height, if appropriate.

◆ For cable count and pathway capacity, use 1 work area per 100 ft.^{2} of floor space as a general rule. Always factor in future growth for all pathways.

Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328
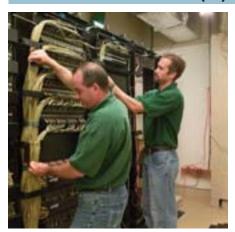
Telecommunications Room (TR)

The Telecommunications Room (TR) is an enclosed space for management and termination of backbone and horizontal cross connections. The TR typically provides the horizontal cabling to all of the work areas on a single floor of a building. The TR is centrally located, and isolated from EMI (electromagnetic interference), with proper grounding and lighting. The TR may also contain other active equipment, power, or security devices. Backbone cabling feeds each TR in a building from the main cross-connect (MC) in the Equipment Room (ER).

Basic Requirements:
- Minimum (1) TR per floor.
- No carpet or suspended ceilings.
- Minimum (2) walls covered with ¾" A/C plywood.
- Dedicated, unswitched electrical power.
- (1) TR serves up to 10,000 sq. ft. of floor space.
- Temperature and humidity control.

Equipment Room (ER)

The Equipment Room (ER) is a centralized space for housing the core electronic equipment, such as computer servers, routers, hubs, etc. The backbone cabling originates from the ER, which serves the entire building or campus. The ER may function as a TR, and also may contain an entrance facility. Stringent electrical and environmental requirements apply to the design of an ER to provide a suitable operating environment for active network equipment. ERs should be supplied with non-switched, conditioned power with back-up. ERs should not be located near mechanical rooms, electrical distribution panels, or wet/dirty areas.

Basic Requirements:
- Minimum (1) ER per building.
- No carpet, suspended ceiling permitted.
- Dedicated, unswitched electrical power - back-up and surge protection.
- (1) ER serves up to 20,000 sq. ft. of floor space.
- Temperature and humidity control.
- Double doors for entrance.

Entrance Facility (EF)

The Entrance Facility (EF) is located where the access provider and inter-building network cables enter the building. Outside plant cables, typically from underground, are terminated inside the entrance facility. This location is known as the demarcation point – the transition from access provider to customer-owned cable. A combination of electrical, fire, building, municipal, and FCC codes apply to the EF. The EF may share other functions, including fire and security alarms, CCTV, CATV, PBX, etc.

Basic Requirements:
- Dry environment.
- Proper backboarding for equipment.
- Secure location.
- Access to building electrical service ground.
- Circuit protection.

ANSI/TIA-568-C.2: Balanced Twisted Pair Cabling Components

This standard specifies electrical performance requirements for installed UTP cable and connecting hardware for each recognized category. Augmented Category 6 with extended frequency and additional parameters (ANEXT) is included. Performance categories, bandwidth, and field test parameters are listed in the table below. Refer to the glossary for explanation of test parameters.

Table 1: Categories of Transmission Performance and Field Test Parameters

Category	Insertion Loss	NEXT	Length	Wire Map	Delay Skew	ELFEXT	Return Loss	PSACR	PSELFEXT	PSNEXT	ANEXT
Cat 3 (16 MHz)	✓	✓	✓	✓							
Cat 5e (100 MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Cat 6 (250 MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Cat 6A (500 MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

ANSI/TIA-568-C.2: Balanced Twisted Pair Cabling and Components

The tables below incorporate enhanced performance requirements for UTP cables and connecting hardware: Category 3, 5e, 6, and 6A. All Hubbell products exceed these minimum requirements.

Permanent Link Performance

Insertion Loss

Frequency (MHz)	Cat 5e (dB)	Cat 6 (dB)	Cat 6A (dB)
1.0	2.1	1.9	1.9
4.0	3.9	3.5	3.5
8.0	5.5	5.0	5.0
10.0	6.2	5.5	5.5
16.0	7.9	7.0	7.0
20.0	8.9	7.9	7.8
25.0	10.0	8.9	8.8
31.25	11.2	10.0	9.8
62.5	16.2	14.4	14.1
100.0	21.0	18.6	18.0
200.0	-	27.4	26.1
250.0	-	31.1	29.5
300.0	-	-	32.7
400.0	-	-	38.5
500.0	-	-	43.8

Return Loss

Frequency (MHz)	Cat 5e (dB)	Cat 6 (dB)	Cat 6A (dB)
1.0	19.0	19.1	19.1
4.0	19.0	21.0	21.0
8.0	19.0	21.0	21.0
10.0	19.0	21.0	21.0
16.0	19.0	20.0	20.0
20.0	19.0	19.5	19.5
25.0	18.0	19.0	19.0
31.25	17.1	18.5	18.5
62.5	14.1	16.0	16.0
100.0	12.0	14.0	14.0
200.0	-	11.0	11.0
250.0	-	10.0	10.0
300.0	-	-	9.2
400.0	-	-	8.0
500.0	-	-	8.0

NEXT Loss

Frequency (MHz)	Cat 5e (dB)	Cat 6 (dB)	Cat 6A (dB)
1.0	60.0	65.0	65.0
4.0	54.8	64.1	64.1
8.0	50.0	59.4	59.4
10.0	48.5	57.8	57.8
16.0	45.2	54.6	54.6
20.0	43.7	53.1	53.1
25.0	42.1	51.5	51.5
31.25	40.5	50.0	50.0
62.5	35.7	45.1	45.1
100.0	32.3	41.8	41.8
200.0	-	36.9	36.9
250.0	-	35.3	35.3
300.0	-	-	34.0
400.0	-	-	29.9
500.0	-	-	26.7

Channel Performance

Insertion Loss

Frequency (MHz)	Cat 5e (dB)	Cat 6 (dB)	Cat 6A (dB)
1.0	2.2	2.1	2.3
4.0	4.5	4.0	4.2
8.0	6.3	5.7	5.8
10.0	7.1	6.3	6.5
16.0	9.1	8.0	8.2
20.0	10.2	9.0	9.2
25.0	11.4	10.1	10.2
31.25	12.9	11.4	11.5
62.5	18.6	16.5	16.4
100.0	24.0	21.3	20.9
200.0	-	31.5	30.1
250.0	-	35.9	33.9
300.0	-	-	37.4
400.0	-	-	43.7
500.0	-	-	49.3

Return Loss

Frequency (MHz)	Cat 5e (dB)	Cat 6 (dB)	Cat 6A (dB)
1.0	17.0	19.0	19.0
4.0	17.0	19.0	19.0
8.0	17.0	19.0	19.0
10.0	17.0	19.0	19.0
16.0	17.0	18.0	18.0
20.0	17.0	17.5	17.5
25.0	16.0	17.0	17.0
31.25	15.1	16.5	16.5
62.5	12.1	14.0	14.0
100.0	10.0	12.0	12.0
200.0	-	9.0	9.0
250.0	-	8.0	8.0
300.0	-	-	7.2
400.0	-	-	6.0
500.0	-	-	6.0

NEXT Loss

Frequency (MHz)	Cat 5e (dB)	Cat 6 (dB)	Cat 6A (dB)
1.0	60.0	65.0	65.0
4.0	53.5	63.0	63.0
8.0	48.6	58.2	58.2
10.0	47.0	56.6	56.6
16.0	43.6	53.2	53.2
20.0	42.0	51.6	51.6
25.0	40.3	50.0	50.0
31.25	38.7	48.4	48.4
62.5	33.6	43.4	43.4
100.0	30.1	39.9	39.9
200.0	-	34.8	34.8
250.0	-	33.1	33.1
300.0	-	-	31.7
400.0	-	-	28.7
500.0	-	-	26.1

Patch Cord Performance

Return Loss

Frequency (MHz)	Cat 5e (dB)	Cat 6 (dB)	Cat 6A (dB)
1.0	25.0	25.0	20.0
4.0	25.0	25.0	23.0
8.0	25.0	25.0	24.5
10.0	25.0	25.0	25.0
16.0	25.0	25.0	25.0
20.0	24.0	25.0	25.0
31.25	23.1	23.1	23.3
62.5	20.1	20.1	20.7
100.0	18.0	18.0	19.0
200.0	-	15.0	16.4
250.0	-	14.0	15.6
300.0	-	-	14.9
400.0	-	-	13.8
500.0	-	-	13.0

NEXT Loss - Category 6

Frequency (MHz)	Cord Limit (dB) 2m	5m	10m
1.0	65.0	65.0	65.0
4.0	65.0	65.0	65.0
8.0	65.0	65.0	64.8
10.0	65.0	64.5	62.9
16.0	62.0	60.5	59.0
20.0	60.1	58.6	57.2
25.0	58.1	56.8	55.4
31.25	56.2	54.9	53.6
62.5	50.4	49.2	48.1
100.0	46.4	45.3	44.4
125	44.5	43.5	42.7
150	43.0	42.1	41.4
175	41.8	40.9	40.2
200	40.6	39.8	39.3
225	39.7	38.9	38.4
250	38.8	38.1	37.6

NEXT Loss - Category 6A

Frequency (MHz)	Cord Limit (dB) 1m	2m	5m	10m
1.0	65.0	65.0	65.0	65.0
4.0	65.0	65.0	65.0	65.0
8.0	65.0	65.0	65.0	64.8
10.0	65.0	65.0	64.5	62.9
16.0	62.6	62.0	60.5	59.1
20.0	60.7	60.1	58.6	57.2
25.0	58.8	58.2	56.8	55.4
31.25	56.9	56.3	54.9	53.6
62.5	51.0	50.4	49.2	48.1
100.0	47.0	46.4	45.4	44.5
200	41.1	40.7	39.9	39.3
250	39.3	38.9	38.1	37.7
300	36.4	36.2	35.9	35.8
400	31.8	31.9	32.1	32.5
500	28.2	28.4	29.0	29.8

ANSI/TIA-568-C.2: UTP Permanent Link and Channel Field Testing

Permanent Link

The permanent link test configuration includes a length of horizontal cable and one connector attached to each end (see diagram). One optional consolidation point connection is also permitted. The permanent link runs from the cross-connect panel in the TR to the work station outlet. The permanent link overall length must not exceed 90m (295 ft.).

Channel

The channel test configuration includes a length of horizontal cable up to 90 meters, a work area cord, and two patch cord cross connections (see diagram). One optional consolidation point connection is also permitted in the channel. The channel overall length must not exceed 100m (328 ft.).

Hubbell Approved Field Testers for UTP and Optical Fiber Cabling

The Hubbell **MISSION CRITICAL**® warranty program recognizes the field testers and associated test adapters below. These testers function in a bidirectional mode, with automatic data acquisition and storage. All **MISSION CRITICAL**® test parameters are measured and recorded with these testers, for copper or fiber cabling.
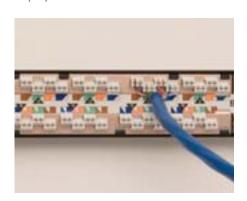
Field Tester Model		Permanent Link Adapter	Channel Adapter	110 Block T568A Wiring	110 Block T568B Wiring	Cat 6A AXT Test Kit
Fluke DTX Series 1800 and 1200	Cat 5e/ Cat 6	DTX-PLA001 w/DSP-PM06	DTX-CHA001	DTX-PLA001 w/DSP-PM13A	DTX-PLA001 w/DSP-PM13B	PLA002
	Cat 6A	DTX-PLA0025	DTXCHAOO1AS	N/A	N/A	DTX-10GKIT
Fluke DSP Series 4000, 4100 and 4300	Cat 5e/ Cat 6A	DSP-LIA101S w/DSP-PM06	DSP-LIA012S	DSP-PM13A	DSP-PM13B	
	Cat 6A	N/A	N/A	N/A	N/A	N/A
Fluke OMNIScanner and OMNIScanner 2	Cat 5e/ Cat 6	OMNI-LIA101S w/DSP-PM06	8262-42	OMNI-LIA101S w/DSP-PM13A	OMNI-LIA101S w/DSP-PM13B	
	Cat 6A	N/A	N/A	N/A	N/A	N/A
Agilent Wirescope 350 and FrameScope 350	Cat 5e/ Cat 6	N2604A-101	N2604A-100	N2604A-065	N2604A-066	
Wirescope Pro	Cat 6A	N2644A-101	N2644A-100	N/A	N/A	N2648A-100
Ideal Lantek 6 and Lantek 7	Cat 5e/ Cat 6	HPW PCX6Patch Cord	0012-00-0629	1019-00-1112 (Kit)	1019-00-1112 (Kit)	
Lantek 6A-7G	Cat 6A	HPW PS6 Series atch Cord	Supplied in unit	N/A	N/A	LANTEK 10GBKIT
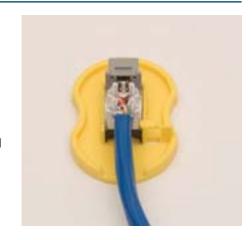
Recommended UTP Installation Practices
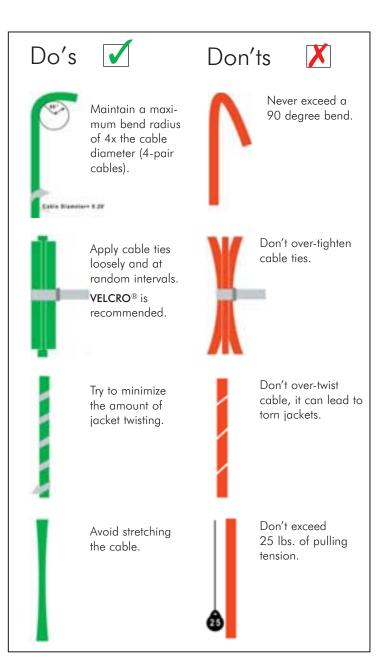
◆ Use the proper strip tool for the cable jacket. Don't cut into the conductor pairs.

◆ For best results, use the zip cord and peel away the cable jacket.

◆ Position the stripped cable jacket as close as possible to the termination point to minimize exposure of the twisted pairs.

◆ Maintain the natural twist of all conductor pairs as close as possible to the termination point. For Category 5e and 6 wiring, the maximum length of untwisted pairs is 0.5". Minimum untwisting optimizes Return Loss performance.

◆ Never uncoil UTP cable from a stationary spool. Permanent kinks will result from straightening, and NEXT failures may occur. Unwind the cable by rotating the spool with steady speed and tension. Also avoid scraping and kinking when feeding into conduit or raceway.

◆ Store cable slack for wall outlets above the ceiling for future re-termination.

◆ Use proper supports and spacing to minimize sag in horizontal runs. Long runs should use cable trays. Do not overload cable supports and trays.

◆ Don't exceed 40% cable fill ratio in any pathway.

◆ Avoid EMI by maximizing the separation distance from high voltage circuits, transformers, motors, etc. For shared pathways, use partitioned raceway with 2" minimum separation from power wiring.

◆ Do not run UTP cables over heater ducts or hot water ducts. High temperatures will degrade performance and deteriorate the cable jacket.

◆ Centralize TR's to equalize the horizontal cable runs on each floor. Maximum horizontal distance is 90 meters. Very short horizontal runs can increase NEXT.

◆ Never use staples to position cables.

◆ Use good cable management practices to maintain proper bend radius.

◆ For Category 6 cabling, store service loops in a figure "8" pattern to minimize cross-talk and EMI noise pick-up.

◆ All grounding and bonding shall be according to J-STD-607-A.

Category 6A Installation Practices

◆ Refer to Hubbell 10GbE Cabling Guidelines.

◆ NOTE: Larger cable diameters will have an impact on design, pathway fill capacity, and cable deployment.

Do's ✔   Don'ts ✘

Maintain a maximum bend radius of 4x the cable diameter (4-pair cables).

Cable Diameter= 0.20'

Never exceed a 90 degree bend.

Apply cable ties loosely and at random intervals. **VELCRO**® is recommended.

Don't over-tighten cable ties.

Try to minimize the amount of jacket twisting.

Don't over-twist cable, it can lead to torn jackets.

Avoid stretching the cable.

Don't exceed 25 lbs. of pulling tension.

VELCRO® is a registered trademarks of Velcro Industries B.V.
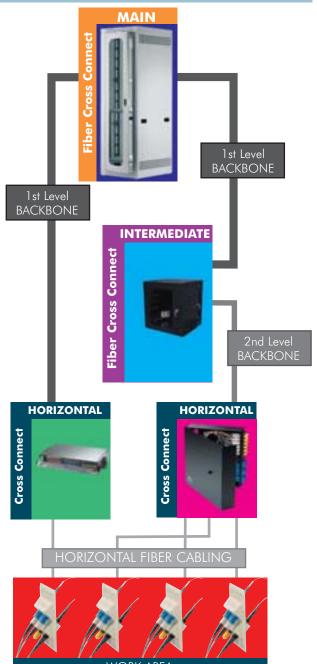
ANSI/TIA-568-C.0 and C.3: Optical Fiber Cabling and Components

Optical Fiber Cable Transmission Performance Parameters

Optical fiber cable type	Wavelength (nm)	Max. Attenuation (dB/km)	Bandwidth (MHz-Km)
50/125µm Multimode	850	3.5	500
	1300	1.5	500
50/125µm Laser Optimized	850	3.5	2000
	1300	1.5	500
62.5/125µm Multimode	850	3.5	160
	1300	1.5	500
Singlemode Inside Plant	1310	1	N/A
	1550	1	N/A
Singlemode Outside Plant	1310	0.5	N/A
	1550	0.5	N/A

Backbone and Horizontal Fiber Cabling Structure

This standard incorporates optical, mechanical, and environmental performance requirements for installed fiber optic cables and connectors.

◆ The optical fiber cable construction shall consist of 50/125µm, 62.5/125µm multimode fibers, or 9/125µm singlemode optical fibers.

◆ Installed optical fiber cabling and connection hardware shall meet the requirements of ANSI/TIA-568-C.3, and applicable sections of ANSI/TIA-568-C.1.

Performance Specifications for Multimode and Singlemode Fiber Optic Connectors

◆ Maximum insertion loss is 0.75dB for mated pair connectors of all types. Maximum splice loss is 0.3dB.

◆ Maximum return loss is 20dB for multimode and 26dB for singlemode fiber.

◆ All fiber links are tested individually.

Minimum Bend Radius and Maximum Pulling Tension

◆ 2 and 4 fiber cables for horizontal cabling shall not exceed a minimum of 25mm (1") bend radius with no applied load.

◆ 2 and 4 fiber cables for horizontal cabling shall not exceed a minimum of 50mm (2") bend radius with a maximum applied load of 222N (50Lbf).

◆ All other indoor fiber cables shall not exceed a minimum bend radius of 10 times the cable outside diameter (O.D.) with no applied load, and 15 times the cable O.D. with the rated load applied.

◆ Outside plant fiber cables shall not exceed a minimum bend radius of 10 times the cable O.D. with no applied load, and 20 times the cable O.D. with the rated load applied.

◆ Outside plant cables shall have a minimum pull strength of 2670N (600Lbf).

◆ Drop cables shall have a minimum pull strength of 1335N (300 Lbf).

◆ Workstation (patch cord) cables shall have a minimum pull strength of 50N (11Lbf).

568SC Standard Fiber Connector

◆ Most widely recognized connector for multimode and singlemode applications.

◆ Each channel in a duplex SC interconnect are referred to as Position 'A' and Position 'B'.

◆ A 62.5/125 multimode SC connector housing or adapter shall be beige.

◆ A 50/125 multimode SC connector housing or adapter shall all be aqua.

◆ A singlemode SC connector or adapter shall be blue.
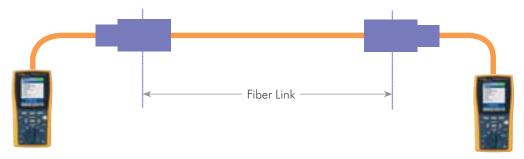
Small Form Factor Connectors (SFF)

◆ Approved for use in main cross connects, horizontal and backbone cabling, consolidation points, and the work area. Use for high-density applications.

◆ SFF connector type 'LC' is recommended most.

ANSI/TIA-568-C.0 and C.3: Optical Fiber Cabling and Components

Fiber Link Testing

An optical fiber link test configuration includes a length of passive horizontal or backbone cable with a connector attached to each end. Consolidation point connections are permitted within the system loss budget. Each individual link segment in a fiber backbone or horizontal run must be tested. The total link insertion loss is the sum of the individual link segment losses.

Fiber Link

NOTE: Advanced testers will measure insertion loss in both directions at multiple wavelengths through (2) channels.

Recommended Optical Fiber Installation Practices

Cable Runs

◆ Use inner duct through conduit and sleeves to protect cables from abrasion.

◆ Conduit fill rules apply: 40% maximum fill and no more than (2) 90° bends in a single run. A 50% conduit fill is permitted for a single cable.

◆ Maintain proper bend radius in all locations. Use a bend radius drum for strain relief and support.

◆ Vertical cables must be supported by the internal strength member.

◆ Do not use clamps or staples to support cables.

◆ Use the proper pulling method, and do not exceed the cable tensile load rating. Consult the cable manufacturer.

Stripping and Cable Prep

◆ Use the proper cable strip tools to avoid damage to fibers.

◆ Use the ripcord to remove cable jacket.

◆ Never use a utility knife for scoring the cable or sheath.

◆ Establish all break-out locations before connectorization.

Connectorization

◆ Use recognized methods, such as epoxy, anaerobic, crimp, or pre-polish type.

◆ Terminate and test in small batches.

◆ Relieve all cable weight from the installed connectors.

◆ Always clean and inspect connector end face before mating into the adapter.

◆ Check several channels with an OTDR to verify cable installation is free of micro-bends.

Service Loops

◆ Leave several large coils of main run cable at each end of the run.

◆ Leave approximately 2-3 meters of buffered fiber coiled in fiber enclosures.

◆ Leave 1 meter of buffered fiber coiled behind wall outlets.

ANSI/TIA-568-C.2: Category 6A UTP Cabling
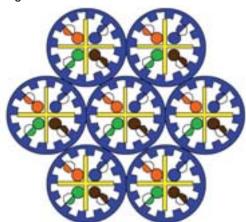
Augmented Category 6, or Category 6A unshielded twisted pair (UTP) cable is designed to support 10GBASE-T (10 Gigabit Ethernet) transmission in accordance with IEEE802.3an requirements. IEEE802.3an was officially ratified in June 2006. The 568B.2-10 standard for Category 6A was officially ratified in February 2008.

◆ Category 6A permanent link and channel performance are defined to 500 MHz.

◆ Alien Cross Talk (AXT) parameters are defined to 500 MHz.

◆ AXT is a measure of signal coupling from energized pairs in a disturber cable or component into disturbed pairs within surrounding cables or components.

◆ Category 6A AXT parameters are summarized below (see Glossary also):

• ANEXT (Alien Near End Crosstalk).

• PSANEXT (Power Sum Alien Near-End Crosstalk).

• AACRF (Attenuation to Alien Crosstalk Ratio, Far End). NOTE: Previously referred to as AFEXT.

• PSAACRF (Power Sum Attenuation to Alien Crosstalk ratio, Far-End). NOTE: Previously referred to as PSAFEXT.

To mitigate the effects of AXT, the cable design shall meet the "worst case" 6-around-1 AXT requirements as shown below. Larger wire size, tighter twisting and thicker cable jacket are key design parameters. As a result, the cable diameter is larger, and will have an impact on installation practices. Refer to Hubbell's "10 GbE Cabling Guidelines for more details.

◆ Field-testing of AXT in installed links or channels is optional per 568B-2-10.

◆ AXT field testing equipment is identified in the table on page N13.

◆ Link and channel components must also be designed to mitigate AXT.

"Worth Case" 6 around 1 AXT Test Configuration.

TIA/TSB-155: Field AXT Mitigation for Installed Category 6 Cabling

Telecommunications Systems Bulletin TSB-155, released in March 2007, was developed to qualify installed Category 6 cabling for operation at 500 MHz to support 10GbE transmission. Category 6 cabling used for 10GbE applications is restricted to the performance level of the cable and the AXT environment.

◆ Defines field AXT test parameters for installed Category 6 cabling links.

◆ Establishes length restrictions for installed Category 6 cabling.

◆ Standard Category 6 cabling: 37 meters maximum (no testing).

◆ Standard Category 6 cabling: 37 to 55 meters maximum (AXT testing recommended, mitigation not likely).

◆ Enhanced Category 6 cabling: > 55 meters (Mitigation and AXT testing highly recommended, , mitigation expected).

◆ NOTE: The primary limitation with 10GbE operation is ANEXT. Individual Cat 6 links with no EMI should be able to support 10GbE up to 100m. Multiple links in parallel become a concern with ANEXT.

The mitigation procedure suggested by TSB-155 is outlined below. Each mitigation step requires field AXT testing to 500 MHz for verification.

◆ Unbundle cables and patch cords.

◆ Substitute ScTP patch cords and equipment cords.

◆ Substitute Category 6A jacks.

◆ Substitute Category 6A panels.

ANSI/TIA-569-B: Telecommunications Pathways and Spaces

The applications below are supported by this standard. The 569B standard incorporates all previous addenda to the 569A version.

569B: Surface (Perimeter) Raceway Systems

◆ May contain work area outlets at desired locations.

◆ Include the base channel, cover, fittings and outlet accessories.

◆ May be either single channel or multi-channel with dividers.

◆ Are designed to maintain 25mm (1 in.) minimum cable bend radius.

◆ Can be installed as baseboard, chair rail, or ceiling runs with vertical feeders.

◆ Support single or multiple room distribution.

◆ Should be sized at 40% max cable fill to accommodate future expansion.

NOTE: Metallic raceway systems shall be properly bonded to ground per J-STD-607-A.
Never combine power and data cabling within a single raceway channel.

569B: Furniture Pathways and Spaces

◆ Separation requirements apply for power and data cabling.

◆ Furniture pathways shall have a minimum cross section area of 9.5 cm^2 (1.5 in^2).

◆ This specification is based on a work area cluster serving four persons with three outlet connections each.

NOTE: The usable cross sectional area may be reduced by bend radius limits of the installed cables.

569B: Access Floor Pathways and Spaces

◆ Standard access floors shall have a minimum of 150mm (6in.) finished floor height.

◆ A floor height of 200mm (8in.) is the recommended clearance for cable trays.

◆ The free space above any cable tray or raceway under an access floor must allow for easy removal of covers.

◆ Connecting hardware is prohibited below the access floor, however a consolidation point is permitted as an exception.

◆ Locate penetration points and floor outlets away from office traffic.

◆ All standards apply for separation of power and data cables.

569B: Poke-Thru Fittings

◆ A poke-thru device is used for penetration of building cabling through above-grade structural floors. Typically available in flush or raised configurations.

◆ Maintain fire rating of the floor after installation.

◆ Provide power and/or data service ports in limited capacity.

NOTE: Contact a Structural Engineer before penetrating load-bearing floors

Hubbell SystemOne
AV FRPT

Large Capacity,
FRPT

Flush, FRPT

569B: In-Floor Systems

◆ Typically specifies embedded ducting in concrete or cellular floor configurations.

◆ Design of these systems applies to new building constructions.

569B: Multi-Tenant Pathways and Spaces

◆ Specifies common equipment and telecommunications rooms.

◆ Also includes provisions for shared access and service provider spaces.

569B: Cable Trays and Wireways

◆ Describes various pre-fabricated structures for supporting and routing cables.

ANSI/TIA-570-B: Residential Telecommunications Cabling Standard

This standard specifies cabling infrastructure for distribution of telecommunications services in single or multi-tenant dwellings. Residential cabling begins at the interface with the Access Provider, known as the Demarcation Point. The in-house cable distribution follows a star topology. Cabling for audio, security, and home controls have been added to this standard in the addenda listed below.
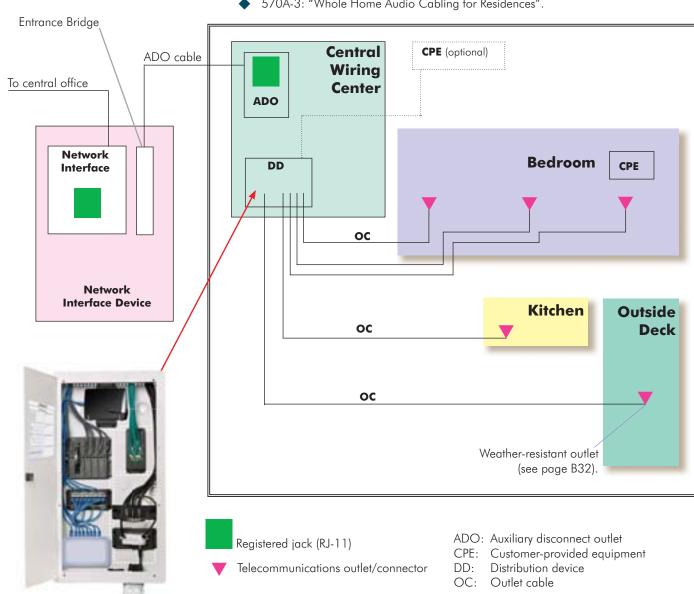
There are two grades of Residential Cabling:

◆ Grade 1: Minimum Requirement.
  • One 4-pair UTP Category 3 minimum cable and connecting hardware.
  • One 75Ω series 6 coaxial cable and connecting hardware.

◆ Grade 2: Advanced Multimedia (Recommended).
  • Two 4-pair UTP Category 5e minimum cable and connecting hardware.
  • Two 75Ω coaxial cables and connecting hardware.
  • One pair of cabled multimode optical fibers (optional).

ANSI/TIA-570-A Addenda

◆ 570A-1: "Security Cabling for Residences".

◆ 570A-2: "Control Cabling for Residences".

◆ 570A-3: "Whole Home Audio Cabling for Residences".

Entrance Bridge

ADO cable

To central office

Network Interface

Network Interface Device

Central Wiring Center

ADO

DD

CPE (optional)

Bedroom   **CPE**

OC

OC   **Kitchen**   **Outside Deck**

OC

Weather-resistant outlet (see page B32).

■ Registered jack (RJ-11)

▼ Telecommunications outlet/connector

ADO: Auxiliary disconnect outlet
CPE: Customer-provided equipment
DD: Distribution device
OC: Outlet cable

ANSI/TIA-606-B: Administration Standard for Commercial Telecommunications Infrastructure

This standard establishes basic guidelines for identification, labeling, and record keeping. These practices are essential for continued operation and maintenance of a cabled network. The advantages of identifying and documenting all elements of the cabling infrastructure are:

◆ Improved traceability of the network connections, paths, and locations.
◆ Moves, adds and changes (MAC's) are easily implemented.
◆ Maintenance and troubleshooting is simplified.

Key Elements of the Network that Require Identifier Labels and Records:

◆ Connecting hardware and splices.
◆ Cables.
◆ Telecommunications pathways (conduit, firestops, etc.).
◆ Telecommunications spaces (EF, ER, TR, WA).
◆ Grounding and bonding locations (TMGB, TGB, TBB).
◆ Equipment.
◆ Building.
◆ Outside plant (OSP) cables and pathways.

Four Classes of System Administration:

◆ Class 1: Single Building, 1 TR.
◆ Class 2: Single Building, multiple TR's.
◆ Class 3: Campus with OSP.
◆ Class 4: Multi-Campus/Multi OSP.

Requirements for Identifiers

◆ Identifiers should have a logical alphanumeric code.
◆ The code number should link to detailed permanent records.
◆ Standard 606-B color codes should be used for all cross-connect fields.

Requirements for Records

◆ Drawings and documents must be backed-up and secured by the building administration.
◆ Moves, add's and changes (MAC's) must be documented with a change order.
◆ MAC's must be updated in the permanent records.
◆ All identifier information must be cross-referenced in the permanent records.

Requirements for Labels

◆ All labels must use a traceable, permanent identifier.
◆ Each cable and pathway must be labeled on both ends.
◆ All labels shall meet UL969 legibility, defacement and adhesion requirements.
◆ Station connections may be labeled on the face plate.
◆ All jack, connector and block hardware can be labeled on the outlet or panel.

606-B Color Coding

Color	Description
Orange	Demarcation point (Pantone 150C) - Central Office
Green	Network connections on customer's side (Pantone 353C)
Purple	Common equipment (Pantone 246C) - PVBX, LANs
White	1st level backbone - Main to Intermediate
Gray	2nd level backbone (Pantone 422C) - Intermediate to Telecom
Blue	Horizontal cabling (closet end only) (Pantone 291C) - Work Area
Brown	Inter-building backbone (Pantone 465C)- Campus Environment
Yellow	Auxiliary circuits (Pantone 101C) - Alarm, Security, etc.
Red	Key telephone systems (Pantone 184C)
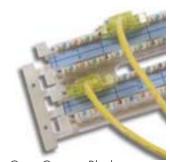
Patch Cords

Patch Panels

Fiber Panels

Cross Connect Blocks

J-STD-607-A: Commercial Building Grounding and Bonding Requirements for Telecommunications
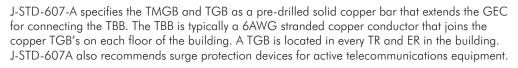
Grounding Bar
Cat No. **MCCGBAR**

This standard specifies grounding and bonding design and distribution methods for commercial buildings. Proper earth grounding of the building structure and wiring is a requirement of the National Electric Code (NEC). Bonding all electrical and telecommunications equipment to the primary grounding electrode conductor (GEC) is essential for maximizing performance and safety. *Bonding to water pipes is now a code violation.

Bonding telecommunications equipment, facilities, and cabling to the primary grounding electrode is accomplished using the following major elements:

◆ Grounding Electrode Conductor (GEC).
◆ Bonding Conductor (BC).
◆ Telecommunications Main Grounding Busbar (TMGB).
◆ Telecommunications Bonding Backbone (TBB).
◆ Telecommunications Grounding Busbar (TGB).

J-STD-607-A specifies the TMGB and TGB as a pre-drilled solid copper bar that extends the GEC for connecting the TBB. The TBB is typically a 6AWG stranded copper conductor that joins the copper TGB's on each floor of the building. A TGB is located in every TR and ER in the building. J-STD-607A also recommends surge protection devices for active telecommunications equipment.

* The GEC is the largest grounding conductor and extends into the earth to a specified depth.

◆ The TBB should be continuous with no splices.
◆ Connections to the TBB must use listed compression fittings.

TGB #3 — 3rd Floor
TGB #2 — 2nd Floor
TGB #1 — 1st Floor
TBB
TMGB
BCT
GEC

ANSI/TIA-862: Building Automation Systems Cabling Standard for Commercial Buildings

This standard establishes guidelines for structured cabling of low-voltage building automation systems (BAS). BAS wiring and control systems are converging with telecommunications infrastructures. NEC allows power-limited BAS systems to share the pathways and spaces with telecommunications infrastructure. LAN cabling is therefore not limited to voice and data transmission, and BAS applications present a new opportunity. Converging BAS with telecommunications are driving new industry standards. Designers must consider BAS cabling when sizing pathways and spaces in a building.

The key advantages of converging BAS and Telecom cabling are:

◆ Project responsibility is reduced to a single team.
◆ The building design and system administration is simplified.
◆ Consolidation of service, equipment, and cabling facilities is achieved.
◆ Common pathways and bonding points create a centralized infrastructure.
◆ Cabling installation and practices of ANSI/TIA-568-C can be utilized.

Basic Cabling Requirements for BAS:

◆ The horizontal cabling, installation, and BAS outlet connector shall meet ANSI/TIA-568-C.1.
◆ A distributed or centralized star topology should be used.
◆ Recognized cables for BAS horizontal and backbone:
  •100 Ohm balanced UTP cable (ANSI/TIA-568-C.2).
  • Multimode or singlemode optical fiber (ANSI/TIA-568-C.3).
◆ The BAS outlet may be connected from an HC or an optional CP.
◆ Shared pathways of BAS/Telecom cables must be code and capacity compliant.
◆ For use with balanced UTP cable, the BAS device operating voltage and current are limited per ANSI/TIA-862, Annex 'A'.
◆ Separation of services is recommended in ANSI/TIA-862, Annex 'B'.
  • Shared cable sheath of BAS and telecommunications wiring is not recommended.

ANSI/TIA-942: Telecommunications Infrastructure Standards for Data Centers
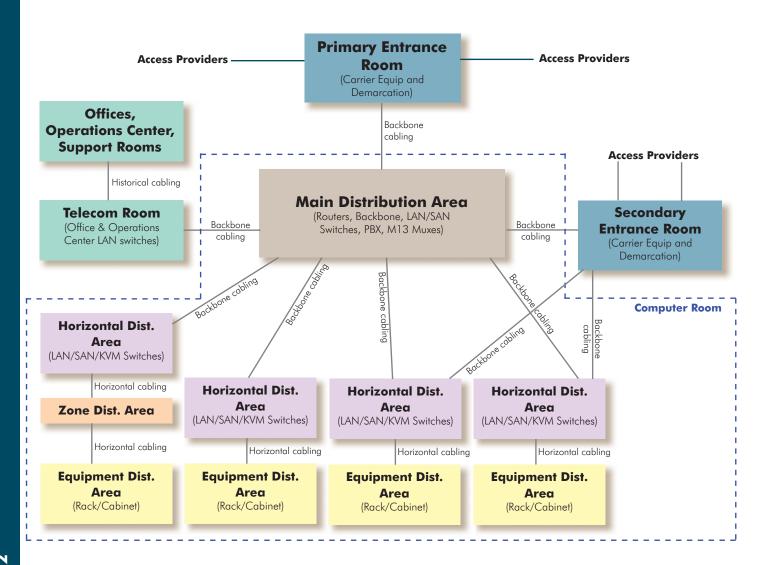
TIA-942 defines a data center as a building or portion of a building dedicated to housing large scale computer rooms and support facilities. Data centers are highly protected facilities that typically serve large private institutions or public service providers. Engineering design considerations for data centers include: architectural layout, space allocation, power, cooling, security, floor loading, telecommunications cabling distribution, and disaster avoidance/recovery.

Data centers have a high level of fault tolerance, with (4) tiers of redundancy for all critical systems and support functions. Higher tiers are inclusive of lower tiers of redundancy, and provide increased levels of protection from service interruptions caused by specific events, such as fire or earthquakes. A Tier 4 facility provides maximum service availability, and is also the most costly construction.

A typical Data Center includes:

◆ Entrance Room (ER).
◆ Telecommunications Room(s) (TR).
◆ Main Distribution Area (MDA).
◆ Horizontal Distribution Areas.
◆ Equipment Distribution Area (EDA).

A schematic layout of a data center is illustrated below.

ANSI/TIA-942 Addenda

◆ ANSI/TIA-942-1: "Data Center Coaxial Cabling Specifications and Application Distances".
◆ ANSI/TIA-942-2: "Additional Media and Guidelines for Data Centers".

ANSI/TIA-1005: Industrial Telecommunication Infrastructure

The official standard is developed by the TIA/TR-4.9 Industrial Telecommunications Infrastructure Subcommittee. This standard defines the requirements for cabling, connectors, pathways, and spaces designed to operate in harsh environments.

For the Industrial Ethernet application, the basic performance and reliability sections of ANSI/TIA-568-C apply. Additional requirements are being defined in TIA-1005 to incorporate harsh environments.

TR-42.9 has established four conditions (MICE) that define the industrial environment:
- ◆ Mechanical (shock, vibration, impact, etc.).
- ◆ Ingress (contamination influx).
- ◆ Climate (temperature, humidity, UV exposure, etc.).
- ◆ Electromagnetic (conducted and radiated interference).

Industrial Ethernet components are rated to withstand these conditions under specific levels of severity. The level of severity is determined by the application.

Ingress Protection (IP) codes are a two-digit code with the following criteria:
- ● First Digit: degree of protection from human contact with hazardous elements inside an enclosure, or from influx of foreign matter.
- ● Second Digit: degree of protection of equipment inside enclosures from the influx of water.

Example: **IP67 (6 = first digit, 7 = second digit)**
The higher the number, the higher the degree of protection from human contact and influx of water.

HARSH- e
Hubbell Application Rating System for Harsh Environments

	e3 Application Severe	**e2 Application Harsh**	**e1 Application Tough**
Dust	Enclosures: **NEMA 4X** Connectors: **IP67** and **IP66** Totally protected against dust (Dust-tight)	Enclosures: **NEMA 4/12/13** Connectors: **IP67** and **IP66** Protected against dust, Objects greater than 1 mm	Enclosures: **NEMA 3R** Connectors: **IP43** Objects greater than 1 mm i.e., tools, wires, small wires
Water	Enclosures: **NEMA 4X** Connectors: **IP67** and **IP66** Immersion and strong pressure jets	Enclosures: **NEMA 4/12/13** Connectors: **IP67** and **IP66** Protected against strong and low pressure jets	Enclosures: **NEMA 3R** Connectors: **IP43** Protected against sprays of water to 60° from vertical
Corrosion	Enclosures: **NEMA 4X** Stainless Steel: Dust, water and corrosive liquids Connectors: PBT Common oils, chemicals and cleaning agents	Enclosures: **NEMA 4/12/13** Ice, dust, water, non-corrosive liquids Connectors: PBT Common oils	Enclosures: **NEMA 3R** Falling rain, sleet Connectors: N/A
Impact	Enclosures: 14 ga., 304 SS Connector Housing: PBT	Enclosures: 14 ga., steel Connector Housing: PBT	Enclosures: 14 ga., steel Connectors: Thermoplastic
Tamper	Enclosures: Protected, secured and locked	Enclosures: Protected, and optional locked	Enclosures: Protected, but not secured
Temperature	TIA-568-C.2 TIA/TR 42.9 pending	TIA-568-C.2	TIA-568-C.2
Vibration	TIA/TR 42.9 10-500Hz 5g Acceleration	TIA/TR 42.9 10-500Hz 2g Acceleration	TIA/TR 42.9 10-500Hz 0.7g Acceleration
Ultra-Violet	Protected	Protected	Not Protected

Standard UTP Wiring Conventions

Horizontal UTP Cable and Patch Cords

◆ Solid copper 4-pair 24 AWG UTP is specified for distribution cabling. Stranded UTP is specified for patch cords for flexibility. Shielded cable is not commonly used in the U.S. Splices bridge taps are not permitted.

◆ Cable, connectors and patch cords shall be marked with the performance category. Always match performance categories of cables and components throughout the infrastructure.

◆ All cable, cords and connecting hardware shall meet performance requirements of ANSI/TIA-568-C.2. Hubbell assures this compliance with all products and cable partners.

COLOR CODING:

	white-blue/blue
	white-orange/orange
	white-green/green
	white-brown/brown

Backbone UTP Cable

◆ Solid copper 4-pair and 25-pair UTP is specified. An overall shield is optional.

◆ Performance category markings and compliance to ANSI/TIA-568-C.1 and 568-C.2 is required.

◆ Circuits with incompatible signals should be partitioned in separate binder groups. Prior to making shared sheath circuit assignments, consult the equipment manufacturer for signal characteristics (i.e., frequency, amplitude, voltage, etc.).

◆ Tip conductor insulation colors are matched to the binder group. Ring conductor insulation colors correspond the pair.

Recognized Connector and Wiring Configurations

◆ 8-position modular jack/plug.

◆ 8-position modular panel/plug.

◆ T568A wiring or T568B wiring options.

◆ Cat 5e, Cat 6 or Cat 6A recommended.

◆ Type M4 - 4-pin recognized for industrial automation.

Type M4
(Male)

RJ-45 ANSI/TIA-568 Wiring Conventions

Two wiring standards were adopted. Both configurations are based on maximum transmission performance.

T568A
1: Green/White
2: Green
3: Orange/White
4: Blue
5: Blue/White
6: Orange
7: Brown/White
8: Brown

● Preferred method.

● Directly compatible with 2-pair voice and Token Ring systems utilizing 6-position connectors.

T568B
1: Orange/White
2: Orange
3: Green/White
4: Blue
5: Blue/White
6: Green
7: Brown/White
8: Brown

● Optional method.

● AT&T's standard.

● Directly compatible with AT&T phone systems.

Standard UTP Wiring Conventions

N24 · HUBBELL · Hubbell Premise Wiring • 14 Lord's Hill Road • Stonington, CT 06378 • Tel: (860) 535-8326 • Fax: (860) 535-8328

Standard UTP Wiring Conventions

USOC Conventions

Universal Service Ordering Codes (USOC) are a series of Registered Jack (RJ) wiring configurations developed by the Bell System for connection of customer premises equipment to the network. FCC regulations govern these configurations.
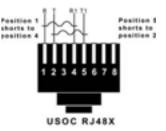
Color Coding

TIP		RING	
Pair 1	T1 - White/Blue	Pair 1	R1 - Blue
Pair 2	T2 - White/Orange	Pair 2	R2 - Orange
Pair 3	T3 - White/Green	Pair 3	R3 - Green
Pair 4	T4 - White/Brown	Pair 4	R4 - Brown

LAN Wiring Conventions
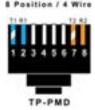
Local Area Network standards designed to operate over UTP specify pin/pair assignments on modular connectors for various signal transmission protocols. While ANSI/TIA-568A and 568B conventions support all these designations, there are some cases where the user chooses to cable only the number of pairs required to support these applications.

10/100BASE-T
- 10 Mbps Ethernet over UTP.
- Uses only two pairs.
- 100 Mbps Ethernet.

Token Ring
- 4/16 Mbps Token Ring over copper.
- Uses only two pairs.

TP-PMD
- 100 Mbps FDDI over copper.
- Uses only two pairs.

1000BASE-T (T568A)
- 1000 Mbps Ethernet over UTP.
- Uses all four pairs.

Standard UTP Wiring Conventions

Block Wiring

Standard color codes for 25-Pair UTP cable are specified in the chart below.

Wire/Color Code	Tip and Ring	Pair Number	50 Pin Positions	66 or 110 Block Positions
white/blue blue/white	Tip 1 Ring 1	Pair 1	26 1	1 2
white/orange orange/white	Tip 2 Ring 2	Pair 2	27 2	3 4
white/green green/white	Tip 3 Ring 3	Pair 3	28 3	5 6
white/brown brown/white	Tip 4 Ring 4	Pair 4	29 4	7 8
white/slate slate/white	Tip 5 Ring 5	Pair 5	30 5	9 10
red/blue blue/red	Tip 6 Ring 6	Pair 6	31 6	11 12
red/orange orange/red	Tip 7 Ring 7	Pair 7	32 7	13 14
red/green green/red	Tip 8 Ring 8	Pair 8	33 8	15 16
red/brown brown/red	Tip 9 Ring 9	Pair 9	34 9	17 18
red/slate slate/red	Tip 10 Ring 10	Pair 10	35 10	19 20
black/blue blue/black	Tip 11 Ring 11	Pair 11	36 11	21 22
black/orange orange/black	Tip 12 Ring 12	Pair 12	37 12	23 24
black/green green/black	Tip 13 Ring 13	Pair 13	38 13	25 26
black/brown brown/black	Tip 14 Ring 14	Pair 14	39 14	27 28
black/slate slate/black	Tip 15 Ring 15	Pair 15	40 15	29 30
yellow/blue blue/yellow	Tip 16 Ring 16	Pair 16	41 16	31 32
yellow/orange orange/yellow	Tip 17 Ring 17	Pair 17	42 17	33 34
yellow/green green/yellow	Tip 18 Ring 18	Pair 18	43 18	35 36
yellow/brown brown/yellow	Tip 19 Ring 19	Pair 19	44 19	37 38
yellow/slate slate/yellow	Tip 20 Ring 20	Pair 20	45 20	39 40
violet/blue blue/violet	Tip 21 Ring 21	Pair 21	46 21	41 42
violet/orange orange/violet	Tip 22 Ring 22	Pair 22	47 22	43 44
violet/green green/violet	Tip 23 Ring 23	Pair 23	48 23	45 46
violet/brown brown/violet	Tip 24 Ring 24	Pair 24	49 24	47 48
violet/slate slate/violet	Tip 25 Ring 25	Pair 25	50 25	49 50

Standard UTP Wiring Conventions
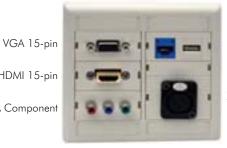
Audio Video Cabling

AV signal-level cabling and connectors are an integral part of structured horizontal cabling. Low voltage AV cabling may share the same pathways and wall outlet boxes with twisted pair or fiber data cabling. However, according to NEC 2005 Article 725.56(F), Class 1 audio power cables are prohibited from sharing the same pathway with any other Class 2 or Class 3 low voltage control wiring or network cables.

Common AV Media Interface Connectors

VGA 15-pin

HDMI 15-pin

RCA Component

RJ-45
USB

XLR

F-type

S-Video

3.5mm Stereo Jack

RCA Composite

RCA feed-through

Types of AV Cable Media

◆ Co-axial: RG6, RG59.
◆ Fire Wire.
◆ 15-wire: VGA/HDMI.
◆ 2-wire audio: 26 to 14 AWG.
◆ 4-pair balanced UTP or FTP.
◆ USB.
◆ HDMI.

Two Basic Forms of Audio Signal

◆ Analog Audio: sound waves are modulated into a continuous electrical signal.

◆ Digital Audio: analog audio signal is encoded into digital bits.

Two Basic Forms of Video Signal

◆ Composite Video (low resolution).
  • Three color components delivered by one single cable, no audio content.
  • Max resolution: 480i.
◆ Component Video (high resolution)
  • Red/Green/Blue (RGB) color components delivered by three separate cables, with audio content.
  • Resolution up to 1080i.

AV Cable Distance Limits and Other Considerations

Total channel distances are limited for specific applications. USB channel lengths should not exceed 5.0 meters. Fire wire channel lengths should not exceed 4.5 meters. Horizontal cabling installations should allow for proper bend radius inside outlet boxes and behind walls.

Shared pathways with other communications or low voltage cabling should be analyzed for any potential signal interference issues.

Installation Tips

◆ Don't exceed cable minimum bend radius when installing connectors. Contact cable manufacturer for bend radius specifications.

◆ Soldering: Use the proper wire and solder temperature. NOTE: A "cold solder" will cause termination failures.

◆ Screw terminal: Strip wire insulation to proper length. Capture all strands neatly during insertion.

HPW Product Compatibility Chart	Port Configurations						
Product	1	2	3	4	6	9	12
iSTATION™ Module, 1U Flat	✓	✓	-	-	-	-	-
iSTATION™ Module, 1.5U Angled	✓	✓	-	-	-	-	-
iSTATION™ Module, 1.5U Recessed, Angled	✓	✓	-	-	-	-	-
IFP Plates, 1-Gang	✓	✓	✓	✓	✓	-	-
IFP Plates, 2-Gang	-	-	-	-	✓	✓	✓
Tamper-Proof Plates	-	-	-	✓	-	-	-
Stainless Steel Plates, 1-Gang	✓	✓	✓	✓	✓	-	-
Stainless Steel Plates, 2-Gang	-	-	-	-	✓	✓	✓
ISM Surface Mount Housings	✓	✓	-	✓	✓	-	✓
ISF Outlet Frames	-	✓	✓	✓	✓	-	-
Quad 106 Outlet Frames	-	✓	-	✓	-	-	-
Furniture Plates	-	✓	✓	✓	-	-	-
OFPPL Multimedia Plate	-	-	-	✓	-	-	-
AMO Multimedia Housing	✓	✓	✓	✓	✓	✓	✓
UDX Jack Panels, 1U, 24-port	✓	✓	✓	✓	✓	✓	✓
UDX Jack Panels, 1U, 36-port	✓	✓	✓	✓	✓	✓	✓

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International Standards

ISO/IEC 11801 2nd Edition: Information Technology - Generic Cabling for Customer Premises

The Joint Technical Committee (JTC1) of the International Organization for Standardization (ISO) and IEC released the second edition of ISO/IEC 11801 in 2002. This document is closely aligned with the ANSI/TIA-568-C series of U.S. standards. The recognized backbone and horizontal cables are identical to 568-C, with additional allowance for 120Ω ScTP voice cable, and Category 7 applications. Category 7 cable and components are fully shielded and are used primarily in Europe. Channel lengths and cable performance parameters may vary slightly between ISO/IEC and U.S, standards. Refer to the tables below for comparison.

CENELEC EN 50173: Information Technology – Generic Cabling Systems

The European Committee for Electrotechnical Standardization (CENELEC) produces standards that are also closely aligned with ANSI/TIA and ISO/IEC. British, Canadian and Australian standards also align with CENELEC and ISO/IEC. Refer to the tables below for comparison.

Supported Media - International

Designation	ANSI/TIA-568-C	ISO/IEC 11801 2nd Ed. 2002	CENELEC EN-50173-1: 2002
Category 3 (16 MHz)	Supported	Supported: Class C	Supported: Class C
120Ω Category 3 (16 MHz)	Not Supported	Supported: Class C	Supported: Class C
Category 5e (100 MHz)	Supported	Supported: Class D	Supported: Class D
Category 6 (250 MHz)	Supported	Supported: Class E	Supported: Class E
Category 6A (500 MHz)	Supported	Supported: Class E$_A$*	Supported: Class E$_A$*
Category 7 (600 MHz)	Not Recognized	Supported: Class F	Supported: Class F
50/125 - 62.5/125 Multimode	Supported	Supported	Supported
Singlemode Fiber	Supported	Supported	Supported
Singlemode Fiber to the Work Area	Not Supported	Supported	Supported
Work Area Outlet Configuration	4 Pairs T568A or B	4 Pairs T568A Only	4 Pairs T568A Only
Stranded Patch Cord Attenuation	120% of Horiz. Cable	150% of Horiz. Cable	150% of Horiz. Cable

Common International Standards

Common Standards	ANSI/TIA	ISO/IEC	CENELEC	Australia/New Zealand
Premise Cabling: General Requirements	568-C	11801 2nd Edition	50173	AS/NZS 3080
Pathways/Spaces	569-B	18010	50174-2	AS/NZS 3084
Residential	570-B		50173-3	AS/NZS 3086
Administration	606-B	14763-1	50174-2	AS/NZS 3085
Grounding/Bonding	J-STD-607A		50310	

* **NOTE**: Category 6A requirements will be incorporated into ISO/IEC 11801 and CENELEC EN-50173 after the release of the ANSI/TIA-568-C Standards Series.

Applications Guide: Cabling Channel Solutions
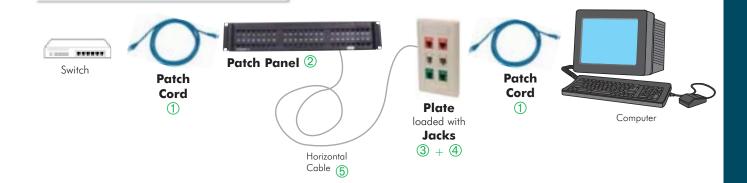
Category 5e/6/6A Solution (without Consolidation Point)

Applications Supported

- **10BASE-T**
- **100BASE-T**
- **1000BASE-T**
- **10GBASE-T**

- **ISDN**
- **Token Ring**
- **ATM 155**
- **TP PMD**
- **VoIP**

Hubbell Solutions

	Product	Cat 6A Solution	Cat 6 Solution	Cat 5e Solution
①	Patch Cord	PC6A Series	PCX6 Series	PCX5E Series
②	Patch Panel	HP6A Series	P6E or PXJ Series	P5E Series
③	Plates	IFP or IMF Series	IFP or IMF Series	IFP or IMF Series
④	Jack(s)	HJ6A	HXJ6	HXJ5E
⑤	Cable	C6A Series	C6 Series	C5E Series

Switch

Patch Cord ①

Patch Panel ②

Horizontal Cable ⑤

Plate loaded with **Jacks** ③ + ④

Patch Cord ①

Computer
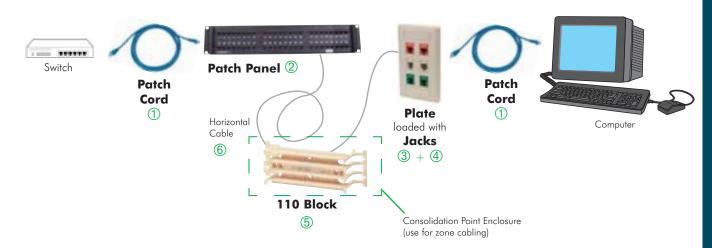
Category 5e/6 Solution (with Consolidation Point)

Applications Supported

- **10BASE-T**
- **100BASE-T**
- **1000BASE-T**

- **ISDN**
- **Token Ring**
- **ATM 155**
- **TP PMD**
- **VoIP**

Hubbell Solutions

	Product	Cat 6 Solution	Cat 5e Solution
①	Patch Cord	PCX6 Series	PCX5E Series
②	Patch Panel	P6E or PXJ Series	P5E Series
③	Plates	IFP or IMF Series	IFP or IMF Series
④	Jack(s)	HXJ6	HXJ5E
⑤	or 110 Block	6110 Series	110BLK Series
⑥	Cable	C6 Series	C5E Series

Switch

Patch Cord ①

Patch Panel ②

Horizontal Cable ⑥

110 Block ⑤

Plate loaded with **Jacks** ③ + ④

Patch Cord ①

Computer

Consolidation Point Enclosure (use for zone cabling)

Applications Guide: Cabling Channel Solutions

25-Pair UTP

Applications Supported
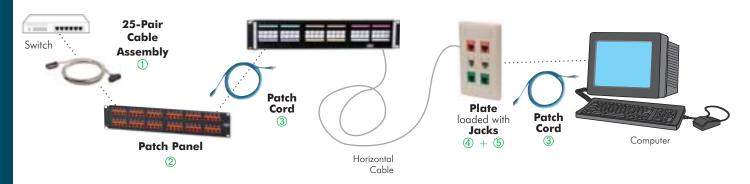
✦ **10BASE-T**
✦ **100BASE-T**

Hubbell Solutions

	Product	100BASE-T	10BASE-T
①	25-Pair Cable Assembly	525PS Series	Customer Supplied
②	Patch Panel	MCC**XX**100BT19*	
③	Patch Cord	PCX6 Series	PCX5E Series
④	Plate	IFP or IMF Series	IFP or IMF Series
⑤	Jack(s)	HXJ6 Series	HXJ5E Series

* **XX** changes with port capacity, length or style, depending on the product.

Switch — **25-Pair Cable Assembly ①** — **Patch Panel ②** — **Patch Cord ③** — Horizontal Cable — **Plate loaded with Jacks ④ + ⑤** — **Patch Cord ③** — Computer
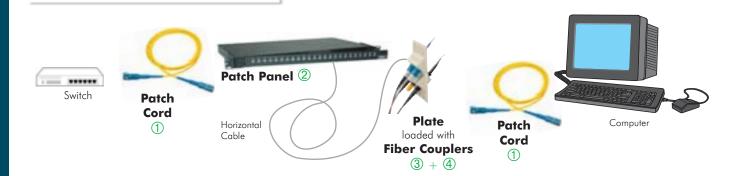
Fiber Solutions

Applications Supported

✦ **1000BASE-SX/LX**
✦ **ATM (Fiber)**
✦ **10GBASE-SX/LX**

Hubbell Multimode Solutions

	Product	Fiber Solution
①	Patch Cord	DFPSC Series
②	Patch Panel	FPR/FCR Series
③	Plates	IFP, IMF or AFP Series
④	Fiber connector	**OPTICHANNEL**™ OR **2CLICK**® Series

Switch — **Patch Cord ①** — **Patch Panel ②** — Horizontal Cable — **Plate loaded with Fiber Couplers ③ + ④** — **Patch Cord ①** — Computer

***Fiber Application Notes**:*
* *For 10GBASE-SX, use laser-optimized 50/125µm multimode cable, cords and connectors.*
* *For 10GBASE-LX, use singlemode cabling and components.*

***Fiber Supportable Distances**:*
* *See table on page N7.*

10GBASE-T
IEEE 10-Gigabit Ethernet data transmission.

100BASE-T
IEEE Fast Ethernet standard baseband (single channel) data transmission at 100 Mbps over twisted pair copper wiring.

1000BASE-T
IEEE Gigabit Ethernet standard baseband (single channel) data transmission at 1000 Mbps over twisted pair wiring.

1000BASE-LX
IEEE Gigabit Ethernet standard baseband (single channel) data transmission at 1000 Mbps over fiber optic cable using long wavelength lasers, typically 1300nm.

1000BASE-SX
IEEE Gigabit Ethernet standard baseband (single channel) data transmission at 1000 Mbps over fiber optic cable using short wavelength lasers, typically 850nm.

AACRF (Attenuation to Alien Crosstalk Ratio, Far End)
The difference in dB between the AFEXT from a disturber pair and the insertion loss of a disturbed pair within a surrounding link or channel.

ACR (Attenuation-to-Crosstalk Ratio)
A cable performance parameter computed by subtracting the insertion loss (attenuation) of a pair from the near end crosstalk value. See NEXT.

Adapter
An interconnect device through joins similar or dissimilar connectors.

AFEXT (Alien Far End Crosstalk)
Signal coupling from energized pairs in a disturber cable or components into pairs within surrounding cables or components, measured at the far end.

Alien Cross-talk (ANEXT)
Unwanted signal induced into pairs within a cable from surrounding cables.

Anaerobic Adhesive
An adhesive that cures in the absence of air.

ANEXT (Alien Near End Crosstalk)
Signal coupling from energized pairs in a disturber cable or component into pairs within surrounding cables or components, measured at the near end.

Attenuation
The reduction in strength of an electrical or optical signal through a medium or interconnect. Expressed in decibels (dB) relative to a reference signal. Also known as insertion loss.

AWG (American Wire Gauge)
A wire sizing convention based on the number of draw steps. The larger the AWG number, the smaller the wire diameter.

AXT (Alien Crosstalk)
A measure of signal coupling from energized pairs in a disturber cable or component into disturbed pairs within surrounding cables or components.

Backbone Cabling
The permanent cabling structure that originates from the main cross connect in the equipment room. The backbone cabling links telecommunications rooms and other buildings in a campus to the main cross connect. Also referred to as vertical cabling.

Balance
A condition where all complex electromagnetic fields are perfectly equal and opposite.

Bandwidth
The permissible range of transmission frequencies of a communications system. Expressed in Hertz (cycles per second).

BER (Bit Error Rate)
The fraction of total bits transmitted that are erroneous. Caused by EMI or crosstalk.

BNC Connector
A bayonet (push and turn) style coax cable connector.

Bonding
The permanent joining of conductors to the building grounding infrastructure.

Building Automation System (BAS)
An intelligent network of devices, cabling, and equipment that provides automated control of building services such as lighting, climate, and fire detection.

Building Entrance
The physical location where outside plant (OSP) cables penetrate the building.

Campus
In terms of networking, a campus refers to multiple buildings interconnected together.

Category 5e
Balanced twisted-pair cabling specifications characterized from 1 MHz to 100 MHz frequency range. Replaces Cat 5 with new parameters such as PSNEXT, RL, ELFEXT, and more stringent NEXT performance.

Category 6
Balanced twisted-pair cabling specifications characterized from 1MHz to 250 MHz frequency range.

Category 6A
Balanced twisted-pair cabling specifications for Augmented Category 6 performance, characterized from 1MHz to 500MHz frequency range.

CATV (Community Antenna Television)
A local cable TV network that receives signal from a master antenna.

CCTV (Closed Circuit Television)
A private TV system in which signal is transmitted to a limited number of receivers.

Central Office
A common carrier switching center that serves a region of subscribers in a local loop.

Channel
The end-to-end transmission path, which includes the horizontal permanent link, equipment cord and cross connect cord. See Permanent Link.

Characteristic Impedance
The impedance of a transmission line, which when terminated at the near end, would make the line appear infinitely long. A line terminated at its characteristic impedance would have no standing waves or reflections, and a constant ratio of voltage to current at any frequency along the line.

Chrominance
The color portion of a video signal. See also Luminance.

Cladding
The glass layer surrounding the core of an optical fiber, having a different index of refraction than the core. The cladding permits total internal reflection within the core.

Cleave
A flat 90° break separation of an optical fiber, initiated by crack propagation.

Collision Detection
The ability of an Ethernet network to detect simultaneous (colliding) signal traffic.

Component Video
Baseband analog (video) signal comprised of three discrete RGB colors (red, green, blue). Each color is delivered through a separate cable to produce a high resolution RGB signal.

Composite Video
Baseband analog (video) signal from a single channel containing color but no audio signal.

Consolidation Point
An interconnection point in the horizontal cabling between the horizontal cross connect and the work station. See Interconnection.

Core
The central region of an optical fiber through which light transmits.

Cross Connection
A connection point where distribution cables are joined to equipment cables or to other cables using patch cords.

Crosstalk
Unwanted signal induced between separate conductors or cables. See also Alien Crosstalk.

Data Terminal Equipment (DTE)
Office equipment such as phones and modems that are powered by DC voltage.

Decibel (dB)
A standard measure of gain or loss of signal power relative to a reference value.

Delay Skew
The difference in propagation delay between any two pairs within a cable.

Demarcation Point
The connection interface between the service provider cabling and the customer cabling.

Dielectric
A non-metallic, non-conductive material used for wire or coax cable insulation.

Digital Signal
An electronic signal that changes rapidly from one state to another in discrete steps.

Distribution Frame
A structure through which backbone interconnections or cross-connections are made. Main and intermediate distribution frames are known as MDF and IDF respectively.

Duplex
Simultaneous transmission in both directions.

Earth Ground
An electrical connection to earth ground by a grounding electrode system.

EMI (Electromagnetic Interference)
Radiated or conducted electromagnetic energy that has an undesirable affect on equipment or signal transmissions. Also referred to as noise, which increases bit error rate (BER).

Entrance Facility (EF)
A code-compliant room or enclosed space that supports the entry of outside public and private network service cabling.

Equipment Room (ER)
An environmentally controlled room or space dedicated to housing telecommunications equipment and main cross connect hardware.

Ethernet
A LAN protocol using a logical bus structure and carrier sense multiple access with collision detection (CSMA/CD). Governed by the IEEE-802.3 series of standards.

F Connector
A 75 ohm coax connector typically used for television and video equipment.

Ferrule
A cylindrical element of a fiber optic connector that provides central alignment of the fiber.

FEXT (Far End Crosstalk)
A measure of unwanted signal coupling from a pair energized by a transmitter at the near end, into surrounding pairs at the far end relative to the transmitter signal level.

Fiber Optics
The technology of light transmission through glass optical fiber by means of total internal reflection.

Fire-Rated Poke-Through
A cable outlet or distribution device suitable for penetration through fire-rated floors.

Firestopping
The process of installing fire-rated materials into wall or floor penetrations to re-establish the fire rating of the barrier.

Full Duplex
Simultaneous bi-directional signal transmission through a media. See half duplex.

Fusion Splice
The process of joining glass optical fibers together using a controlled electric arc.

GHz (GigaHertz)
A unit of frequency equal to 1 billion hertz, or 1 million megahertz.

Grounding Electrode (GE)
A copper clad steel rod or plate secured underground to provide a common low impedance conductive path to the soil. The GE is the primary grounding point for all electrical and telecommunications equipment.

Grounding Electrode Conductor (GEC)
A conductor that is bonded to the grounding electrode that provides a common ground connection for equipment and distributed grounding backbones. See also TMGB, TBB.

Grounding Equalizer (GE)
A 6AWG conductor that connects multiple telecommunications bonding backbones (TBB's) in a multistory building. The GE reduces potential differences between TBB's.

Ground Loop
Ground current induced by voltage differences between grounding points. A ground loop represents poor grounding practice and can cause interference in a LAN.

Headroom
A measure in decibels of the amount in which a communications system exceeds the specified performance limits.

Home Run
A pathway or cable without any splices or intermediate termination points.

Horizontal Cabling
The cabling from the horizontal cross connect in the TR to the work area outlet.

Horizontal Cross Connect (HC)
A connection point in the TR where the horizontal cabling joins to the backbone cabling using patch cords.

Hybrid Cable
A single sheath cable containing any combination of UTP, fiber or coax.

Impedance
The total opposition to flow of alternating current by resistive, capacitive, and inductive elements, expressed in ohms.

Innerduct
A non-metallic flexible round conduit that is installed within larger pathways.

Insertion Loss
The decibel reduction (attenuation) in received signal power through a mated connector pair or cable link.

Interconnection
The direct connection between horizontal distribution cables, typically by punch-down, without using patch cords. Interconnections are used mostly in consolidation points.

Intermediate Cross Connect (IC)
A cross connect between the first and second level backbone cabling.

Internet Protocol (IP)
Software in the network layer that tracks device address, routes outgoing messages, and recognizes incoming messages. See TCP/IP and OSI Model.

Interoperability
The ability of equipment from several vendors to function seamlessly together using a common set of protocols.

ISDN (Integrated Services Digital Network)
A digital communications facility that provides end-to-end voice/data and video/audio over a public switched telephone network (PSTN).

Jack
The female connector of a plug/jack mated pair. A jack is used in the work area outlet.

Jumper
A twisted pair cable segment without connectors. Contrast with Patch Cord.

LAN (Local Area Network)
A non-public data communications network confined to a limited geographic area, with customer-owned servers and peripherals.

LC Connector
A single channel fiber small form factor connector (SFF) with a 1.25mm diameter ferrule.

LED (Light Emitting Diode)
A semiconductor diode that transforms an electronic input signal to an incoherent photonic output. LED's are use for multimode systems.

Luminance
The measurable intensity, or brightness information portion of a video signal. See also Chrominance.

Main Cross Connect (MC)
The primary cross connection point between core network equipment cables, first level backbone and entrance cables.

Metropolitan Area Network (MAN)
A data communications network spanning a geographical area the size of a large city. See also Wide Area Network (WAN).

Microbend
A microscopic bend in an optical fiber that causes optical signal loss and distortion. A microbend can cause fiber breakage over time.

Micron (mm)
One micron is equal to one millionth of a meter. Optical fiber is measured in microns.

Microwave
Electromagnetic waves in the range of 1 to 30 GHz, used for wireless voice, data and video transmission in a linear path through the atmosphere, or hard-wired through coaxial cable.

Mission Critical
With regard to a data network, Mission Critical is the reliable delivery of long-term uninterrupted service, at stated performance levels, to assure continuous operation of the enterprise critical functions.

MHz (Mega Hertz)
A unit of frequency equal to one million Hertz.

Modal Dispersion
The effect of multimode light pulses traveling in different paths through an optical fiber. High order modes, which travel in the outer core are delayed relative to low order modes that travel faster through the inner core. See Differential Mode Delay.

Mode
A bundle of light rays that travel in one direction. See Multimode and Singlemode.

Multimode Fiber
A large core optical fiber, typically 50 or 62.5 microns, which transmits light in randomly varying internal paths. Contrast with singlemode optical fiber.

MUTOA
Multi-User Telecommunications Outlet Assembly. A multi-port horizontal cabling outlet that serves a group of individual work areas.

Nanometer (nm)
A unit of length equal to one billionth of a meter, typically describing fiber operating wavelengths.

NEXT (Near End Crosstalk)
A measure of unwanted signal coupling from a single pair energized by a transmitter at the near end, into surrounding pairs at the near end relative to transmitter signal level.

Node
A common connection point in a network, such as a Hub.

Nominal Velocity of Propagation (NVP)
The ratio of actual signal speed to the velocity of light in a vacuum.

Ohm (Ω)
A measure of electrical resistance, or impedance such as 75Ω coax cable.

Open Architecture
Computer or network hardware and software that is interoperable across multiple vendors and flexible to permit customization.

Open Office
An open-air floor space of multiple offices (cubicles) separated by moveable partitions.

Open Systems Interconnection (OSI) Reference Model
A seven-layer gateway architecture developed by ISO. The seven layers are: Physical, Data Link, Network, Transport, Session, Presentation, and Application.

Optical Fiber
A continuous round glass medium, typically 125 microns outside diameter, having a core and cladding layer of specific indices of refraction that permit transmission of light waves. See Core, Cladding Multimode Fiber and Singlemode Fiber.

OTDR (Optical Time Domain Reflectometer)
An instrument that transmits signal and measures back-reflected signal to characterize faults along an optical fiber, such as splices, mated pairs, microbends or fiber breaks.

Outlet (Telecommunications)
A connecting device, typically in a wall or partition, that provides a connection point between the work area cord and the horizontal cabling.

Outside Plant (OSP)
Telecommunications cabling and equipment from the Local Exchange Carrier (LEC) or interbuilding backbone cabling that is physically located outside, either underground, aerial, or wireless towers.

Packet
A bundle of data in binary form, organized for transmission. A packet consists of: 1) a header for control and address information, 2) Text (or payload), and 3) a trailer for error correction and detection.

Patch Panel
A multi-port cross connect field of connectors that facilitates administration, and moves, adds, or changes (MAC's).

Patch Cord
A length of cable with a plug connector on each end. Contrast with Jumper.

Pathway
An open or closed channel, such as a conduit or wire tray, which is used for routing, distribution, and protection of telecommunications cables.

Permanent Link
An installed segment of horizontal or backbone cable having connecting hardware on each end.

Physical Layer
The lowest level in the OSI model, that which includes the mechanical connection of devices to the transmission medium to gain physical access to the LAN.

Plenum Cable
A cable with low smoke insulation that is suitable for placement in air handling spaces.

Plug
The male version of a cable connector, typically mounted to a patch cord or fiber backbone behind the patch panel.

Port
A physical connection node to a network, either in the equipment or in the LAN cabling.

Poke Through System
See Fire-Rated Poke-Through.

Polarity
The designation of positive and negative in electrical terms, or the distinction between transmit (Tx) or receive (Rx) in telecommunications. Polarity is typically color coded or marked on the hardware.

Power Budget
The difference between optical transmitter power and receiver sensitivity in dB.

Private Branch Exchange (PBX)
A customer-owned premises telephone switching console for internal routing of phone calls received from one or more outside lines.

Propagation Delay
The elapsed time it takes for a signal to travel from the transmitter to the receiver. Expressed as a fraction of the speed of light in a vacuum. See Delay Skew.

PSAACRF (Power Sum Attenuation to Alien Crosstalk ratio, Far-End)
The difference in dB between the PSAFEXT from multiple disturbing pairs and the insertion loss of a disturbed pair within a surrounding link or channel.

PSACR (Power Sum Attenuation to Crosstalk Ratio)
A computation by subtracting pair insertion loss (attenuation) from the power sum near end crosstalk value. See PSNEXT.

PSAFEXT (Power Sum Alien Far-End Crosstalk)
The power sum signal coupling from multiple disturbing pairs to a disturbed pair within a surrounding link or channel, measured at the far end.

PSANEXT (Power Sum Alien Near-End Crosstalk)
The power sum signal coupling from multiple disturbing pairs to a disturbed pair within a surrounding link or channel, measured at the near end.

PSNEXT (Power Sum Near End Crosstalk)
A measure of unwanted signal coupling into a single pair at the near end from all other surrounding pairs energized by transmitters at the near end. See NEXT.

PSELFEXT (Power Sum Equal Level Far End Crosstalk)
A measure of unwanted signal coupling into a single pair at the far end from all other surrounding pairs energized by transmitters at the near end, normalized by the insertion loss of the pair.

Pull Box
An in-line conduit or raceway box with an access cover to facilitate cable feed through corners and bends.

Rack Unit (RU)
An increment of vertical rack space. 1 RU is equal to 1.75 inches.

Raised Floor
A modular floor constructed over a concrete base having posts, stringers and removable plates for access to the space below. Also referred to as an access floor.

RCDD
Registered Communications Distribution Designer. A professional certification granted by BICSI that is base on experience, credentials, and passing an exam.

Refractive Index
The ratio of velocity of light in a medium to the velocity of light in a vacuum. A property of the core and cladding of an optical fiber. Also referred to as index of refraction.

Return Loss
The measure of back-reflected signal intensity in copper or fiber transmission line.

RFI (Radio Frequency Interference)
Electromagnetic interference at radio frequencies, typically between 500 kHz and 30 GHz. See EMI.

RGB (Red-Green-Blue)
The three primary colors used in component video signal processing.

Riser Cable
Cable that is rated for vertical applications, such as high strength backbone.

Router
An intelligent, multi-protocol, central network switching device that monitors, processes, and directs data traffic among multiple LANs, MANs or WANs. Contrast with Hub, which is a non-intelligent device.

SC Connector
A single channel push-pull type fiber connector with a 2.5mm diameter ferrule. Also referred to as 568SC or subscriber channel connector. Duplexing needs a separate clip.

Shielded Twisted Pair Cable (STP and ScTP)
A balanced twisted pair cable with an overall metal shield for EMI/RFI immunity. STP uses a foil shield, and ScTP uses a perforated metal screen shield.

Server
A high-capacity client-shared computer that functions as the central core of a network. The server holds the network operating system, e-mail, shared files, and programs.

Service Entrance
The location where the service provider's cabling enters the building. See Entrance Facility.

Service Loop
Excess cable supplied in a channel that is stored in a coil for future needs

Signal-to-Noise Ratio (SNR)
The ratio of signal power to noise power level in dB. See Noise.

Simplex
Transmission in one direction through a single channel.

Singlemode Optical Fiber
A 8-9 micron core optical fiber which transmits light only in a single axial direction, achieving very high bandwidth over 20 GHz.

Sleeve/Slot
Large circular or rectangular openings through walls, ceilings, or floors to allow passage of cables, conduit, and innerduct.

Splitter
A passive device used to divide a signal into two or more output signals.

ST Connector
A single channel, "straight tip" fiber connector, developed by AT&T, with a bayonet style coupling nut, having a 2.5mm ferrule diameter.

Star Topology
A network configuration where all workstations are cabled individually from a horizontal cross-connect (HC), and all HC's are cabled individually from the main cross-connect (MC), thus forming a star pattern. This is practice is recommended by BICSI and TIA.

Surface Raceway
A visible enclosed cable pathway that typically runs along exposed walls or ceilings.

Surge Suppression
The isolation and diversion of transient voltage surges, which are harmful to electronic equipment.

T1 Line
A digital transmission line operating at a rate of 1.544 Mbps (24 voice channels). This is the DS1 level in the TDM digital hierarchy. See also DS0, DS1, and TDM.

Tap
An electrical connection into a bus or trunk line, such as a drop cable to a workstation.

TBB (Telecommunications Bonding Backbone)
A distributed infrastructure 6AWG or larger copper conductor that interconnects all TGB's to the TMGB in a building. See TGB and TMGB.

TCP/IP
Transmission Control Protocol/Internet Protocol. A standard client-server network connectivity protocol that is supported by most LAN/WAN operating systems.

TDR (Time Domain Reflectometer)
An instrument that transmits a signal and measures back-reflected signal to characterize faults along a transmission line. See also OTDR.

Telecommunications Room (TR)
An enclosed building space for housing telecommunications equipment, cable terminations, and cross-connect cabling. A TR serves a single floor in a building.

TGB (Telecommunications Grounding Busbar)
A pre-drilled solid copper bar that is bonded to the TBB, and serves as the common grounding point for electronic equipment and cabling hardware within a TR or ER.

TIA (Telecommunications Industry Association)
An organization of telecommunications industry professionals that publishes standards jointly with ANSI and EIA, through an industry-wide balloting process.

Tight Buffer Cable
An indoor multi-fiber cable with each individual fiber having a 900 micron jacket applied tightly over the acrylate coating.

Tip and Ring
An old telephony term synonymous to "plus and minus". Derived from switchboard cord plugs, where the tip wire is positive and ring wire is negative.

Terminal
An access node through which Date Terminal equipment (DTE) is connected, allowing data to flow into or out of a telecommunications network.

TMGB (Telecommunications Main Grounding Busbar)
A pre-drilled solid copper bar that is bonded to the primary grounding electrode conductor in the electrical service entrance facility. The TBB connects to the TMGB.

Token
A specific combination of bits to be used in a LAN to grant transmit privileges through a ring network. The token circulates continuously through the ring.

Token Ring Topology
A closed loop daisy chain network configuration where data traffic must flow through adjacent equipment in either direction to reach the server.

Topology
The physical or logical arrangement or mapping of a telecommunications network, such as a bus, star, or ring topology.

Transmitter
An active device that emits a pulsed electronic or optical signal into a transmission media.

TSB (Telecommunications System Bulletin)
An interim standards document published by the TIA, which describes new specifications and procedures to be incorporated in the next revision of the affected standard.

Twisted Pair Cable
See Balanced UTP Cable.

USOC (Universal Service Ordering Code)
An FCC-governed series of registered jack (RJ) wiring configurations that connect the customer premises equipment to the public network.

UTP (Unshielded Twisted Pair)
See Balanced UTP cable.

VCSEL (Vertical Cavity Surface Emitting Laser)
A small laser that emits a coherent beam of optical power at 850nm in a vertical direction from the active surface. VCSEL's are used for Gigabit Ethernet over multi-mode fiber.

VLAN (Virtual LAN)
The logical grouping of network devices into sub-networks using switching technology, to improve data traffic flow or security.

Video Signal
Transmission of moving frames of pictures in a frequency range of 1 to 6 MHz.

Video Compression
The conversion of analog video to a digital format, which can be transmitted as a T1 signal at 1.544 Mbps. Higher compression can transmit at lower bit rates down to 128 Kbps.

Visual Fault Locator
A fiber optic light source that emits high power red light at 650nm. Used to illuminate fibers in a cable. A broken fiber will emit a red glow through the buffer layer.

Voice Over Internet Protocol (VOIP)
The technology of processing and combining voice signals with packet transmission using TCP/IP. Analog voice signals are converted to packets and merged with internet traffic.

WAN (Wide Area Network)
A telecommunications network that extends beyond the metropolitan area, and may span international distances via satellite or undersea cabling.

WDM (Wavelength Division Multiplexing)
The combining of multiple optical channels at different wavelengths into a single multi-wavelength channel. WDM increases the capacity of a single fiber channel.

WiFi (Wireless Fidelity)
Synonymous to HiFi, describing audio equipment. WiFi is another term to describe a wireless LAN, operating under the IEEE 802.11 standard at 2.4 GHz.

WLAN (Wireless Local Area Network)
A LAN with no wire infrastructure that operates on RF transceivers. Typically used for rapid deployment in temporary situations. WLAN transmission is not as fast as wired networks, and is affected by obstructions and interference.

Wire Map Test
A measure of continuity of all pin/pair combinations in a cabled link or channel.

Work Area (Work station)
The building space where the user interacts with telecommunications terminal equipment, which is connected to the work area outlet.

Zone Cabling
A cable distribution from the horizontal cross connect to an open office area (zone) utilizing a consolidation point or MUTOA.

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