

INCLUDING NEW PRODUCTS & SERVICES

CAT. 224



Structured Cabling & Telephone Products

Distributed exclusively by

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works to your advantage

ALLEN TEL PRODUCTS, INC.

THE PROFESSIONAL'S CHOICE



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The Professional's Choice — Products

Standards-based
Channel performance tested with leading cable manufacturers
Proven reliability and cost effectiveness

The Professional's Choice — Service

Manufacturing, R&D, technical support and customer service
Focused and dedicated to the telecommunications industry since 1952
Innovative custom engineering and manufacturing

The Professional's Choice — Logistics

Graybar - best of class distribution and supply chain services
Local inventories in over 240 U.S. locations
"Works to your advantage"

The Professional's Choice — Results

Quality. Performance. Reliability. Dedication. Value.
When you need to choose the best standards-compliant structured cabling or telephone solutions — choose Allen Tel Products.


GraybaR
works to your advantage

TELECOMMUNICATIONS
TIA
INDUSTRY ASSOCIATION

RoHS
Compliant



Table of Contents

New Products and Services - Fiber Cabinets 10Gb • And more	Page 2	New Products
Modules - Jacks • Inserts	Page 6	Modules Jacks • Inserts
Work Area Outlets - Commercial • Residential	Page 13	Work Area Outlets Commercial • Residential
Telecom Room - Copper Patch Panels & 110 Systems Fiber Optic Cabinets • Installation Products	Page 29	Telecom Room
Patch Cords - Copper • Fiber	Page 42	Patch Cords Copper • Fiber
Video & Coax	Page 50	Video & Coax
Telephones - Emergency • Elevator/Hall • Outdoor	Page 60	Telephones Emergency • Elevator/Hall • Outdoor
ADA Telephones	Page 77	ADA Telephones
Telephone Accessories	Page 80	Telephone Accessories
Data Accessories	Page 92	Data Accessories
Technical	Page 99	Technical
Glossary	Page 111	Glossary
Index	Page 117	Index

New Products

Our customers remain the best source for recommending new products and services. Here are some examples of recent additions at Allen Tel

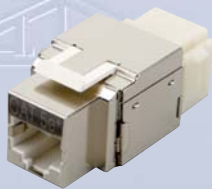
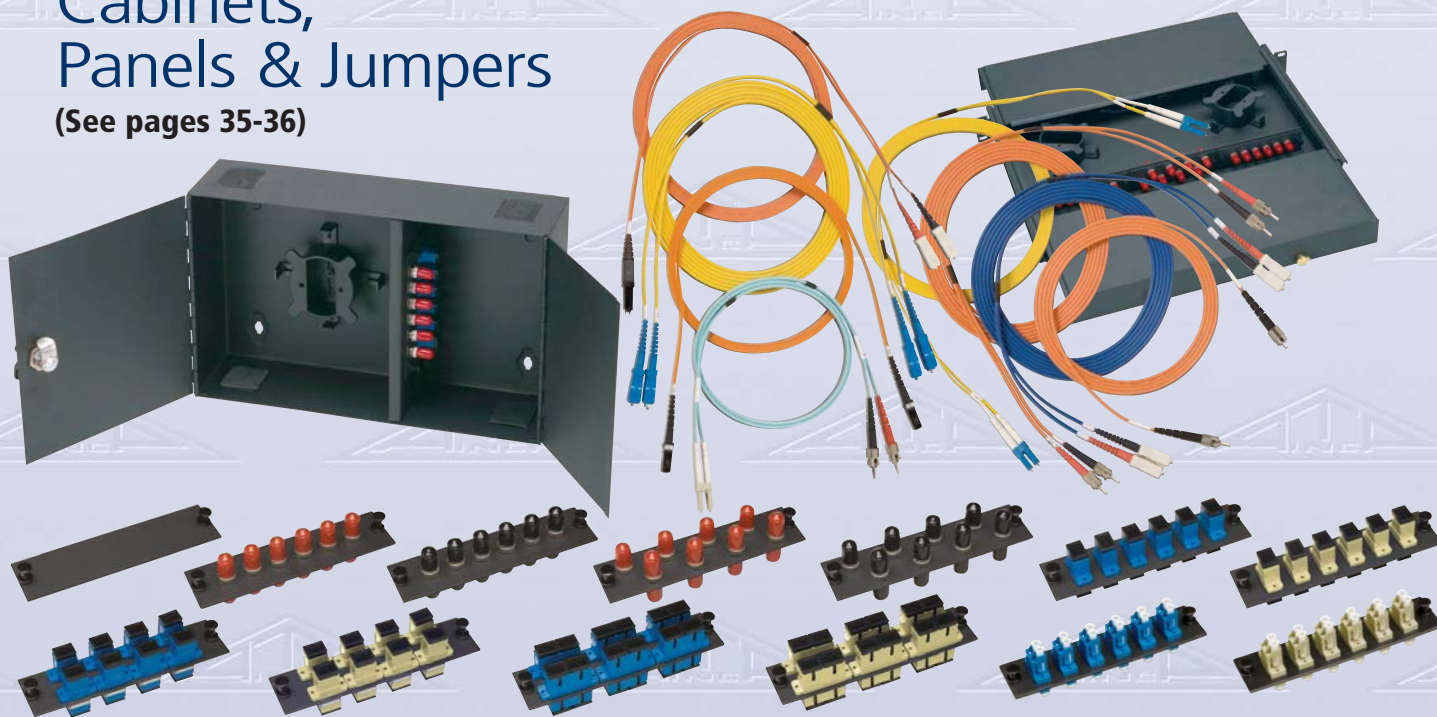
10Gb Category 6A Solutions

(See pages 7, 30, 43, 45)



Fiber Optic Cabinets, Panels & Jumpers

(See pages 35-36)



Cat 5e
Shielded High
Density Jacks
(See page 8)



Ivory
70-Series
Faceplates
(See page 14)



6 Port
Surface
Mount Boxes
(See page 16)

and Services

Allen Tel Test Lab

Allen Tel is committed to standards-based interoperability, allowing customers the choice they require in their structured cabling systems.

Conducted by RCDD-certified structured cabling specialists, Allen Tel utilizes state-of-the-art test equipment to ensure that our products exceed industry standards. Copper and fiber products are regularly tested for channel performance with the industry's leading cable manufacturers.



Quality Control

Quality control has long been imperative at Allen Tel. Our full line of telephone solutions are routinely tested for quality assurance.

RoHS Compliant Products

Allen Tel Products, in concert with our raw-materials suppliers, has certified the vast majority of our products as compliant with RoHS requirements. A complete list is available online at www.allentel.com.

All the regular products and services which have been part of Allen Tel's legacy since 1952 are always available. Call us whenever customized design, engineering, manufacturing, kitting, etc. are required.


ALLEN TEL PRODUCTS, INC.
The Professional's Choice.

New
Products

Modules
Jacks • Inserts

Work Area
Outlets
Commercial • Residential

Telecom
Room

Patch Cords
Copper • Fiber

Video &
Coax

Telephones
Emergency • Electric • Hall • Outdoor

ADA
Telephones

Telephone
Accessories

Data
Accessories

Technical

Glossary

Index

Network Connectivity Products

Allen Tel Products, Inc. is a leading manufacturer of standards-based structured cabling products to worldwide markets, serving the telecommunications industry since 1952. From engineering to finished goods, Allen Tel provides real solutions for every bit of voice/data.

Designed to Perform

We offer a comprehensive line of specification grade copper and fiber solutions for multimedia network connectivity applications. All of our products are designed to provide quality performance and installation ease, resulting in interoperable, cost-effective, reliable solutions.

Channel Performance Testing

Products are regularly tested in-house and at independent labs to assure performance with the widest range of interoperable solutions.

Product Features

- Modular Design
- Multimedia Applications
- High Quality and Reliability
- Increased Performance
- Versatility
- Meets and Exceeds TIA/EIA Standards
- Custom Kits and Packaging Available

"Our goal is to continue expanding product offerings and capabilities while providing the highest standard of quality and service to all our customers."

- Contractor
- Industrial
- Building Automation
- Commercial
- Service Provider / Telephone Companies
- Residential
- Utilities
- Government



Certified Installer Program



Product Performance

Allen Tel Products, Inc. Certified Installer Program was created to provide the end user with additional assurance of product performance and integrity of the installation.

Training & Support

The Installer Program provides professional design and installation companies with the necessary training and support required to install and maintain Allen Tel connectivity solutions. Installation of Allen Tel connectivity products will meet or exceed applicable performance requirements as defined in the current TIA/EIA industry standards.

The Allen Tel Products, Inc. Certified Installer Program offers the following overview for participating contractors:

- Current TIA/EIA Standards
- Tested with the Industry's leading Cable Partners
- Hands-on Product Training
- Profitability Advantage
- 25 Year Performance Warranty
- BICSI Continuing Education Credits
- RCDD on Staff

New
Products

Modules
Jacks • Inserts

Work Area
Outlets
Commercial • Residential

Telecom
Room

Patch Cords
Copper • Fiber

Video &
Coax

Telephones
Emergency • Elevator • Hall • Outdoor

ADA
Telephones

Telephone
Accessories

Data
Accessories

Technical

Glossary

Index

Versatap Modular System



Designed to Perform

Allen Tel Products, Inc. offers a complete solution of high performance communication modules for copper, fiber and CATV/Video applications. Our Versatap modular products are designed for maximum performance, interoperability, reliability and ease of installation.

Channel Performance Testing

Products are regularly tested in-house and at independent test labs to exceed TIA/EIA Cat 5e and Cat 6 channel performance with leading cable manufacturers.

Product Features:

- Modules are interchangeable with all Allen Tel Versatap products
- Modules are available for Hi-Density and shielded applications
- Cat 5e, Cat 6 and Cat 6A Jack modules feature angled IDCs for a stronger connection and performance reliability
- RCA and Video Modules are available in coupler and punchdown configurations

Versatap modules include Category 3, 5e, 6 and 6A Jacks. CATV / Video adapter modules are designed for BNC, RCA, S-Video and In-line coupler (F-connector) applications. Fiber modules include SC, ST, MTRJ and LC adapters.

10 Gb Cat 6A Jack Module.....	Page 7	Versatap RCA 110 Punchdown Modules	Page 10
Cat 6 High Density Jack Module	Page 7	S-Video Punchdown Modules	Page 10
Cat 6 Shielded High Density Jack Module.....	Page 7	SC Fiber Adapter.....	Page 10
Cat 6 Coupler	Page 7	LC Fiber Adapter	Page 11
Cat 5e High Density Jack Module	Page 8	MTRJ Fiber Adapter	Page 11
Cat 5e Jack Module	Page 8	ST Fiber Adapter	Page 11
Cat 5e Shielded High Density Jack Module....	Page 8	Versatap Blank Module	Page 11
Cat 5e Shielded Jack Module	Page 8	Versatap Coupler Insert.....	Page 11
Cat 5e Coupler	Page 8	RCA Coupler.....	Page 12
Cat 3 Jack Module	Page 9	RCA Connector.....	Page 12
Cat 3 Compact Jack Module.....	Page 9	Termination Tools.....	Page 12
Versatap BNC Coax Coupler Modules.....	Page 10	Versatap Terminating Palm Tool	Page 12
Versatap F-Connector Module	Page 10	Impact Tools	Page 12

Modules

10Gb Cat 6A Jack Module

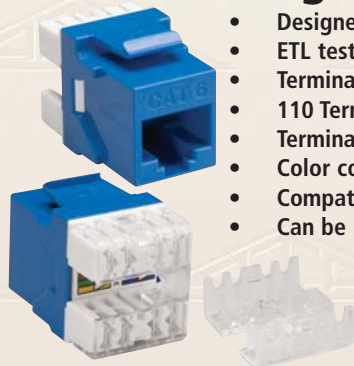


- Designed to exceed TIA/EIA-568-B.2-10 Category 6A standard
- Tested and approved for Category 6A channel compliance
- Terminates 4-pair UTP cable in accordance with TIA/EIA-568-B.2-10
- IDC termination body provides excellent strain relief, ensures proper twist requirements and securely retains wires
- Metallic cap provides required ANEXT protection
- Color-coded for T568A and T568B wiring schemes
- Compatible with Versatap modular patch panels, faceplates and surface mount boxes
- Termination instructions with each jack
- 10Gb Cat 6A patch panels on page 30; patch cords on page 43

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT10G-XX	10Gb Category 6A Jack Module	1	50

XX Colors: 00-Black; 04-Yellow; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red; 52-El Ivory

Cat 6 High Density Jack Module



- Designed to exceed TIA/EIA-568-B.2-1 Category 6 standard
- ETL tested and approved for Category 6 channel compliance
- Terminates 4-pair 22 thru 26 AWG unshielded twisted pair cable
- 110 Termination
- Termination cap provides excellent strain relief, helps control cable bend radius and securely retains wires
- Color coded for T568A and T568B wiring schemes
- Compatible with Versatap modular patch panels, faceplates and surface mount boxes
- Can be re-terminated

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66-XX	Category 6, 8 pos., 8 cond. Jack Module	1	50

XX Colors: 00-Black; 04-Yellow; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red; 52-El Ivory

Cat 6 Shielded High Density Jack Module



- Designed to exceed TIA/EIA-568-B.2-1 Category 6 standard
- Meets TIA/EIA shielding effectiveness requirement
- Terminates 4-pair 22 thru 26 AWG twisted pair cable
- Termination cap provides excellent strain relief, helps control cable bend radius and securely retains wires
- Compatible with Versatap modular patch panels, faceplates and boxes except AT33 surface jack housings
- Can be re-terminated

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66SH	Category 6, 8 pos., 8 cond. Jack Module with shield	1	50

Cat 6 Coupler



- Designed for ATPNL Series of Versatap Patch Panels
- Wired pin to pin
- Black housing

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66C-00	Category 6 Coupler	1	100

Will not fit Versatap Surface Mounting Boxes or Angled Versatap Faceplates

Modules

Cat 5e High Density Jack Module



- Exceeds TIA/EIA-568-B Category 5e standard
- ETL tested and approved for Category 5e channel compliance
- Terminates 4-pair 22 thru 26 AWG unshielded twisted pair
- 110 Termination
- Compatible with Versatap modular patch panels (ATPNL-XX Series, page 32), faceplates and surface mount boxes
- Color coded for T568A and T568B wiring schemes
- Can be re-terminated

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT65-XX	Category 5e, 8 pos., 8 cond. Jack Module	1	50

XX Colors: 00-Black; 04-Yellow; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red; 52-El Ivory

Cat 5e Jack Module



- Exceeds TIA/EIA-568-B Category 5e standard
- ETL tested and approved for Category 5e channel compliance
- Terminates 4-pair 22 thru 26 AWG unshielded twisted pair cable
- Termination cap provides excellent strain relief, helps control cable bend radius and securely retains wires
- Color coded for T568A and T568B wiring schemes
- Compatible with Versatap modular patch panels, faceplates and surface mount boxes
- Can be re-terminated

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55-XX	Category 5e, 8 pos., 8 cond. Jack Module	1	50

XX Colors: 00-Black; 04-Yellow; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red; 52-El Ivory

Cat 5e Shielded High Density Jack Module



- Designed to exceed TIA/EIA-568-B Category 5e standard
- Meets TIA/EIA shielding effectiveness requirement
- Terminates 4-pair 22 thru 26 AWG twisted pair cable
- Termination cap provides excellent strain relief, helps control cable bend radius and securely retains wires
- Compatible with Versatap modular patch panels, faceplates and boxes except AT33 surface jack housings
- Can be re-terminated

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT65SH	Category 5e, 8 pos., 8 cond. Jack Module with shield	1	50

Cat 5e Shielded Jack Module



- Exceeds TIA/EIA-568-B Category 5e standard
- Meets TIA/EIA shielding effectiveness requirement
- Terminates 4-pair 22 thru 26 AWG twisted pair cable
- Termination cap provides excellent strain relief, helps control cable bend radius and securely retains wires
- Compatible with Versatap modular patch panels, faceplates and boxes except AT33 surface jack housings
- Can be re-terminated

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55SH-09	Category 5e, 8 pos., 8 cond. Jack Module with shield	1	50

Cat 5e Coupler



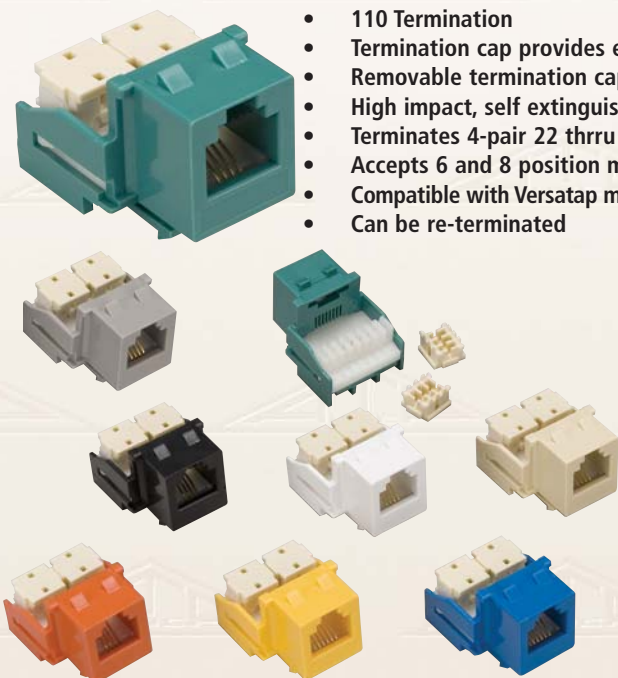
- Designed for ATPNL Series of Versatap Patch Panels
- Wired pin to pin
- Black housing

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55C-00	Category 5e Coupler	1	100

Will not fit Versatap Surface Mounting Boxes or Angled Versatap Faceplates

Modules

Cat 3 Jack Module



- 110 Termination
- Termination cap provides excellent strain relief, helps control cable bend radius and securely retains wires
- Removable termination cap provides easy troubleshooting
- High impact, self extinguishing plastic
- Terminates 4-pair 22 thru 26 AWG solid unshielded twisted pair cable
- Accepts 6 and 8 position modular plugs without damage
- Compatible with Versatap modular patch panels (ATPNL-XX Series, page 32), faceplates and surface mount boxes
- Can be re-terminated

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT34-XX	Category 3, 4 cond. Module	1	100

XX Colors: 00-Black; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT36-XX	Category 3, 6 cond. Module	1	100

XX Colors: 00-Black; 04-Yellow; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT38-XX	Category 3, 8 cond. Module	1	100

XX Colors: 00-Black; 04-Yellow; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue

Cat 3 Compact Jack Module



- 110 Termination
- Narrow housing (.75") provides additional workspace
- Easy wire placement design
- One-piece termination cap reduces termination time and provides easy troubleshooting
- Compatible with Versatap modular patch panels (ATPNL-XX Series, page 32), faceplates and surface mount boxes
- Terminates 4-pair 22 thru 26 AWG unshielded twisted pair
- Accepts 6 and 8 position modular plugs without damage
- Can be re-terminated
- UL approved

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT24-XX	Category 3, 4 cond. Jack Module	1	100

XX Colors: 00-Black; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT26-XX	Category 3, 6 cond. Jack Module	1	100

XX Colors: 00-Black; 04-Yellow; 05-Green; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue; 47-Red

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT28-XX	Category 3, 8 cond. Jack Module	1	100

XX Colors: 00-Black; 09-Ivory; 14-Grey; 15-White; 16-Orange; 20-Blue

Modules

Versatap BNC Coax Coupler Modules



- Accepts BNC plugs
- Compatible with Versatap modular patch panels, faceplates and outlets

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32BB-XX	Module supplied with industry standard 50 ohm BNC coupler	1	100

XX Colors: 09-Ivory; 15-White; 14-Grey

Versatap F-Connector Module



- Perfect for use in CATV applications
- Compatible with Versatap modular patch panels, faceplates and outlets
- Compatible with high density patch panels (See page 33)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32F-XX	Module supplied with industry standard F-Type coupler	1	100

XX Colors: 09-Ivory; 15-White; 14-Grey

Versatap RCA 110 Punchdown Modules

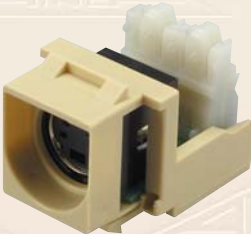


- Terminates 22 thru 26 AWG unshielded twisted pair cable
- Utilize Category 5 or higher network cable facilitating a common, easy and cost effective cabling installation. Only 2 of the 8 network cable conductors need to be terminated per cable
- Includes wire retention cap
- Compatible with Versatap modular patch panels, faceplates and surface mount boxes

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32RCA- 110-XX	RCA connector with 110 termination	1	50

XX Colors: 09-Ivory; 15-White; 52-El Ivory

S-Video Punchdown Modules



- Terminates 22 thru 26 AWG unshielded twisted pair cable
- Utilizes Category 5 or higher network cable facilitating a common, easy and cost effective cabling installation
- Compatible with Versatap modular patch panels, faceplates and surface mount boxes

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32VD-XX	Module supplied with one S-video connector	1	50

XX Colors: 09-Ivory; 15-White; 52-El Ivory

SC Fiber Adapter



- Compatible with Versatap products for complete modularity
- Protective cap fully surrounds split sleeve opening
- Can be used with multimode or single mode jumpers
- Versatap SC Simplex Adapter Modules are commonly used with Versatap Modular Patch Panels

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32SC-XX	Module supplied with one SC simplex fiber optic adapter with zirconia ceramic split sleeve	1	50

XX Colors: 09-Ivory; 15-White; 52-El Ivory

Modules

LC Fiber Adapter



- Compatible with Versatap products for complete modularity
- Can be used with multimode or single mode jumpers
- LC Duplex Adapter Modules are commonly used with Versatap outlets and panels

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32LC-XX	LC multimode duplex fiber optic adapter module	1	100

XX Colors: 09-Ivory; 15-White; 52-El Ivory

MTRJ Fiber Adapter

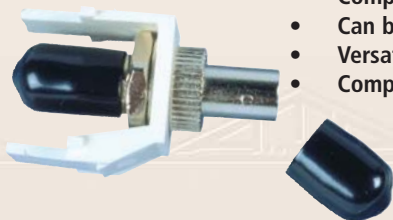


- Compatible with Versatap
- Can be used with multimode or single mode jumpers
- Versatap MT-RJ Duplex Adapter Modules are commonly used with Versatap outlets and panels

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32MTRJ-XX	MT-RJ multimode duplex fiber optic adapter module	1	100

XX Colors: 09-Ivory; 15-White; 52-El Ivory

ST Fiber Adapter



- Compatible with Versatap products for complete modularity
- Can be used with multimode or single mode jumpers
- Versatap Simplex Adapter Modules are commonly used with Versatap outlets and panels
- Compatible with high density patch panels (See page 33)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT31ST-XX	ST multimode simplex fiber optic adapter module	1	100

XX Colors: 09-Ivory; 15-White

Versatap Blank Module



- Fills in openings on outlet to prevent tampering
- Compatible with Versatap modular patch panels, and outlets
- Compatible with high density patch panels (See page 33)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT31-XX	One position, reserves space for future use	5	300

XX Colors: 00-Black; 09-Ivory; 14-Grey; 15-White; 52-El Ivory

Versatap Coupler Insert



- Insert accepts BNC, RCA and ST couplers requiring a 3/8" (0.375") hole
- Compatible with high density patch panels (See page 33)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT31FO-XX	Coupler insert	5	300

XX Colors: 09-Ivory; 15-White

Modules

RCA Coupler



- Compatible with Versatap products for complete modularity
- RCA couplers are commonly used with Versatap outlets and panels
- Compatible with High Density Patch Panels (See Page 33)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32RCA-XX	RCA coupler	1	100

XX Colors: 09-Ivory; 15-White; 52-El Ivory

RCA Connector



- RCA binding post, red and black
- Binding posts are commonly used with Versatap outlets and panels
- Sold in pairs, one red and one black
- Compatible with High Density Patch Panels (See Page 33)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT32RCA-R/B	RCA binding posts Ivory housing	1	100
AT32RCA-R/B-15	RCA binding posts White housing	1	100
AT32RCA-R/B-52	RCA binding posts El Ivory housing	1	100

Termination Tools



- Designed to terminate and cut 2, 3, 4 and 5-pair conductors on 110 type connecting blocks
- Interchangeable handle is ergonomically designed to reduce operator fatigue
- Cutting blade rotates in order to terminate conductors

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT110-5P	5 Pair 110 Termination Tool	1	1
AT110-5PRH	5 Pair Replacement Head	1	1
AT116-4P	4 Pair 110 Cat 6 Termination Tool	1	1
AT116-4PRH	4 Pair Replacement Head	1	1

Versatap Terminating Palm Tool



- Designed to save time and reduce fatigue on hands
- Terminates Versatap Modular Voice and Data Jacks using the AT110 Impact Tool

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT30VC6	Versatap Terminating Palm Tool	1	25

Impact Tools



- Terminations are quick and simple
- Reversible Blade to let you terminate and cut in one stroke or terminate without cutting

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT110	Impact Tool for 110 IDC Termination	1	1
AT110BLD	Replacement 110 Reversible Blade	1	1
AT66	Impact Tool for 66 Clip Termination	1	1
AT66BLD	Replacement 66 Reversible Blade	1	1

Work Area Outlets



Designed for Performance

Allen Tel Products, Inc. offers a complete line of connectivity products which compliment the modern décor of residential and commercial interiors. Our products are designed for maximum performance, reliability and ease of installation.

Product Features:

- Faceplates accept all Versatap modules.
- Mounting boxes and mounting brackets for retrofit and new construction
- Flush and wall mount surface jacks
- Connecting blocks
- Telephone jack assemblies

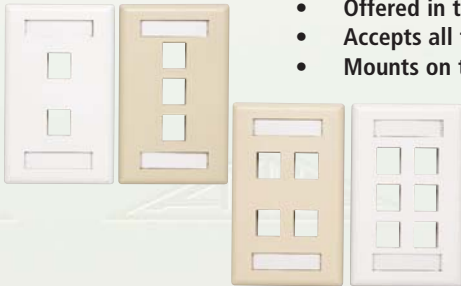
Work area networking demands flexibility, speed and product reliability. Allen Tel Products, Inc. meets that need by providing professional grade products and support.

Versatap Faceplates with I.D. Windows	Page 14
Versatap Faceplates	Page 14
Versatap 12 Port Duplex Faceplate	Page 14
Versatap 45° Angled Faceplates.....	Page 14
ID Labels for Versatap Faceplates.....	Page 15
Versatap Stainless Steel Faceplates	Page 15
Versatap Faceplates for Power or Communications Applications	Page 15
Versatap Duplex Jack Housing for Power or Communications applications	Page 16
Designer Series Faceplates	Page 16
Versatap Surface Mount Boxes	Page 16
Mounting Box	Page 17
Mounting Bracket	Page 17
Surface Mounting Box.....	Page 17
Furniture Faceplate	Page 17
E-Z Jack.....	Page 18
Flush Mount Jack.....	Page 18
Mounting Bracket	Page 18
Flush Mount Wall Jack	Page 18
Flush Mount Smooth Wall Jack	Page 19
Flush Mount Duplex Smooth Wall Jack	Page 19
Flush Mount Wall Jack	Page 19
Round Flush Mount Wall Jack.....	Page 20
Flush Mount Duplex Wall Jack.....	Page 20

Flush Mount IDC Jacks.....	Page 20
Flush Mount Duplex IDC Jacks	Page 21
Outlet Wall Plates	Page 21
Spacer	Page 21
Surface Mount IDC Jacks	Page 21
Surface Mount Duplex IDC Jacks	Page 22
Modular Surface IDC Jacks	Page 22
Modular Surface Jack Screw Terminals	Page 22
Wire Junction Box	Page 23
Surface Jack	Page 23
Surface Jack Cover.....	Page 23
Connecting Block	Page 23
Voice Connecting Block.....	Page 23
Outdoor Weather Resistant Surface Mounted Jack	Page 24
Voice Connecting Block.....	Page 24
Modular Duplex Surface Jack	Page 24
Flush Mount Combination Wall Jack	Page 24
Flush Mount Duplex T.V. Wall Jack	Page 25
Flush Mount T.V. Wall Jack	Page 25
Jack Insert	Page 25
Flush Mount Wall Jack	Page 25
Flush Mount Telephone Wall Jack	Page 26
Wall Telephone Jack	Page 26
VoIP Wall Telephone Faceplate	Page 28

Work Area Outlets

Versatap Faceplates with I.D. Windows

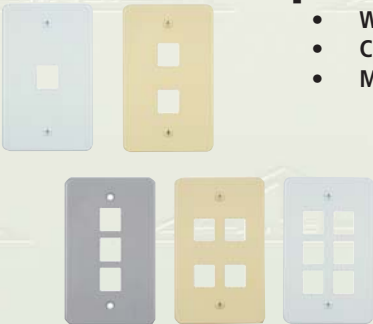


- Designation windows with labels
- Offered in the traditional electrical design
- Accepts all the standard Versatap inserts
- Mounts on the AT625MB series of mounting boxes

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT70-1-XX	1 Port Faceplate	25	200
AT70-2-XX	2 Port Faceplate	25	200
AT70-3-XX	3 Port Faceplate	25	200
AT70-4-XX	4 Port Faceplate	25	200
AT70-6-XX	6 Port Faceplate	25	200

XX Colors: 09-Ivory; 15-White; 52-El Ivory

Versatap Faceplates

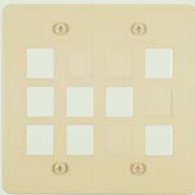


- Will accept all Versatap jack modules
- Constructed of flame retardant UL94V-0 rated material
- Mounts on AT30M series of mounting boxes

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT30-1-XX	1 Port Faceplate	25	200
AT30-2-XX	2 Port Faceplate	25	200
AT30-3-XX	3 Port Faceplate	25	200
AT30-4-XX	4 Port Faceplate	25	200
AT30-6-XX	6 Port Faceplate	25	200

XX Colors: 09-Ivory; 14-Grey; 15-White

Versatap 12 Port Duplex Faceplate



- Furnished with 4 blank inserts
- Mounts on AT45MB series mounting box

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT30D-12-XX	12 Port Duplex Faceplate	1	120

XX Colors: 09-Ivory; 15-White

Versatap 45° Angled Faceplates



- Offers more external protection than traditional faceplates
- Accepts all Versatap modules
- Mounts on the AT30M and AT45MB surface mounting box
- Mounts flush by using the AT90 or AT92 mounting bracket
- The AT45D-8 includes four blank AT31 inserts

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT45S-4-XX	Single gang 4 port faceplate	25	200
AT45D-8-XX	Double gang 8 port faceplate	1	100

XX Colors: 09-Ivory; 15-White

Work Area Outlets

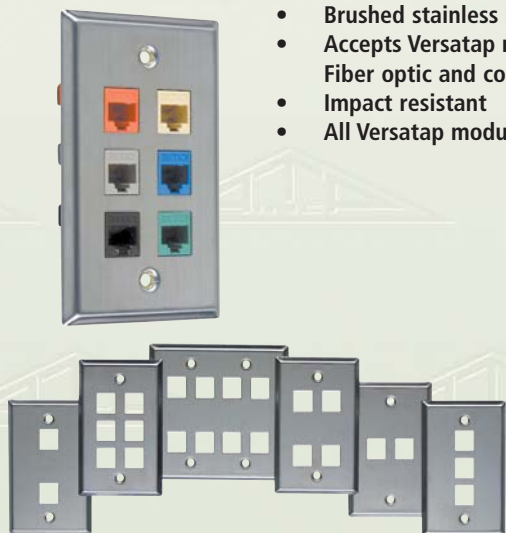
ID Labels for Versatap Faceplates



- Adhesive backed labels for applying to Versatap faceplates to identify circuit assigned to specific Versatap ports

Part Number	Part Description
AT40	Versatap ID Labels

Versatap Stainless Steel Faceplates



- Brushed stainless steel finish
- Accepts Versatap modules for STP and UTP (including Categories 5e, 6 and 6A), Fiber optic and coax, which snap in and out for easy moves, adds and changes
- Impact resistant
- All Versatap modules fit flush on faceplate

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATBKF-VT	Stainless Steel Faceplate 1 port	1	25
ATBKF-VT-2	Stainless Steel Faceplate 2 port	1	25
ATBKF-VT-2H	Stainless Steel Faceplate 2 port horizontal	1	25
ATBKF-VT-3	Stainless Steel Faceplate 3 port	1	25
ATBKF-VT-4	Stainless Steel Faceplate 4 port	1	25
ATBKF-VT-6	Stainless Steel Faceplate 6 port	1	25
ATBKDVF-4	Stainless Steel Double Gang Faceplate 4 port	1	15
ATBKDVF-6	Stainless Steel Double Gang Faceplate 6 port	1	15
ATBKDVF-8	Stainless Steel Double Gang Faceplate 8 port	1	15

Versatap Faceplates for Power or Communications Applications



- Designed for power and communication applications
- Includes mounting screw

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT106P-XX	Single Gang Duplex Faceplate	1	50

XX Colors: 15-White; 52-El Ivory

Work Area Outlets



Versatap Duplex Jack Housing for Power or Communications applications

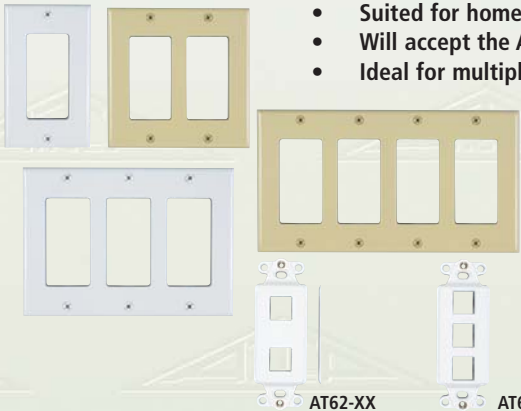
- Accepts all Versatap modules

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT106H-XX	Single Gang Duplex Housing	1	125

XX Colors: 15-White; 52-El Ivory

Designer Series Faceplates

- This series offers the traditional electrical look often requested by the residential market
- Suited for home office environment
- Will accept the AT62 and AT63 Versatap inserts
- Ideal for multiple applications

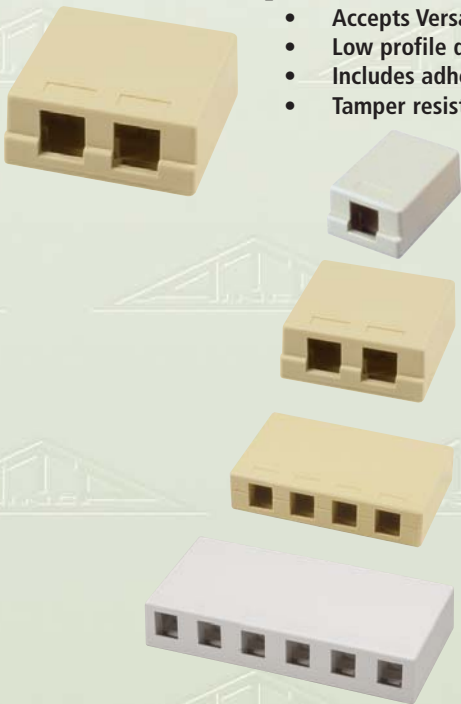


AT62-XX AT63-XX

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT60-1-XX	Single Gang Faceplate	1	50
AT60-2-XX	Double Gang Faceplate	1	25
AT60-3-XX	Three Gang Faceplate	1	15
AT60-4-XX	Four Gang Faceplate	1	15
AT62-XX	Two Port Insert	1	50
AT63-XX	Three Port Insert	1	50

XX Colors: 15-White; 52-El Ivory

Versatap Surface Mount Boxes



- Accepts Versatap modules
- Low profile design
- Includes adhesive mounting tape for installation ease
- Tamper resistant cover

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT33S-XX	Surface mount box accepts one Versatap Module	1	40

XX Colors: 09-Ivory; 14-Grey; 15-White; 52-El Ivory

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT33D-XX	Shuttered surface mount box accepts two Versatap Modules	1	35

XX Colors: 09-Ivory; 15-White; 52-El Ivory

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT44-XX	Shuttered surface mount box accepts four Versatap Modules	1	15

XX Colors: 09-Ivory; 14-Grey; 15-White; 52-El Ivory

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT33-6-XX	Shuttered surface mount box accepts six Versatap Modules	1	15

XX Colors: 09-Ivory; 15-White

Work Area Outlets

Surface Mounting Box



- Accepts AT30 series Versatap single gang faceplates

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT30M-XX	4.5" L x 2.75" W x 1.75" D	1	80

XX Colors: 09-Ivory; 15-White

Double Gang Surface Mounting Box

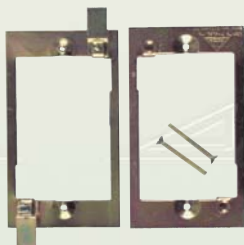


- Accepts Versatap double gang faceplates

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT45MB-XX	4.43" L x 4.562" W x 1.875" D	1	40

XX Colors: 09-Ivory; 15-White

Mounting Bracket



- Used for retrofit or new installation on drywall or wood panel type construction
- Made of .062 inch steel plate with threaded keeper tabs
- For use with low voltage Class 2 devices

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT90	Single Gang Mounting Bracket	125	250
AT92	Duplex Mounting Bracket	85	340
AT93	Three Gang Mounting Bracket	1	60
AT94	Four Gang Mounting Bracket	1	50

Surface Mounting Box



- Mounts over a standard electrical outlet box
- Accepts AT70 series faceplates
- UL Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT625MB	15/16"D x 4 1/2"L x 2 3/4"W Ivory only	1	160
AT625MBD-XX	1 7/8"D x 4 1/2"L x 2 3/4"W	1	80

XX Colors: 09-Ivory; 15-White

Furniture Faceplate



- *Designed for installation in modular furniture
- Accepts AT31-XX, AT65-XX and AT66-XX jack modules
- Easy snap-in installation
- I.D. windows
- UL Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT4FM	4 Port Furniture Faceplate Black for 2.655" x 1.324" openings	1	100

*Fits the following manufacturers:

- Herman Miller
- Haworth
- Steelcase
- Hon
- Knoll-Morrison

Work Area Outlets

E-Z Jack

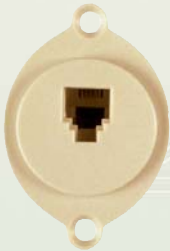


- No need to strip wire
- Jack can be terminated while remaining in protective bag
- Time saving installation
- Inexpensive
- UL Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT316-4-XX	4 Cond., 6 Pos. Flush IDC Jack	25	200
AT316-6-XX	6 Cond., 6 Pos. Flush IDC Jack	25	200
AT317-4-XX	Duplex Flush 4 Cond., 4 Pos. IDC Jack	25	200
AT317-6-XX	Duplex Flush 6 Cond., 6 Pos. IDC Jack	25	200
AT317-6F-XX	6 Cond., 6 Pos. IDC Jack/F-Coax Conn	25	200
AT568-4-XX	4 Cond., 6 Pos. Surface IDC Jack	25	200
AT568-6-XX	6 Cond., 6 Pos. Surface IDC Jack	25	200

XX Colors: 15-White; 52-El Ivory

Flush Mount Jack



- High impact
- Can be flush mounted in a panel or a standard outlet box by using the AT43B bracket
- UL Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT625F-4	4 Cond, 6 Pos. Flush Jack Ivory	50	400

Mounting Bracket



- Designed for flush mounting the AT625F-4 in a standard outlet box

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT43B	Mounting Bracket	1	100

Flush Mount Wall Jack



- Screw type terminal block
- Mounts on AT90 mounting bracket or on standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT216-4	4 Cond., 6 Pos. Jack Ivory	25	200
AT216-4-15	4 Cond., 6 Pos. Jack White	25	200
AT216-6	6 Cond., 6 Pos. Jack Ivory	25	200
AT216-6-15	6 Cond., 6 Pos. Jack White	25	200

Work Area Outlets



Flush Mount Wall Jack

- Same as AT216-4 except larger size
- Designer preferred 3 1/8" W x 4 7/8" H
- Matte-textured ivory faceplate
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT216-4LP	4 Cond., 6 Pos. Flush Ivory Wall Jack	25	200



Flush Mount Smooth Wall Jack

- Smooth faceplate
- Integral jack and screw-type terminal block
- Mounts on AT90 mounting bracket or standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT216SM-4	4 Cond., 6 Pos. Ivory Wall Plate	25	200
AT216SM-4-15	4 Cond., 6 Pos. White Wall Plate	25	200
AT216SM-4-EI	4 Cond., 6 Pos. El Ivory Wall Plate	25	200
AT216SM-6	6 Cond., 6 Pos. Ivory Wall Plate	25	200
AT216SM-6-15	6 Cond., 6 Pos. White Wall Plate	25	200
AT216SM-6-EI	6 Cond., 6 Pos. El Ivory Wall Plate	25	200



Flush Mount Duplex Smooth Wall Jack

- Smooth faceplate
- Two integral jacks and screw-type terminal blocks
- Mounts on AT90 mounting bracket or standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT217SM-4	4 Cond., 6 Pos. Ivory Wall Plate	25	200
AT217SM-4-15	4 Cond., 6 Pos. White Wall Plate	25	200
AT217SM-4-EI	4 Cond., 6 Pos. El Ivory Wall Plate	25	200
AT217SM-6	6 Cond., 6 Pos. Ivory Wall Plate	25	200
AT217SM-6-15	6 Cond., 6 Pos. White Wall Plate	25	200
AT217SM-6-EI	6 Cond., 6 Pos. El Ivory Wall Plate	25	200



Flush Mount Wall Jack

- Consists of an ivory faceplate, AT625F-4 modular jack and AT43B bracket
- Mounts on AT90 mounting bracket or standard electrical outlet box

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT625B-4	4 Cond., 6 Pos. Flush Ivory Wall Jack	25	200

Work Area Outlets

Round Flush Mount Wall Jack



- Round ivory faceplate with integral jack and screw terminals
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT218	4 Cond., 6 Pos. Round Flush Mount Jack	25	200

Flush Mount Duplex Wall Jack



- 2 integral jacks with screw type terminal blocks
- Designed for connecting 2 telephones or auxiliary devices to the same or separate lines
- Mounts on AT90 mounting bracket or standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT217-4	4 Cond., 6 Pos. Duplex Ivory Wall Plate	25	200
AT217-4-15	4 Cond., 6 Pos. Duplex White Wall Plate	25	200
AT217-6	6 Cond., 6 Pos. Duplex Ivory Wall Plate	25	200
AT217-6-15	6 Cond., 6 Pos. Duplex White Wall Plate	25	200
AT217-8	8 Cond., 8 Pos. Duplex Ivory Wall Plate	25	200
AT217-8-15	8 Cond., 8 Pos. Duplex White Wall Plate	25	200

Flush Mount Duplex Wall Jack



- Ivory faceplate with two integral jacks
- One jack is 6 cond., 6 pos. marked "Voice", second jack is 8 cond., 8 pos. marked "Data"
- Screw type connecting block
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT268	6 Cond., 6 Pos.;8 Cond., 8 Pos. Non-keyed Jack	25	200
AT268-K	6 Cond., 6 Pos.;8 Cond., 8 Pos. Keyed Jack	25	200

Flush Mount IDC Jacks

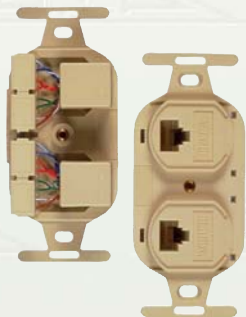


- 110 type insulation displacement connectors
- Mounts on AT105P faceplate or standard electrical wall plate
- Fast and easy installation
- AT105AF is unmarked
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT105AF-15	8 Cond., 8 Pos. Jack White	25	200
AT105AF-52	8 Cond., 8 Pos. Jack El Ivory	25	200

Work Area Outlets

Flush Mount Duplex IDC Jacks



- 110 type insulation displacement connectors
- Mounts on AT106P faceplate or standard electrical wall plate
- Fast and easy installation
- AT106AFD is marked "Line 1 and Line 2"
- AT106BFD and AT107BFD are marked "Voice and Data"
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT106-6-52	2-6 Cond., 6 Pos. Jack El Ivory	25	200
AT106AFD-52	2-8 Cond., 8 Pos. Duplex Jack El Ivory	25	200
AT106BFD-52	2-8 Cond., 8 Pos. 1-Keyed El Ivory	25	200
AT107BFD-15	1-6 Cond., 6 Pos.; 1-8 Cond. 8 Pos. Keyed White	25	200
AT107BFD-52	1-6 Cond., 6 Pos.; 1-8 Cond., 8 Pos. Keyed El Ivory	25	200

Outlet Wall Plates



- The AT105P is designed for the AT105 series IDC jacks
- The AT106P is designed for the AT106 and AT107 IDC flush jacks
- Includes mounting screws
- Constructed of flame retardant plastic meeting UL 94 V.O.

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT105P-15	Single Port Faceplate White	50	400
AT105P-52	Single Port Faceplate El Ivory	50	400
AT106P-15	Duplex Faceplate White	50	400
AT106P-52	Duplex Faceplate El Ivory	50	400

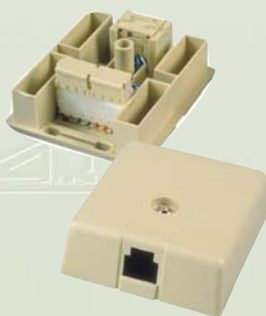
Spacer



- Provides additional work and wiring space between the wall surface and faceplate
- Allows space for cable bend radius

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT221	Spacer Ivory	25	200

Surface Mount IDC Jacks

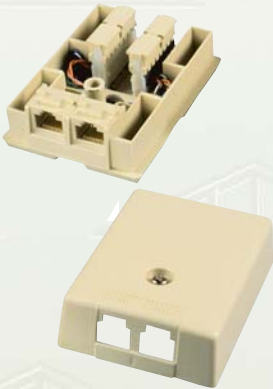


- Provides one voice or data jack mounted in a plastic base with a screw on cover
- 110 Type insulation displacement connector
- Fast and easy installation
- The AT103-6 and AT103A8 are unmarked
- The AT103D8 is marked "Data"
- Includes mounting screws and double-sided tape
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT103-6-52	6 Cond., 6 Pos. El Ivory	20	160
AT103A8-15	8 Cond., 8 Pos. White	20	160
AT103A8-52	8 Cond., 8 Pos. El Ivory	20	160
AT103D8-52	8 Cond., 8 Pos. Keyed El Ivory	20	160

Work Area Outlets

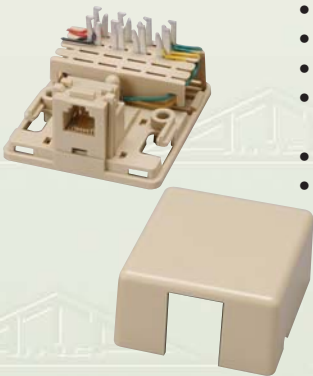
Surface Mount Duplex IDC Jacks



- The 104 and 108 type duplex jacks provide two voice and/or data jacks mounted in a plastic base with a screw on cover
- 110 type insulation displacement connectors
- The AT104-6 and AT104A8 are marked "Line 1 and Line 2"
- The AT104B8 and AT108B are marked "Voice and Data"
- Includes mounting screws and double-sided tape
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT104-6-52	2-6 Cond., 6 Pos. Duplex EI Ivory	20	160
AT104A8-15	2-8 Cond., 8 Pos. Duplex White	20	160
AT104A8-52	2-8 Cond., 8 Pos. Duplex EI Ivory	20	160
AT104B8-52	2-8 Cond., 8 Pos., 1 Keyed EI Ivory	20	160
AT108B-52	1-6 Cond., 6 Pos.; 1-8 Cond., 8 Pos. Keyed EI Ivory	20	160

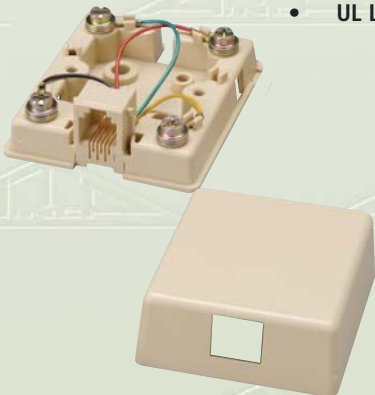
Modular Surface IDC Jacks



- Modular jack wired to 66-type punch down terminals
- AT66 tool used for termination
- Snap-on cover
- The AT625A3-8SB is equipped with shorting bars on pins 1-4 and 5-8 meeting USOC wiring codes RJ31X through RJ38X inclusive
- Includes mounting screws and double-sided tape
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT625A3-4	4 Cond., 6 Pos. Ivory	25	200
AT625A3-6	6 Cond., 6 Pos. Ivory	25	200
AT625A3-8	8 Cond., 8 Pos. Ivory	25	200
AT625A3-8SB	8 Cond., 8 Pos. w/Shorting Bars Ivory	25	200

Modular Surface Jack Screw Terminals

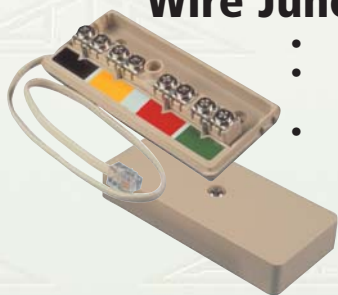


- The 468 type housing provides a 4, 6, or 8 conductor modular jack
- Snap on plastic cover
- Includes mounting screws and double-sided tape
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT468-4	4 Cond., 6 Pos. Ivory	25	200
AT468-4-15	4 Cond., 6 Pos. White	25	200
AT468-4-EI	4 Cond., 6 Pos. EI Ivory	25	200
AT468-6	6 Cond., 6 Pos. Ivory	25	200
AT468-6-15	6 Cond., 6 Pos. White	25	200
AT468-6-EI	6 Cond., 6 Pos. EI Ivory	25	200
AT468-6DEC	6 Cond., 6 Pos. MMJ Ivory	25	200
AT468-8	8 Cond., 8 Pos. Ivory	25	200
AT468-8-15	8 Cond., 8 Pos. White	25	200

Work Area Outlets

Wire Junction Box



- Allows additional extensions to be added to an existing telephone system
- Terminals are a combination screw and insulation displacement so that terminations can be made with or without stripping wires
- Includes mounting screws

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT742A	E/W 4 Cond., 6 Pos. 1 Ft Modular Cord Ivory	1	100
AT742B	Not Equipped with modular cord	1	100

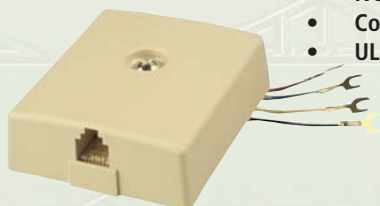
Surface Jack



- Modular jack mounted into an ivory cover and a 42A4 or 42A6 connecting block as appropriate
- Includes mounting screws
- UL and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT214B4	4 Cond., 6 Pos. Surface Jack Ivory	25	200
AT214B6	6 Cond., 6 Pos. Surface Jack Ivory	25	200

Surface Jack Cover



- Ivory cover has integral jack with spade-tipped leads
- Converts existing 42A connecting blocks to modular
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT214C4	4 Cond., 6 Pos. Surface Jack Cover	25	200
AT214C6	6 Cond., 6 Pos. Surface Jack Cover	25	200

Connecting Block



- 4 or 6 terminal connecting block
- Includes cover, terminal screws and washers
- Used primarily to terminate inside wiring telephone cable
- Includes mounting screws
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT42A4	4-Terminal Connecting Block Ivory	50	400
AT42A6	6-Terminal Connecting Block Ivory	50	400

Voice Connecting Block



- For connecting registered voice equipment to the switched network
- Typical use of these blocks is the connection of alarm and automatic dialers, recording equipment, answering machines and facsimile devices
- Includes mounting screws
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT635B (RJ31X-RJ38X)	1-6 Cond., 6 Pos., 1-8 Cond., 8 Pos. with Shorting Bars on Pins 1-4 and 5-8	1	100

Work Area Outlets

Outdoor Weather Resistant Surface Mounted Jack



- High impact grey plastic assembly consisting of a base and cover
- Base provides an integral screw type connecting block and wire entry port weather sealed by a molded neoprene grommet
- The cover with integral jack and spade-tipped leads is provided with a hinged, spring loaded door and neoprene seal
- Includes mounting screws and double-sided tape
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT625WP	6 Cond., 6 Pos. Jack	1	80
AT635WP	8 Cond., 8 Pos. Jack	1	80

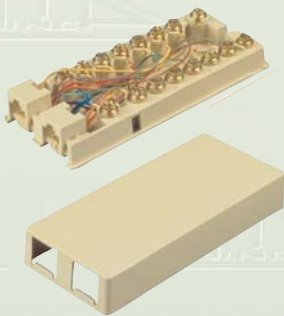
Voice Connecting Block



- Screw terminal base with snap-on cover
- The AT635CX is used on 1.544 Mbps digital services (T1)
- Includes mounting screws and double-sided tape
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT635CX (RJ48X)	8 Cond., 8 Pos., non-Keyed E/W Shorting Bar on Pins 1-4 and 2-5 ASH	40	320
AT635C1 (RJ31X-RJ38X)	8 Cond., 8 Pos. E/W Shorting Bar on Pins 1-4 and 5-8 ASH	40	320
AT635C2	8 Cond., 8 Pos. No Shorting Bar ASH	40	320
AT635C3	8 Cond., 8 Pos. Keyed No Shorting Bar ASH	40	320

Modular Duplex Surface Jack



- Assembly equipped with two modular jacks
- Screw type terminal blocks
- Snap-on cover
- Station wire entry available on one side
- Includes mounting screws and adhesive strip
- Low cost advantage for multi-line home or office installations

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT444	4 Cond., 6 Pos. Duplex Jack Ivory	25	200
AT666	6 Cond., 6 Pos. Duplex Jack Ivory	25	200
AT888	8 Cond., 8 Pos. Duplex Jack Ivory	25	200

Flush Mount Combination Wall Jack



- Contains one 4-conductor, 6-position telephone modular line jack and one F-type in-line splice connector
- Includes mounting screws
- Mounts on a standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1029-4F	Combination Wall Jack Ivory	25	200
AT1029-4F-15	Combination Wall Jack White	25	200

Work Area Outlets

Flush Mount Duplex TV Wall Jack



- Contains two F-type in-line connectors for 75 ohm coaxial cable
- Includes mounting screws
- Mounts on a standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1029-FF	Flush Mount Duplex TV Wall Jack Ivory	25	200

Flush Mount TV Wall Jack



- Contains a single F-type in-line connector for 75 ohm coaxial cable
- Includes mounting screws
- Mounts on a standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1031-F	Flush Mount TV Wall Jack Ivory	25	200
AT1031-F-15	Flush Mount TV Wall Jack White	25	200

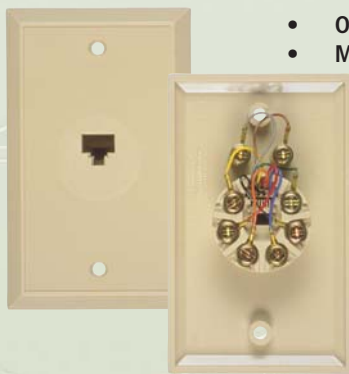
Jack Insert



- AT6-4 converts a 6-position jack to 4-position
- AT8-6 converts an 8-position jack to 6-position

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT6-4	Jack Insert Ivory	10/1000	5000
AT8-6	Jack Insert Ivory	10/1000	5000

Flush Mount Wall Jack



- One Piece 8-conductor jack and faceplate assembly
- Mounts on AT90 mounting bracket or standard electrical outlet box

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT697B-NK	8 Cond., 8 Pos. non-Keyed Jack Ivory	25	200
AT697B-NK-15	8 Cond., 8 Pos. non-Keyed Jack White	25	200

Work Area Outlets

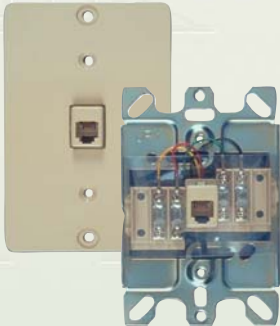
Wall Telephone Jack



- Stainless steel
- Mounts on a standard outlet box
- Insulation piercing terminal block
- Quick connect wire retaining clips
- Terminal block assembly is protected by an insulating plastic cover
- No special tools needed
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT630BNL-4	4 Cond., 6 Pos. Modular Jack Assembly	25	200
AT630BNL-6	6 Cond., 6 Pos. Modular Jack Assembly	25	200

Wall Telephone Jack



- Consists of a plastic faceplate and a screw terminal connecting block
- These universal units may be used as a wall telephone jack or flush mounted jack
- Includes two screw studs for use when used as a wall telephone mounting and two hole plugs when the screw studs are not used
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT630AQB-4	4 Cond., 6 Pos. Wall Telephone Jack ASH	25	200
AT630AQB-6	6 Cond., 6 Pos. Wall Telephone Jack ASH	25	200

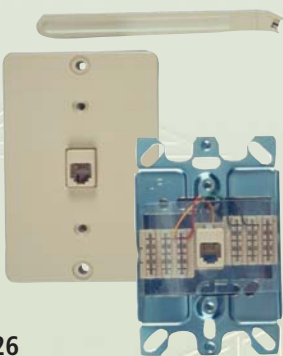
Wall Telephone Jack



- Mounts a modular wall telephone set
- Stainless steel faceplate
- Consists of a steel base with a screw terminal connecting block
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT630A-4	4 Cond., 6 Pos. Wall Telephone Jack	25	200
AT630A-6	6 Cond., 6 Pos. Wall Telephone Jack	25	200

Wall Telephone Jack



- Insulation piercing terminal block enclosed in an insulating plastic sleeve
- These are universal units which can be used as a wall telephone or flush mounted jack
- Includes two screw studs for use when used as a wall telephone mounting and two hole plugs when the screw studs are not used
- Includes AT797A installation tool
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT630ABC-4	4 Cond., 6 Pos. Wall Telephone Jack Ivory	25	200
AT630ABC-4-15	4 Cond., 6 Pos. Wall Telephone Jack White	25	200
AT630ABC-6	6 Cond., 6 Pos. Wall Telephone Jack Ivory	25	200

Work Area Outlets

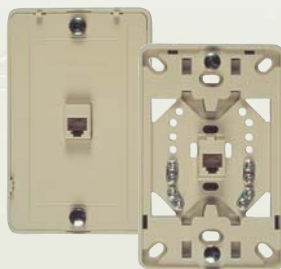
Wall Telephone Jack



- Mounts a modular wall telephone set
- Stainless steel faceplate
- Insulation piercing terminal block enclosed in an insulating plastic sleeve
- Includes AT797A installation tool
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT630AIP-4	4 Cond. Wall Telephone Jack	25	200
AT630AIP-6	6 Cond. Wall Telephone Jack	25	200

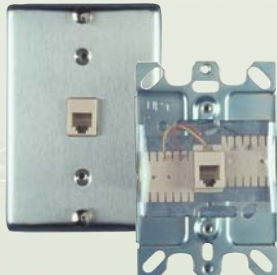
Wall Telephone Jack



- Mounts a modular wall telephone set
- Internal screw-terminal connecting block
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT219-4	4 Cond., 6 Pos. Wall Telephone Jack Ivory	25	200
AT219-4-15	4 Cond., 6 Pos. Wall Telephone Jack White	25	200
AT219-6	6 Cond., 6 Pos. Wall Telephone Jack Ivory	25	200

Wall Telephone Jack



- Mounts a modular wall telephone set
- Stainless steel faceplate
- Insulation piercing terminal block and quick connect wire retaining clips
- Terminal block assembly is protected by an insulating plastic cover
- Includes screws for mounting to a standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT630B-4	4 Cond., 6 Pos. Wall Telephone Jack	25	200
AT630B-6	6 Cond., 6 Pos. Wall Telephone Jack	25	200
AT630B-8	8 Cond., 8 Pos. Wall Telephone Jack	25	200

Wall Telephone Jack



- Universal modular jack assembly can be used to mount a wall telephone or used as a flush mounted wall jack
- Insulation piercing terminal block and quick connect wire retaining clips which hold the conductors in place
- Terminal block assembly is protected by an insulating plastic cover
- Includes two screw studs for use when used as a wall telephone mounting and two hole plugs when the screw studs are not used
- Includes screws for mounting to a standard electrical outlet box
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT630BBC-4	4 Cond., 6 Pos. Wall Telephone Jack Ivory	25	200
AT630BBC-6	6 Cond., 6 Pos. Wall Telephone Jack Ivory	25	200

Work Area Outlets

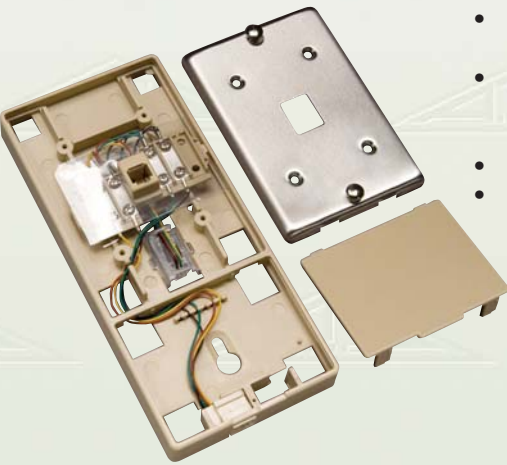
Wall Telephone Jack



- Contains three 4-conductor 6-position modular jacks
- The face of the AT229 provides for the standard mounting of a wall telephone set
- The two side-mounted jacks may be used to connect two additional telephone sets or ancillary devices
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT229	Wall Telephone Jack Ivory	1	150

Wall Telephone Jack



- An assembly designed to mount over and connect to an existing wall telephone jack such as the AT219 or AT630 series of telephone jacks
- The AT631A provides standard wall telephone mounting plus a 4-conductor 6-position module jack in the bottom edge of the faceplate for an additional telephone set or ancillary device
- Ideal for connection to ICLID (caller identification)
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT631A	Wall Telephone Jack Ivory	1	100

VoIP Wall Telephone Faceplate



- Stainless steel faceplate
- Mounts a Cat5e or Cat6 modular jack
- Accommodates any standard wall telephone
- Fast and easy installation
- Compatible with a standard electrical outlet box
- UL Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATBK-VoIP	Stainless Steel VoIP Faceplate	25	200

Telecom Room

Designed for Performance

Allen Tel Products, Inc. offers a complete solution of high performance cross connectivity communication products. Our products provide an interoperable, reliable connection and quality system performance for high-speed multimedia applications.

Channel Performance Testing

Products are regularly tested in-house and at independent test labs to exceed TIA/EIA Cat 5e, Cat 6 and Cat 6A channel performance with leading cable manufacturers.

Product Features:

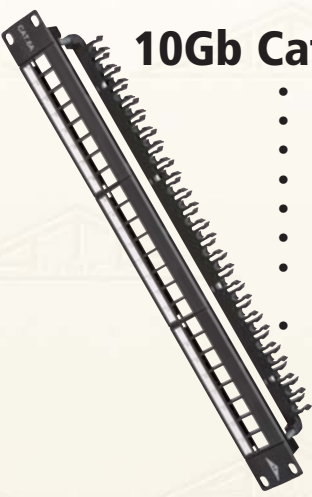
- Fiber Optic Wall and Rack Mount Enclosures and Adapter Panels
- Patch Panels with universal wiring for either T568A or T568B
- Unloaded Patch Panels for multimedia networking modules and system flexibility
- Cable Management Panels and Mounting Brackets
- Category 5E and Category 6 110 Cross Connect products
- Distributing Rings
- Backboards
- Network Media Box

Telecom Room products are designed for ease of installation and performance by supporting the layout of structured cabling systems.

10Gb Category 6A Patch Panel	Page 30
Category 6 Patch Panel	Page 30
Category 6, 12 Port Patch Panel	Page 30
Category 5e Patch Panel	Page 30
Category 5e, 12 Port Patch Panel.....	Page 31
Category 6, 12 Port Patch Box	Page 31
Category 6, 6 Port Patch Box	Page 31
Category 6 Connection Box	Page 31
Category 5e, 12 Port Patch Box	Page 31
Category 5e, 6 Port Patch Box.....	Page 31
Versatap Patch Panels.....	Page 32
Cable Management Panels	Page 32
Cable Support Bar	Page 32
Hinged Wall Mount Brackets	Page 32
High Density Patch Panels.....	Page 33
Category 6 110 System	Page 33

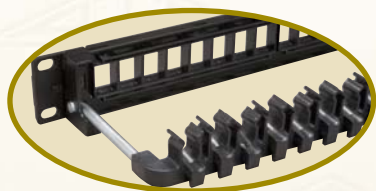
Category 6 110 Patch Cords and Plug Assemblies	Page 33
Category 5e 110 System	Page 34
Category 5e 110 Patch Cords and Plug Assemblies	Page 34
Wall & Rack Mount Fiber Optic Cabinet ...	Page 35
Fiber Optic Panels	Page 36
Backboards.....	Page 37
Distributing Post	Page 40
GB89D Mounting Bracket	Page 40
Distributing Rings	Page 40
Termination Tools	Page 41
Versatap Terminating Palm Tool	Page 41
Impact Tools.....	Page 41
EZY Stick.....	Page 41
Network Media Box.....	Page 41

Telecom Room



10Gb Category 6A Patch Panels

- Designed to exceed TIA/EIA-568-B.2-10 Category 6A standard
- Tested and approved for Category 6A channel compliance
- UL Listed and CSA Listed
- 110 termination on loaded patch panels
- 10Gb Cat 6A patch cords on page 43; jacks on page 7
- Loaded patch panels have universal wiring for either 568A or 568B
- Heavy-duty wire management on AT10GPNL-U24 unloaded patch panel swivels up & down for easier cable management. Designed to support heavier Cat 6A cables
- Panels include mounting hardware, cable ties and identification strip



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT10GPNL-U24	24-port unloaded 10Gb Cat 6A multimedia patch panel*	1	1
AT10GPNL-12	12-port loaded 10Gb Cat 6A patch panel	1	1
AT10GPNL-24	24-port loaded 10Gb Cat 6A patch panel	1	1

* The unloaded patch panel accepts a variety of mulitmedia Versatap jacks: AT66 (Cat 6) & AT65 (Cat 5e) series, AT31ST (Fiber), AT32F (F-connector), AT31FO (Insert for BNC, RCA & ST connectors), AT32RCA (RCA connectors & couplers), and AT31 (Blank).



Category 6 Patch Panels

- Exceeds TIA/EIA Category 6 standards
- ETL tested and approved for Category 6 channel compliance
- Wire management on rear of panel
- Universal wiring for either 568A or 568B
- Includes mounting hardware and cable ties
- UL Listed and CSA Listed
- Identification strips
- 110 termination

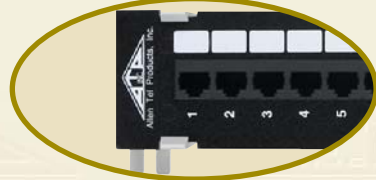


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66-PNL-12	12 Port Cat 6 Patch Panel, 1.75"H, 1 RU	1	15
AT66-PNL-24	24 Port Cat 6 Patch Panel, 1.75"H, 1 RU	1	15
AT66-PNL-48	48 Port Cat 6 Patch Panel, 3.50"H, 2 RU	1	10
AT66-PNL-96	96 Port Cat 6 Patch Panel, 7.00"H, 4 RU	1	5



Category 6, 12 Port Patch Panel

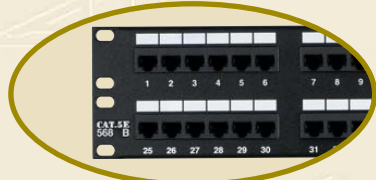
- Designed for small data cross-connect applications
- Equipped with two 6 port Cat6 non-keyed jack modules
- Universal wiring for either 568A or 568B
- Includes GB89D mounting bracket
- UL Listed and CSA Listed
- 110 termination



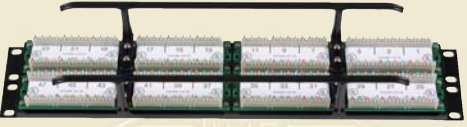
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66-12PT	12 Port Cat 6 Patch Panel	1	18

Category 5e Patch Panels

- Exceeds TIA/EIA Category 5e standard
- ETL tested and approved for Category 5e channel compliance
- Wire management on rear of panel
- Includes AT55CSB cable support bars
- Universal wiring for either 568A or 568B
- UL Listed and CSA Listed
- 110 termination



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55B-PNL-12	12 Port Cat 5e Patch Panel 1.75"H, 1 RU	1	30
AT55B-PNL-24	24 Port Cat 5e Patch Panel 1.75"H, 1 RU	1	15
AT55B-PNL-32	32 Port Cat 5e Patch Panel 3.50"H, 2 RU	1	10
AT55B-PNL-48	48 Port Cat 5e Patch Panel 3.50"H, 2 RU	1	10
AT55B-PNL-64	64 Port Cat 5e Patch Panel 7.00"H, 4 RU	1	5
AT55B-PNL-96	96 Port Cat 5e Patch Panel 7.00"H, 4 RU	1	5



Telecom Room

Category 5e, 12 Port Patch Panel



- Designed for small voice and data cross-connect applications
- Equipped with two 6 port Category 5e non-keyed jack modules
- Universal wiring for either 568A or 568B
- Includes GB89D mounting bracket
- UL Listed and CSA Listed
- 110 Termination

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55B-12PT	12 Port Cat 5e Patch Panel	1	30

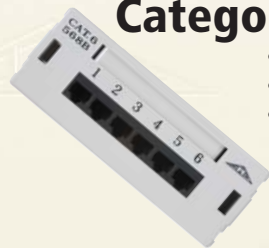
Category 6, 12 Port Patch Box



- 110 Termination
- Multiple cable entries
- Universal wiring for either 568A or 568B
- Designation strips with protective cover
- Includes GB89D mounting bracket
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66-12P	12 Port Cat 6 Patch Box	1	18

Category 6, 6 Port Patch Box



- 110 Termination
- Internal wire management
- Designation strips with protective cover
- Universal wiring for either 568A or 568B
- Includes adhesive tape and mounting screws
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66-6P	6 Port Cat 6 Patch Box	1	70

Category 6 Connection Box



- Meets TIA/EIA Category 6 standards
- 110 Termination
- Economical and easy installation
- Snap-on cover
- Includes double sided tape and two strain relief brackets
- UL Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT66CB-15	Cat 6 Connection Box White	25	200
AT66CB-52	Cat 6 Connection Box El Ivory	25	200

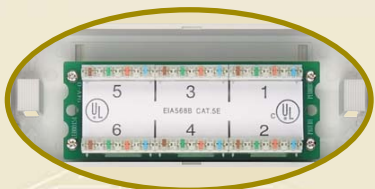
Category 5e, 12 Port Patch Box



- 110 Termination
- Universal wiring for either 568A or 568B
- Multiple cable entries
- ID strips with removable window
- Includes GB89D mounting bracket
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55B-12P	12 Port Cat 5e Patch Box	1	18

Category 5e, 6 Port Patch Box



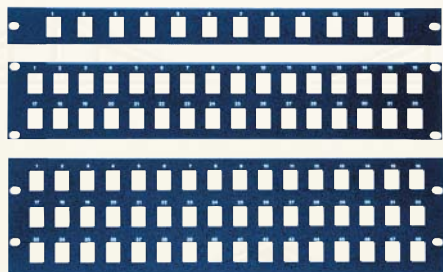
- Meets TIA/EIA Category 5e standard
- 110 Termination
- Universal wiring for either 568A or 568B
- Internal wire management
- Designation strips with protective cover
- Includes adhesive tape & mounting screws
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55B-6P	6 Port Cat 5e Patch Box	1	40

Telecom Room

Versatap Patch Panels

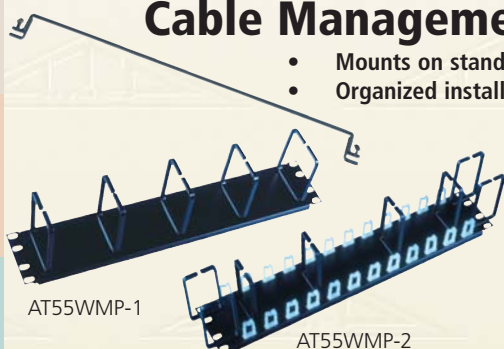
- Designed for all Versatap modules
- Ideal for multimedia installations
- Full flexibility when formulating LANS, cabling systems, data networks and telecommunication panels
- These 19" panels are constructed of 16 gauge metal and finished in textured black baked enamel



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATPNL-12	12 Port 1.7"H, 1 RU	1	1
ATPNL-16	16 Port 1.7"H, 1 RU	1	1
ATPNL-24	24 Port 3.50"H, 2 RU	1	1
ATPNL-32	32 Port 3.50"H, 2 RU	1	1
ATPNL-48	48 Port 5.25"H, 3 RU	1	1
ATPNL-64	64 Port 8.75"H, 5 RU	1	1
ATPNL-96	96 Port 10.5"H, 6 RU	1	1
ATPNL-128	128 Port 14.0"H, 8 RU	1	1

Cable Management Panels

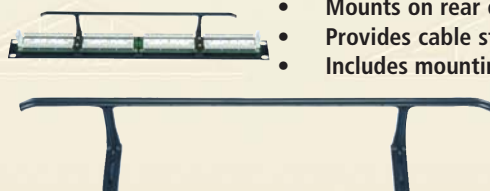
- Mounts on standard 19" rack
- Organized installation for horizontal and vertical routing of patch cables



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55WB	Cable Support Bar 1.5"D	20	120
AT55WMP-1	Wire Management Panel 3.50"H, 2 RU	1	6
AT55WMP-2	Wire Management Panel w/ clips 3.50"H, 2 RU	1	6

Cable Support Bar

- Mounts on rear of AT55 series Cat5e patch panels
- Provides cable strain relief
- Includes mounting screws



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55CSB	Cable Support Bar	1	50

Hinged Wall Mount Brackets

- 19" wall mount hinged brackets, 6" depth
- Does not require free standing rack
- Includes mounting hardware
- EIA standard hole patterns
- 40 lb. load rating



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT55HM-1	Hinged Wall Mount Bracket 1.75"H, 1 RU	1	1
AT55HM-3	Hinged Wall Mount Bracket 3.50"H, 2 RU	1	1
AT55HM-5	Hinged Wall Mount Bracket 5.25"H, 3 RU	1	1
AT55HM-7	Hinged Wall Mount Bracket 7.0"H, 4 RU	1	1
AT55HM-10	Hinged Wall Mount Bracket 10.5"H, 6 RU	1	1

Telecom Room

High Density Patch Panels

- Used in high density wiring applications
- Accepts all ATP high density jacks, plus an array of Versatap multimedia modules
- Includes wire management brackets
- Mounts on 19" rack or AT55HM series hinged wall mount brackets
- Clear covered label field
- UL Listed



ATPNL-HD-24



ATPNL-HDSH-24



ATPNL-HD-48

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATPNL-HD-24	24 port 1 RU High Density Patch Panel w/o jacks	1	1
ATPNL-HD-48	48 port 2 RU High Density Patch Panel w/o jacks	1	1
ATPNL-HDSH-24	24 port 1 RU High Density Shielded Patch Panel w/o jacks	1	1

Category 6 110 System

- 110 Termination
- Exceeds Cat6 TIA/EIA standards
- Rack or wall mount
- Includes designation labels
- Color coded pairs for easy identification and termination
- UL Listed

GB110BA6K-96



GB110BA6-96



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB110BA6K-48	48 Pair Block with legs, includes labels	6	60
GB110BA6K-96	96 Pair Block with legs, includes labels	3	30
GB110BA6K-288	288 Pair Block with legs, includes labels	1	10
GB110BA6-48	48 Pair Low Profile w/o legs, includes labels	40	160
GB110BA6-96	96 Pair Low Profile w/o legs, includes labels	17	68
GB110BA6-288	288 Pair Low Profile w/o legs, includes labels	1	10
GB110BP6W-96	19" 96 Pair Wiring Panel, includes labels, 1 RU	1	10
GB110BP6-96	19" 96 Pair Panel, label holders, wire mgmt, 2 RU	1	15
GB110-C6-4	4 Pair Connector	10	100



GB110BA6K-48



GB110-C6-4



GB110BA6-48

Category 6 110 Patch Cords and Plug Assemblies

- 110 to 110 configuration
- 110 to RJ45 plug configuration
- Wired for T568B wiring scheme (4 pair)

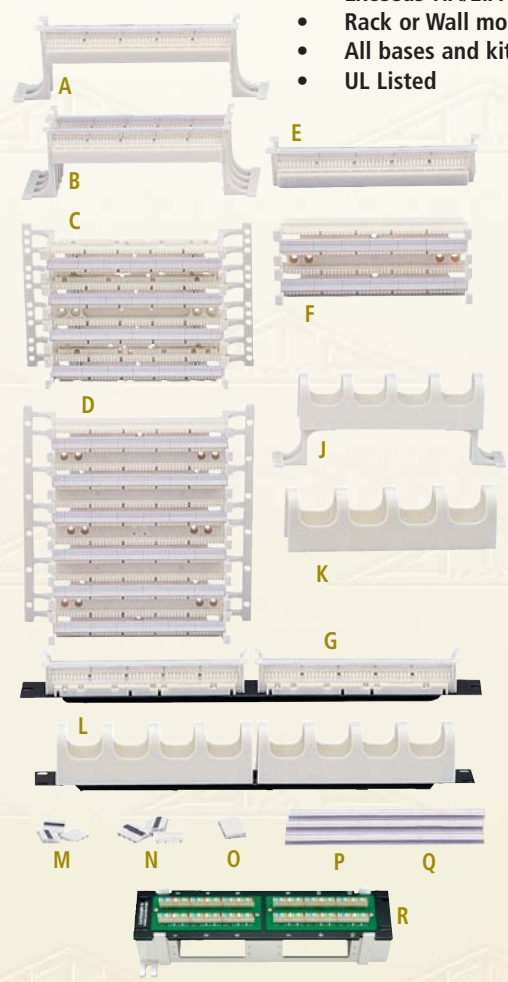


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB110PC64W-03	110 to 110 3 ft	1	1
GB110PC64W-05	110 to 110 5 ft	1	1
GB110PC64W-07	110 to 110 7 ft	1	1
GB110PC64W-10	110 to 110 10 ft	1	1
GB110PC64W-15	110 to 110 15 ft	1	1
GB110PC645-03	110 to RJ45 3 ft	1	1
GB110PC645-05	110 to RJ45 5 ft	1	1
GB110PC645-07	110 to RJ45 7 ft	1	1
GB110PC645-10	110 to RJ45 10 ft	1	1
GB110PC645-15	110 to RJ45 15 ft	1	1

Telecom Room

Category 5e 110 System

- 110 Termination
- Exceeds TIA/EIA Cat 5e Standards
- Rack or Wall mount
- All bases and kits include labels and strip holders
- UL Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
A GB110BK-50	50 Pair Block with legs, includes labels	6	60
B GB110BK-100	100 Pair Block with legs, includes labels	3	30
C GB110BK-200	200 Pair Block with legs, includes labels	1	10
D GB110BK-300	300 Pair Block with legs, includes labels	1	10
E GB110B-50	50 Pair Low Profile w/o legs, includes labels	40	160
F GB110B-100	100 Pair Low Profile w/o legs, includes labels	17	68
G GB110P-100	19" 100 Pair 110 Wiring Panel, includes labels, 1 RU	1	15
H GB110P-200	19" 200 Pair 110 Wiring Panel, includes labels, 2 RU	1	10
I GB110P-300	19" 300 Pair 110 Wiring Panel, includes labels, 3 RU	1	10
J GB110FK	Horizontal Cord Manager with legs	1	25
K GB110F	Horizontal Cord Manager without legs	1	50
L GB110FP	19" Panel e/w two GB110F	1	20
M GB110-C3	3 Pair Connector	10	100
N GB110-C4	4 Pair Connector	10	100
O GB110-C5	5 Pair Connector	10	100
P GB110PH	Label Holder	6	6
Q GB110PS	White Labels	6	6
R GB110-12WB	12 Pair Wiring Block	1	18
GB100-C4-KIT	100 Pair Block with legs and 25/C4 connectors	3	30
GB100-C5-KIT	100 Pair Block with legs and 20/C5 connectors	3	30
GB300-C4-KIT	300 Pair Block with legs and 75/C4 connectors	1	10
GB300-C5-KIT	300 Pair Block with legs and 60/C5 connectors	1	10

Category 5e 110 Patch Cords and Plug Assemblies

- 110 to 110 configuration
- 110 to RJ45 plug configuration
- Wired for T568B wiring scheme (4 pair)



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB110PC4-03	110 to 110 3 ft	1	1
GB110PC4-05	110 to 110 5 ft	1	1
GB110PC4-07	110 to 110 7 ft	1	1
GB110PC4-10	110 to 110 10 ft	1	1
GB110PC4-15	110 to 110 15 ft	1	1
GB110PC45-03	110 to RJ45 3 ft	1	1
GB110PC45-05	110 to RJ45 5 ft	1	1
GB110PC45-07	110 to RJ45 7 ft	1	1
GB110PC45-10	110 to RJ45 10 ft	1	1
GB110PC45-15	110 to RJ45 15 ft	1	1

Telecom Room

Wall Mount Fiber Optic Cabinet

- Compact design where wall space is a premium
- Accommodates 2 panels with up to 24 port capacity
- Quick installation & cost effective
- Includes fiber cable management spool
- Adapter panels snap in for easy installation, removal and expansion
- Comes with dust proof entries, top and bottom
- All wall cabinets come with door lock & key
- Includes all mounting hardware, mounting template and wire management



Wall Mount fiber cabinets ganged for additional port applications

Height 8" (205mm)
Width 13" (330mm)
Depth 3.5" (89mm)
18 gauge steel construction
Color: Black

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB212	Wall Mount Fiber Cabinet	1	2

Rack Mount Fiber Optic Cabinet

- Accommodates 3 panels with up to 36 port capacity
- Includes 2 fiber management spools
- Adapter panels snap in for easy installation, removal and expansion
- Quick installation & cost effective
- All Rack Mount cabinets come with sliding tray
- Utilizes one rack space
- Comes with dust proof entries
- Includes all mounting hardware and wire management



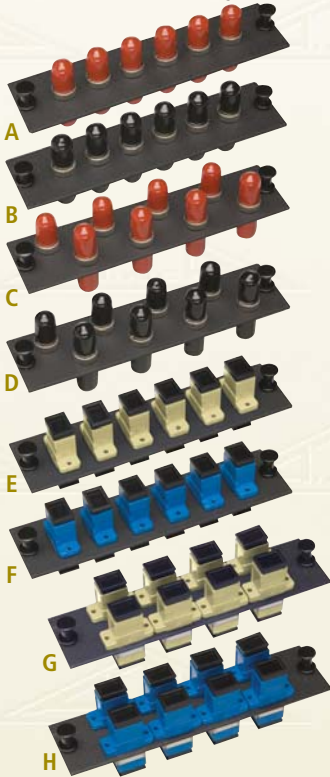
Height 1.75" (44.5mm)
Width 19" (483mm)
Depth 12" (303mm)
16 gauge steel construction
Number of Rack Spaces Utilized: 1
Color: Black

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB324	Rack Mount Fiber Cabinet	1	2

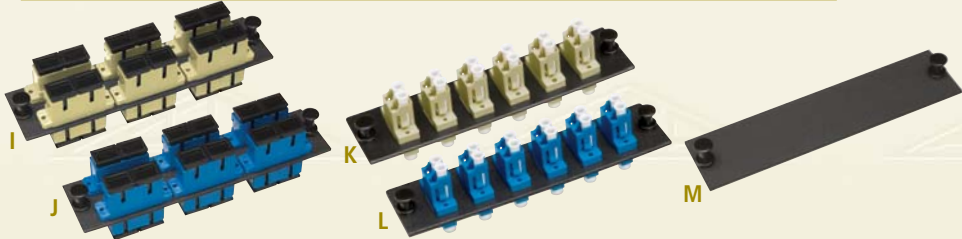
Telecom Room

Fiber Optic Panels

- Snap-in adapter panels are interchangeable between rack and wall mount cabinets
- Single mode sleeves are made from Zirconium Ceramic
- Multimode sleeves are made from Phosphorus Bronze
- Ceramic multimode sleeves are available upon request
- Every fiber coupler includes an individual dust cover

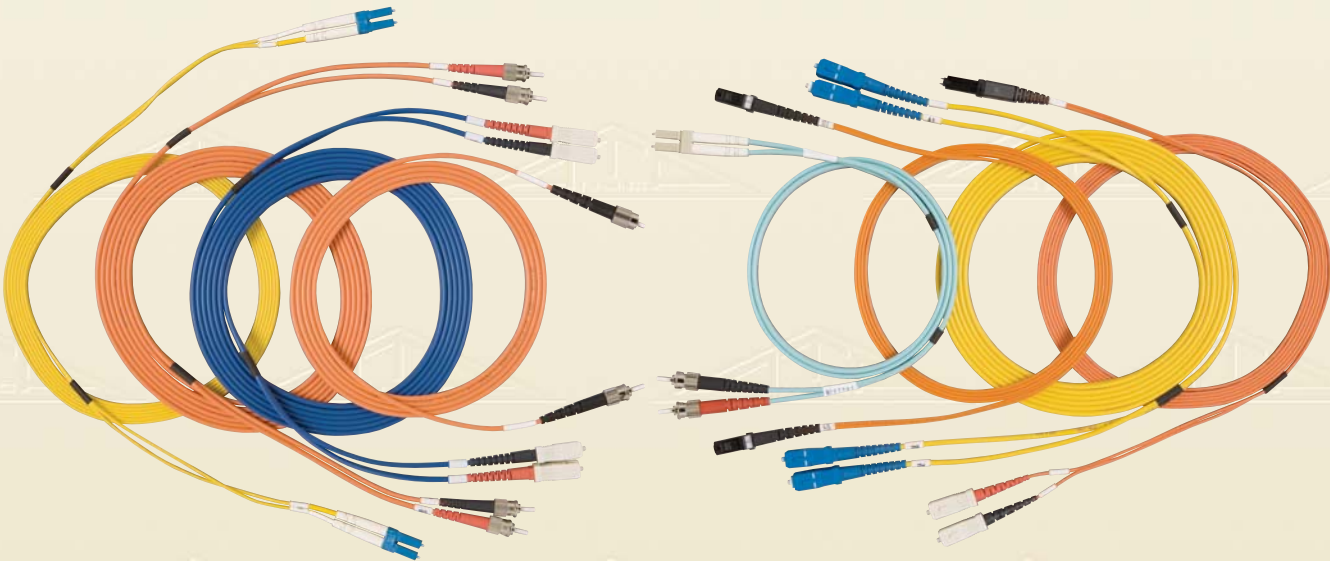


	Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
A	GBST-6MM	Loaded Mounting Panel MM-ST 6 Pack	1	5
B	GBST-6SM	Loaded Mounting Panel SM-ST 6 Pack	1	5
C	GBST-8MM	Loaded Mounting Panel MM-ST 8 Pack	1	5
D	GBST-8SM	Loaded Mounting Panel SM-ST 8 Pack	1	5
E	GBSC-6MM	Loaded Mounting Panel MM-SC 6 Pack	1	5
F	GBSC-6SM	Loaded Mounting Panel SM-SC 6 Pack	1	5
G	GBSC-8MM	Loaded Mounting Panel MM-SC 8 Pack	1	5
H	GBSC-8SM	Loaded Mounting Panel SM-SC 8 Pack	1	5
I	GBSC-6MMDU	Loaded Duplex Mounting Panel MM-SC 6 Pack	1	5
J	GBSC-6SMDU	Loaded Duplex Mounting Panel SM-SC 6 Pack	1	5
K	GBLC-6MMDU	Loaded Duplex Mounting Panel MM-LC 6 Pack	1	5
L	GBLC-6SMDU	Loaded Duplex Mounting Panel SM-LC 6 Pack	1	5
M	GBF-BP	Blank Metal Filler Panel, fits all panel openings	1	5



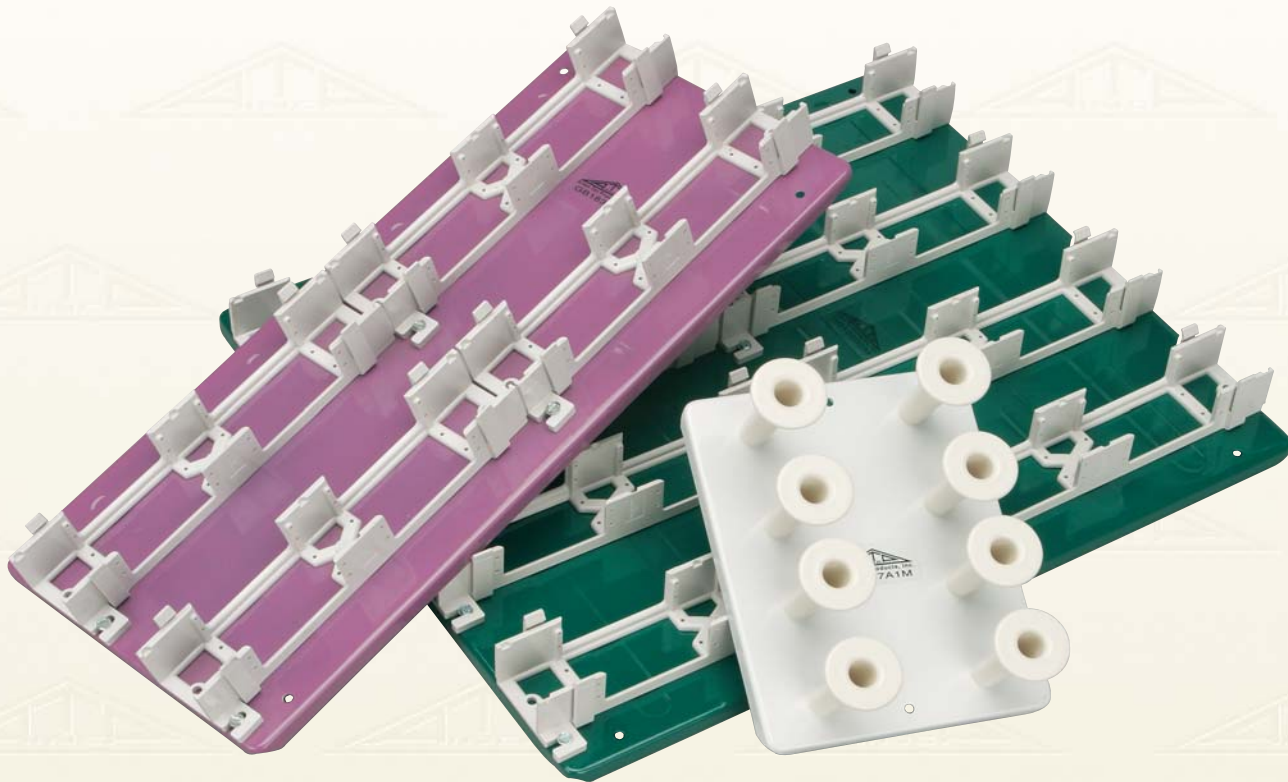
Fiber Optic Cable Assemblies

Full line of high quality single mode and multimode fiber optic cable assemblies



(See page 45 for complete ordering information)

Telecom Room



Color Code Identification

Backboard Used to Terminate

Backboard Color

BLUE

GREEN

RED

PURPLE

YELLOW

WHITE

Connector cables toward customer's Key Telephone Sets

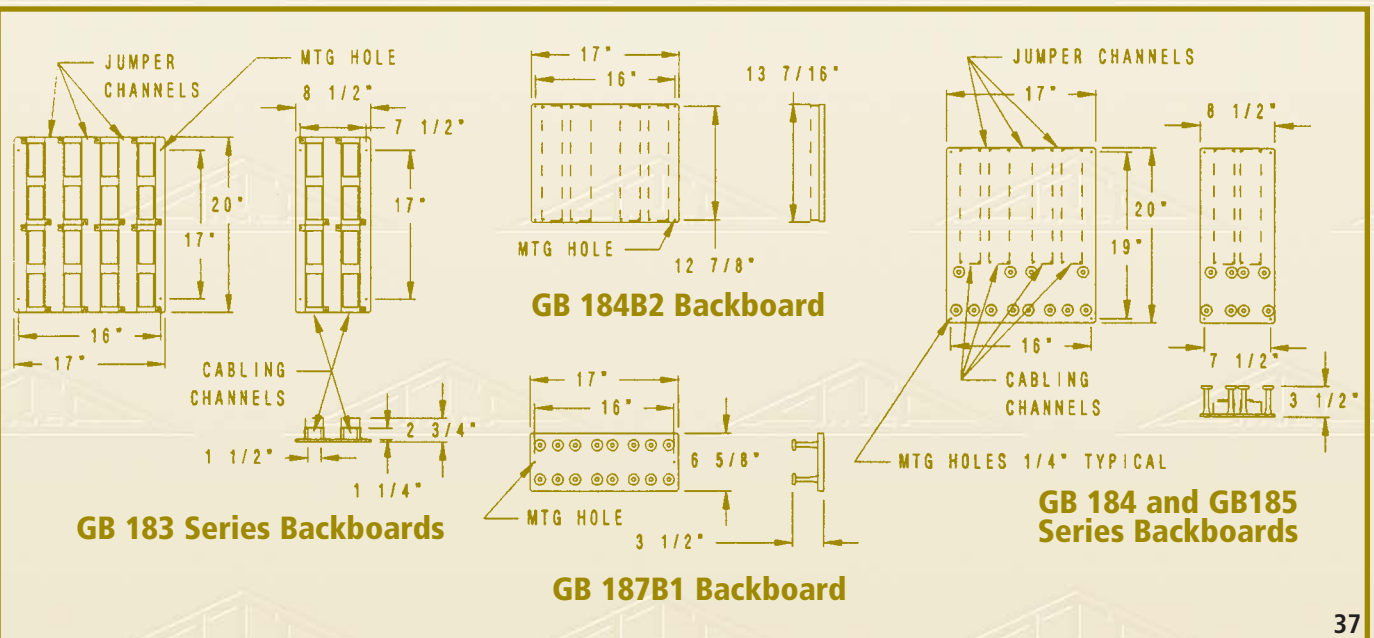
Cables toward the Central Office

Cables or lines to and from Key Telephone Equipment

Cables or lines to and from PBX Equipment

Cables or lines to and from Special Services Equipment

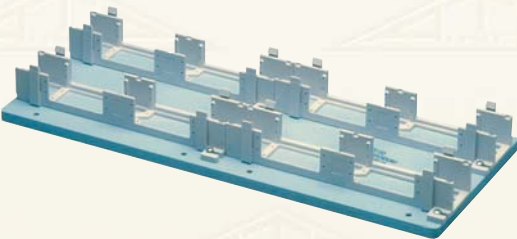
Special Backboard for routing cross connecting runs between GB183 Type Backboards



Telecom Room

Backboards

- Half module 8 1/2" x 20"
- Includes four GB89D mounting brackets
- Provides up to eight 25-pair cable terminations
- Color coded

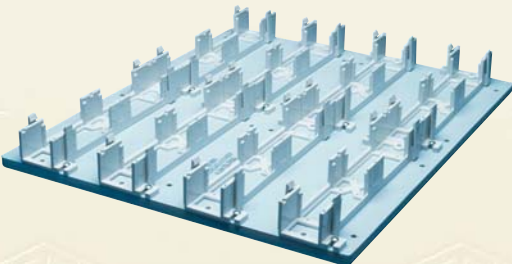


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB183A-White	Half Module White	4	4
GB183AI	Half Module Blue	4	4
GB183AIM	Half Module Blue Metal	8	8
GB183A2	Half Module Green	4	4
GB183A2M	Half Module Green Metal	8	8
GB183A4	Half Module Purple	4	4
GB183A4M	Half Module Purple Metal	8	8
GB183A5	Half Module Yellow	4	4
GB183A5M	Half Module Yellow Metal	8	8
GB183A6	Half Module Grey	4	4

Fire retardant paint on all wood backboards

Backboards

- Full Module 17" x 20"
- Includes eight GB89D mounting brackets
- Provides up to sixteen 25-pair terminations
- Color coded

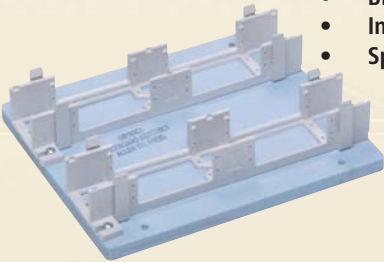


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB183B1	Full Module Blue	2	2
GB183B1M	Full Module Blue Metal	4	4
GB183B2	Full Module Green	2	2
GB183B2M	Full Module Green Metal	4	4
GB183B3	Full Module Red	2	2
GB183B3M	Full Module Red Metal	4	4
GB183B4	Full Module Purple	2	2
GB183B4M	Full Module Purple Metal	4	4
GB183B5	Full Module Yellow	2	2
GB183B5M	Full Module Yellow Metal	4	4

Fire retardant paint on all wood backboards

Backboards

- Blue backboard 8 1/2" x 10"
- Includes two GB89D mounting brackets
- Space between mounting brackets accommodates cross connect wires

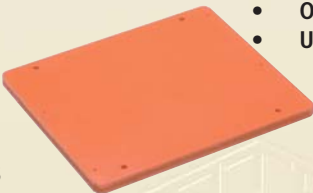


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB183C1	Backboard Blue	8	8
GB183C1M	Backboard Blue Metal	16	16

Fire retardant paint on all wood backboards

Backboards

- Orange backboard 8 1/2" x 10"
- Used for mounting network interface products



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB183C6	Backboard Orange	1	1

Fire retardant paint on all wood backboards

Telecom Room

Backboards

- Half Module 8 1/2" x 20"
- Includes six GB20 distributing posts
- Efficient method of cross connecting between backboard modules

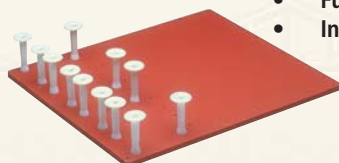


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB184A1	Half Module Red	4	4
GB184A1M	Half Module Red Metal	8	8
GB185A1	Half Module Yellow	4	4
GB185A1M	Half Module Yellow Metal	8	8

Fire retardant paint on all wood backboards

Backboards

- Full module 17" x 20"
- Includes twelve GB20 distributing posts



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB184B1	Full Module Red	2	2

Fire retardant paint on all wood backboards

Backboards

- Blank backboard 13 7/16" x 17"
- Normally mounted above GB184B1 Red backboards when additional terminating facilities are required

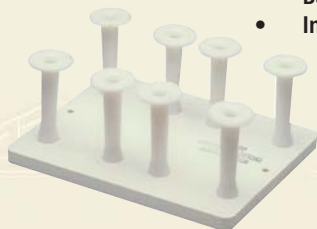


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB184B2	Blank Backboard Red	1	1

Fire retardant paint on all wood backboards

Backboards

- Backboard 6 5/8" x 8 1/2"
- Includes eight GB20 distributing posts

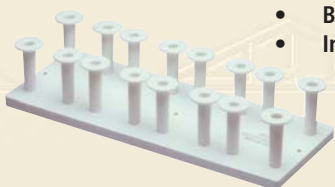


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB187A1	Backboard White	8	8
GB187A1M	Backboard White Metal	20	20

Fire retardant paint on all wood backboards

Backboards

- Backboard 6 5/8" x 17"
- Includes sixteen GB20 distributing posts

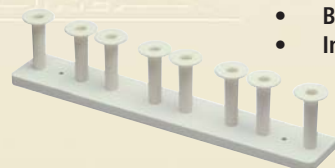


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB187B1	Backboard White	4	4
GB187B1M	Backboard White Metal	10	10

Fire retardant paint on all wood backboards

Backboards

- Backboard 3 5/16" x 17"
- Includes eight GB20 distributing posts

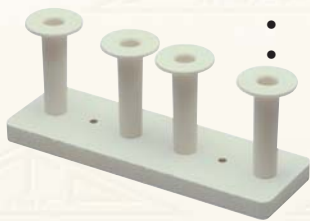


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB187D1	Backboard White	10	10
GB187D1M	Backboard White Metal	20	20

Fire retardant paint on all wood backboards

Telecom Room

Backboards



- Backboard 2 13/32" x 8 1/2"
- Includes four GB20 distributing posts

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB198A	Backboard White	20	20
GB198AM	Backboard White Metal	60	60

Fire retardant paint on all wood backboards

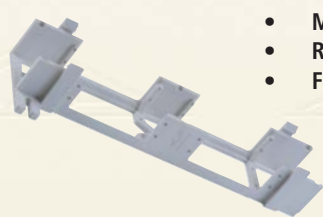
Distributing Post



- GB20 is 3" high and includes a #8 round head wood screw
- Flame retardant ABS plastic meeting UL 94-V.O. specifications

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB20	Distributing Post	50	800

GB89D Mounting Bracket



- Mounts AT66-12P, AT55B-12P and connecting blocks
- Retaining housing is reinforced to prevent inadvertent spreading of the bracket
- Flame retardant ABS meeting UL 94-V.O. specifications

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB89D	Mounting Bracket	50	200

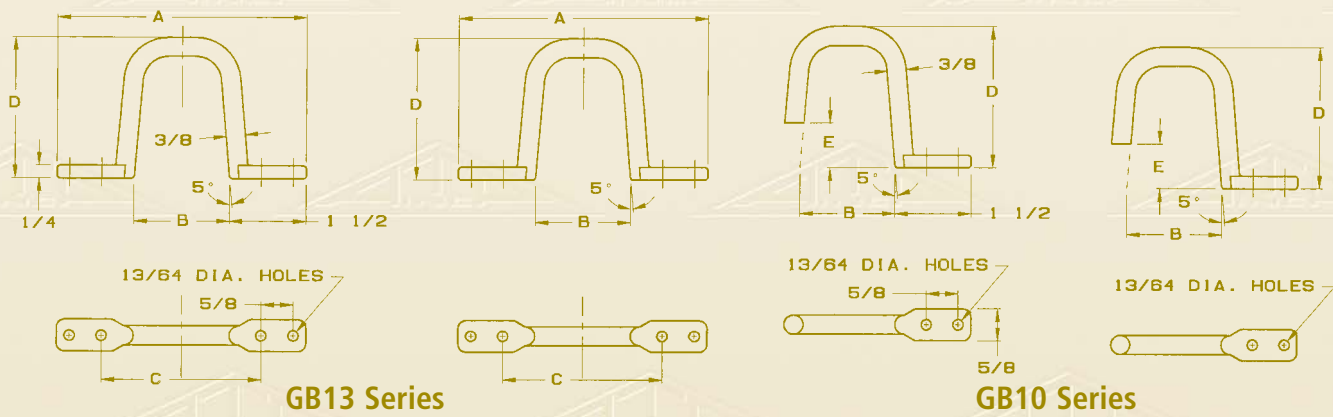
Distributing Rings



- Constructed of die cast aluminum
- Designed for cross connect wiring applications
- GB10 Series has open end e/w plastic protective cap

Part Number	B	D	E	Std. Pkg. Qty.	Std. Ctn. Qty.
GB10A	1 7/8"	2 3/4"	7/8"	100	100
GB10B	3 1/8"	3 3/4"	1 1/4"	100	100
GB10C	5 1/8"	3 3/4"	1 1/4"	100	100

Part Number	A	B	C	D	Std. Pkg. Qty.	Std. Ctn. Qty.
GB13A	4 7/8"	1 7/8"	3 1/8"	2 3/4"	100	100
GB13B	6 1/8"	3 1/8"	4 3/8"	3 3/4"	100	100
GB13C	8 1/8"	5 1/8"	6 3/8"	3 3/4"	100	100



Telecom Room

Termination Tools



(Interchangeable handle)

- Designed to terminate and cut 2, 3, 4 and 5-pair conductors on 110 type connecting blocks
- Interchangeable handle is ergonomically designed to reduce operator fatigue
- Cutting blade rotates in order to terminate conductors

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT110-5P	5 Pair 110 Termination Tool	1	1
AT110-5PRH	5 Pair Replacement Head	1	1
AT116-4P	4 Pair 110 Cat6 Termination Tool	1	1
AT116-4PRH	4 Pair Replacement Head	1	1



Versatap Terminating Palm Tool

- Designed to save time and fatigue on hands
- Terminates Versatap modular voice and data jacks using the AT110 impact tool

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT30VC6	Versatap Terminating Palm Tool	1	25

Impact Tools

- Terminations are quick and simple
- Reversible blade to let you terminate and cut in one stroke or terminate without cutting



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT110	Impact Tool for 110 IDC Termination	1	1
AT110BLD	Replacement 110 Reversible Blade	1	1
AT66	Impact Tool for 66 Clip Termination	1	1
AT66BLD	Replacement 66 Reversible Blade	1	1

EZY Stick

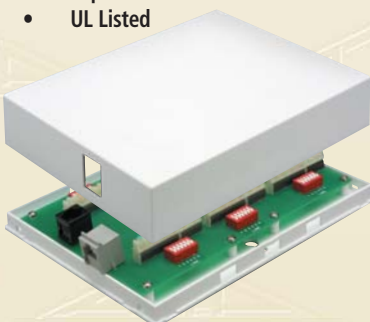
- Extends from 22 inches to 9 feet
- Includes vinyl pouch, spring hook, J hook, S hook and allen wrench



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB300	EZY Stick	1	1
GB300TK	EZY Stick replacement tool kit	1	1

Network Media Box

- 110 Termination
- Voice and data applications
- RJ31-X security alarm jack
- Dimensions: 5.625W x 7.25L x 1.5H
- Expandable
- UL Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB33645-L1	Enclosure equipped with one telco 6 line circuit module and one RJ31-X security alarm jack	1	30
GB33645-L2	Enclosure equipped with one telco 6 line circuit module, one RJ31-X security alarm jack and one 4-port Category 5e circuit module	1	30
GB33645-L3	Enclosure equipped with two telco 6 line circuit modules and one RJ31-X security alarm jack	1	30
GB33645-L4	Enclosure equipped with one 4-port Category 5e circuit module	1	30
GB33585-K1	Data 4-port Category 5e circuit module less enclosure	1	15
GB33585-K3	Telco 6 line circuit module and one RJ31-X security jack less enclosure	1	15
GB33987	Telco 6 line 6 station switchable circuit module equipped with one RJ31-X security alarm jack and one RJ-11 (Line 1) test jack less enclosure	1	50
GB33987-L1	Enclosure equipped with one telco 6 line station switchable circuit module	1	1

Patch Cords

Designed for Performance

Allen Tel Products, Inc. offers a complete line of high performance Patch Cords for copper and fiber applications. Our modular products also include telephone cordage, plugs and crimp tools.

Channel Performance Testing

Products are regularly tested in-house and at independent test labs to exceed TIA/EIA Cat 5e, Cat 6 and Cat 6A channel performance with leading cable manufacturers.

Product Features:

- Category 3, 5e, 6 and 6A Patch Cords
- Exceeds TIA/EIA 568B standards
- Fiber optic cable assemblies
- Connectorized Cables
- Telephone Line and Handset cords
- Modular Plugs
- Crimping Tools

Connectivity products demand interoperability, flexibility, speed and reliability. Allen Tel meets this demand with high quality, dependable structured cabling products.

10 Gb Category 6A Patch Cords	Page 43	Line Cord	Page 46
Category 6 Patch Cords	Page 43	Handset Cord	Page 47
Category 5e Patch Cords.....	Page 43	Modular Extension Cord	Page 47
Category 5e Crossover Cable	Page 44	Bulk Line Cordage	Page 47
Connectorized Cables	Page 44	Modular Category 3 Plugs for Stranded Wire.....	Page 48
Fiber Optic Cable Assemblies	Page 45	Modular Plugs for Solid Wire (Smoky Grey Color).....	Page 48
Category 3 Data Cords and Cable	Page 46	Crimping Tools	Page 49
Category 3 Bulk Cable.....	Page 46		

Patch Cords

10Gb Category 6A Patch Cords



- Designed to exceed TIA/EIA-568-B.2-10 Category 6A standard
- Tested and approved for Category 6A channel compliance
- 10Gb Cat 6A patch panels on page 30; jacks on page 7
- Snagless boots
- Variety of colors

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATG10XX-xx	10Gb Cat6A patch cord	100	1000

XX Lengths: 01-1ft; 02-2ft; 03-3ft; 05-5ft; 07-7ft; 10-10ft; 14-14ft; 18-18ft; 20-20ft; 25-25ft; 50-50ft

Example: ATG1025-WH
(10Gb Cat 6A 25 ft white)

xx colors: WH-White; YL-Yellow; BU-Blue; RD-Red; GY-Grey; I-Ivory; BK-Black; GN-Green; OR-Orange; P-Purple

Category 6 Patch Cords

- Designed to Exceeds TIA/EIA-68-B.2-1 Category 6 standard
- ETL tested and approved for Category 6 channel compliance
- Snagless boots
- Variety of colors

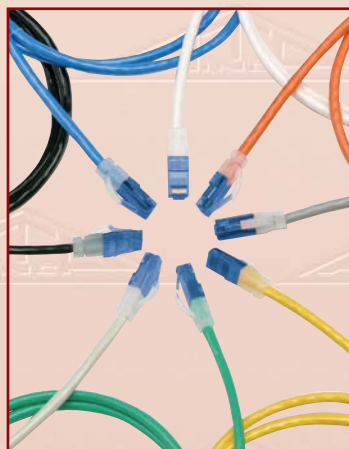


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1601-XX	Cat6 Patch Cord 1ft	25	400
AT1602-XX	Cat6 Patch Cord 2ft	25	300
AT1603-XX	Cat6 Patch Cord 3ft	25	200
AT1604-XX	Cat6 Patch Cord 4ft	25	175
AT1605-XX	Cat6 Patch Cord 5ft	25	175
AT1607-XX	Cat6 Patch Cord 7ft	25	150
AT1610-XX	Cat6 Patch Cord 10ft	25	100
AT1614-XX	Cat6 Patch Cord 14ft	25	75
AT1615-XX	Cat6 Patch Cord 15ft	1	75
AT1618-XX	Cat6 Patch Cord 18ft	1	60
AT1620-XX	Cat6 Patch Cord 20ft	1	50
AT1625-XX	Cat6 Patch Cord 25ft	1	40
AT1650-XX	Cat6 Patch Cord 50ft	1	20
AT16100-XX	Cat6 Patch Cord 100ft	1	10

XX Colors: WH-White, YL-Yellow, BU-Blue, RD-Red, GY-Grey, I-Ivory, BK-Black, GN-Green, OR-Orange, P-Purple

Category 5e Patch Cords

- Exceeds TIA/EIA Category 5e standard (Wired 568B)
- ETL tested and approved for Category 5e channel compliance
- Snagless boots
- Variety of colors



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1501EV-XX	Cat5e Patch Cord 1ft	25	500
AT1502EV-XX	Cat5e Patch Cord 2 ft	25	400
AT1503EV-XX	Cat5e Patch Cord 3 ft	25	300
AT1505EV-XX	Cat5e Patch Cord 5 ft	25	250
AT1507EV-XX	Cat5e Patch Cord 7 ft	25	200
AT1510EV-XX	Cat5e Patch Cord 10 ft	25	150
AT1514EV-XX	Cat5e Patch Cord 14 ft	25	100
AT1518EV-XX	Cat5e Patch Cord 18 ft	1	80
AT1525EV-XX	Cat5e Patch Cord 25 ft	1	65
AT1550EV-XX	Cat5e Patch Cord 50 ft	1	30
AT15100EV-XX	Cat5e Patch Cord 100 ft	1	15

XX Colors: WH-White, YL-Yellow, BU-Blue, RD-Red, GY-Grey, I-Ivory, BK-Black, GN-Green, OR-Orange, P-Purple

Patch Cords

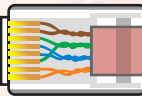
Category 5e Crossover Cable

- Ethernet crossover cable (2 Pair)
- Red Category 5e UTP cable with yellow boots
- Special lengths and colors available



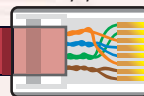
Pins 4,5,7 and 8 are not used

Receive (3&6)
Transmit (1&2)



Pins 4,5,7 and 8 are not used

Receive (3&6)
Transmit (1&2)



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1503-REC	Red ethernet crossover cable 3 ft	25	300
AT1505-REC	Red ethernet crossover cable 5 ft	25	250
AT1507-REC	Red ethernet crossover cable 7 ft	25	200
AT1510-REC	Red ethernet crossover cable 10 ft	25	150
AT1514-REC	Red ethernet crossover cable 14 ft	25	100
AT1518-REC	Red ethernet crossover cable 18 ft	1	80
AT1525-REC	Red ethernet crossover cable 25 ft	1	65

Pin No.	Wire Color
Pin 1	- Orange/White
Pin 2	- Orange
Pin 3	- Green/White
Pin 4	- Blue
Pin 5	- Blue/White
Pin 6	- Green
Pin 7	- Brown/White
Pin 8	- Brown
Crosed-Over	
1	→ 3
2	→ 6
3	→ 1
6	→ 2

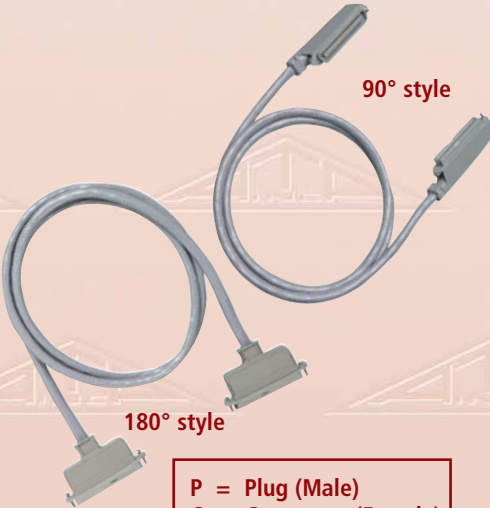
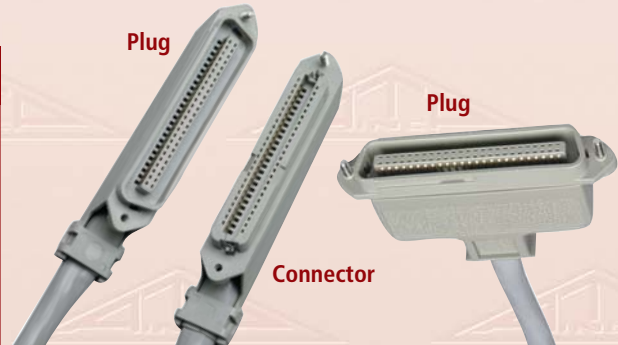
Connectorized Cables

Allen Tel Products Inc. offers a complete line of plug-in connector cables. They are available in 25 pair with various plug, connector and length combinations.

- Conductors are 24 AWG bare solid annealed copper wire
- Polyvinyl chloride is used as insulation over the conductors. It is semi-rigid heat resistant and is resistant to abrasion and cold flow
- Fully color coded band marked with individual pairs twisted for ease of identification. The color band on each conductor matches body insulation color of matching conductor. Standard telephone industry color code is incorporated throughout
- Polyvinyl chloride grey jacket with nylon ripcord inserted between core and jacket for ease of jacket removal.

Electrical Characteristics

Frequency MHZ	Attenuation dB/100m	Next dB (worst pair)	Impedance Ohms
0.256	1.3	/	/
0.512	1.8	/	/
0.772	2.2	43	/
1.0	2.8	41	100±15
4.0	5.8	32	100±15
5.0	8.5	27	100±15
10.0	9.7	26	100±15
16.0	13.1	23	100±15



P = Plug (Male)
C = Connector (Female)
X = Open End

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
25-3-CC-XX-GY	90° Connector at both ends	1	1
25-3-CX-XX-GY	90° Connector at one end only	1	1
25-3-PC-XX-GY	90° Plug at one end, 90° connector at one end	1	1
25-3-PP-XX-GY	90° Plug at both ends	1	1
25-3-PX-XX-GY	90° Plug at one end only	1	1

XX Length in Feet: 5, 10, 15, 20, 25, 30, 40, 50, 75, 100,150, 200

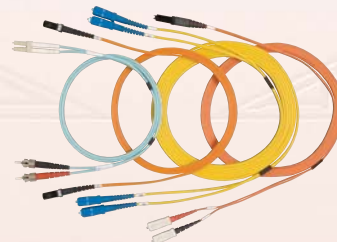
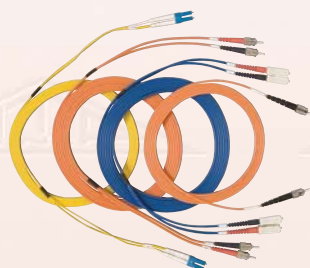
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
25-3-PP-XX-180	Cable to panel, 180° plug at each end	1	1
25-3-PX-XX-180	Cable to panel, 180° plug at one end only	1	1

XX Length in Feet: 5, 10, 15, 20, 25, 30, 40, 50, 75, 100,150, 200
See pages 84 thru 86 for 25 pair adapter accessories.

Patch Cords

Fiber Optic Cable Assemblies

- Full line of high quality single mode and multimode fiber optic cable assemblies
- All cables are 100% tested for insertion loss and back reflection
- Available in industry standard lengths in meters
- All connector boot lengths are 3mm
- Individual removable dust covers



MTRJ-M

MTRJ-F

LC

LC

ST

SC

GB S C 2 - D 4 - 03

Connector to Connector Configurations

FC2	FC to FC
FCC	FC to SC
FCT	FC to ST
LC2	LC to LC
LCC	LC to SC
LCT	LC to ST
MF2	MTRJ Female to MTRJ Female
MFC	MTRJ Female to SC
MFL	MTRJ Female to LC
MFT	MTRJ Female to ST
MM2	MTRJ Male to MTRJ Male
MMC	MTRJ Male to SC
MMF	MTRJ Male to MTRJ Female
MMT	MTRJ Male to ST
SC2	SC to SC
ST2	ST to ST
STC	ST to SC

Length

01 - 1 Meter	08 - 8 Meter
02 - 2 Meter	09 - 9 Meter
03 - 3 Meter	10 - 10 Meter
04 - 4 Meter	15 - 15 Meter
05 - 5 Meter	20 - 20 Meter
06 - 6 Meter	25 - 25 Meter
07 - 7 Meter	30 - 30 Meter

Fiber

- 1 - Single Mode 9/125 (Yellow Jacket)
Insertion loss < 0.2dB
- 2 - Multimode 62.5/125 (Orange Jacket)
Insertion loss < 0.3dB
- 3 - Multimode (Only) 50/125 (Blue Jacket)
Insertion loss < 0.3dB
- 4 - Multimode (Only) 50/125 850nm OM3
laser-optimized 10Gb (Aqua Jacket)
Insertion loss < 0.2dB

Cable Type

- S - Simplex
- D - Duplex

Ordering Example

GBSC2-D4-03

10Gb SC to SC duplex 50/125 microns
laser-optimized multimode - 3 Meters

Patch Cords

Category 3 Data Cords and Cable

- Designed for 16 Mbps UTP token ring network
- Data cords wired pin to pin with modular plugs on both ends
- UL Listed and CSA Listed

Electrical Characteristics

Requirement	256 KHz	512 KHz	772 KHz	1 Mhz	4 Mhz	10 Mhz	16 Mhz	20 Mhz
Attenuation (db/1000 Ft. at 20C)	3.4	4.6	5.7	6.5	13	22	27	31
NEXT (db/1000 Ft.)	N/A	N/A	58	56	47	41	38	36
Mutual Capacitance (at 1.0 KHz)	14.0 Pf/FT. (46PF/M)			DC Resistance: 28.6 Max per 1000 Ft. 200 C				
Impedance	At 1-25 Mhz			100 OHMS Nominal				

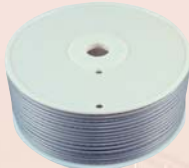


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT12XX-4C	6-position 4-conductor	1	1
AT12XX-6C	6-position 6-conductor	1	1
AT12XX-NK	8-position 8-conductor	1	1

XX Lengths: 01-1 ft, 03-3 ft, 05-5 ft, 07-7 ft, 10-10 ft, 15-15 ft, 25-25 ft

Note: Replace "NK" with "K" if keyed plugs are required

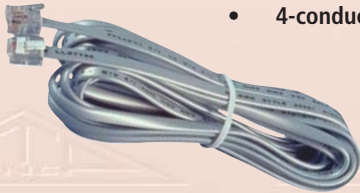
Category 3 Bulk Cable



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT4CRB	4-conductor bulk cable 1000 ft	1	1
AT6CRB	6-conductor bulk cable 1000 ft	1	1
AT8CRB	8-conductor bulk cable 1000 ft	1	1

Line Cord

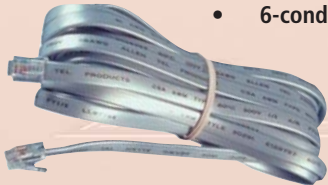
- 4-conductor, flat, satin silver line cord



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT407	Full modular line cord 7 ft	1	400
AT414	Full modular line cord 14 ft	1	200
AT425	Full modular line cord 25 ft	1	160

Line Cord

- 6-conductor, flat, satin silver line cord



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT607	Full modular line cord 7 ft	1	300
AT614	Full modular line cord 14 ft	1	150
AT625	Full modular line cord 25 ft	1	100

Line Cord

- 8-conductor, flat, satin silver line cord. Specify either "NK" – non-keyed or "K" – keyed

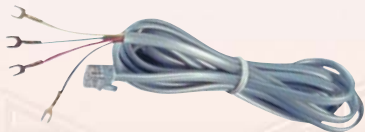


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1007-NK or K	Full modular line cord 7 ft	1	250
AT1014-NK or K	Full modular line cord 14 ft	1	150
AT1025-NK or K	Full modular line cord 25 ft	1	100

Patch Cords

Line Cord

- 4-conductor, flat, satin silver line cord



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT307	1/4 modular line cord 7 ft	1	25
AT314	1/4 modular line cord 14 ft	1	25
AT325	1/4 modular line cord 25 ft	1	25

Handset Cord

- 4-conductor, retractile handset cord



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT806-XX	Full modular handset cord 6 ft	25	300
AT812-XX	Full modular handset cord 12 ft	25	150
AT825-XX	Full modular handset cord 25 ft	1	100

XX Colors: 00-Black, 09-Ivory, 13-Beige, 14-Grey, 15-White, 44-Ash, 45-Cocoa Brown

Modular Extension Cords

- Flat modular extension 4-conductor line cord e/w duplex ivory jack



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT206-12	Modular duplex extension cord 12 ft	1	25
AT206-25	Modular duplex extension cord 25 ft	1	25

Modular Extension Cord

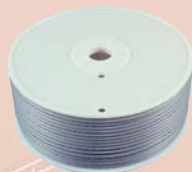
- Flat modular extension 4-conductor line cord e/w single ivory jack



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT207-12	Modular extension cord 12 ft	1	25
AT207-25	Modular extension cord 25 ft	1	25

Bulk Line Cordage

- Satin silver, flat line cord
- Conductors are 26 AWG, 7 strand bare copper wire
- PVC insulated

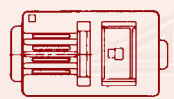


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT4CLC	4-conductor bulk line cordage 1000 ft	1	1
AT6CLC	6-conductor bulk line cordage 1000 ft	1	1
AT8CLC	8-conductor bulk line cordage 1000 ft	1	1

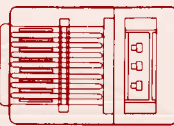
Patch Cords

Modular Category 3 Plugs for Stranded Wire

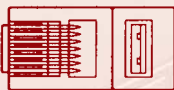
- Non-plenum cable only
- 24 - 26 gauge wire
- Every Allen Tel Modular Plug is UL Listed and CSA Listed



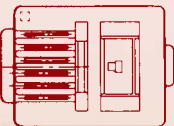
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT4X4	4-contact, 4-position plug for handset cords	100	1000
AT4X6	4-contact, 6-position plug for line cords	100	1000



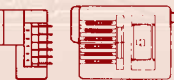
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT8X8	8-contact, 8-position plug for line cords and data applications	100	1000
AT8X8K	Same as AT8X8 except keyed	100	1000



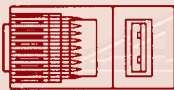
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT8X8RC	8-conductor, 8-position modular plug designed for round cordage such as AT8CRB	100	1000



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT6X6	6-contact, 6-position plug for line cords	100	1000



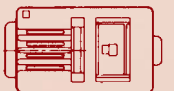
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT6X6DEC	6-contact, 6-position DEC plug for line cords	100	1000



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT10X10	10-contact, 10-position Body size is the same as AT8X8	1	25

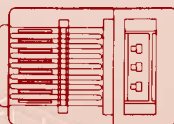
Modular Plugs for Solid Wire (Smoky Grey Color)

- Designed for flat cord
- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT4X4SC-2224	4-contact, 4-position plug for 24GA solid wire	100	1000
AT4X6SC-2224	4-contact, 6-position plug for 24GA solid wire	100	1000
AT6X6SC-2224	6-contact, 6-position plug for 24GA solid wire	100	1000
AT8X8SC-2224	8-contact, 8-position plug for 24GA solid wire	100	1000

- Designed for rounded cord
- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT6X6RCSC-2224	6-contact, 6-position plug for round cord with solid 24 gauge wire	100	1000
AT8X8RCSC-24	8-conductor plug for round cord with solid 23-24GA wire	100	1000

Patch Cords

Crimping Tool

- AT10 series of crimp tools are constructed of carbon steel and have a ratchet mechanism
- Designed for releasing at midcrimp when necessary



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT10A	AT10X10, 10-cond., 10-pos. plugs	1	1
AT10A-4	AT4X4, 4-cond., 4-pos. handset plugs	1	1
AT10A-6	RJ-11 (AT4X6 and AT6X6) plugs	1	1
AT10A-8	RJ-45 (AT8X8 and AT8X8K) plugs	1	1
AT10A-DEC	MMJ-RJ-11 (AT6X6DEC) plugs	1	1

Crimping Tool

- Multi-function
- Safety guard and locking device
- Built-in cutter and stripper



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT546	RJ-22(AT4X4 handset) and RJ-11(AT4X6,AT6X6)	1	1
AT568	RJ-11(AT4X6,AT6X6) and RJ-45 (AT8X8 and AT8X8RC)	1	1
AT582	RJ-45(AT8X8,AT8X8K) and MMJ-RJ-11 (AT6X6DEC)	1	1
AT584	RJ-11(AT4X6,AT6X6) and MMJ-RJ-11(AT6X6DEC)	1	1
9701	Replacement cutting blades for AT582 and AT584	1	1
9703	Replacement cutting blades for AT546 and AT568	1	1

Crimping Tool

- Carbon steel construction
- Ratchet mechanism
- Multi-function
- Ease of installation



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT680	RJ-11(AT4X6,AT6X6) and RJ-45(AT8X8,AT8X8K)	1	1
AT682	RJ-22(AT4X4 Handset) and RJ-11(AT4X6,AT6X6)	1	1
9702	Replacement cutting blades for AT680 and AT682	1	1

Video & Coax

Allen Tel Products, Inc, offers a large line of quality connectors and accessories for Audio and Video solutions.

- BNC Adapters, Connectors and Terminators
- F Series CATV Connectors
- Co-Axial Splitters
- In-Line Splice
- COAX Termination and Installation Tools
- Wall Plates

Our products are designed to provide the highest quality of data transmission for Audio and Video applications.

Co-axial 1 GHz Splitters.....	Page 51	Male F Series CATV Connectors	Page 54
Co-axial 5-900 MHz Splitters.....	Page 51	In-line Splice	Page 56
Flush Wall Plates	Page 52	F Terminator	Page 56
Flush Wall Plate Stainless Steel	Page 52	BNC Connectors.....	Page 57
Grounding Block	Page 53	BNC Tee Connectors.....	Page 58
Feed-thru Bushing.....	Page 53	BNC Bulk Head Splice.....	Page 58
Cable Clips	Page 53	BNC In-line Splice.....	Page 58
F-Connector Installation Tool	Page 53	BNC Terminator Plug	Page 58
CATV/COAX Crimp Tools	Page 53	Termination Instructions	Page 59

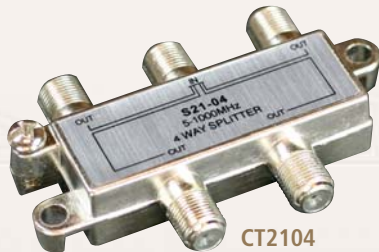
Video & Coax

Co-axial 1 GHz Splitters

- Printed circuit board to help maintain constant RF performance
- Anti-corrosive nickel finish
- Multiple capacity design for improved response for MATV/CATV applications
- Includes mounting screws
- Precision mechanical threads

Specifications

Model	Band Width	Insertion Loss	Isolation	Return Loss In	Return Loss out
CT2102	5-1000 MHz	5.0 dB max	20.0 dB min.	13.0 dB min.	13.0 dB min.
CT2103	5-1000 MHz	8.5 dB max	20.0 dB min.	15.0 dB min.	15.0 dB min.
CT2104	5-1000 MHz	9.5 dB max	20.0 dB min.	15.0 dB min.	15.0 dB min.
CT2106	5-1000 MHz	13.0 dB max	20.0 dB min.	14.0 dB min.	16.0 dB min.
CT2108	5-1000 MHz	13.5 dB max	20.0 dB min.	14.0 dB min.	16.0 dB min.

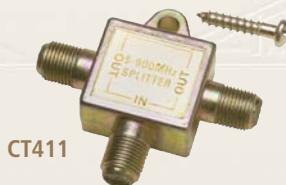


CT2104

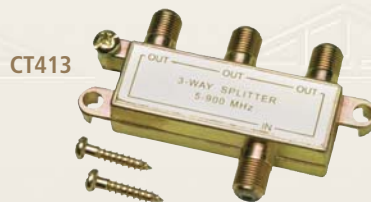
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT2102	5 MHz - 1.0 GHz splitter 2-way	1	100
CT2103	5 MHz - 1.0 GHz splitter 3-way	1	100
CT2104	5 MHz - 1.0 GHz splitter 4-way	1	100
CT2106	5 MHz - 1.0 GHz splitter 6-way	1	50
CT2108	5 MHz - 1.0 GHz splitter 8-way	1	50

Co-axial 5-900 MHz Splitters

- Co-axial MATV/TV Splitters
- Die cast
- Indoor - outdoor weather resistant
- UHF/VHF FM 5-900 MHz



CT411



CT413



CT414



CT412



CT408

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT411	5-900 MHz mini splitter 2 way. 3.5 DB insertion loss, 20 DB isolation, DC passive	1	25
CT412	5-900 MHz splitter 2-way. 3.5 DB insertion loss, 20 DB isolation, DC passive	1	25
CT413	5-900 MHz splitter 3-way. Two at 6.5DB, one at 3.5 DB insertion loss, 20 DB isolation, DC passive	1	25
CT414	5-900 MHz splitter 4-way. 6.5 DB insertion loss, 30 DB isolation, DC passive	1	25
CT408	5-900 MHz splitter 8 way. 11 DB insertion loss, High isolation, power passive 82 channel	1	25

Video & Coax

Flush Wall Plate



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT103F-XX	Flush wall plate e/w F-81 Connector	1	10

XX Colors: 09-Ivory; 15-White

Flush Wall Plate



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT102FF-XX	Duplex wall plate e/w two F-81 Connectors	1	10

XX Colors: 09-Ivory; 15-White

Flush Wall Plate



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT103-XX	Faceplate w/3/8" hole for F-81 Connector	1	10

XX Colors: 09-Ivory; 15-White

Flush Wall Plate



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT104F-XX	Faceplate e/w one F-81 Connector and one 6-position telephone jack	1	10

XX Colors: 09-Ivory; 15-White

Flush Wall Plate Stainless Steel



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATBK-CX	Stainless steel faceplate with one .500" hole	1	50

Flush Wall Plate Stainless Steel



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATBK-F	Stainless steel faceplate with one .375" hole	1	50

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Grounding Block



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT722	Grounding block, die cast with screws	1	100

Feed-thru Bushing

- One hundred per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT240	For RG-59 cable	100	100
CT241	For RG-6 cable	100	100

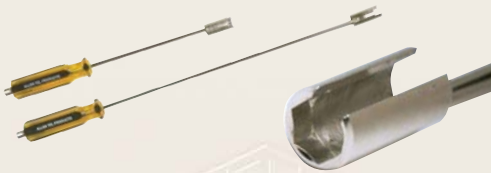
Cable Clips

- One hundred per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT726	For RG-59 cable	100	100
CT727	For RG-6 cable	100	100

F-Connector Installation Tool



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT777	F-connector installation tool 6"	1	1
CT777-12	F-connector installation tool 12"	1	1

CATV/COAX Crimp Tool

- Economy hex crimp tool for RG-6 and RG-59 cable



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT770	Crimp tool hex for RG-6 and RG-59	1	1

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CATV/COAX Crimp Tool

- Deluxe hex crimp tool for RG-6 and RG-59 cable



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT771	Crimp tool hex for RG-6 and RG-59, 75 ohm	1	1

Male F Series CATV Connector

- Consists of separate 1/4" ring for RG-59 PVC cable
- Five connectors per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT701	For RG-59 PVC cable, 75 ohm	5	100

Male F Series CATV Connector

- Standard RG-59 cable
- Five connectors per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT703	For RG-59 standard cable, 75 ohm	5	100

Male F Series CATV Connector

- Standard RG-59 cable, moisture proof connector
- Five connectors per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT703MP	For RG-59 standard cable, moisture proof, 75 ohm	5	100

Male F Series CATV Connector

- Consists of attached 1/4" ring for RG-59 PVC cable
- Five connectors per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT705	For RG-59 PVC cable, 75 ohm	5	100

Male F Series CATV Connector

- Twist on – no crimp for RG-59 PVC cable – no tool required
- Five connectors per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT712	For RG-59 PVC cable twist on, 75 ohm	5	100

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Male F Series CATV Connector



- Consists of separate 1/4" ring for RG-6 PVC cable
- Five connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT715	For RG-6 PVC cable, 75 ohm	5	100

Male F Series CATV Connector



- Consists of attached 1/4" ring for RG-6 PVC cable
- Five connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT716	For RG-6 PVC cable, 75 ohm	5	100

Male F Series CATV Connector



- Twist on – no crimp for RG-6 PVC cable – no tool required
- Two connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT718	For RG-6 PVC cable twist on, 75 ohm	2	100

Male F Series CATV Connector



- Standard RG-6 cable
- Five connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT732	For RG-6 standard cable, 75 ohm	5	100

Male F Series CATV Connector



- Twist on – no crimp for RG-6 PVC cable – no tool required
- Standard RG-6 cable, moisture proof connector
- Five connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT732MP	For RG-6 standard cable, moisture proof, 75 ohm	5	100

Male F Series CATV Connector



- RG-6 quad shield
- Five connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT734	For RG-6 quad shield, 75 ohm	5	100

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Male F Series CATV Connector



- RG-6 cable for teflon/plenum
- Five connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT746	For RG-6 cable for teflon/plenum, 75 ohm	5	100

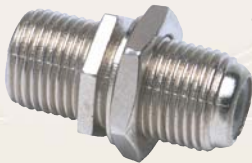
Male F Series CATV Connector



- RG-59 cable for teflon/plenum
- Five connectors per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT749	For RG-59 cable for teflon/plenum, 75 ohm	5	100

In-line Splice



- Female 3/4" with nut and washer
- Two splices per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT721	In-line splice F-connector	2	100

In-line Splice



- Double male splice
- Two splices per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT724	Double male splice	2	100

F Terminator



- One watt 5% 75 ohms
- Five terminators per package

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CT59T	F Terminator	5	100

Video & Coax

BNC Connectors

- Coaxial connectors for network, video, security and computer peripheral interconnections
- BNC connectors allow ease of engagement and disengagement using bayonet couplings and overlapping dielectrics
- All Allen Tel BNC connectors, adapters and terminations come with gold plated contacts
- The "O" crimp design produces a uniform compression on the cable braid enhancing the electrical performance
- The "hex" crimp is the more traditional connecting method
- The "twist on" connection requires no special tooling to install on a cable

Ordering Information 50 OHM BNC Connector



GBNC58-O "O" Crimp



GBNC58-H Hex Crimp



GBNC58-T Twist-On

Cable	Part Number	Installation Method
RG/U 58	GBNC58-O GBNC58-H GBNC58-T	"O" Crimp Hex Crimp Twist-On
Plenum 58 Belden 88240 Berk-Tek BTDC and equivalent construction only	GBNC58-PH GBNC58-PO	Hex Crimp "O" Crimp
RG 62, 62A, 62B 59, 59A, 59B Belden 9291, 9209 and equivalent construction only	GBNC60-O GBNC60-T	"O" Crimp Twist-On
Plenum 59/62 Belden 88241, 89269 Berk-Tek BTDC-59 BTDC-62 and equivalent construction only	GBNC60-PO GBNC60-PH GBNC60-PT	"O" Crimp Hex Crimp Twist-On
Belden 9907 Comm/Scope 3104	GBNC70-O	"O" Crimp
Belden 89907 Comm/Scope 2104	GBNC80-O	"O" Crimp
All items 2 per package		

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBNC58-O	BNC connector, 50 ohm O crimp	2	100
GBNC58-H	BNC connector, 50 ohm Hex crimp	2	100
GBNC58-T	BNC connector, 50 ohm Twist on	2	100

- Works with solid or stranded cable

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BNC Tee Connector

- Jack-Plug-Jack, brass body



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBNC-TCB	BNC Tee connector, 50 ohm	1	25

BNC Tee Connector

- Jack-Plug-Jack, zinc body



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBNC-TCZ	BNC Tee connector, 50 ohm	1	25

BNC Bulk Head Splice

- Jack-to-Jack



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBNC-BHS	BNC bulk head splice, 50 ohm	1	25

BNC In-line Splice

- Jack-to-Jack
- Two splices per package



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBNC-SPL	BNC in-line splice, 50 ohm	2	100

BNC Terminator Plug

- One watt terminator plug

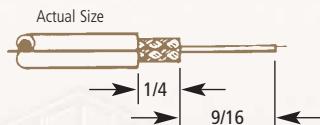


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBNC-TP	BNC terminator plug one watt	1	100

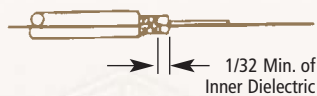
Video & Coax

Termination Instructions

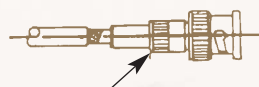
Twist-On BNC/TNC



1. Trim cable as shown. Taking care not to nick the center conductor or outer braid.

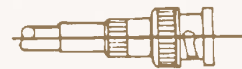


2. Twist the outer braid in a clockwise direction in such a manner that at least 1/32 of inner dielectric is bared and the braid is left flat (stray or loose braid can cause shorts).



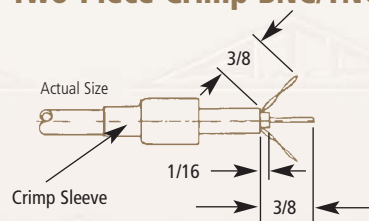
Back end of connector and inner dielectric flush. Center conductor is now in place.

3. Gently insert the center conductor down into the back end of the connector feeding it into the guide hole. When center conductor is not in place approx. 1.8" of center conductor will show.



4. Firmly push the cable home as far as possible, then screw the connector on the cable in a clockwise direction until it stops.

Two-Piece Crimp BNC/TNC



1. Run crimp sleeve down cable.
2. Trim cables as shown, taking care not to nick outer braid.
3. Insert center conductor into the guide hole in the rear of the connector and firmly push the cable home.

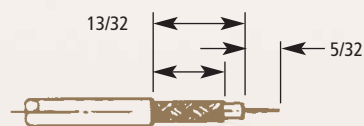


4. Push crimp sleeve into place, sandwiching the braid between the connector and sleeve.

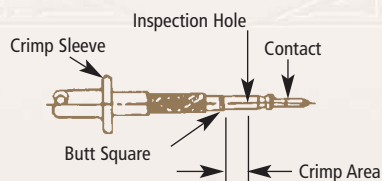


5. Crimp the sleeve into place with the proper crimp tool.

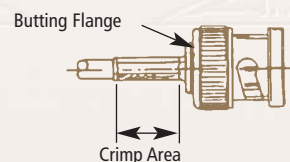
Three-Piece Crimp BNC/TNC



1. Trim cable as shown. Taking care not to nick the inner conductor or braid.



2. Slip crimp sleeve over cable. Place inner conductor into contact. Note that the end of contact and inner dielectric must be butting and square. Crimp with appropriate tooling.

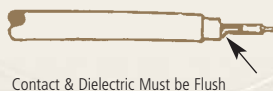


3. Flair outer braid and gently but firmly push the contact into the connector housing until a gentle snap is felt, indicating the contact is in place. Slip the crimp sleeve in place, butting the flange against the connector body and crimp with appropriate tooling.

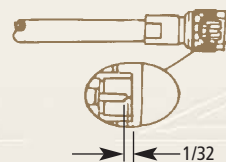
N-Twist-On



1. Trim cable as shown, taking care not to nick the center conductor or outer braid. Make sure that the outer braid lays flat. Trim any loose braid which can cause shorts.



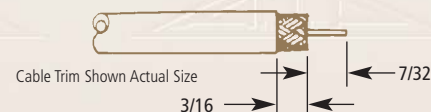
2. Twist the contact in a clockwise direction on the inner conductor until the back end of the contact is flush with the inner dielectric.



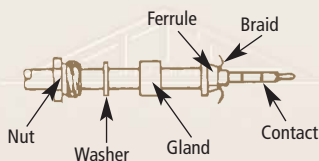
3. Twist the connector onto the cable in a clockwise direction. The connector is properly installed when the end of the contact is positioned within 1/32" of the front edge of the connector.

*To aid in twisting on contact insert paper clip in thru hole.

N-Solder Clamp



1. Trim cable as shown, taking care not to nick the center conductor or outer braid.



2. Run nut, washer, gland and ferrule over the cable, and flair the braid over the ferrule. Solder or crimp the contact to the center conductor.



3. Push the center contact home into the body assy., feeling it snap into place, and with all the loose components in place, complete the assembly by wrench tightening the nut.

F Type Crimp



1. Trim cable jacket to 3/8" taking care not to nick the center conductor or outer braid. Fold braid back over jacket.

2. Remove foil and cut dielectric to length of 1/4", again taking care not to nick copper jacket of center conductor. Remove dielectric fuzz.

3. If using separate crimp ring, slide over folded-back braid.
4. If foil is burred, twist so that corner is smooth and provides a lead for the connector mandrel.
5. Install connector mandrel over foil and underneath the braid; trim braid if desired.
6. Slide crimp ring into place over braid and adjacent to connector body. Crimp with proper tool.

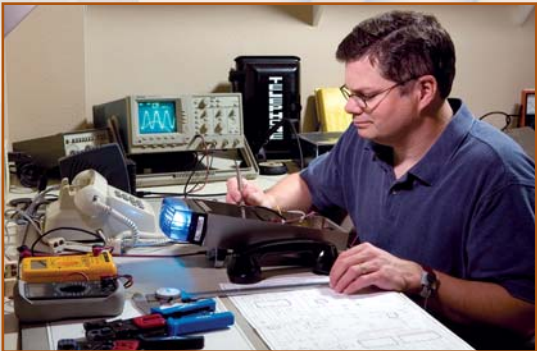
Telephones

Allen Tel Products, Inc. offers a full line of Outdoor / Emergency telephones that are particularly suited for use on college campuses, airports, parking garages and industrial locations.

Custom engineering and manufacturing are standard services. The variety of complete telephone models offered includes speakerphones and single line units using pulse, tone, or automatic dialing.

Product Features:

- Outdoor Telephones
- Elevator and Emergency Telephones
- Courtesy Telephone
- Vandal Resistant Telephone
- Handset Hanger and Hookswitch Assemblies
- Dials



Outdoor Telephones.....	Page 61
ADA Outdoor Telephones	Page 63
Outdoor Telephone Specifications	Page 64
Telephone Programming Options	Page 65
Outdoor Telephone Accessories	Page 66
Elevator and Emergency Telephones.....	Page 66
Elevator and Emergency Telephone Options.....	Page 67
ADA Elevator and Emergency Telephones	Page 69
Single Line Telephones	Page 69
Dial Card.....	Page 70
Courtesy Telephone.....	Page 70
Vandal Resistant Telephone	Page 70
Galaxy Telephones	Page 71

Galaxy Accessories.....	Page 71
Rack Mounted Telephones	Page 71
Handsets.....	Page 71
Handset Accessories	Page 71
Handset Assemblies	Page 72
Armored Handsets	Page 73
Armored Cords and Accessories	Page 73
Handset Hangers and Hookswitch Assemblies.....	Page 74
Panel Mounting Detail.....	Page 75
Dials	Page 76
Message Waiting Kit.....	Page 76
Apparatus Blank.....	Page 76

Telephones

Outdoor Telephones

- Housings are constructed of die cast aluminum and electrostatically deposited enamel finish
- GB90 series of telephones are equipped with either a push latch or a push key lock
- All housings are equipped with gaskets and the logo "Telephone". Other logos are available upon request
- Complete telephone models offered include speakerphones and single line units using pulse, tone or automatic dialing
- All handsets are equipped with hearing aid compatible amplified receivers
- See Page 65 for options available for multi-dial features
- See Page 64 for telephone dimensions and weights
- Outdoor speakerphones are **not** recommended for temperatures below -5°F (-20°C)



GB90H-04-P



GB90VN00



GB94V02



GB97N02

Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB90H-XX	N/A	Outdoor housing only	1	1
Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB90VDXX	GB59VD-LH	Single line, pushbutton pulse (rotary dial) equipped with amplified receiver	1	1
GB90VNXX	GB59VN-LH	No dial, can be used with auto ringdown circuits. Equipped with amplified receiver	1	1
GB90VSXX	GB59VS-LH	Single line, programmable single number dialer, equipped with amplified receiver	1	1
GB92VXX	GB259V-LH	Single line, pushbutton tone dial equipped with amplified receiver	1	1
Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB94VXX	N/A	GB90H equipped with GB2554V44, mini wall telephone set equipped with amplified receiver	1	1
Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB97DXX	GB25900D-LH	Outdoor speakerphone, tone dial "Push to Operate" Switch and programmable disconnect	1	1
GB97NXX	GB25900N-LH	Outdoor speakerphone, no dial, "Push to Operate" Switch and programmable disconnect	1	1
GB97SNDXX	GB25900SND-LH	Outdoor speakerphone, programmable single number dialer, "Push to Operate" Switch and programmable disconnect	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order

GB90 Series Options

Code	Description	Code	Description
H	14" Armored Cord	K	GB90 Lock Equipped with Two Keys
Y	"Emergency" Logo	W	GB90 Metal Lock Equipped with Two Keys
L	Housing Less Logo	Z	Multiple GB90 Locks Keyed Alike
T	Noise Canceling Transmitter	M	Metal Dial
P	Spring Loaded Door		

EXAMPLE: GB92V00 Consists of GB90 black housing with telephone legend on door and a single line panel mounted tel set e/w 6 foot black coil cord, amplified receiver and standard plastic dial. (See Options Above)

NOTE: The K lock is constructed of high impact plastic. For special key applications please contact the factory.

Telephones

Outdoor Telephones

- Housings are constructed of die cast aluminum and electrostatically deposited enamel finish
- GB59 and GB259 Series of telephones are equipped with a stainless steel hasp, which will also accept a padlock
- All housings are equipped with gaskets and the logo "Telephone". Other logos are available upon request
- Complete telephone models offered include speakerphones and single line units using pulse, tone or automatic dialing
- All handsets are equipped with hearing aid compatible amplified receivers
- See Page 65 for options available for multi-dial features
- See Page 64 for telephone dimensions and weights
- Outdoor speakerphones are **not** recommended for temperatures below -5°F (-20°C)



GB5955H-02

Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB5955H-XX	N/A	Outdoor housing only	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order



GB259V02HPM

Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB59VDXX	GB59VD-LH	Single line, pushbutton pulse (rotary dial) equipped with amplified receiver	1	1
GB59VNXX	GB59VN-LH	No dial, can be used with auto ringdown circuits. Equipped with amplified receiver	1	1
GB59VSXX	GB59VS-LH	Single line, programmable single number dialer, equipped with amplified receiver	1	1
GB259VXX	GB259V-LH	Single line, pushbutton tone dial equipped with amplified receiver	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order



GB25900N-14

Part Number	Speakerphone less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB25900D-XX	GB25900D-LH	Outdoor speakerphone, tone dial "Push to Operate" Switch and programmable disconnect	1	1
GB25900N-XX	GB25900N-LH	Outdoor speakerphone, no dial, "Push to Operate" Switch and programmable disconnect	1	1
GB25900SND-XX	GB25900N-XX	Outdoor speakerphone, programmable single number dialer, "Push to Operate" Switch and programmable disconnect	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order

GB59 and GB259 Series Options

Code	Description
H	14" Armored Cord
Y	"Emergency" Logo
L	Housing less Logo

Code	Description
T	Noise Canceling Transmitter
P	Spring Loaded Door
M	Metal Dial

Telephones

ADA Outdoor Telephones

- Housings are constructed of die cast aluminum and electrostatically deposited enamel finish
- Handset with 29" armored cord, amplified receiver, spring loaded door
- Braille labeling and ID tones
- Two LED lamps to indicate "on" and "help on the way"
- All housings are equipped with gaskets and the logo "telephone". Other logos available upon request.
- GB70H housing is equipped with a push latch which can be disengaged to meet local ADA requirements
- Outdoor speakerphones are **not** recommended for temperatures below -5°F (-20°C)
- See Page 64 for telephone dimensions and weights



GB70VS02

Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB70H-XX	N/A	Outdoor housing only	1	1
GB70VNXX	GB70VN-LH	No dial, can be used with auto ringdown circuits, equipped with amplified receiver	1	1
GB70VSXX	GB70VS-LH	Single line programmable single number dialer, equipped with amplified receiver	1	1
GB72VXX	GB72V-LH	Single line pushbutton tone dial equipped with amplified receiver	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order

ADA Outdoor Telephones

- Housing is constructed of die cast aluminum and electrostatically deposited enamel finish
- Braille labels and ID tones
- Two LED lamps to indicate "on" and "help on the way"
- All housings are equipped with gaskets and the logo "telephone". Other logos available upon request
- Auto answer
- Can be used for ringdown circuits or single number auto dialing
- Remote programmable
- Outdoor speakerphones are **not** recommended for temperatures below -5°F (-20°C)
- See Page 64 for telephone dimensions and weights



GB97NADA02

Part Number	Speakerphone less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB97NADAXX	GB25900N-ADA-LH	Less dial for automatic ringdown circuits	1	1
GB97SNDADAXX	GB25900SNDADALH	Outdoor speakerphone remote programmable single number dialer	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order

ADA Outdoor Telephones

- Speakerphone is constructed of high impact polycarbonate material
- Braille labels and ID tones
- Two LED lamps to indicate "on" and "help on the way"
- Auto answer
- Can be used for ringdown circuits or single number auto dialing
- Remote programmable
- Outdoor speakerphones are **not** recommended for temperatures below -5°F (-20°C)
- See Page 64 for telephone dimensions and weights



GB32390SND

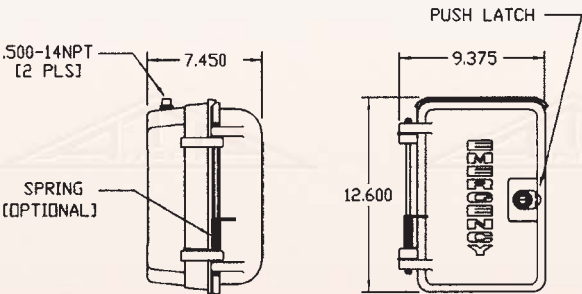
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB32390	Less dial for automatic ringdown circuits	1	1
GB32390SND	Outdoor speakerphone remote programmable single number dialer	1	1

Telephones

Outdoor Telephone Specifications

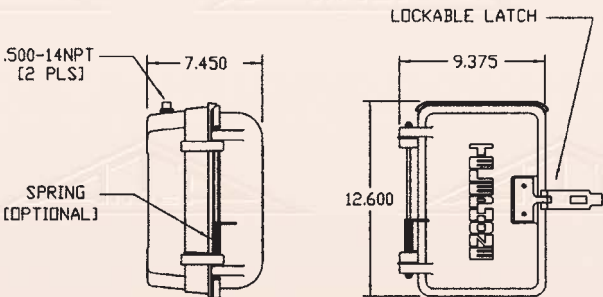
GB90 Series

Wt: Housing Only	11 lb
Wt: e/w tel set	14 lb



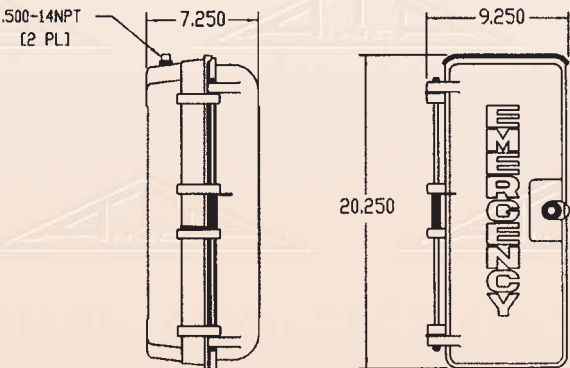
GB59 Series

Wt: Housing Only	11 lb
Wt: e/w tel set	14 lb



GB70 Series

Wt: Housing Only	16 lb
Wt: e/w tel set	20-21 lb



GB32390 Series

Wt:5 lb
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Telephones

Telephone Programming Options

These telephone sets are equipped with field programmable memory locations with ability to program special options with a maximum of 32 digits per location.

GB59V	(p. 62)	GB524V	(p. 68)
GB70V	(p. 63, 78)	GB259V	(p. 61- 62)
GB72V	(p. 63, 78)	GB306V	(p. 70)
GB90V	(p. 61)	GB2512V	(p. 70)
GB92V	(p. 61)	GB2523V	(p. 68)
GB252V	(p. 66)	GB2524V	(p. 68)
		GB2554V	(p. 69)

Ordering Information

Option A	2 Number Auto Dialer, less dial pad
Option B	10 Number Auto Dialer, with dial pad
Option C	20 Number Auto Dialer, with dial pad
Option E	50 Number Auto Dialer, with dial pad
Option TR	Toll Restriction

1. Restricts 411
2. Number 1 as first digit - (Restricts long distance call)
3. Number 0 as first digit - (Restricts international call)
4. Restricted number of digits being dialed.

Ex: If number 3 is programmed, the user can only push 3 digits on the dial, the 4th digit is blocked out.



GB59VAH-LH
(Less housing)

Example (with housing)	GB59V	A	04	H
Basic Tel Set - Outdoor Tel				
Auto Dialer - 2 Number Auto Dialer				
Color - Yellow housing				
Accessories - Armored Cord				

Note:

1. Line Powered with no batteries or AC power requirement
2. Compatible with 24 and 48 volt PBX Systems
3. **Not** recommended for temperatures below -5°F (-20°C)
4. These phones are not compatible with Noise Canceling Transmitters
5. Special Silk Screen is available on special orders
6. Operating Instructions included with each telephone

Telephones

Outdoor Telephone Accessories



- Steel protective cover measures 12”H x 10”W x 4”D
- Finished in red baked enamel

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB31932	Steel protective cover	1	1



- Outdoor enclosure, galvanized steel
- Plywood backboard with mounting holes for the “optional” GB5955LAF bracket
- Meets NEMA Type 3R, UL50 Type 3R, CSA3, IEC529, IP32
- Outside dimensions: 12”H x 12”W x 6”D
- Inside dimensions: 10.25”H x 10.25”W x 5”D

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB31858	Outdoor enclosure Red	1	1
GB31858-00	Outdoor enclosure Black	1	1



- Adapter frame is designed to mount a standard single line wall or mini-wall in the GB90H and GB5955H housings

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB5955-LAF	Adapter frame	1	1



- Designed for mounting outdoor telephones on poles measuring 2 1/2” to 6” in diameter
- Furnished with stainless steel straps and mounting bolts for drilling and tapping the pole

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB5955-PMB	Pole mounting bracket	1	1

Elevator and Emergency Telephones

- Telephone sets are designed for flush mounting in elevators or halls
- Constructed of heavy-gauge sheet steel finished in baked enamel
- Handset contains a powerful magnet which holds it securely in place
- Handsets are equipped with hearing aid compatible (HAC) amplified receiver units with automatic volume reset
- All models are telephone line powered
- See Page 65 for options available for multi-dial features
- See Page 67 for dimensions of telephone mounting accessories



GB252VD



GB252VS



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB522VD	Telephone set equipped with amplified receiver and a pushbutton (rotary) pulse dial. No outlet box. Color - Black	1	1
GB522VN	Telephone set less dial equipped with amplified receiver. No outlet box. Color - Black	1	1
GB252VD	Telephone set equipped with amplified receiver and push-button tone dial. No outlet box. Color - Black.	1	1
GB522VS	Telephone set equipped with amplified receiver programmable, single number auto dialer. No outlet box. Not recommended when temperatures are below freezing. Color - Black.	1	1

GB62247 outlet box optional

Telephones

Elevator and Emergency Telephones

- Telephone sets are designed for flush mounting in elevators or halls
- Constructed of heavy-gauge sheet steel finished in baked enamel
- Standard colors blue and red - Custom colors available
- Speakerphone models are remote programmable
- All models are telephone line powered
- See below for dimensions of telephone mounting accessories



GB2555



GB555SND

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB555N	Speakerphone with outlet box and ringer, less dial and less GB62248 trim frame. Remote programmable dialing capabilities. Color - Blue	1	1
GB2555	Speakerphone with tone dial, outlet box and ringer. Less GB62248 trim frame. Remote programming capabilities. Color - Blue	1	1
GB555SND	Speakerphone with outlet box, ringer and single number dialer. Less GB62248 trim frame. Remote programmable dialing capabilities. Color - Blue	1	1

Add 47 to part number for Red

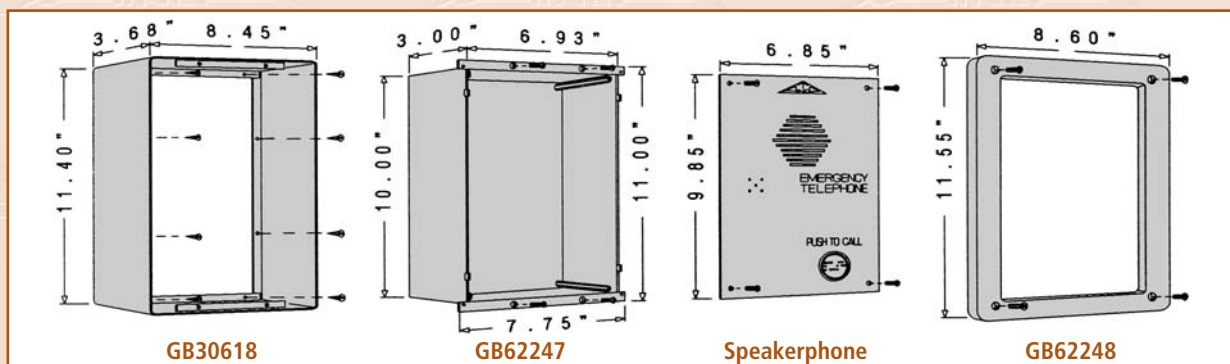
Elevator and Emergency Telephone Options

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB30618	Surface mounting frame will mount any speakerphone as well as any of the GB522V or GB252V telephones equipped with the optional GB62247 outlet box	1	1
GB62247	Outlet box. Color - Black	1	1
GB62248	Trim Frame. Color - Black	1	1

Notes

1. For those models not furnished with an outlet box, order the GB62247 outlet box separately
2. The GB62248 trim frame is optional for all models
3. All models are equipped with straight line ringer
4. Dimensions of telephone sets only (less wall can and frame) are: 9.846"H x 6.78"W x 2.84"D
5. Outlet box will fit a recess measuring approximately 10 "H x 7.75"W x 3"D

Dimensions



Telephones

Elevator and Emergency Telephones

- The GB523V and GB524V telephones are equipped with high stress armored cords and vandal resistant hardware
- Amplified receiver and auto volume reset button
- Baked on enamel finish
- Standard colors black and red - Custom colors available
- GB523V models are designed to be mounted in existing outlet boxes that are at least 7"W x 10"H x 3"D or with the optional GB62247 outlet box and GB62248 trim frame
- GB524V models are designed to flush mount in an existing opening. They come complete with outlet box, trim frame and a magnetic hinged door equipped with a pull handle
- See Page 65 for options available for multi-dial features
- See Page 67 for dimensions of telephone mounting accessories



GB524-L1-XX



GB523VN47

Without GB524-L1-XX	With GB524-L1-XX	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB523VNXX	GB524VNXX	No Dial	1	1
GB523VXX	GB524VXX	Pushbutton Pulse Dial	1	1
GB2523VXX	GB2524VXX	Pushbutton Tone Dial	1	1
GB523VSXX	GB524VSXX	Auto Dialer Line Powered	1	1
GB524-L1-XX		Wall can/Door and frame assembly for use with GB523 series only	1	1

XX Colors: 00-Black; 47-Red

Elevator and Emergency Telephones

- Standard colors blue and red - Custom colors available
- GB31454 and GB31454SND measure 7"H x 4.5"W x 2.5"D
- Activated by a momentary pushbutton
- Line powered
- LED indicates an "off hook" condition
- GB31454 is for auto ringdown or dedicated lines
- GB31560 measures 9.7"H x 4.5"W x 2.5"D
- Designed for indoor applications



GB31560



GB31454

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB31454	Mini speakerphone less dial, equipped with ringer and remote programmable disconnect for ARD circuits. Color - Blue	1	1
GB31454SND	Mini speakerphone equipped with single number remote programmable autodialer, ringer and a remote programmable disconnect. Color - Blue	1	1
GB31560	Same as GB31454 except equipped with Dual Tone Multiple Frequency (DTMF) tone dial. Color - Blue	1	1

Add -47 to part number for Red

Telephones

ADA Elevator and Emergency Telephones

- Standard colors blue and red - Custom colors available
- Offered with a single number autodialer for emergency dialing and without the single number autodialer for automatic ringdown applications
- Remote programmable
- Activated by a momentary pushbutton and disconnected by the pushbutton or programmable to disconnect on silence or a time out of thirty seconds to ninety-nine minutes
- Braille labeling
- Two LED lamps to indicate "on" and "help on the way"
- I.D. tones to indicate location of the caller
- Auto answer and operator monitoring
- Line powered



GB555-ADA



GB31454-ADA

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB31454-ADA	Mini speakerphone, no dial. Color - Blue	1	1
GB31454SND-ADA	Mini speakerphone equipped with single number dialer. Color - Blue	1	1
GB555-ADA	Elevator/emergency speakerphone No dial. Color - Blue	1	1
GB555SND-ADA	Emergency telephone with single number dialer. Color - Blue	1	1

Add -47 to part number for Red

Single Line Telephones

- Fully modular
- Hearing aid compatible
- "A" lead control
- Dual gong ringer with volume control available on desk models
- Amplified receiver
- See Page 65 for options available for multi-dial features



GB2554V44AC



GB2554VN47



GB2500V44AC

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB2500V44AC	Desk telephone e/w 29" armored cord. Color - Ash	1	1
GB2554V44AC	Miniwall tel set e/w 29" armored cord. Color - Ash	1	1
GB2554VN00	Miniwall telephone set, no dial. Color - Black	1	1
GB2554VN44	Miniwall telephone set, no dial. Color - Ash	1	1
GB2554VN47	Miniwall telephone set, no dial. Color - Red	1	1
GB2554VS00	Miniwall telephone set equipped with single number dialer. Color - Black	1	1
GB2554VS44	Miniwall telephone set equipped with single number dialer. Color - Ash	1	1
GB2554VS47	Miniwall telephone set equipped with single number dialer. Color - Red	1	1

Telephones

Dial Card



- Used with standard pushbutton dial telephone sets
- 6 strips per card, 25 cards per package
- Dimensions: 1 3/4" x 7/16"

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATP2500-1	Dial Card	1	1

Courtesy Telephone



- Single line telephone
- Single number dialer
- Amplified receiver
- Lifting the handset off the hook activates the dialer
- Line powered
- Equipped with GB9849 apparatus blank
- See Page 65 for options available for multi-dial features

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB2512VSXX	Courtesy desk set e/w auto dialer	1	1

XX Colors: 00-Black; 44-Ash; 47-Red

Vandal Resistant Telephone



- Single line telephone
- Brushed stainless steel housing
- Metal tone dial with chrome-plated pushbuttons
- 29" armored cord
- Amplified receiver
- Heavy steel rear mounting plate
- Tamper proof hardware
- Housing dimensions: 11.00"H x 5.00"W x 2.35"D
- See Page 65 for options available for multi-dial features



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB306V	Vandal resistant telephone	1	1
GB306VN	No dial	1	1
GB306VS	Equipped with programmable single number dialer	1	1
GB116	Electret transmitter, add "ET" to part number	1	1
GB117	Noise canceling transmitter add "T" to part number	1	1

Telephones

Galaxy Telephones



- Flush mount telephone
- Color matching handset, cord and trim frame
- Line powered
- Galaxy frontal dimensions are 10" wide by 12" high

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB275VXXF	Single line Galaxy telephone equipped with tone dial, s/s trim mat and amplified receiver	1	1
GB2765-XX-A	Galaxy speakerphone. Includes trim frame, brushed aluminum mat, wall can and pushbutton tone dial	1	1

XX Colors: 00-Black; 13-Beige; 14-Grey; 15-White (Handset cord and trim frame color)

Galaxy Accessories

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB2750-L5-XX	Trim frame	1	1
GB275-L9F	Stainless steel trim mat	1	1
GB750-L1	Wall can 8 1/2" W x 10 1/2" H x 3 3/8" D	1	1

XX Colors: 00-Black; 13-Beige; 14-Grey; 15-White

Rack Mounted Telephones

- Horizontal mounting on 19" rack
- Tone dial
- Dimensions: 19"L x 3.468"W x 4.240"D



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB2654D	Rack mounted telephone	1	1

Handsets

- Amplified receiver
- Volume control in the center of the handle
- Modular handset does not include handset cord



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBG6B-XX	Amplified receiver handset equipped with 6' coiled cord	1	1
GBG6M-XX	Modular amplified receiver handset less cord	1	1

XX Colors: 00-Black; 09-Ivory; 13-Beige; 14-Grey; 15-White; 44-Ash; 45-Cocoa Brown; 47-Red

Handset Accessories

- Add "ET" to handset part number for electret transmitter for better clarity of transmission
- Add "NCT" to handset part number for noise canceling transmitter
- Receiver units on all models are hearing aid compatible
- 6' cords are furnished with non-modular handsets. Add (-12) for 12-foot cord or (-25) for 25-foot cord

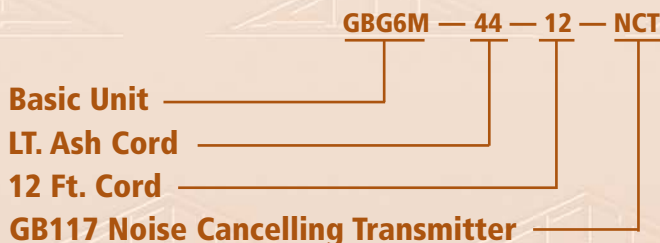


GB116

GB117

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB116	Electret transmitter	1	1
GB117	Noise canceling transmitter	1	1

Ordering Example



Telephones

Handset Assemblies

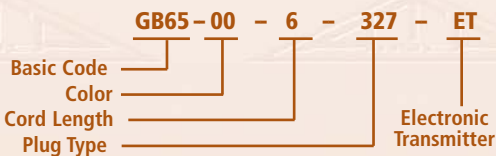
- Handsets can be equipped with the GB116 electret transmitter by adding the code "ET" to the part number
- Handsets can be equipped with the GB117 noise canceling transmitter by adding the code "NCT" to the part number
- All models equipped with hearing aid compatible receiver units



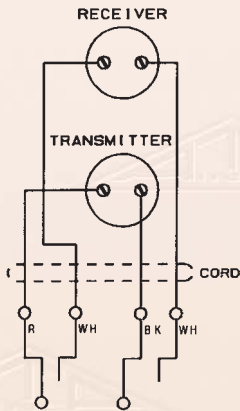
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB65	Plug-ended handset assembly	1	1
GB69	Similar to GB65 series with the addition of the "push to talk" feature. Can also be wired for "push to listen" or "push to signal"	1	1

Standard Wiring Diagrams for GB65 Type Handsets

- Special Wiring Available per Customer's Specifications



Ordering Example - ADD-NCT For Noise Canceling Transmitter



AT327
Schematic No.2

Color - "G" Models

(Code)	Color
00-Black	15-White
09-Ivory	44-Light Ash
13-Beige	45-Cocoa Brown
14-Lt. Grey*	

*Cord is hard wired to handset end

Cord Length

Code	Cords
6	4 cond. 6ft.
12	4 cond. 12ft.
25	4 cond. 25ft.

(Cord lengths are shown for cords extended.)

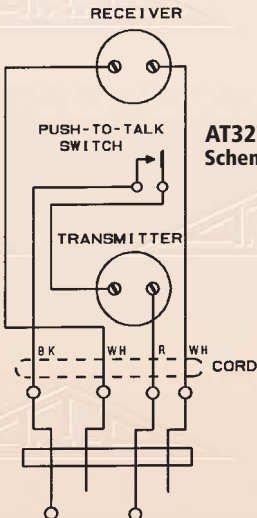
NOTE: For modular handset add code M after basic code.

Plug Types

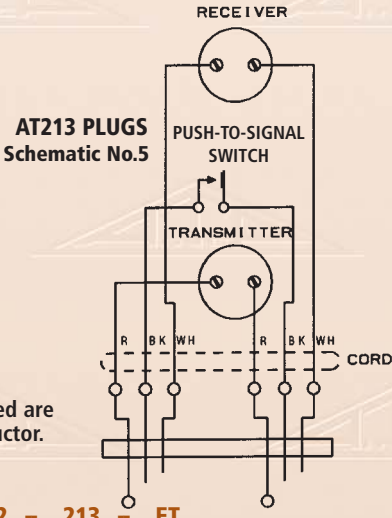
Code	Plugs
327	AT327 Double plug
M	4 Cond. Modular

Standard Wiring Diagrams for GB69 Type Handsets

- Special Wiring Available per Customer's Specifications

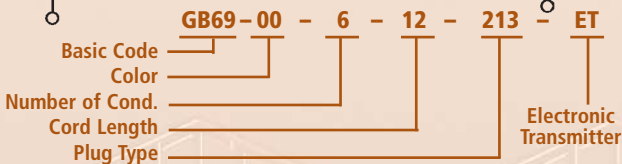


AT327
Schematic No.4



AT213 PLUGS
Schematic No.5

NOTE: 14-Grey and 47-Red are not available in 6-conductor.



Color - "G" Models

(Code)	Color
00-Black	15-White
09-Ivory	44-Light Ash
13-Beige	45-Cocoa Brown
14-Lt. Grey*	

*Cord is hard wired to handset end

Coiled Cord Length

Standard		Special	
Code	Cords	Code	Cords
4-6	4 cond. 6ft.	6-6	6 cond. 6ft.
4-12	4 cond. 12ft.	6-12	6 cond. 12ft.
4-25	4 cond. 25ft.	6-25	6 cond. 25ft.

(Cord lengths are shown for cords extended.)

NOTE: 6 conductor cords are spade-ended only.

Plug Types

Code	Plugs
327	AT327 Double plug
213	AT213 Double Plug
M	4 Cond. Modular

Telephones

Armored Handsets

- Stainless steel armored cable
- Hearing aid compatible receiver identified by blue grommet
- Vandal and moisture resistant transmitter
- Optional noise canceling transmitter (add "NCT" to part number) and electret transmitter (add "ET" to part number) are available on all handsets



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB6500AC-A	Handset assembly for GTE coin telephone set equipped with 29" armored cord with 3" lead	1	1
GB6500AC-C	Handset assembly for AT&T (W.E.Co.) and Northern Telecom coin telephone sets other than Centurion. Equipped with 29" armored cord with 8" lead	1	1
GB6500HB-A	Same as GB6500AC-A except equipped with blue grommet	1	1
GB6500HB-C	Same as GB6500AC-C except equipped with blue grommet	1	1
GBG3AL-00	Handset assembly for 10 and 20 type AT&T coinless telephone sets. Equipped with blue grommet	1	1
GBG3AM-00	Handset assembly for AT&T coin telephone sets, 30" high-stress stainless steel cable and blue grommet. Furnished with cemented transmitter and receiver caps	1	1
GBG3GTE-00	Handset assembly for GTE 120 type coin telephone sets, 31.5" high-stress stainless steel cable and blue grommet. Furnished with cemented transmitter and receiver caps	1	1

Note: 00-Black is the standard color; also available in 13-Beige; 14-Grey and 45-Cocoa Brown

Armored Cords and Accessories



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBH4DA-A	For "G" type handset and GTE coin telephone sets. 29" armored cord equipped with 3" leads	1	1
GBH4DA-C	For "G" type handsets and AT&T or Northern Telecom coin telephone sets. 29" armored cord equipped with 8" leads	1	1
GBH4DA-PM	Adapter designed to mount an armored cord to a panel. Machined metal block supplied with mounting hardware. Not designed for use with high-stress cable	1	1
GBH4HS-PM	Adapter designed for armored cords with high-stress cable	1	1
GB10363	Handset weight, used in handsets for more positive hookswitch action. Weight is 3 oz. designed for Allen Tel handset assemblies only	1	1
GB10705	Blue grommet. Identifies telephone instruments equipped with hearing aid compatible receiver	1	1
GB30152	Bracket for mounting a GBG3AM cord in the type one AT&T coin telephone set	1	1
GB116	Electret transmitter	1	1
GB117	Noise canceling transmitter	1	1

Note: Standard length of armored cable is 29".

Other standard lengths available: 14", 36", 48", 54" and 72". Custom lengths also available.

Telephones

Handset Hangers and Hookswitch Assemblies

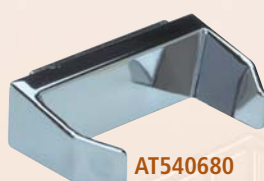
- The AT series of handset hangers and hookswitch assemblies are designed for custom mounting of "G" type handsets in either vertical or horizontal positions
- See Page 75 for hanger and hookswitch assembly dimensions



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1813-C	Thermal plastic universal handset hanger which permits horizontal or vertical placement of handset. Mounts from the rear. Chrome plated	1	1
AT1813-00	Same as AT1813-C except Black	1	1
AT1813-14	Same as AT1813-C except Grey	1	1
AT10806	Same as AT1813-C except e/w front mount metal bracket	1	1



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT1900	Universal handset hanger for either horizontal or vertical placement of handset. Chrome plated cast metal	1	1
AT1977	Same as AT1900 except e/w chrome plated surface mounting bracket	1	1

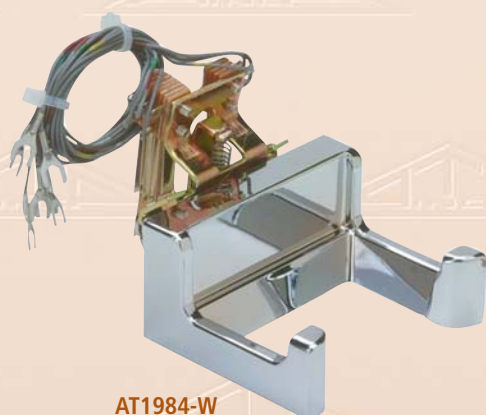


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT540680	Chrome plated cast metal hanger for mounting handset in vertical position. Mounts from the rear	1	1



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT8974	Same as AT540680 with the addition of a surface mounted bracket used where mounting from the rear is not desired	1	1
AT21541-XX	High-impact thermoplastic cup type handset hanger e/w four form "C" switch combinations for standard 7 to 9 wire telephone hookswitch operation	1	1
AT21541-1904	High-impact thermoplastic cup type handset hanger e/w two form "C" switch combinations for standard 6 wire telephone hookswitch operation with additional locking clip	1	1

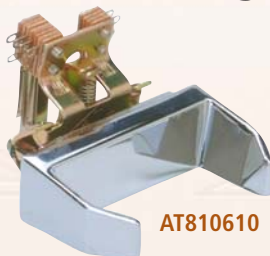
XX Colors: 00-Black; 13-Beige; 15-White Note: AT21541-1904 Black only



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT10784A-CW	Chrome plated plastic handset hanger for vertical or horizontal handset mounting and three form "C" (transfer) switch combinations for standard 7 wire telephone hookswitch operation. Adjustable for panel thickness .060" to .125"	1	1
AT10784A-C	Same as AT10784A-CW except unwired	1	1
AT10784A-14	Same as AT10784A-C except Grey	1	1
AT1984	Same as AT10784A-C except e/w AT1900 chrome plated metal handset hanger	1	1
AT1984-W	Same as AT1984 e/w 7 spade-tipped 12" wire leads	1	1

Telephones

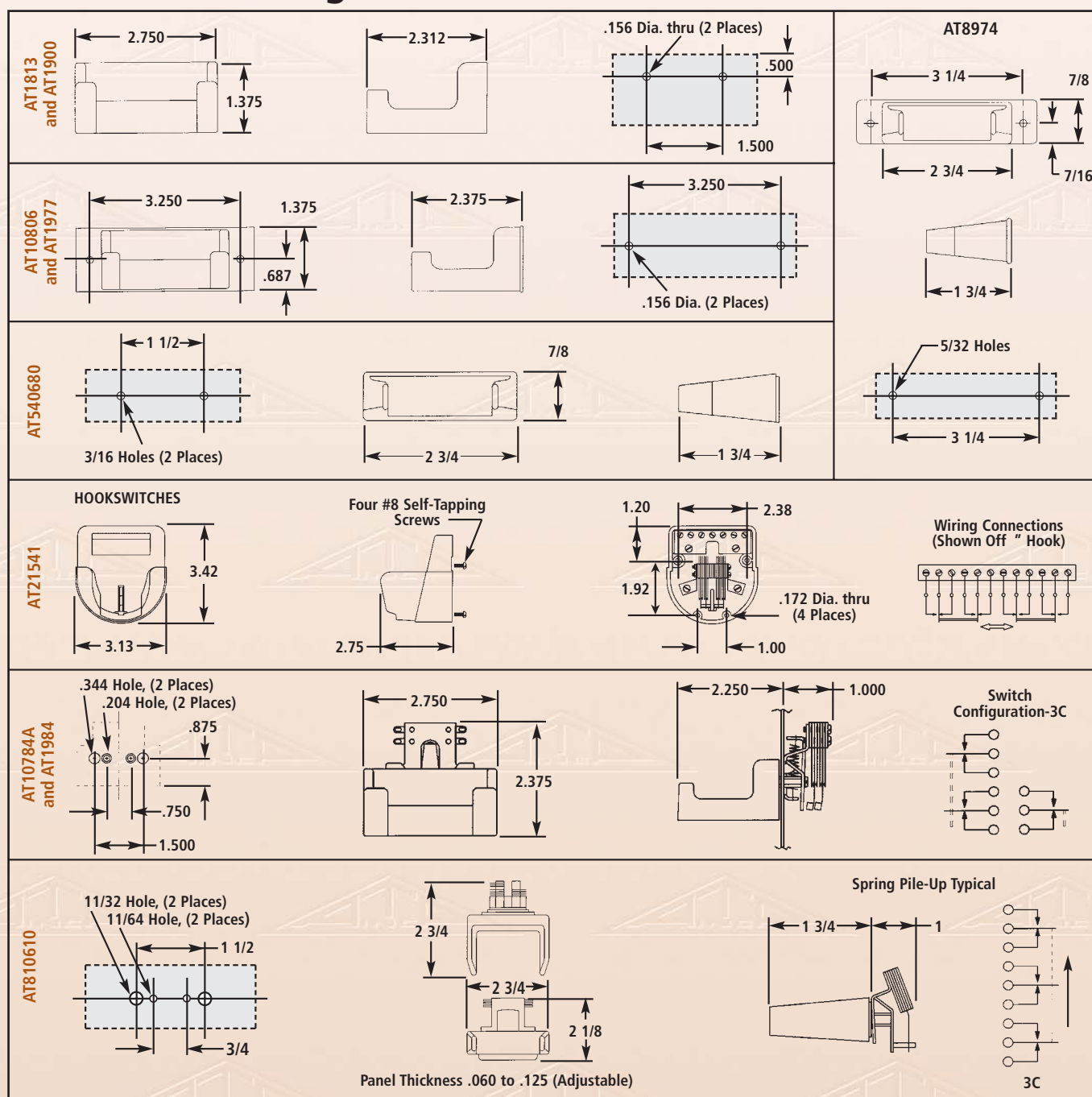
Handset Hangers and Hookswitch Assemblies



AT810610

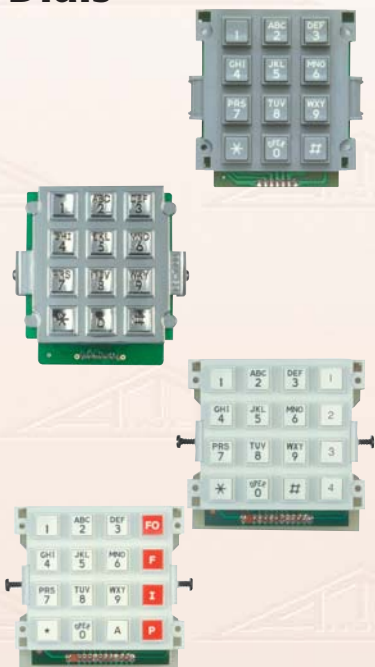
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT810610	Chrome plated cast metal hanger for vertical handset installations and three form "C" (transfer) switch combinations for standard 7 wire telephone hookswitch operation adjustable for panel thickness .060" to .125"	1	1
AT810610-W	Same as AT810610 except pre-wired with 7 spade-tipped 12" leads	1	1

Panel Mounting Detail



Telephones

Dials



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AP1816	Pushbutton tone dial	1	1
AP50	Pushbutton pulse dial	1	1

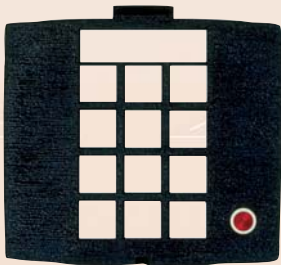
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT71	Weather resistant metal tone dial with 12 chrome plated pushbuttons	1	1

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT88	16 Button tone dial for data applications	1	1

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT95G	16 Button tone dial for autovon service	1	1

Message Waiting Kit

- Designed for the conversion of a standard 2500-type telephone to one with the "message waiting" feature
- Consists of a 2500-type faceplate e/w neon lamp assembly. Lamp will start at 90 volts DC and sustain at 60 volts
- Normal AC operating voltage from 65 to 110 volts



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB2500WK-XX	Message waiting kit	1	1
GB2500WK	Message waiting kit less faceplate	1	1

XX Colors: 00-Black; 09-Ivory; 12-Beige; 15-White; 44-Ash; 45-Cocoa Brown; 47-Red

Apparatus Blank

- Replaces the pushbutton dial panel on 2500-type telephone sets



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB9849	Apparatus blank brushed aluminum finish	1	1
GB9849-XX	Apparatus blank baked enamel finish	1	1

XX Colors: 00-Black; 12-Beige; 15-White; 44-Ash; 45-Cocoa Brown; 47-Red

ADA Telephones

Allen Tel Products, Inc. is a leading manufacturer of ADA compliant quality telephone solutions for standard and custom applications.

Product Features:

- Instant Emergency Calling
- Braille Labeling
- "On-Line" and "Help on the Way" LED Lamps
- Identification Tones
- Auto Answer
- Remote Programmable
- Line Powered

We offer a comprehensive line of ADA Outdoor, Hall / Emergency and Elevator Telephones. All of our products are designed to provide quality performance and installation ease, resulting in cost-effective, reliable solutions.

Custom engineering and manufacturing is a standard service.

ADA Outdoor TelephonesPage 78

ADA Elevator and Emergency TelephonesPage 79

ADA Telephones

ADA Outdoor Telephones

- Housings are constructed of die cast aluminum and electrostatically deposited enamel finish
- Handset with 29" armored cord, amplified receiver, spring loaded door
- Braille labeling and ID tones
- Two LED lamps to indicate "on" and "help on the way"
- All housings are equipped with gaskets and the logo "telephone". Other logos available upon request.
- GB70H housing is equipped with a push latch which can be disengaged to meet local ADA requirements
- See Page 64 for telephone dimensions and weights



GB70VS02

Series	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB70H-XX	N/A	Outdoor housing only	1	1
GB70VNXX	GB70VN-LH	No dial, can be used with auto ringdown circuits, equipped with amplified receiver	1	1
GB70VSXX	GB70VS-LH	Single line programmable single number dialer, equipped with amplified receiver	1	1
GB72VXX	GB72V-LH	Single line pushbutton tone dial equipped with amplified receiver	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order

ADA Outdoor Telephones

- Housing is constructed of die cast aluminum and electrostatically deposited enamel finish
- Braille labels and ID tones
- Two LED lamps to indicate "on" and "help on the way"
- All housings are equipped with gaskets and the logo "telephone". Other logos available upon request.
- Auto answer
- Can be used for ringdown circuits or single number auto dialing
- Remote programmable
- Outdoor speakerphones are **not** recommended for temperatures below -5°F (-20°C)
- See Page 64 for telephone dimensions and weights



GB97NADA02

Part Number	Tel Set less Housing	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB97NADAXX	GB25900N-ADA-LH	Less dial for automatic ringdown circuits	1	1
GB97SND-ADA-XX	GB25900SNDADALH	Outdoor speakerphone remote programmable single number dialer	1	1

XX Colors: 00-Black; 02-Red; 04-Yellow; 14-Grey Other colors available on special order

ADA Telephones

ADA Outdoor Telephones



GB32390SND

- Speakerphone is constructed of high impact polycarbonate material
- Offered with a single number autodialer for emergency dialing and without the single number autodialer for automatic ringdown applications
- Braille labels and ID tones
- Two LED lamps to indicate "on" and "help on the way"
- Auto answer
- Can be used for ringdown circuits or single number auto dialing
- Remote programmable
- Outdoor speakerphones are **not** recommended for temperatures below -5°F (-20°C)
- See Page 64 for telephone dimensions and weights

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB32390	Less dial for automatic ringdown circuits	1	1
GB32390SND	Outdoor speakerphone remote programmable single number dialer	1	1

ADA Elevator and Emergency Telephones



GB555-ADA



GB31454-ADA

- Standard colors blue and red - Custom colors available
- Offered with a single number autodialer for emergency dialing and without the single number autodialer for automatic ringdown applications
- Remote programmable
- Activated by a momentary pushbutton and disconnected by the pushbutton or programmable to disconnect on silence or a time out of thirty seconds to ninety-nine minutes
- Braille labeling
- Two LED lamps to indicate "on" and "help on the way"
- I.D. tones to indicate location of the caller
- Auto answer and operator monitoring
- Line powered

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB31454-ADA	Mini speakerphone, no dial. Color- Blue	1	1
GB31454SND-ADA	Mini speakerphone equipped with single number dialer. Color - Blue	1	1
GB555-ADA	Elevator/emergency speakerphone. Color - Blue	1	1
GB555SND-ADA	Emergency telephone w/single number dialer. Color - Blue	1	1

Add 47 to part number for Red

Telephone Accessories

Allen Tel Products, Inc. is a leading manufacturer of quality auxiliary telephone products and accessories.

- Headset Hangers
- Line Boxes
- Miniature Buzzers
- Jack Boxes
- Adapters
- Telephone Plugs and Jacks

Our objective is to provide customers with reliable telephone accessories and reduce reliance on multiple manufacturers by providing a single point of contact.

Headset Hanger	Page 81	Multiline Adapter	Page 85
Double Plugs.....	Page 81	Modular Adapter.....	Page 85
Line Box.....	Page 81	Modular Adapter.....	Page 86
Miniature Buzzer.....	Page 81	Adapter Kit	Page 86
Jack Box.....	Page 82	Telephone Jack	Page 87
Mounting Bars	Page 82	Telephone Filter.....	Page 87
Suppressor Module.....	Page 82	In-Line Coupler	Page 87
Adapter.....	Page 82	Modular Coupler	Page 88
Plug Adapter	Page 83	Modular Adapter	Page 88
Modular Adapter Plug	Page 83	"T" Adapter.....	Page 89
Adapter.....	Page 83	Modular Telephone Jack.....	Page 91
Bridging Adapter.....	Page 84		

Telephone Accessories

Headset Hanger



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AP929	Headset hanger consists of a plastic coated metal hook bracket and hardware for mounting headsets on a vertical panel or surface	1	1

Double Plug



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT213	Double plug, high-impact type plastic shell and two 3-conductor (Tip, Ring, Sleeve) plug inserts. Fit jacks mounted on 5/8" centers	1	1

Double Plug



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT327-XX	Double plug, two 2-conductor (Tip, Sleeve) plug inserts. Designed to fit standard telephone jacks which are mounted on 5/8" centers	1	1

XX Colors: 00-Black; 44-Ash

Line Box



- Used when a common battery network is required such as long loops
- Black aluminum box 3 1/2" x 4 1/2" x 2 5/16"
- Consists of a telephone network and 2 tip-sleeve jacks, 1-MT331 and 1-MT333 (for line control).
- Jacks mounted on 5/8" centers

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB128C	Line box	1	1

Miniature Buzzers



- Alternating current (20 to 60 hertz) operation of these buzzers eliminates the radio frequency noise usually associated with DC-operated devices
- Screw adjustment at the top acts as a volume control
- Dimensions: 3/4"W x 7/8"H x 1 7/16"L supplied with two spade-ended connecting leads approximately 7 1/2" long

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB8A	Miniature buzzer-operating voltage 6 to 10 volts	1	1
GB8B	Miniature buzzer-operating voltage 10 to 30 volts	1	1
GB8X	Miniature buzzer-operating voltage 85 to 105 volts primarily used as a replacement telephone ringer	1	1

Telephone Accessories

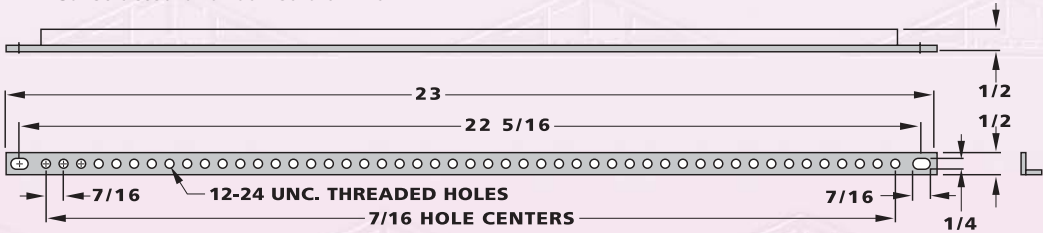
Jack Box



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB101A-M	Jack box – metal housing e/w 2-MT331 tip-sleeve long frame telephone jacks	1	1
GB101B-M	Jack box – metal housing e/w 2 MT332B tip-ring-sleeve long frame telephone jacks	1	1

Mounting Bars

- Designed for mounting panel key telephones and other miscellaneous equipment on racks or in apparatus cabinets
- Constructed of anodized aluminum



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB67A	Mounting bar for 19" equipment rack	1	1
GB67B	Mounting bar for 23" equipment rack	1	1

Suppressor Module

- Designed for suppressing radio frequency interference from within a telephone set's circuitry
- Mounts inside the telephone set by the use of adhesive backing
- Dimensions: 1 1/2"L x 1/2"W x 1 1/4"H equipped with terminations for line insertion



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB10427	Suppressor Module	1	1

Adapter



- Adapts a device, like a handset or headset, with a dual tip-sleeve 4-conductor plug to a 6-pos., 4-con. modular jack
- Contains 2 tip-sleeve jacks and a 6-position, 4-conductor modular jack
- Dimensions: 2.75"L x 1.312"H
- Housing meets UL 94 V.O. requirements

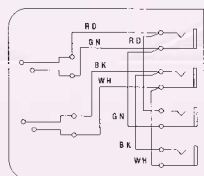
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB482	Adapter Ash	25	200

Telephone Accessories

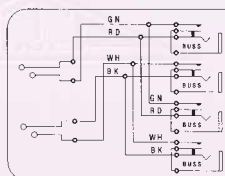
Plug Adapter



- Designed to plug into standard console and switchboard operator's headset jacks
- Consists of two pairs of tip-sleeve jacks, which are parallel connected to a 289 type double tip-sleeve plug
- Jacks are spaced on 5/8" centers
- To minimize transmission impairment when using the GB221F, it is recommended that this unit be used with headsets and handsets equipped with transmitter cutout or push-to-talk switches



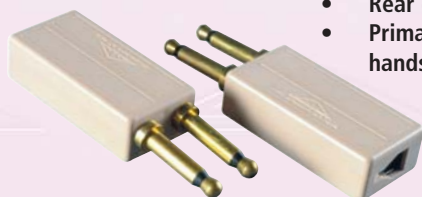
GB221



GB221F

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB221	Plug adapter	1	25
GB221F	Same as GB221 with the exception of special jacks. Designed to cut off the receiver of a headset if the headset transmitter is disconnected by partially withdrawing the plug	1	25

Modular Adapter Plug



- Double tip-sleeve plug designed to fit jacks mounted on 5/8" centers
- Rear of shell is equipped with a 4-conductor, 4-position modular jack
- Primary application is to adapt modular equipped handsets or headsets to PBX positions which accept double plug

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB478B-XX	Modular adapter plug	1	25

XX Colors: 00-Black; 13-Beige

Adapter



- Provides a simple means of switching between handset and headset
- Consists of a 2-position throw-over switch wired to two 4-conductor, 4-position modular jacks and a 4-conductor 8" modular cord and plug
- Dimensions: 2" square by 1 1/8" high
- An adhesive strip is provided for mounting

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB477	Adapter Ash	1	25

Adapter



- Adapts a headset or handset equipped with dual tip-sleeve, 4-conductor plug to a modular telephone or other device
- Consists of a two-foot retractile cord, an AT4x4 4-conductor modular handset plug and a plastic housing containing two tip-sleeve jacks
- Furnished with two velcro adhesive strips
- Dimensions: 2.75"L x 1.5"W x 1.312"h

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GB480	Headset/Handset Adapter Ash	1	25

Telephone Accessories

Bridging Adapter



- Bridging adapter mounts between two 50-pin connectors on 25-pair inside wiring cables permitting access to designated cable pairs
- Male and female 50-pin connectors are wired together on a pin-to-pin basis
- Five 6-position modular jacks are mounted at the top of the unit and bridged across the cable pair
- Each jack is marked to indicate the modular pin number and the connector pin number to which it is connected
- Grey plastic housing
- UL Listed and CSA Listed

Part Number	Modular Jack	Miniature Ribbon Assembly Contact Pairs, Modular Jack Position				
	Pin Amount per Jack	1	2	3	4	5
AT450A	4	(1,26) (2,27)	(4,29) (5,30)	(7,32) (8,33)	(10,35) (11,36)	(13,38) (14,39)
AT450-SM1	2	(1,26)	(2,27)	(3,28)	(4,29)	(5,30)
AT450-SM2	2	(6,31)	(7,32)	(8,33)	(9,34)	(10,35)
AT450-SM3	2	(11,36)	(12,37)	(13,38)	(14,39)	(15,40)
AT450-SM4	2	(16,41)	(17,42)	(18,43)	(19,44)	(20,45)
AT450-SM5	2	(21,46)	(22,47)	(23,48)	(24,49)	(25,50)
AT450-SM6	4	(1,26) (2,27)	(3,28) (4,29)	(5,30) (6,31)	(7,32) (8,33)	(9,34) (10,35)
AT450-SM7	4	(11,36) (12,37)	(13,38) (14,39)	(15,40) (16,41)	(17,42) (18,43)	(19,44) (20,45)
AT450-SM8	4	(21,46) (22,47)	(23,48) (24,49)			
AT450-SM10	6	(1,26) (2,27) (3,28)	(4,29) (5,30) (6,31)	(7,32) (8,33) (9,34)	(10,35) (11,36) (12,37)	(13,38) (14,39) (15,40)
AT450-SM11	6	(16,41) (17,42) (18,43)	(19,44) (20,45) (21,46)	(22,47) (23,48) (24,49)		
AT450-SM12	4	(1,26) (2,27)	(4,29) (2,30)	(7,32) (2,33)	(10,35) (2,36)	(13,38) (2,39)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT450 Series	Bridging adapter	1	20

Bridging Adapter



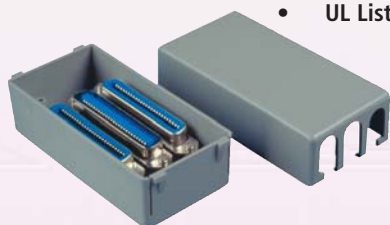
- Provides input-output connections (bridging) for 25-pair cable
- Consists of twenty-five 2-cond., 6-pos. RJ11 jacks wired to two 25-pin connectors (one male and one female) in standard tip-ring sequence for series connection
- RJ21X applications
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT125-SM	Bridging adapter	1	40

Telephone Accessories

Bridging Adapter

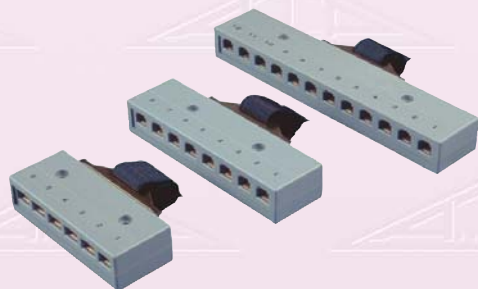
- Assemblies consisting of three 25-pair ribbon plugs (P-Male) and/or connectors (C-Female) mounted in a grey thermoplastic housing with cover
- Permits connecting two 25-pair cables across a single plug or connector terminated 25-pair cable
- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT19252-L1	Bridging adapter (C-P-C)	1	70
AT19252-L2	Bridging Adapter (P-C-P)	1	70
AT19252-L3	Bridging adapter (P-P-P)	1	70
AT19252-L4	Bridging adapter (C-C-C)	1	70

Multiline Adapter

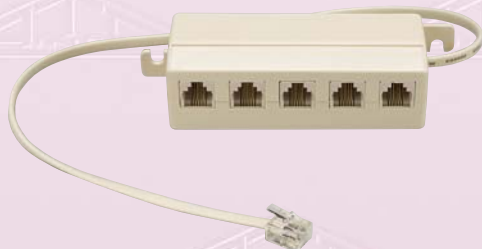
- Designed to provide a connection between 50-pin connector cables and 4, 6 or 8-conductor line cords
- Each unit consists of either a male 50-pin plug or a female 50-pin connector and 6, 8 or 12 modular jacks
- Each jack is clearly marked to identify its associated line circuit
- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT2412F	Female connector, 12 4-cond., 6-pos. jacks	1	100
AT2412M	Male plug, 12 4-cond., 6-pos. jacks	1	100
AT2608F	Female connector, 8 6-cond., 6-pos. jacks	1	100
AT2608M	Male plug, 8 6-cond., 6-pos. jacks	1	100
AT2806F	Female connector, 6 8-cond., 8-pos. jacks	1	100
AT2806M	Male plug, 6 8-cond., 8-pos. jacks	1	100
AT2812FTBT	Female connector, 12 4-cond., 8-pos. jacks wired for 10BASE-T	1	100
AT2812MTBT	Male plug, 12 4-cond., 8-pos. jacks wired for 10BASE-T	1	100

Modular Adapter

- Converts a single modular jack to five modular jacks
- Equipped with a 1 ft. 4-conductor modular cord and five 4-conductor, 6-position modular jacks



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT150	Modular adapter	1	20

Telephone Accessories

Modular Adapter



- Allows a single line telephone set, answering device, auto-dialer or other ancillary equipment to be connected to an existing 25-pair ribbon connector
- Grey plastic housing e/w a 6-position modular jack and a male 50-pin connector
- The jack on all units is 4-conductor except the AT153AM-06 which is 6-conductor
- UL Listed and CSA Listed
- Connections are made from the jack to the 50-pair connector as shown on the table below

Part Number	Connection Code					
	R	Y	G	BK	W	BL
AT153AM-01	26	27	1	2		
AT153AM-02	23	24	48	49		
AT153AM-03	50	49	25	24		
AT153AM-05	1	2	26	27		
AT153AM-06	26	27	1	2	50	25

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT153AM Series	Modular adapter	1	50

Modular Adapter

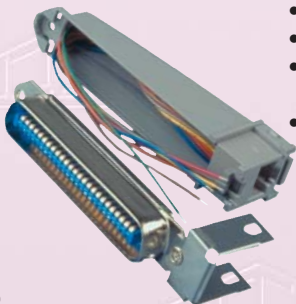


- Consists of a 50-pin male connector and an 8-conductor, 8-position non-keyed modular jack
- Adapter has internal wiring from the 8-position modular jack to terminals of the 50-pin connector
- Allows a single line telephone set, ancillary device or electronic key set equipped with an 8 conductor, non-keyed modular cord to be connected without rewiring
- UL Listed and CSA Listed
- The pairs appearing at the modular jack and the associated contacts on the 50-pin connector are shown on the table below:

Part Number	Cable Pairs	Tips Contacts	Ring Contacts
AT259A	1-4	26-29	1-4
AT259B	5-8	30-33	5-8
AT259C	16-17, 21-22	41-42, 46-47	16-17, 21-22

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT259 Series	Modular adapter	1	50

Adapter Kit



- Consists of a 25-pair, 50-conductor male ribbon connector in a plastic housing
- Jacks are e/w 7" color coded stranded leads
- Leads may be field soldered to any contacts on the connector in order to meet job wiring specifications
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT153K-M6	6-conductor, 6-position modular jack	1	25
AT153K-M8	8-conductor, 8-position modular jack	1	25

Telephone Accessories

Telephone Jack



- The AT404B telephone jack assembly contains 4-spring type sockets with screw terminals designed to terminate 4-conductor inside wiring cable and to mate with an AT283B plug
- Furnished with mounting screws

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT404B	Telephone jack	1	50

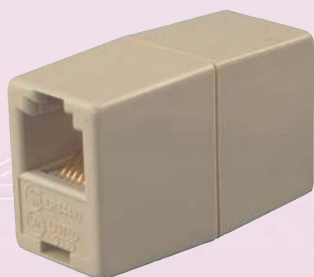
Telephone Filter



- Consists of a modular cord stub 5" in length which terminates into a thermoplastic housing containing a 2-contact, 6-position modular jack
- Used for elimination of radio frequency interference especially in the AM broadcast station band

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT100	Telephone filter	1	25

In-Line Coupler



- Back-to-back modular jacks providing a simple means of connecting two line cords together, ivory color
- The AT210-8-PP is wired pin-to-pin
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT210-4	4-conductor, 6-position in-line coupler	1	100
AT210-6	6-conductor, 6-position in-line coupler	1	100
AT210-6-PP	6-conductor, 6-position wired pin-to-pin	1	100
AT210-6-DEC	6-conductor, 6-position MMJ in-line coupler	1	100
AT210-8	8-conductor, 8-position in-line coupler	1	100
AT210-8-PP	8-conductor, 8-position wired pin-to-pin	1	100

Telephone Accessories

Modular Coupler



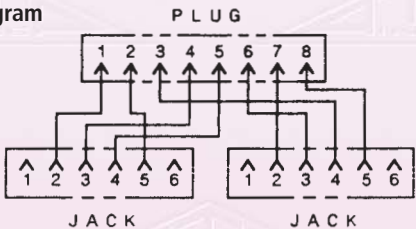
- Designed to allow two modular plug-ended line cords to be connected to one modular plug-ended line cord
- The AT330-4 coupler consists of one 4-conductor, 6-position jack with bridged connections to two 4-conductor, 6-position jacks
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT330-4	Modular coupler	1	50

Modular Adapter

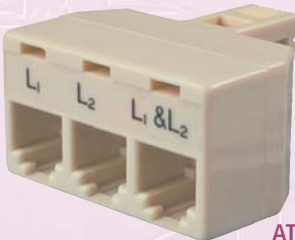


- Ivory adapter designed to route two lines connected to a modular plug to two modular line jacks
- UL Listed and CSA Listed
- Consists of an 8-conductor modular plug and two 4-conductor, 6-position modular jacks as shown on the wiring diagram

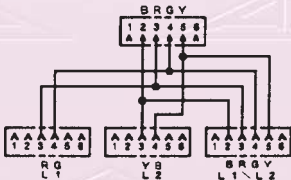


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT400E	Modular adapter	1	50

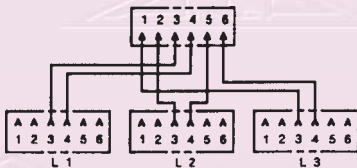
Modular Adapter



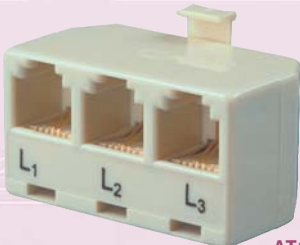
- The AT173 adapter is designed for use with a line jack arranged for a 2-line telephone system in accordance with USOC RJ14C and RJ14W
- AT173 consists of a 4-conductor, 6-position modular plug internally wired to three modular jacks as per the wiring diagram. Two single telephone sets and a 2-line set are accommodated
- The AT173A provides 6-contacts in the plug portion of the adapter, allowing connection of three single line phones to a single modular outlet. Labeled L1, L2 and L3



Wiring diagram for AT173



Wiring diagram for AT173A



AT173A

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT173	Triplex modular adapter	1	50
AT173A	Triplex modular adapter	1	50

Telephone Accessories

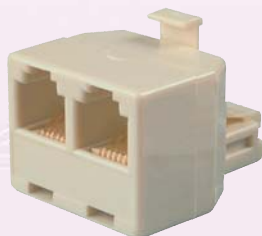
"T" Adapter



- Consists of one 4-conductor, 4-position handset modular plug connected by short handset cordage to an ivory assembly of two 4-conductor modular handset jacks
- Provides means to use two handsets or headsets on the line
- Used primarily for monitoring and instructional purposes

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT464	"T" adapter with 3" cord	1	50

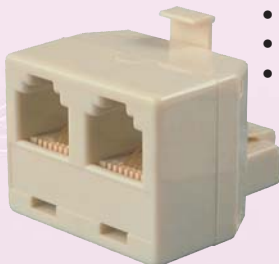
"T" Adapter



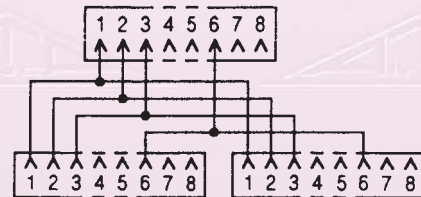
- Ivory adapters designed for connecting two telephones or auxiliary devices to one modular jack
- The AT202-4 consists of one 4-conductor, 4-position jack and plug wired in parallel
- The AT202-6 is the same as the AT202-4 except that the two extra contacts on each jack are wired in parallel to each other
- The AT203-8 is e/w a non-keyed, 8-conductor plug and two 8-conductor keyed jacks. The keyed jacks will accept either keyed or non-keyed plugs
- UL Listed and CSA Listed

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT202-4	4-cond., 6-pos. plug and 2 4-cond., 6-pos. jacks	1	100
AT202-6	4-cond., 6-pos. plug and 2 6-cond., 6-pos. jacks	1	100
AT203-8	8-cond., 8-pos. plug and 2 8-cond., 8-pos. keyed jacks	1	50

"T" Adapter

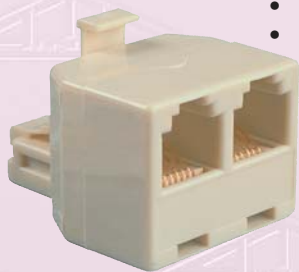


- Wired for 10base-T applications, ivory adapter designed to connect two devices to one modular jack
- The AT203-TBT has a 4-conductor, 8-position plug and 4-conductor 2 8-position jacks
- UL Listed and CSA Listed

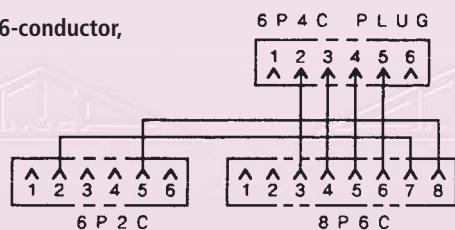


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT203-TBT	"T" adapter	1	50

"T" Adapter



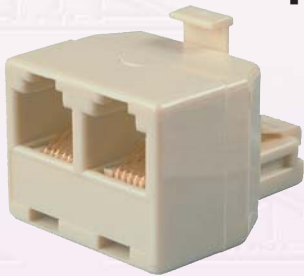
- Contains one 4-conductor, 6-position modular plug, a 6-conductor, 8-position and a 2-conductor, 6-position modular jack
- Used to provide auxiliary power to telephones
- UL Listed and CSA Listed



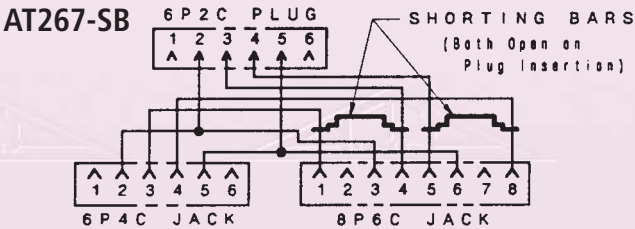
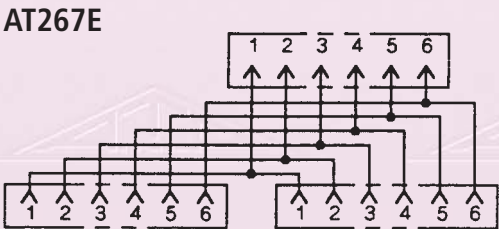
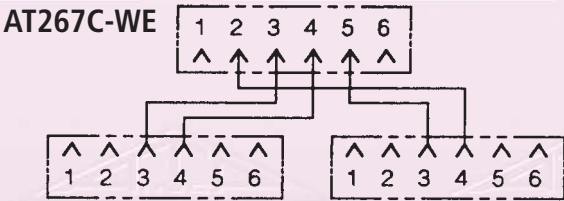
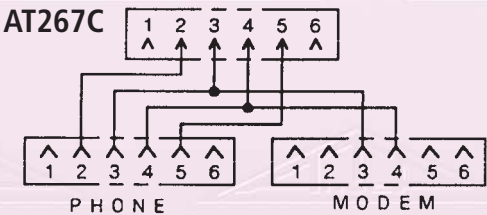
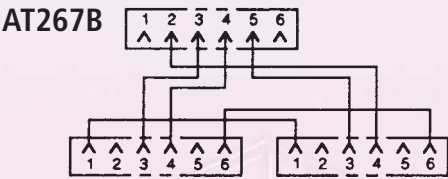
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT304B	"T" adapter	1	50

Telephone Accessories

"T" Adapter



- The AT267B is e/w two 4-conductor, 6-position jacks and one 4-conductor, 6 position plug wired for connecting two telephones and/or ancillary devices to separate outside lines through a single 4-contact modular jack wired for terminating two lines. Ideal for use in semi-private hospital rooms or for adding a second line
- The AT267C is e/w one 2-conductor, 6-position jack for modem, one 4-conductor, 6-position jack for voice transmission and one 4-conductor, 6-position plug with the tip and ring bridged to both jacks
- Designed to combine voice and data transmission through a single modular jack
- The AT267C-WE is e/w two 2-conductor, 6-position jacks and one 4-conductor, 6-position plug Designed to split two telephone lines from a single modular jack to two individual modular jacks
- The AT267E is e/w two 6-conductor, 6-position jacks and one 6-conductor, 6-position plug. Provides connection for two 6-conductor, 6-position line cords wired to a single 6-conductor, 6-position modular plug
- The AT267-SB is e/w one 4-conductor, 6-position jack, one 8-conductor jack with shorting bars on pins 1-4 and 5-8 and a 4-conductor, 6-position plug. Designed to permit quick connection of one telephone and one automatic dialer to the same line without changing the existing installation
- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT267B	"T" adapter Ivory	1	100
AT267C	"T" adapter Ivory	1	100
AT267C-WE	"T" adapter Ivory	1	100
AT267E	"T" adapter Ivory	1	100
AT267-SB	"T" adapter Ivory	1	100

Telephone Accessories

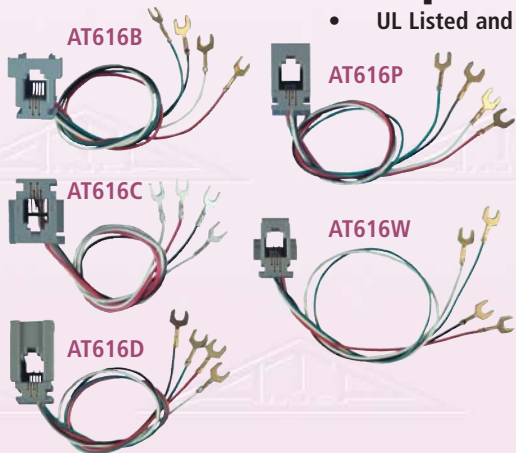
Modular Telephone Jack



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT523A4	4-wire, 6-position line jack for base of wall telephone	1	1
AT523A6	6-wire, 6-position line jack for base of wall telephone	1	1

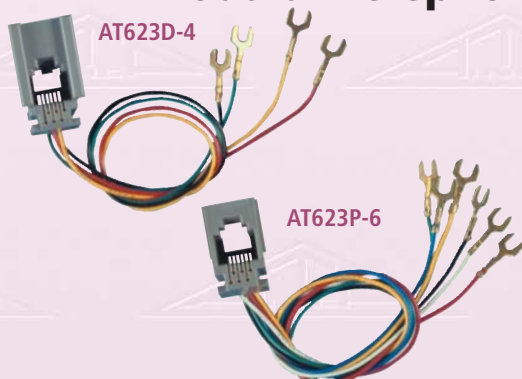
Modular Telephone Jack

- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT616B	4-wire, 4-position handset cord jack for 2554 telset base	1	1
AT616C	4-wire, 4-position handset cord jack for 3554 telset base	1	1
AT616D	4-wire, 4-position handset cord jack for 2500 telset base	1	1
AT616P	4-wire, 4-position handset cord jack for princess telset	1	1
AT616W	4-wire, 4-position handset cord jack for mounting in transmitter cup assembly of standard handset handle	1	1

Modular Telephone Jack



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT623D-4	4-wire, 6-position line jack for 500 desk telephone base	1	1
AT623D-6	6-wire, 6-position line jack for 500 desk telephone base	1	1
AT623P-4	4-wire, 6-position line jack for princess telephone base	1	1
AT623P-6	6-wire, 6-position line jack for princess telephone base. UL and CSA Listed	1	1

Modular Telephone Jack

- 8-wire, 8-position non-keyed snap in jack used in electronic multi-line telephones and other devices requiring an 8-conductor connection



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT641	Modular telephone jack	1	1
AT647	Same as the AT641 except it is keyed for use on telephone equipment and interface devices used with data transmission.	1	1

Data Accessories

Allen Tel Products, Inc. offers a variety of data accessories to compliment the growing data communications market.

- Adapter and Connector Kits
- Gender Changers
- Wall Plates
- RS 232 Mini-Tester
- Gender Adapter
- Computer, Monitor and Printer Cables

Our Data products are designed for ease of installation and to provide high, quality performance in supporting the layout of structured cabling systems.

Data Adapter Kit.....	Page 93	Gender Adapter.....	Page 95
Shielded Adapter Kit	Page 93	Data Stainless Steel Wall Plates	Page 95
Connector Kit.....	Page 93	RS232 Mini-Tester	Page 96
Shielded Connector Kit	Page 94	Null Modem	Page 96
Data Kit Insertion Tool.....	Page 94	RS232 Adapter Kit	Page 96
ATD Crimping Tool.....	Page 94	Monitor Cables	Page 98
Mini Gender Changers.....	Page 94	Printer Cables	Page 98
Standard Gender Changers.....	Page 95	General Use Cables.....	Page 98

Data Accessories

Data Adapter Kit

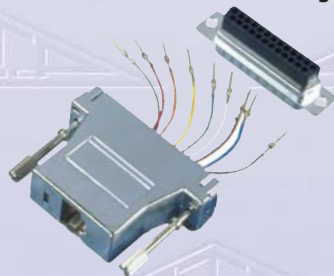
- Adapter allows connection between 9 and 15-pin equipped devices with DB-type connectors to standard telephone wiring utilizing modular jacks
- The 6-conductor RJ14 modular jack may be connected in the field to male or female pins which snap into the appropriate 9 or 15-pin DB connector body
- See Page 97 for wiring diagrams
- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATDB9F-6	6-cond. jack to female 9-pin DB	1	50
ATDB9F-8	8-cond. jack to female 9-pin DB	1	50
ATDB9M-6	6-cond. jack to male 9-pin DB	1	50
ATDB9M-8	8-cond. jack to male 9-pin DB	1	50
ATDB15F-6	6-cond. jack to female 15-pin DB	1	50
ATDB15F-8	8-cond. jack to female 15-pin DB	1	50
ATDB15M-6	6-cond. jack to male 15-pin DB	1	50
ATDB15M-8	8-cond. jack to male 15-pin DB	1	50
ATDB9F-DEC	6-cond. DEC jack to female 9-pin DB	1	50
ATDB9M-DEC	6-cond. DEC jack to male 9-pin DB	1	50

Shielded Adapter Kit

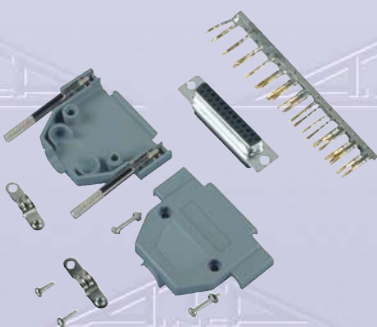
- Metalized plastic hood e/w thumb screws for easy installation
- 9 and 25-pin DB connectors with an integral RJ45 non-keyed 8-contact modular jack e/w pre-terminated male or female contacts
- See Page 97 for wiring diagrams



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATDB9FS-8	9-pin DB connector kit female	1	50
ATDB9MS-8	9-pin DB connector kit male	1	50
ATRA8FS	25-pin DB connector kit female e/w two 3.500" red straps	1	50
ATRA8MS	25-pin DB connector kit male e/w two 3.500" straps	1	50

Connector Kit

- Type "D" male and female connectors with 9, 15 and 25-pin formats
- Grey plastic shell, crimp-type contacts, metal strain relief and assembly hardware

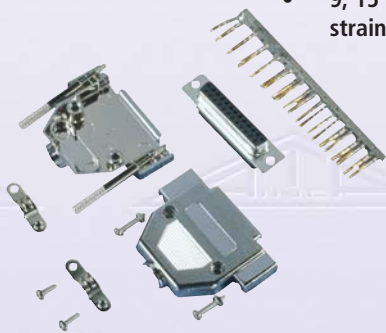


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATD9FCK	Connector kit 9-pin female	1	50
ATD9MCK	Connector kit 9-pin male	1	50
ATD15FCK	Connector kit 15-pin female	1	50
ATD15MCK	Connector kit 15-pin male	1	50
ATD25FCK	Connector kit 25-pin female	1	50
ATD25MCK	Connector kit 25-pin male	1	50

Data Accessories

Shielded Connector Kit

- Metalized plastic hood
- 9, 15 and 25-pin DB connectors with crimp-type male or female contacts, strain relief bracket and assembly hardware



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATD9FCKS	Shielded 9-pin DB connector kit female	1	50
ATD9MCKS	Shielded 9-pin DB connector kit male	1	50
ATD15FCKS	Shielded 15-pin DB connector kit female	1	50
ATD15MCKS	Shielded 15-pin DB connector kit male	1	50
ATD25FCKS	Shielded 25-pin DB connector kit female	1	50
ATD25MCKS	Shielded 25-pin DB connector kit male	1	50

Data Kit Insertion Tool

- Insertion of contacts on "DB" and "D" connections



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATD100	Insertion Tool	1	1

ATD Connector Kit Crimping Tool

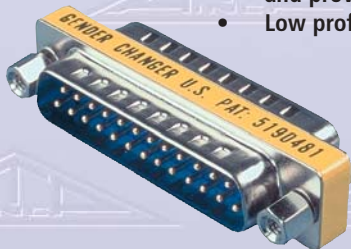
- Carbon steel with black oxide finish
- Clamper
- Stripper
- Cutter
- Looping



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATD200	ATD Crimping Tool	1	1

Mini-Gender Changers

- Wired pin-to-pin
- Single contact shielded construction ensures minimal signal loss and provides full protection from electrical EMI and RFI interference
- Low profile shielded

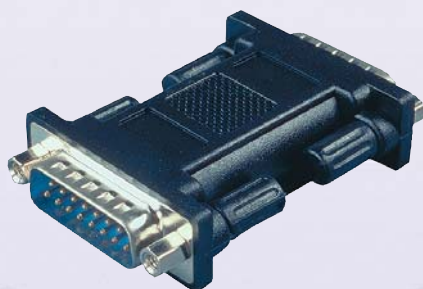


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATGM9FF	DB9, 9-pin female-to-female connectors	1	50
ATGM9MM	DB9, 9-pin male-to-male plugs	1	50
ATGM15FF	DB15, 15-pin female-to-female connectors	1	50
ATGM15MM	DB15, 15-pin male-to-male plugs	1	50
ATGM25FF	DB25, 25-pin female-to-female connectors	1	50
ATGM25MM	DB25, 25-pin male-to-male plugs	1	50
ATGM37FF	DB37, 37-pin female-to-female connectors	1	50
ATGM37MM	DB37, 37-pin male-to-male plugs	1	50

Data Accessories

Standard Gender Changers

- Inexpensive way to avoid modifying or replacing incompatible RS232 or other computer cables
- Wired pin-to-pin
- Shielded



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATGC9FF	9-pin female-to-female	1	50
ATGC9MM	9-pin male-to-male	1	50
ATGC15FF	15-pin female-to-female	1	50
ATGC25FF	25-pin female-to-female	1	50
ATGC25MM	25-pin male-to-male	1	50

Gender Adapter

- Converts a DB9 cable or connector to a DB25 cable or connector
- Shielded
- See Page 97 for wiring diagrams



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATGC9F25M	9-pin female to 25-pin male	1	50
ATGC9M25F	9-pin male to 25-pin female	1	50

Data Stainless Steel Wall Plates



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATBK9	For one DB9 connector	1	50
ATBK9-2	For two DB9 connectors	1	50
ATBK15	For one DB15 connector	1	50
ATBK25	For one DB25 connector	1	50

Data Accessories

RS232 Mini-Tester



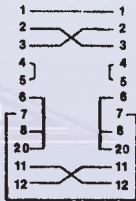
- Provides method of diagnosing RS232 interface problems
- Connects from the RS232 port to data line or modem
- LEDs indicate the status of pin 2 (transmit data, TD), pin 3 (receive data, RD), pin 4 (request to send, RTS), pin 5 (clear to send, CTS), pin 6 (data set ready, DSR), pin 8 (carrier detect, CD) and pin 20 (data terminal ready, DTR)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATMT25MF	RS232 mini-tester male to female	1	50

Null Modem

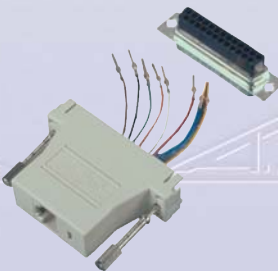


- Replaces two modems when interconnecting two data devices together over short distances
- Units operate within EIA RS232C specifications
- See internal connections schematic

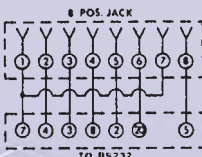
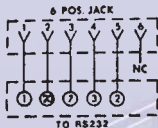


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATNM25FF	Null modem female-to-female	1	50
ATNM25MF	Null modem male-to-female	1	50
ATNM25MM	Null modem male-to-male	1	50

RS232 Adapter Kit



- Permits two RS232 equipped computers to be connected to each other over short distances without the need for two modems
- Compatible with most RS232 devices
- Supplied in kit form to allow flexibility in wiring schemes
- Wiring diagrams for 6-position and 8-position jacks are illustrated below
- See Page 97 for other wiring diagrams
- UL Listed and CSA Listed



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ATRA6F	6-conductor jack to female RS232	1	50
ATRA6F-DEC	6-conductor DEC jack to female RS232	1	50
ATRA6M	6-conductor jack to male RS232	1	50
ATRA6M-DEC	6-conductor DEC jack to male RS232	1	50
ATRA8F	8-conductor jack to female RS232 e/w two 3.500" red straps	1	50
ATRA8M	8-conductor jack to male RS232 e/w two 3.500" red straps	1	50

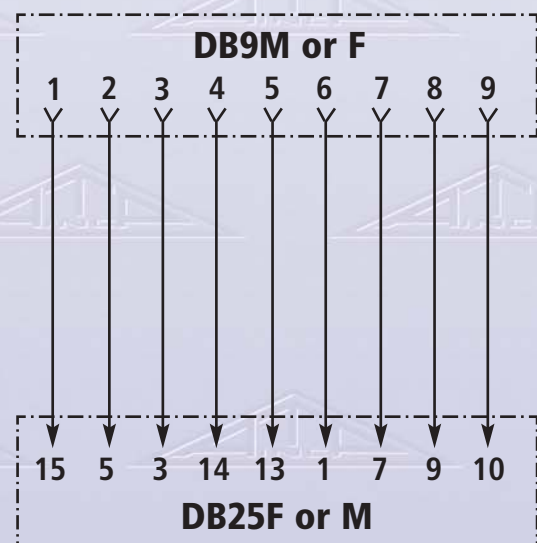
Data Accessories



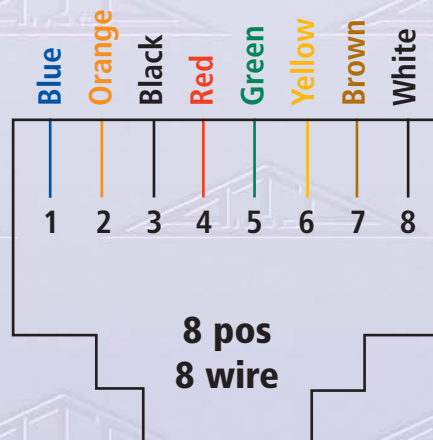
Part Number
ATDB9F-6
ATDB9M-6
ATDB15F-6
ATDB15M-6
ATRA6F
ATRA6M



Part Number
ATDB9F-DEC
ATDB9M-DEC
ATRA6F-DEC
ATRA6M-DEC



Part Number
ATGC9F25M
ATGC9M25F



Part Number
ATDB9F-8
ATDB9FS-8
ATDB9M-8
ATDB9MS-8
ATDB15F-8
ATDB15M-8
ATRA8F
ATRA8M
ATRA8FS
ATRA8MS

Data Accessories

Computer Cables

- Each cable is shielded against both electromagnetic and radio frequency interference by means of braided copper and aluminum foil
- Connectors and outer cable sheath are molded and bonded together to form an integral assembly providing added strain relief and protection from abrasion
- Conductors are 28 gauge
- Cables are available for interconnection between two specific components of a computer system and cables for more general applications which are wired pin-to-pin

Monitor Cables

- Cables are terminated at each end in DB9 type connectors either male or female



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBDB9MF-6	Monitor cable 6 ft male-to-female	1	1
GBDB9MF-10	Monitor cable 10 ft male-to-female	1	1
GBDB9MM-10	Monitor cable 10 ft male-to-male	1	1

Printer Cables

- 8 or 15-foot cables with DB25 male and CN36 terminations
- Used with IBM PC, PS/2 or Apple IIe computers



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBDB25MCN36M-8	Printer cable 8 ft	1	1
GBDB25MCN36M-15	Printer cable 15 ft	1	1

Printer Cables

- 6 foot cable with DB9 to DB25 terminations
- Used as a printer cable between a Mac computer and a serial printer



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBDB25MDB9M-6	Printer cable 6 ft	1	1

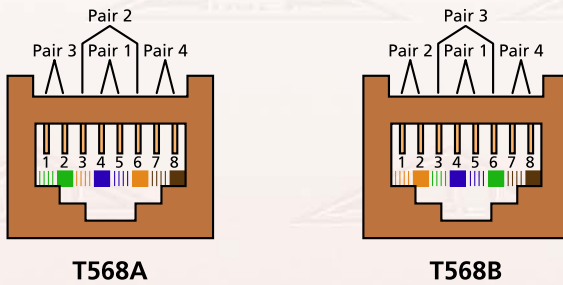
General Use Cables



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GBDB25MF-3	DB25 male to DB25 female 3 ft	1	1
GBDB25MF-5	DB25 male to DB25 female 5 ft	1	1
GBDB25MF-10	DB25 male to DB25 female 10 ft	1	1
GBDB25MF-15	DB25 male to DB25 female 15 ft	1	1
GBDB25MF-25	DB25 male to DB25 female 25 ft	1	1
GBDB25MF-35	DB25 male to DB25 female 35 ft	1	1
GBDB25MF-50	DB25 male to DB25 female 50 ft	1	1
GBDB25MM-3	DB25 male on both ends 3 ft	1	1
GBDB25MM-5	DB25 male on both ends 5 ft	1	1
GBDB25MM-10	DB25 male on both ends 10 ft	1	1
GBDB25MM-15	DB25 male on both ends 15 ft	1	1
GBDB25MM-25	DB25 male on both ends 25 ft	1	1
GBDB25MM-35	DB25 male on both ends 35 ft	1	1
GBDB25MM-50	DB25 male on both ends 50 ft	1	1

Technical

T568A and T568B Wiring Diagrams



RJ and USOC CODES

The Bell System Universal Service Ordering Code (USOC) system was developed to connect customer premises equipment to the public network. These codes, adopted in part by the FCC, Part 68, Subpart F, Section 68-502, are a series of registered jack (RJ) wiring configurations for telephone jacks that remain in use today.

Registered jack numbers end with a letter indicating the wiring or mounting method being used:

- C** – Surface or flush mounted jack
- W** – Wall mounted jack
- S** – Single-line jack
- M** – Multi-line jack
- X** – Complex multi-line or series-type jack
- T/R** – Connections to the tip and ring wires of a telephone line, trunk, channel or facility
- A/A1** – Connections to the hold functions of key telephone systems. The "A" lead corresponding to a particular telephone line is shorted to the "A1" lead when that line is off hook in order for that line's "hold" functions to operate correctly
- BRIDGED** – A Parallel connection
- DATA** – Configurations using jacks that incorporate components to limit signal power levels of data equipment

RJ (USOC) Jack Descriptions

RJ-11C and RJ-11W: Are normally associated with single-line ancillary devices, telephone sets, or –9 dBm (permissive) modems and provide bridged connections to the tip and ring of a telephone line. RJ-11C is surface or flush-mounted for use with desk telephone sets, while RJ-11W is used for wall mounted telephone sets.

RJ-12C and RJ-12W: Are normally associated with one line of a key telephone system, they provide a bridged connection to the tip and ring of the telephone line and to key system A and A1 leads. The tip and ring conductors in the jack are connected ahead of the key telephone-system line circuit. The RJ-12C is surface or flush mounted for use with desk telephone sets while the RJ-12W is for wall mounted telephone sets. Typically, these arrangements are used when registered ancillary equipment must respond to central office or PBX ringing.

RJ-13C and RJ-13W: Are normally associated with one line of a key telephone system. They provide a bridged connection electrically behind the key-system line circuit to the tip, ring conductors, and to the A and A1 leads. The RJ-13C is surface or flush mounted for use with desk telephone sets while RJ-13W is for wall mounted telephone sets. These arrangements are generally used when the registered ancillary equipment does not require central office or PBX ringing to function properly.

RJ-14C and RJ-14W: Provide for bridged connections to the tip and ring conductors of two separate telephone lines. The RJ-14C is surface or flush mounted for use with desk telephone sets while the RJ-14W is for wall mounted telephone sets.

RJ-15C: Is a weatherproof jack arranged to provide single-line bridged connection to tip and ring. The RJ-15C can be arranged for surface- or flush mounting depending upon customer needs.

RJ-16X: Provides a single-line bridged tip and ring and is associated with –9 dBm (permissive) data arrangements that require mode indication for use with exclusion key telephone sets. The exclusion key telephone set requires a series jack, RJ-36X (described under 8-position jacks) as its normal means of connection.

RJ-17C: Provides a single-line bridged connection of tip and ring to special telephone sets or ancillary equipment (e.g. ECG machines) in hospital critical-care areas. Only registered equipment conforming to Article 517 of the 1978 National Electrical Code is permitted to connect to this jack arrangement. This jack differs from the RJ-11C in that tip and ring appear on pins 1 & 6 rather than 3 & 4.

RJ-18C: Provides a bridged connection of single-line tip and ring with make-busy leads M13 and MB1. When the registered equipment provides a contact closure between the MB and MB1 leads, a make-busy indication is transmitted to the network equipment busying out the line from further incoming calls. It's recommended that the busy indication (contact closure) be provided while the line is in the idle state in order to reduce the possibility of interfering with a call that is in the ringing or talking state. The RJ-18 EIC is surface or flush mounted for use with desk telephone sets.

Technical

RJ-19C: Is normally associated with one line of a key telephone system. It provides a bridged connection of single-line tip and ring behind a key-system line circuit, with A and A1 lead control, and a direct connection for MB/MB1 make-busy leads. When the modem provides a contact closure between the M13 and MB1 leads, a make-busy indication is transmitted to the network equipment busying out the line from further incoming calls. It's recommended that the busy indication (contact closure) be provided while the line is in the idle state in order to reduce the possibility of interfering with a call that is in the ringing or talking state. The RJ-19C is surface or flush mounted for use with desk telephone sets.

RJ-AIX/RJ-A3X: Are adapters used to adapt 4 and 12 position jacks, respectively, to a 6-position miniature bridged jack. They provide bridged connections to the tip and ring of the telephone line. If A and A1 leads are already terminated in the 4 or 12-pin jack, they will appear in positions 2 and 5 in the adapter. If A and A1 leads are not involved, positions 2 and 5 are reserved for telephone company use.

RJ-A2X: Is an adapter that converts a single miniature jack to two miniature jacks. It provides a bridged connection to the tip and ring conductors of the telephone line. If A and A1 leads are already terminated in an existing miniature bridged jack, they will appear in positions 2 and 5 in both miniature bridged jacks in the adapters. If A and A1 leads are not provided, positions 2 and 5 are reserved for telephone company use.

RJ-21X: Provides bridged connections to tip and ring conductors of up to 25 telephone lines. The RJ-21X is typically used with Traffic-Data Recording Equipment and Multiple-Line Communications Systems. The user must specify the connection sequence for each title appearing in the jack.

RJ-22X: Can be associated with a telephone company provided key telephone system when connection to several lines is required. It provides bridged connections of up to 12 telephone lines and their associated A and A1 leads. The tip and ring conductors in the jack are wired ahead of the line circuit in the key telephone system. This arrangement is used when the modem must respond to central office or PBX ringing.

RJ-23X: Is normally associated with a telephone company provided key telephone system when connection is required to several lines. It is wired to provide bridged connections of up to 12 key-system line circuits and associated A and A1 leads. It differs from and is preferred over the RJ-22X, in that tip and ring conductors in the jack are wired behind the key-system line circuits. This arrangement is typically used when the modem doesn't require central office or PBX ringing to function properly.

RJ-24X: Is normally associated with a telephone company provided key telephone system. It is typically used with registered ancillary devices such as conferencing devices, music on hold, etc., and is wired to provide the same tip, ring, A and A1 appearances as a standard five-line key telephone set.

RJ-25C: Provides for bridged connection to the tip and ring conductors of three separate telephone lines. The telephone company will wire the lines to the jack in the sequence designated by the customer. The RJ-25C is surface or flush mounted for use with desk telephone sets and ancillary devices.

RJ-26X: Is a multiple-line universal data jack for up to 8 lines in a 50-position miniature ribbon connector and accommodates either fixed-loss loop (FLL) or programmed (P) types of data equipment. A switch, accessible to the customer, is provided on each line to select FLL or P type of operation. FLL equipment transmits at $-4 + 1$ dB with respect to one milliwatt and a pad is included in the data jack so that pad loss plus loop loss is nominally 8 dB. Programmed-type data equipment adjusts its output power in accordance with a programming resistor in the data jack. By these means, signals from either FLL or P types of registered data equipment will arrive at the local telephone company central office at a nominal -12 dB with respect to one milliwatt for optimum data transmission.

RJ-27X: Is a multiple-line programmable data jack for up to 8 lines in a 50-position miniature ribbon connector and accommodates programmed data equipment only.

RJ-31X: Provides a series connection to the tip and ring conductors of a telephone line. It is wired ahead of all station equipment electrically and is typically used with registered alarm-reporting devices. When there's an alarm condition, the registered device functions to cut off all station equipment wired behind it, via this jack.

RJ-32X: Provides a series connection to the tip and ring conductors of a telephone line. It differs from RJ-31X in that it's wired ahead of a particular telephone set rather than ahead of all the station equipment. It's typically used with registered automatic dialers.

RJ-33X: Is normally associated with a key telephone system. It provides a series connection to the tip and ring conductors of the telephone line and the key-system line circuit A and A1 leads. The tip and ring conductors are wired ahead of the key-system line circuit. This arrangement is typically used when the modem requires central office or PBX ringing.

RJ-34X: Is normally associated with a key telephone system. It is wired to provide a series connection to the key-system line circuit tip and ring conductors and its A and A1 leads. It differs from RJ-33X in that all conductors are wired behind the key-system line circuit. This arrangement is typically used when the modem is not critical as to type of ringing signal or doesn't require central office or PBX ringing.

Technical

RJ-35X: Is normally associated with a key telephone set. It's wired to provide a series connection to the tip and ring conductors of the telephone line and a bridged connection to the A and A1 leads. It differs from RJ-33X and RJ-34X in that the tip and ring leads are connected to the common wiring behind the pickup keys of the station set but ahead of the switch hook. The jack is wired to the key telephone set so that the modem functions on the line selected on the key telephone set.

RJ-36X: Provides a connection for a registered telephone set equipped with an exclusion key when the telephone line is also to be used with a registered data set or registered protective circuitry. It's wired to provide a series connection to the tip and ring conductors of the telephone line and mode-indication leads MI and MIC. With this jack, the exclusion key can be used to transfer the telephone line between the modem and the telephone set. As a customer option, the exclusion key may be wired so that either the telephone set or the modem controls the line. In the former case, the exclusion key must be operated to transfer the telephone line to the modem. In the latter case, the telephone line is normally associated with the modem. Operation of the exclusion key is required to transfer the line to the telephone set. In either case, a closure on the MI and MIC leads indicates the voice mode.

RJ-37X: Is used for providing two-line service with exclusion. The jack is wired to provide a bridged connection to the tip and ring conductors of two telephone lines with exclusion on line 1.

RJ-38X: Provides a series connection to the tip and ring conductors of a telephone line identical to those described for RJ-31X. However, the jack also provides a continuity circuit which is used as an indication that the plug of the registered equipment is engaged with the jack. The jack is wired ahead of all station equipment electrically and is typically used with registered alarm dialers.

RJ-41S: Is a single-line universal data jack normally associated with fixed-loss loop (FLL) or programmed (P) modems. A switch, accessible to the user, is provided to select FLL to P type of operation. (FLL equipment transmits at -4 dB with respect to one milliwatt, and a pad is included in the data jack so that pad loss plus loop loss is nominally 8 dB. Programmed modems adjust their output power in accordance with a programming resistor in the data jack. By these means, signals from either FLL or P types of registered modems will arrive at the local telephone company central office at a nominal -12 dB with respect to one milliwatt for optimum data transmission). A sliding cover is provided to keep dirt and dust from entering the jack when it's not in use. The FLL/P switch selects the desired method of operation. Two matted surfaces are provided on the housing of the jack for the telephone company installer to write in the loop loss (designated LPQ) and the telephone line number (designated TLN).

RJ-45S: Is a single-line data jack normally associated with programmed (P) modems. This jack is the same as the universal data jack RJ-41S described above, except that the pad for fixed loss loop (FLL) equipment and the switch to select FLL or P type of operation are omitted. Its appearance is the same as RJ-41S except that RJ-45S does not have the FLL/P switch. Both jacks provide bridged connections to the tip and ring of a telephone line and provide mode-indication leads for use with exclusion key telephone sets when required. The exclusion key telephone set requires a series jack RJ-36X as its normal means of connection.

RJ-41M and RJ-45M: Provide a multiple-mounting arrangement for mounting a number of RJ-41S or RJ-45S Single-Line Universal or Programmed data jacks. The telephone companies will terminate USOCs, RJ-41M, and RJ-45M with RKM2X (which is the USOC equivalent for a mounting arrangement) and the appropriate number of RJ-41S or RJ-45S single-line data jacks as required by the user. The mounting arrangement will accommodate up to 16 single-line data jacks. In effect, this arrangement provides the features of a patch panel. The user has complete flexibility in patching the color and plug from any modem to any line. The arrangement can be mounted on a wall or on 19 or 23-inch relay racks.

RJ-48S: Normally associated with DDS services from the telephone company, this jack is used with DDS CSU/DSUs.

RJ-48C: Normally associated with a DSX-1 interface for a T1 circuit, this jack is used with T1 channel banks, T1 CSU/DSUs.

RJ-48X: 1.544 Mbps digital services.

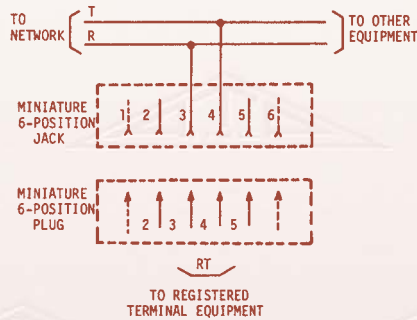
RJ-71C: Provides a multiple series arrangement of tip and ring. It's typically used with registered series devices such as toll restrictors, etc. Jack RJ-71C can accommodate up to 12 circuits per jack (i.e., one tip and ring "in" and one tip and ring "out," 4 leads per circuit). This arrangement does not currently provide restoration upon disconnection of registered equipment. Thus, a manual bridging plug is provided in order to maintain circuit continuity upon withdrawal of a registered plug.

RJ1DC: Terminal equipment and systems requiring 4-wire exchange access.

Technical

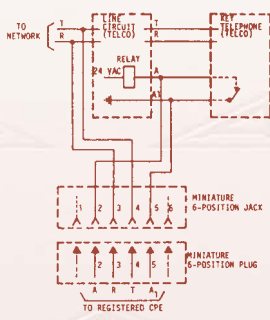
USOC Wiring Diagrams

RJ11C and RJ11W



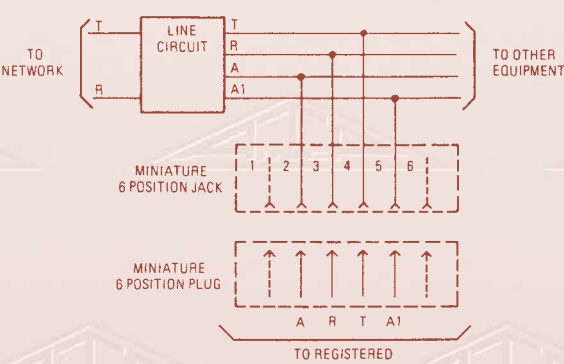
RJ11C		RJ11W
AT153AM-01	AT218	AT219-4
AT153AM-02	AT444	AT630A-4
AT153AM-03	AT468-4	AT630ABC-4
AT153AM-05	AT625B4	AT630AQB-4
AT202-4	AT625F4	AT630B-4
AT214B4	AT630ABC-4	
AT214C4	AT630AQB-4	
AT216-4	AT630BBC-4	
AT217-4	AT630BNL-4	

RJ12C and RJ12W



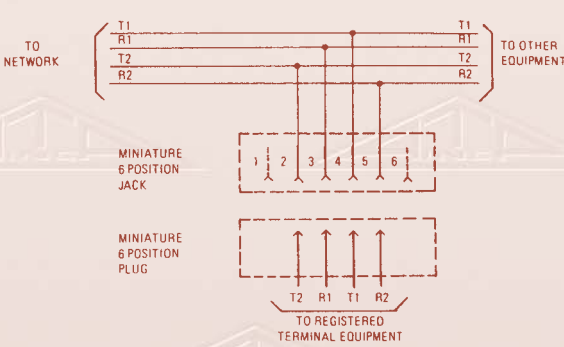
RJ12C		RJ12W
AT153AM-01	AT218	AT219-4
AT153AM-02	AT444	AT630A-4
AT153AM-03	AT468-4	AT630ABC-4
AT153AM-05	AT625B4	AT630AQB-4
AT202-4	AT625F4	AT630B-4
AT214B4	AT630ABC-4	
AT214C4	AT630AQB-4	
AT216-4	AT630BBC-4	
AT217-4	AT630BNL-4	

RJ13C and RJ13W



RJ13C		RJ13W
AT153AM-01	AT218	AT219-4
AT153AM-02	AT444	AT630A-4
AT153AM-03	AT468-4	AT630ABC-4
AT153AM-05	AT625B4	AT630AQB-4
AT202-4	AT625F4	AT630B-4
AT214B4	AT630ABC-4	
AT214C4	AT630AQB-4	
AT216-4	AT630BBC-4	
AT217-4	AT630BNL-4	

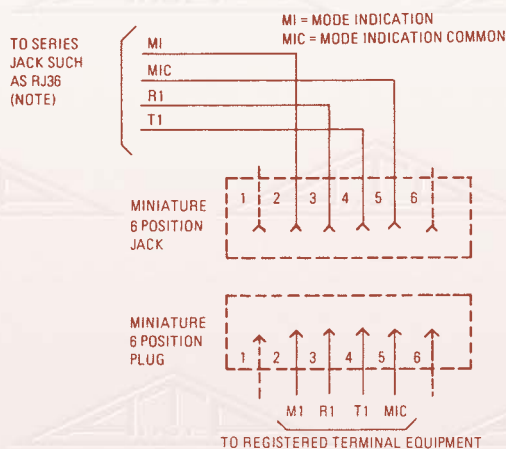
RJ14C and RJ14W



RJ14C		RJ14W
AT153AM-01	AT218	AT219-4
AT153AM-02	AT444	AT630A-4
AT153AM-03	AT468-4	AT630ABC-4
AT153AM-05	AT625B4	AT630AQB-4
AT202-4	AT625F4	AT630B-4
AT214B4	AT630ABC-4	
AT214C4	AT630AQB-4	
AT216-4	AT630BBC-4	
AT217-4	AT630BNL-4	

Technical

RJ16X

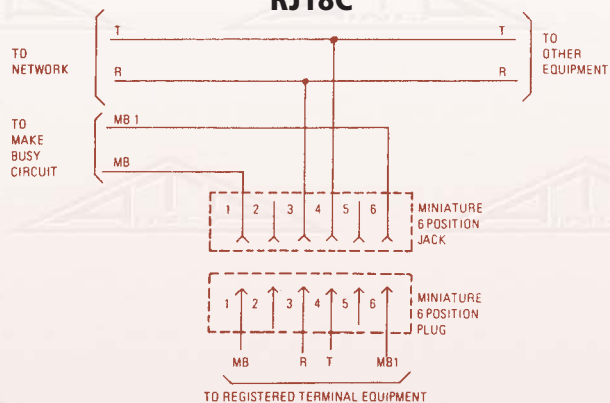


NOTE:
MI AND MIC LEADS ARE TYPICALLY WIRED TO AN RJ36X SERIES JACK WHICH CAN BE USED TO CONNECT AN EXCLUSION KEY TELEPHONE SET AHEAD OF THE DATA EQUIPMENT.

RJ16X

AT635B

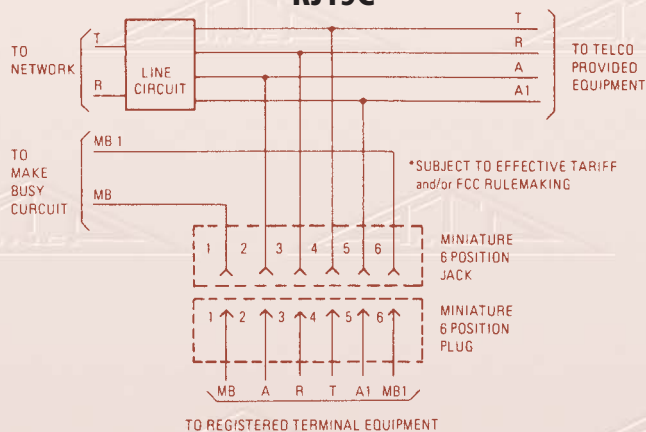
RJ18C



RJ18C

AT153AM-06	AT625WP
AT214B6	AT630ABC-6
AT214C6	AT630AQB-6
AT216-6	AT630BBC-6
AT217-6	AT630BNL-6
AT468-6	AT666

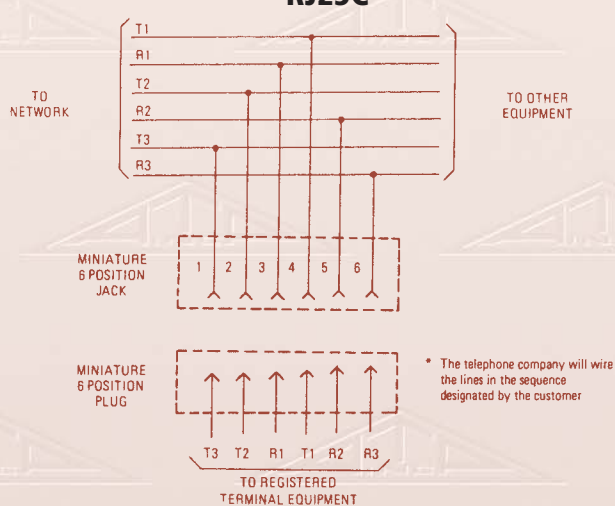
RJ19C



RJ19C

AT153AM-06	AT625WP
AT214B6	AT630ABC-6
AT214C6	AT630AQB-6
AT216-6	AT630BBC-6
AT217-6	AT630BNL-6
AT468-6	AT666

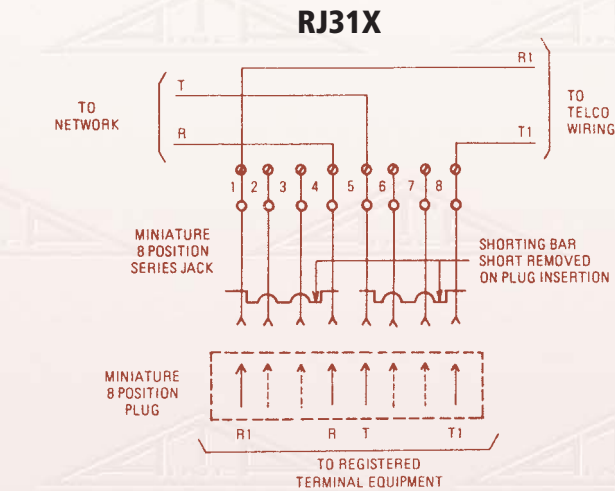
RJ25C



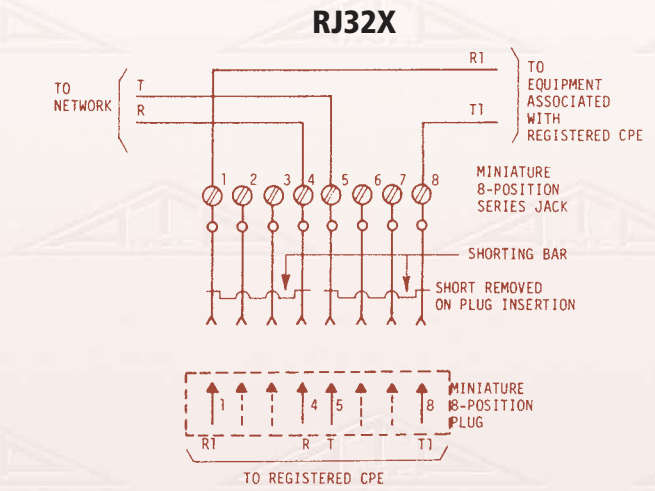
RJ25C

AT153AM-06	AT625WP
AT214B6	AT630ABC-6
AT214C6	AT630AQB-6
AT216-6	AT630BBC-6
AT217-6	AT630BNL-6
AT468-6	AT666

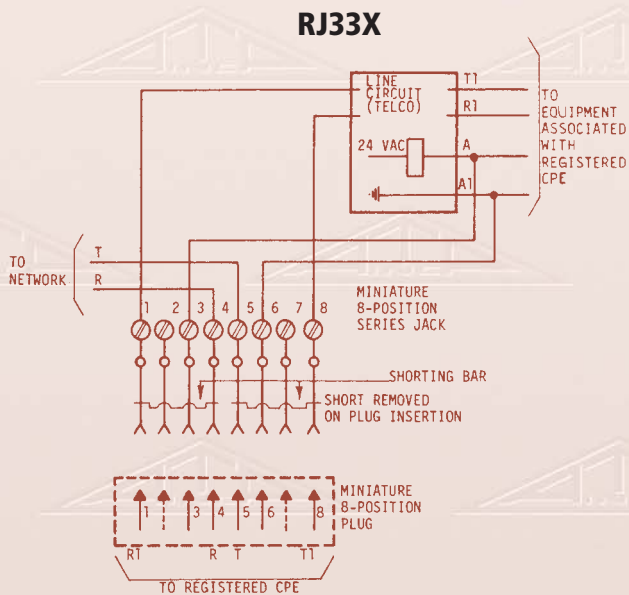
Technical



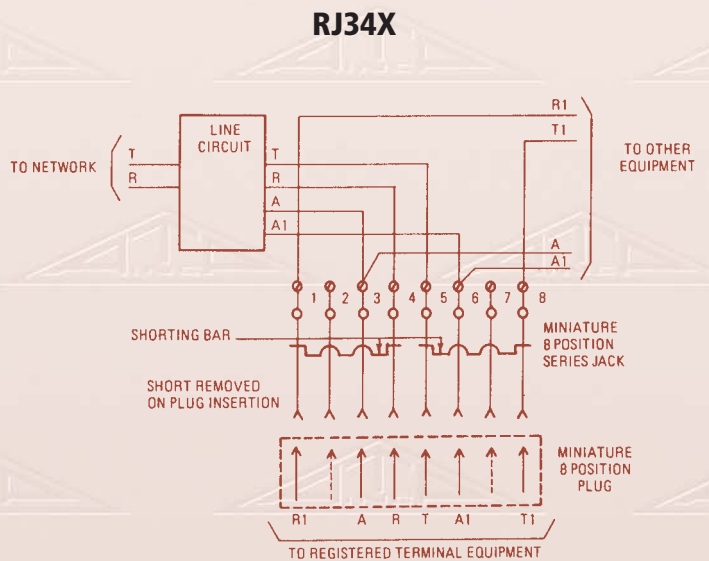
RJ31X
AT635C1
AT635B



RJ32X
AT635C1
AT635B



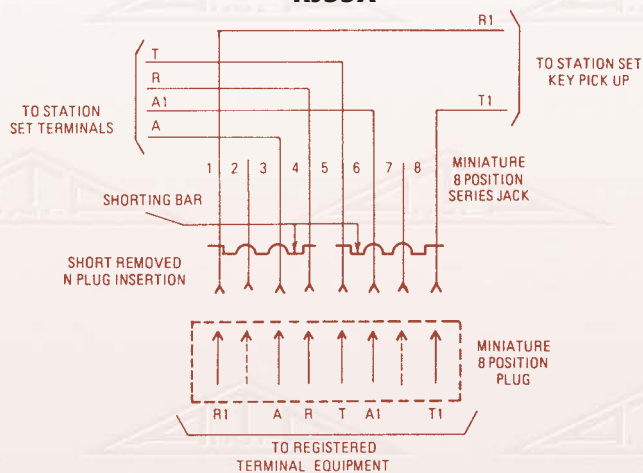
RJ33X
AT635C1
AT635B



RJ34X
AT635C1
AT635B

Technical

RJ35X

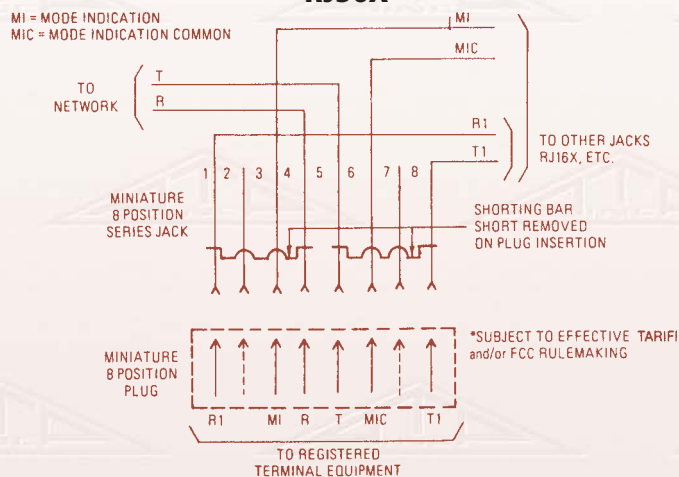


RJ35X

AT635C1

AT635B

RJ36X

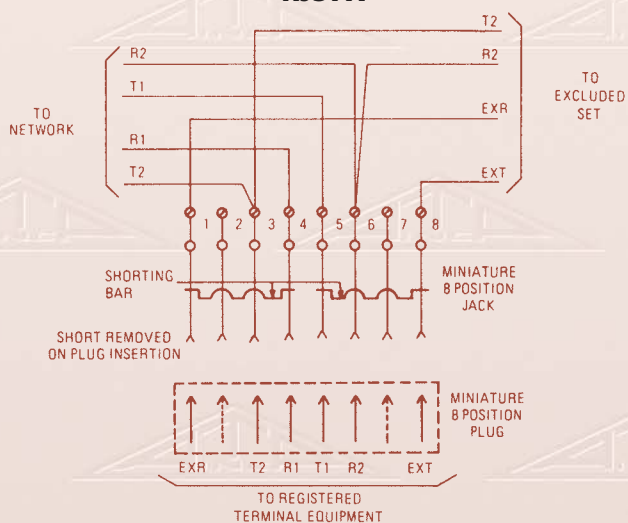


RJ36X

AT635C1

AT635B

RJ37X

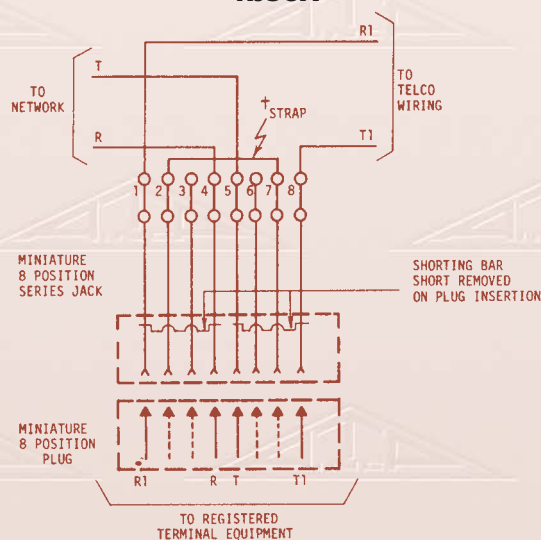


RJ37X

AT635C1

AT635B

RJ38X

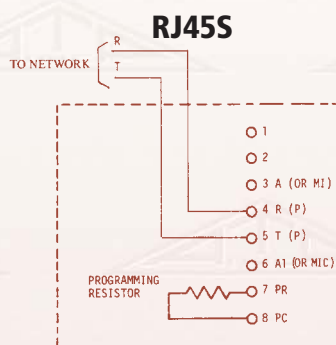


RJ38X

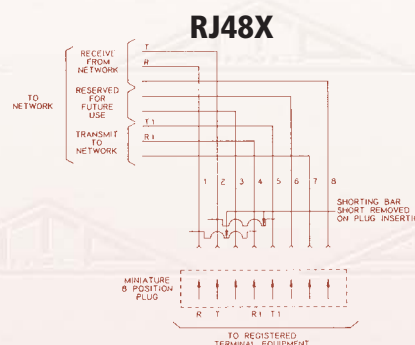
AT635C1

AT635B

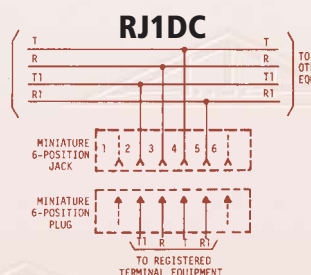
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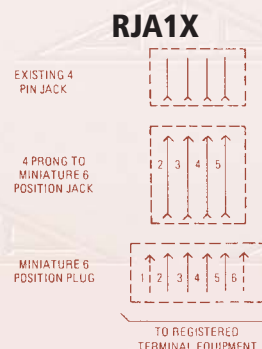
RJ45S	
AT104B8-XX	AT217-8K
AT105BF-XX	AT268-K
AT106BFD-XX	AT635C



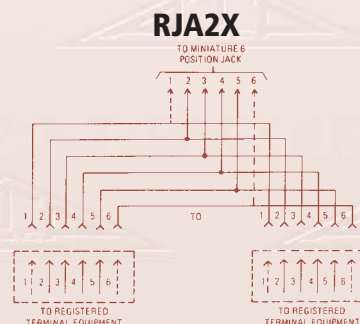
RJ48X	
AT635CX	



RJ1DC		
AT153AM-01	AT214C4	AT625B-4
AT153AM-02	AT216-4	AT625F-4
AT153AM-03	AT217-4	AT630ABC-4
AT153AM-05	AT218	AT630AQB-4
AT202-4	AT444	AT630BBC-4
AT214B4	AT468-4	AT630BNL-4



RJA1X	
AT208	



RJA2X	
AT202-6	

RoHS Compliance Information

RoHS - Restriction of Hazardous Substances; European Directive 2002/95/EC

Allen Tel Products, in concert with our raw-materials suppliers, has certified the vast majority of our products as compliant with RoHS requirements. Based upon information provided by suppliers of the raw materials used in the manufacture of our products, Allen Tel makes no independent representations or warranties, expressed or implied, and assumes no liability in connection with the use of this information.

Substance	Declaration (ppm-mg/kg)	Substance	Declaration (ppm-mg/kg)
Lead (Pb) / Lead Compounds	<1000 ppm	Hexavalent Chromium (Cr +6)	<1000 ppm
Cadmium (Cd) / Cadmium Compounds	< 100 ppm	Poly Brominated Diphenyl Ethers (PBDEs)	<1000 ppm
Mercury (Hg) / Mercury Compounds	<1000 ppm	Poly Brominated Byphenyls (PBBs)	<1000 ppm

The complete list includes all of the products manufactured after July 1, 2006 which are currently compliant. It is available on our website, www.allentel.com. Allen Tel continues to modify the limited number of parts which do not yet meet the material requirements of RoHS. For certified RoHS documentation, or for additional information about any Allen Tel product, please contact us at info@allentel.com, or by telephone at 702/855-5700 in Henderson, Nevada.

Technical

Connectorized Cable Assemblies

Technical Data for Connectorized Cable

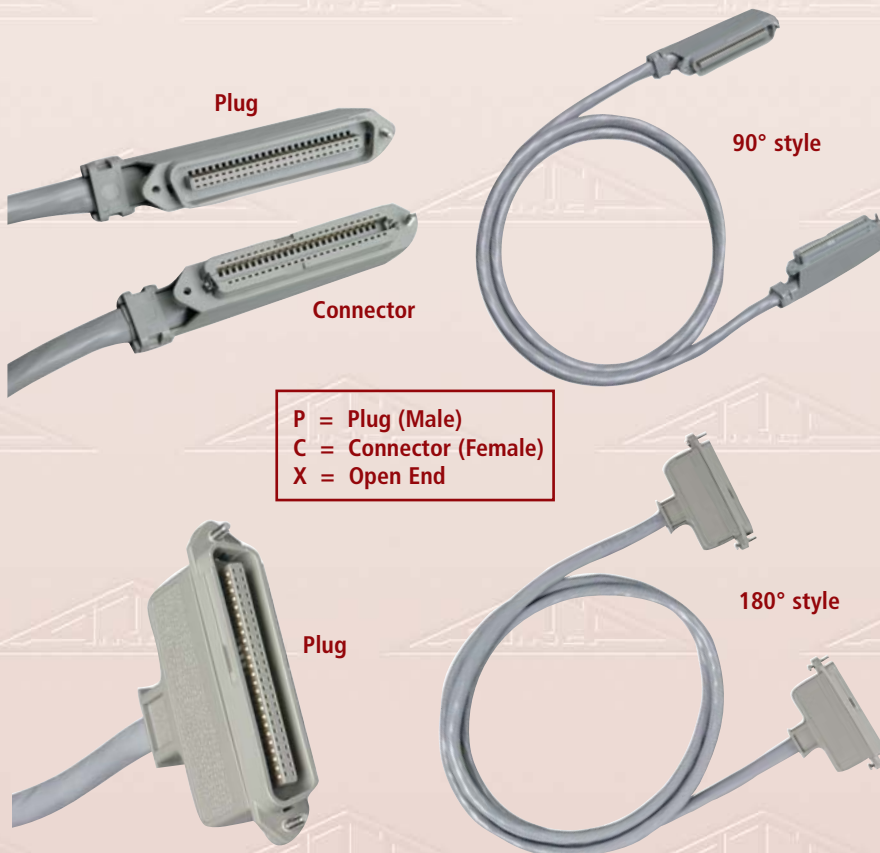
Conductors: 24 AWG. Bars solid annealed copper wire.

Conductor Insulation: PVC, polyvinyl chloride, is used as insulation over the copper conductors. It is semi-rigid, heat resistant and has good resistance to abrasion and cold flow. Vivid colors are incorporated in the insulation for lasting and positive identification.

Color Coding: Fully color coded band marked with individual pairs twisted for ease of identification. The color band on each conductor matches body insulation color of matching conductor. Standard telephone industry color is incorporated throughout.

Electrical Characteristics

Frequency MHZ	Attenuation dB/100m	Next dB (worst Pair)	Impedance Ohms
0.256	1.3	/	/
0.512	1.8	/	/
0.772	2.2	43	/
1.0	2.8	41	100±15
4.0	5.8	32	100±15
5.0	8.5	27	100±15
10.0	9.7	26	100±15
16.0	13.1	23	100±15

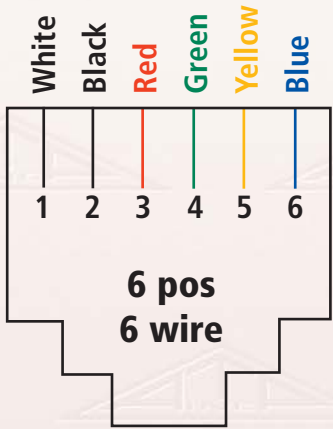


RJ21X Telco

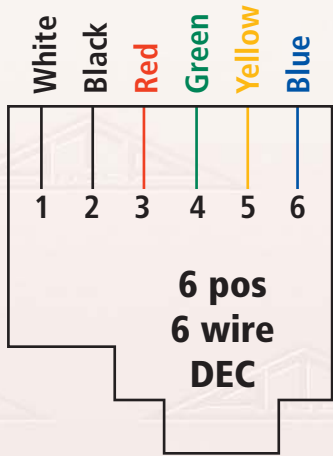
Color Code		Pair #	PIN #
White/Blue	1	T1	26
Blue/White		R1	1
White/Orange	2	T2	27
Orange/White		R2	2
White/Green	3	T3	28
Green/White		R3	3
White/Brown	4	T4	29
Brown/White		R4	4
White/Slate	5	T5	30
Slate/White		R5	5
Red/Blue	6	T6	31
Blue/Red		R6	6
Red/Orange	7	T7	32
Orange/Red		R7	7
Red/Green	8	T8	33
Green/Red		R8	8
Red/Brown	9	T9	34
Brown/Red		R9	9
Red/Slate	10	T10	35
Slate/Red		R10	10
Black/Blue	11	T11	36
Blue/Black		R11	11
Black/Orange	12	T12	37
Orange/Black		R12	12
Black/Green	13	T13	38
Green/Black		R13	13
Black/Brown	14	T14	39
Brown/Black		R14	14
Black/Slate	15	T15	40
Slate/Black		R15	15
Yellow/Blue	16	T16	41
Blue/Yellow		R16	16
Yellow/Orange	17	T17	42
Orange/Yellow		R17	17
Yellow/Green	18	T18	43
Green/Yellow		R18	18
Yellow/Brown	19	T19	44
Brown/Yellow		R19	19
Yellow/Slate	20	T20	45
Slate/Yellow		R20	20
Violet/Blue	21	T21	46
Blue/Violet		R21	21
Violet/Orange	22	T22	47
Orange/Violet		R22	22
Violet/Green	23	T23	48
Green/Violet		R23	23
Violet/Brown	24	T24	49
Brown/Violet		R24	24
Violet/Slate	25	T25	50
Slate/Violet		R25	25

Technical

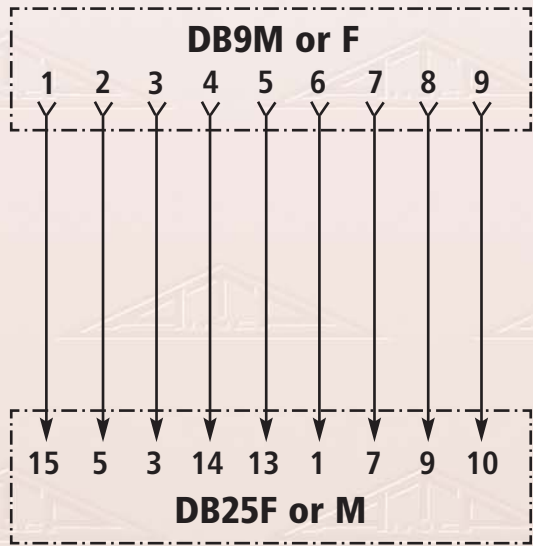
Data Adapter and Connector Modules



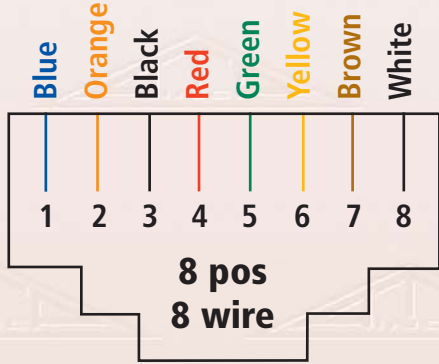
Part Number
ATDB9F-6
ATDB9M-6
ATDB15F-6
ATDB15M-6
ATRA6F
ATRA6M



Part Number
ATDB9F-DEC
ATDB9M-DEC
ATRA6F-DEC
ATRA6M-DEC

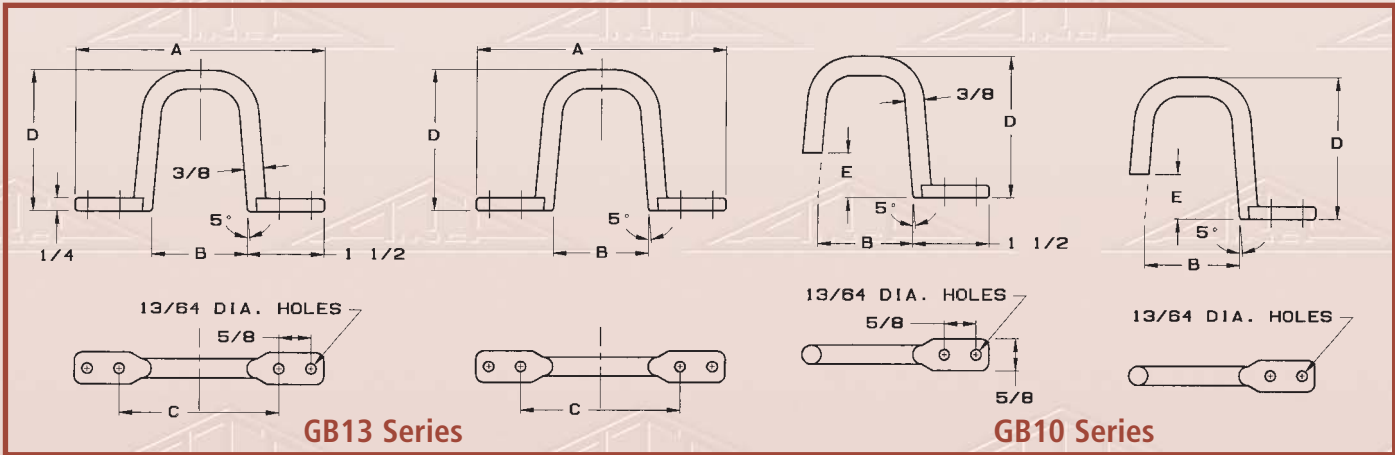


Part Number
ATGC9F25M
ATGC9M25F



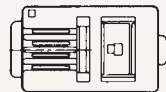
Part Number
ATDB9F-8
ATDB9FS-8
ATDB9M-8
ATDB9MS-8
ATDB15F-8
ATDB15M-8
ATRA8F
ATRA8M
ATRA8FS
ATRA8MS

Distributing Rings

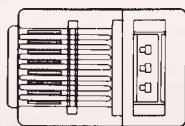


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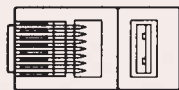
Modular Category 3 Plugs for Stranded Wire



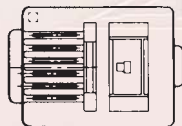
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT4X4	4-contact, 4-position plug for handset cords	100	1000
AT4X6	4-contact, 6-position plug for line cords	100	1000



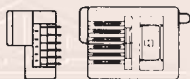
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT8X8	8-contact, 8-position plug for line cords and data applications	100	1000
AT8X8K	Same as AT8X8 except keyed	100	1000



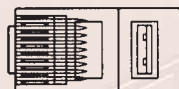
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT8X8RC	8-conductor, 8-position modular plug designed for round cordage such as AT8CRB	100	1000



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT6X6	6-contact, 6-position plug for line cords	100	1000

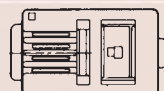


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT6X6DEC	6-contact, 6-position DEC plug for line cords	100	1000

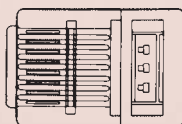


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT10X10	10-contact, 10-position. Body size is the same as AT8X8	1	25

Modular Plugs for Solid Wire (Smoky Grey Color)



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT4X4SC-2224	4-contact, 4-position plug for 24GA solid wire	100	1000
AT4X6SC-2224	4-contact, 6-position plug for 24GA solid wire	100	1000
AT6X6SC-2224	6-contact, 6-position plug for 24GA solid wire	100	1000
AT8X8SC-2224	8-contact, 8-position plug for 24GA solid wire	100	1000

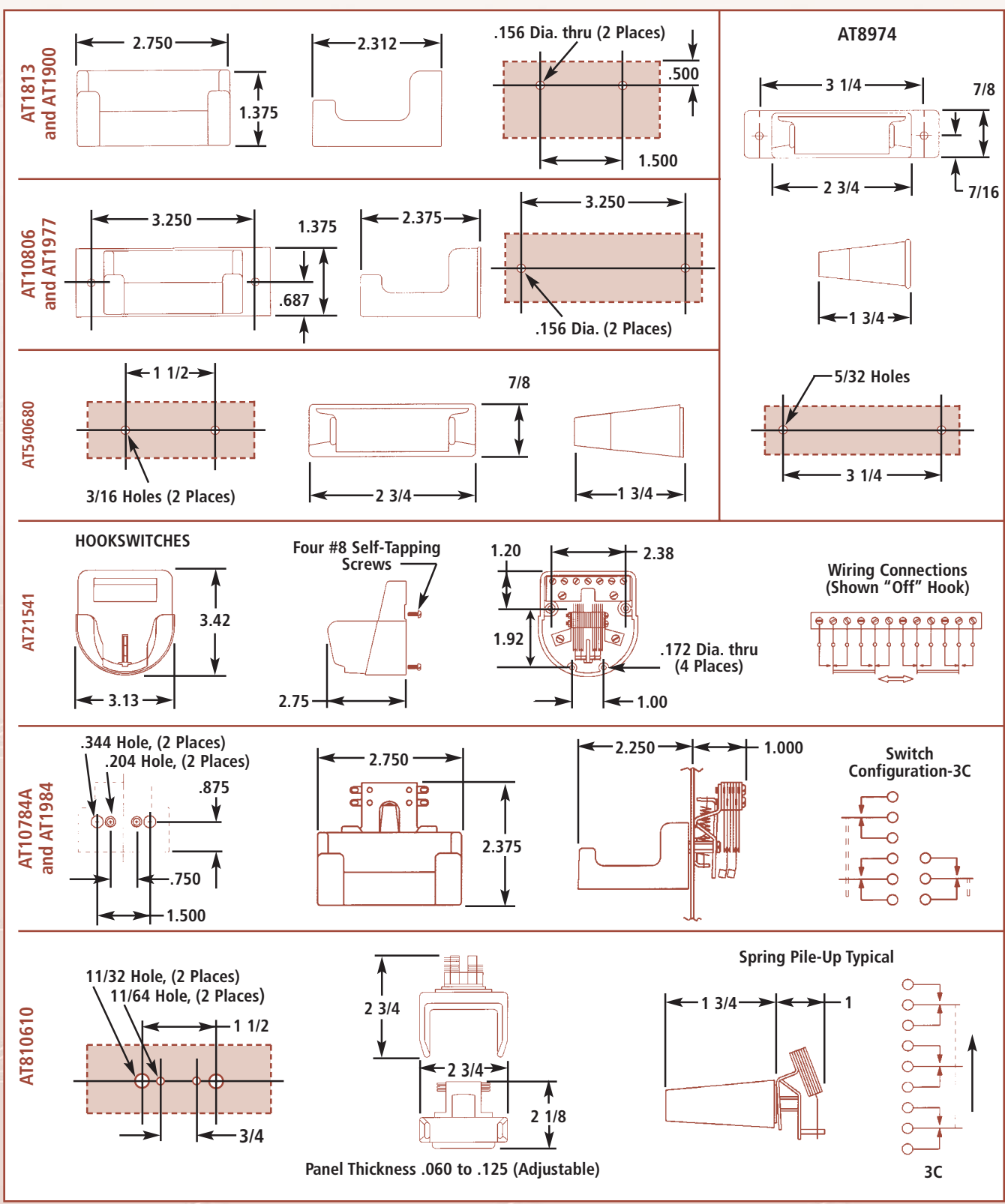


Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
AT6X6RCSC-2224	6-contact, 6-position plug for round cord with solid 24GA wire	100	1000
AT8X8RCSC-24	8-conductor plug for round cord with solid 23/24GA wire	100	1000

Technical

Mounting Details

Handset Hangers and Hookswitch Assemblies



Glossary

110 Connector

Insulation displacement connector (IDC) used in modular jacks, patch panels and cross connects.

1000BASE-T

This IEEE standard defines a Gigabit Ethernet local area network running 1000Mbps base band over unshielded twisted-pair cabling. Throughput over 10Base-T is improved by decreasing bit latency periods and increasing packet speeds.



100BASE-T

This IEEE standard defines an Ethernet local area network running 100Mbps base band over unshielded twisted-pair cabling. Throughput over 10Base-T is improved by decreasing bit latency periods and increasing packet speeds.

10BASE-T

This IEEE standard defines an Ethernet local area network running 10Mbps base band over unshielded twisted pair cabling, typically associated with Category 5.

10GBASE-T

This proposed IEEE standard defines 10 Gigabit Ethernet running 10GMbps over unshielded twisted-pair cabling. Positioned as high speed technology to support Metropolitan Area Networks and other high-demand applications.

66 Block

Cross connect system.

802.11 a/b/g

IEEE standards for wireless LANs. An 802.11a/b/g compatible Wireless Access Point works interchangeably with all three (802.11a, 802.11b, and 802.11g).

AFEXT

See Far End Cross Talk.

ANEXT

See Near End Cross Talk.

AXT

Alien crosstalk (AXT) is electromagnetic noise that can occur in a cable run alongside other signal-carrying cables. The term "alien" arises from the fact that this form of crosstalk occurs between different cables in a group or bundle, rather than between individual wires or circuits within a single cable.

Backboard

Refers to a plywood or metal panel mounted on the wall of a telecom closet to mount the cross connect.

Backbone Wiring

The physical/electrical interconnections between telecommunications closets and equipment rooms. Cross-connect hardware and cabling in the Main and Intermediate Cross-Connects are considered part of the backbone wiring.

Balun

A transformer used to attach coaxial or twinaxial equipment to twisted pair cabling.

Bandwidth

The difference between the highest and the lowest frequencies of a transmission channel (path for information transmission). Identifies the amount of data that can be sent through a given channel. Measured in Hertz (Hz); higher bandwidth numbers mean higher data capacity.

Bend Radius (Fiber)

Radius of curvature that a fiber can bend without breaking. Also see Cable Bend Radius..

BICSI

(Building Industry Consulting Service International) BICSI is a non-profit professional association, for the promotion of telecom industry standards.

BNC

A bayonet style coaxial connector.

Bit Error Rate (BER)

In digital applications, the percentage of bits received in error to the total number of bits received. Usually expressed as a number to the power of 10. For example 10 to the fifth power means that one in every 100,000 bits transmitted will be wrong.

Cable Assembly

A fixed length of cable with connectors installed on both ends. Sometimes called a patch cord, patch cable or jumper.

Cable Bend Radius

The amount of bend that can occur before a cable may sustain damage or increased attenuation.



Category 3, CAT 3

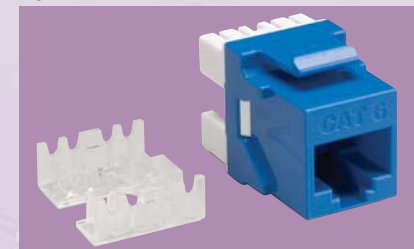
A category of performance for inside wire and cable systems. Commonly used for voice applications and data to 10Mbps. Defined by FCC Part 68, ANSI/EIA/TIA-568, TIA TSB-36 and TIA TSB-40.

Category 5, CAT 5

A category of performance for inside wire and cable systems. Used in support of voice and data applications requiring a carrier frequency of up to 100 MHz. Defined by FCC Part 68, EIA/TIA-568, TIA TSB-36 and TIA TSB-40.

Category 5e (Enhanced), CAT 5e

A category of performance for inside wire and cable. Used in support of signaling rates of up to 100MHz over distances of up to 100 meters. Calls for tighter twists, electrical balancing between pairs and fewer cable anomalies. CAT 5e is intended to support 100Base-T, ATM and Gigabit Ethernet.



Category 6, CAT 6

A cable standard for Unshielded Twisted Pair (UTP) supporting signaling rates up to 250 MHz. Applications include 1000Base-T, ATM, Gigabit Ethernet and applications under development.

Glossary



Category 6 Augmented, CAT 6A

Also referred to as 10G or 10Gigabit Ethernet. A cable standard for Unshielded Twisted Pair (UTP) supporting signaling rates up to 500 MHz. Applications include 10GBase-T, ATM, 10 Gigabit Ethernet, VoIP, and applications under development.

Category of Performance

Cabling and cabling component standard adopted by the telecommunications industry.

Channel

The entire horizontal cabling system. Everything between the computer and the LAN hub in the telecom closet, excluding the equipment connections.



Coaxial Cable

A cable composed of an insulated central conducting wire wrapped in another cylindrical conductor (the shield). The whole thing is usually wrapped in another insulating layer and an outer protective layer. A coaxial cable has great capacity to carry vast quantities of information.

Compliance

A wiring device that meets all characteristics of a standard is said to be in compliance with that standard.

Conductor

Any substance, usually a wire or cable that can carry an electrical current.

Connecting Block

Also called a terminal block, punch-down block, quick-connect block, or cross-connect block, this plastic block contains metal wiring terminals to establish connections from one group of wires to another. Usually each wire can be connected to several other wires in a bus or common arrangement. There are several types of connecting blocks: 66 clip, BIX, Krone, 110, etc. A connecting block has insulation displacement connections (IDCs), which means you don't have to remove insulation from around the wire conductor before you "punch it down" (terminate it).

Connector

A device that connects wires or fibers in cable to equipment or other wires or fibers. Wire and optical connectors most often join transmission media to equipment or cross connects. Connectors are sometimes referred to as jacks, but though all jacks are connectors, not all connectors are jacks.

Consolidation Point

An interconnect device that allows the horizontal cable to be split into two parts. Used for zone cabling.

Cross-connect

Distribution system equipment used to terminate and administer communication circuits. In a wire cross-connect, jumper wires or patch cords are used to make circuit connections. In an optical cross-connect, fiber patch cords are used. The cross-connect is located in an equipment room, riser closet, or satellite closet.

Crosstalk

See Near-End Crosstalk.

Daisy Chain

In telecommunications, a wiring method where each telephone jack in a building is wired in series from the previous jack. Daisy chain is NOT the preferred wiring method, since a break in the wiring would disable all jacks "downstream" from the break. See also Home Run.

Data Center

A data center is a facility used for housing a large amount of electronic equipment, typically servers, computers, and communications equipment. Data centers are designed to assure that the servers and the data housed on them are protected from environmental hazards and security breaches. Data centers can be private, serving a single company or a public "utility" serving a variety of companies.

Data Rate

The speed, measured in bits per second, that a particular network transmits data.

db (Decibel)

A dB is a unit of measure of signal strength, usually the relation between a transmitted signal and a standard signal source. Every 3dB equals 50% of signal strength, so therefore a 6dB loss is a loss of 75% of total signal strength.

Delay Skew

The difference in propagation delay between the slowest and fastest pairs in a cable or system.

Demarcation Point

The point of interconnection between telephone company terminal equipment and your building wiring. The protective apparatus or wiring at a subscriber's premises.

Device

As distinguished from equipment. In telecommunications, a "device" is the physical interconnection outlet. Equipment (a computer, phone, fax machine, etc.) then plugs into the device. See also Equipment and Plug.

Drop

Refers to the horizontal cabling for one work area.

Glossary

EIA

Electronic Industries Alliance. A trade organization of manufacturers which set standards for use of its member companies. Many associations fall under the umbrella of EIA, though it has recently been absorbed by the TIA, or Telecommunications Industry Association. See www.eia.org or www.tiaonline.org.



EIA/TIA

Electronics Industry Association/
Telecommunications Industry Association.

ELFEXT

Equal Level Far End Crosstalk. A measure of FEXT which accounts for the attenuation of the cabling system.

Electromagnetic Interference (EMI)

The interference in signal transmission or reception caused by the radiation of electrical and magnetic fields.

Equipment

As distinguished from Device. Telecom equipment (computers, phones, faxes, etc.) plugs into telecommunications outlets or devices. See also Device.

Ethernet

Type of local area network used for connecting computers, printers, workstations, terminals, etc. within the same building. Ethernet is a physical link and data link protocol that operates over twisted pair wire and over coaxial cable at speeds up to 10Mbps.

Far End Crosstalk (FEXT)

An electromagnetic interference (EMI), a type of crosstalk, introduced on UTP by close-by wires, usually running in parallel with the FEXT induced wire. "Far End" refers to the inductance of EMI in the end further from the end being measured on the alternate wire in a pair.

F Connector

A common coaxial connector used for video applications (CATV).

FEXT

Far End Crosstalk. Unwanted noise coupled onto a receive pair from a transmit pair at the far end of the system.



Fiber Optics

A technology in which light beams are used to transport digital information from one point to another via thin filaments of glass. Benefits include the ability to transmit enormous amounts of data over long distance, high bandwidth, relatively low cost, low power consumption, small space needs, total insensitivity to electromagnetic interference, and excellent security control.

Gigabit

When used to describe data transfer rates, it refers to 10 to the 9th power (1,000,000,000) bits. Gigabit Ethernet, abbreviated GbE, supports data transfer rates of 1 Gigabit (1,000 megabits) per second. The first Gigabit Ethernet standard (802.3z) was ratified by the IEEE 802.3 Committee in 1998.

Gigabit Ethernet

The newest and fastest version of Ethernet. Data rate is 1000 Mbps or 1 Gigabit per second.

Headroom (Also called Overhead or Margin)

The number of decibels by which a system exceeds the minimum defined requirements. The benefit of headroom is that it reduces the bit error rate (BER), and provides a performance 'safety net' to help ensure that current and future high speed applications will run at peak accuracy, efficiency and throughput.

Home Run

Telephone system wiring where the individual cables run from each telephone directly back to the central switching equipment. Home run cabling can be thought of as "star" cabling. Every cable radiates out from the central equipment. See also Star Wiring, Daisy Chain.

Horizontal Cabling

Includes the work area outlet, distribution cable and connecting hardware in the telecom closet.

Hub

Network device, usually in the telecom closet, that stations connect to.

IDC (Insulation Displacement Connection)

A type of wire termination where wire is "punched down" into a metal holder which cuts into the insulation wire and makes contact with the conductor, causing the electrical connection to be made.

IDF (Intermediate Distribution Frame)

A metal rack designed to connect cables located in an equipment room or closet. Consists of components that provide the connection between inter-building cabling and the intra-building cabling, i.e. between the Main Distribution Frame (MDF) and individual telephone wiring. There's usually a permanent, large cable running between the MDF and IDF. The changes in wiring are done at the IDF.

IEEE

Institute of Electrical and Electronics Engineers. Develops Local Area Network standards and Metropolitan Area Network standards.

Impedance

The total opposition (i.e. resistance and reactance) a circuit offers to the flow of alternating current. It is measured in ohms, and the lower the ohmic value, the better the quality of the conductor.

Insertion Loss

The difference in the amount of power received before and after something is inserted into the circuit. In optical fiber, insertion loss is the optical power loss due to all causes, usually expressed as decibel/kilometer.

Interconnect

A circuit administration point, other than a cross-connect or an information outlet, that provides capability for routing and rerouting circuits. It does not use patch cords or jumper wires, and typically is a jack-and-plug device used in smaller distribution arrangements or that connects circuits in large cables to those in smaller cables.

Glossary

Interoperability

The ability of systems or components to provide services to and accept services from other systems or units. Therefore, the services are able to operate effectively together. Interoperable structured cabling systems allow the user their choice of connectivity components which will effectively operate in conjunction with their choice of cable.

Jumper

Usually unjacketed twisted pair wire used to make a cross connection.

Kbps

A data rate. Kilobits, or thousands of bits, per second.

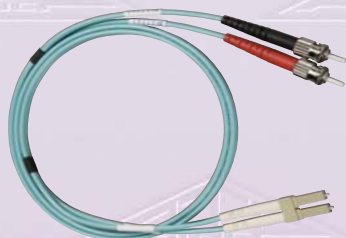
LAN

Local Area Network. A short distance network (typically within a building or campus) used to link together computers and peripheral devices (such as printers) under some form of standard control.



LC (Latching Connector)

A miniaturized version of the fiber-optic SC connector. It looks just like the SC, but is half the size with a 1.25 mm ferrule instead of 2.5 mm.



Laser Optimized

Laser-optimized (50 micron, multimode) fiber: Laser-optimized multimode fiber cable allows the use of lower cost laser light sources, so-called VCSELs (Vertical Cavity Surface Emitting Lasers) to achieve speeds and distances previously only possible through a more expensive single mode fiber laser. TIA-568-C outlines the specification for OM3 grade fiber as an 850-mn, laser-optimized, 50 micron cabled fiber for 10GbE distances out to 300 meters. TIA-598-C standard adopted the aqua colored jacket to correspond to performance requirements.

Link

The part of the horizontal cabling system between the work area outlet and the telecom closet termination.

Mbps

Megabits Per Second. One million bits per second. (Different from MBps, or a million bytes per second.)

MDF

Main Distribution Frame. A wiring arrangement which connects the telephone lines coming from outside on one side and the internal lines on the other. A main distribution frame may also carry protective devices as well as function as a central testing point.

Mhz

Megahertz. Millions of cycles (Hertz) per second. A frequency or frequency range (Bandwidth) through which a cabling system is specified.



Modular Jack

The standard female connector for twisted pair cable.

Modular Plug

The standard male connector for twisted pair cable.

MT-RJ

A small form factor fiber optic connector that is defined by its high density footprint and RJ47 locking mechanism.

Multimode

Optical fiber with either 50 micron or 62.5 micron core size, designed to allow light to carry multiple signals distinguished by frequency or phase, at the same time. Can be used with LED or LASER light sources. Contrasts with single-mode. Common in Local Area Networks.

Multi-user outlet

A work area outlet designed to support multiple users. Also called multi-user telecommunications outlet assembly.



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Near End Crosstalk

(NEXT) is an electromagnetic interference (EMI), also known as crosstalk, introduced on UTP by close by wires, usually running in parallel with the NEXT induced wire. "Near End" refers to the inductance of EMI in the end closer to the end being measured on the alternate wire in a pair.

Network

A network ties things such as communications or computer equipment together. Computer networks connect computers and computer-related things— terminals, printers, modems, door entry sensors, temperature monitors, etc. Local Area Networks (LANs) to connect computer equipment within a building or campus. Wide area networks extend beyond metropolitan areas.

NIC

Network Interface Card. Allows a PC to attach to a network.

Node

A device connected to a network.

Outlet

A telecommunications outlet is a single-piece cable termination assembly (typically on the floor or in the wall), containing one or more modular telecom jacks. Such jacks might be RJs, coaxial terminators, fiber optic couplers, etc. See also Device and Equipment.

Patch Cord

A cable assembly with a plug on each end, used to make a cross connection.

Patch Panel

A rack-mountable panel (usually 19" wide) containing connecting hardware. Used to patch between groups of cables and equipment.

Glossary

PBX

Private Branch Exchange. The premises telephone switch. Handles all telecom functions.

Performance

Compare with Compliance. A device can exhibit performance characteristics without being compliant to an industry standard.

Plenum Cable

Cable specifically designed for use in a plenum (the space above a suspended ceiling used to circulate air back to the heating or cooling system in a building).

PoE

Power Over Ethernet technology describes any system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. This technology is useful for powering IP telephones, wireless LAN access points, webcams, Ethernet hubs, computers, and other appliances where it would be inconvenient or infeasible to supply power separately.

Polarity

A term describing positive and negative sides of an electrical circuit. Positive and negative wires must be wired correctly to support touchtone phones and video.



POTS

Plain Old Telephone Service. The basic service supplying standard single line telephones, telephone lines and access to the public switched network with no added features such as call waiting or forwarding.

Power Sum

A test method for four pair cable whereby the mathematical sum of pair-to-pair crosstalk from three pairs to one pair is measured.

Premises Wiring System

The entire wiring system on the user's premises, especially the supporting wiring that connects the communications outlets to the network inter-face jack.

Propagation Delay

The amount of time it takes a signal to travel through a cable or system.

PS ELFEXT

See Power sum and ELFEXT.

PS NEXT

See Power sum and NEXT.

Punchdown

Refers to the use of an impact tool that enables installers to make efficient IDC style connections.



Rack

Used to mount patch panels, enclosures and equipment in the telecom closet. Usually 19" wide by 7' high.

RCDD®

The RCDD (Registered Communications Distribution Designer) title is a professional rating granted by BICSI (the Building Industry Consulting Service International). RCDDs have demonstrated a superior level of knowledge of the telecommunications wiring industry and associated disciplines.

Return Loss

A measure of the similarity of the impedance of a transmission line and the impedance at its terminations. It is a ratio, expressed in decibels, of the power of the outgoing signal to the power of the signal reflected back.

Riser

Backbone cabling connecting telecom closets situated vertically on separate floors.



RJ (Registered Jack)

RJs are telephone and data jacks registered with the FCC. Numbers, like RJ-11, RJ-45, etc. are widely misused in the telecommunications industry. A much more precise way to identify a jack is to specify the number of positions (width of opening) and number of conductors. Example: "8-position, 8-conductor jack" or "6-position, 4-conductor jack".

RJ11

A wiring pattern for 6-position modular jacks. Used to refer to the jacks themselves.

RJ21

A wiring pattern for a 25-pair connector.

RJ45

A wiring pattern for 8-position modular jacks. Used to refer to the jacks themselves.

RoHS (Restriction of Hazardous Substances)

European Directive 2002/95/EC requires specific limitations of six substances. Refer to page 111 or visit www.allentel.com for more details.

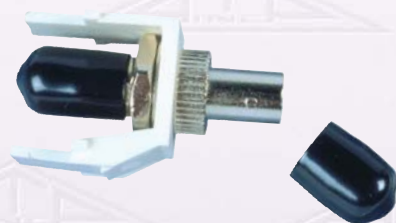
SC (Stick and Click)

An SC fiber optic cable connector uses a push-pull connector similar to common audio and video plugs and sockets.

Single Mode

Optical fiber with an 8.3-9.5 micron core size, optimized for LASER light sources which transmit only one mode or path of light. This eliminates modal dispersion, the main limitation to bandwidth. Typical in long-haul networks and outside plant applications due to increased bandwidth.

Glossary



Telco

Short for telecommunications or Telephone Company.

Telco Connector

Refers to a 25-pair connector.

Telecom Closet

The area of the building that houses the termination of the horizontal cabling.

Thicknet

IEEE 10BASE5. 10 Mbps Ethernet on thick coaxial cable.

Thinnet

IEEE 10BASE2. 10 Mbps Ethernet on thin (RG58) coaxial cable.

T1

A standard for digital transmission in North America. A digital transmission link with a capacity of 1.544 Mbps (1,544,000 bits per second.) T1 lines are used for connecting networks across remote distances. Bridges and routers are used to connect LANs over T1 networks.

TIA

Telecommunications Industry Association. A trade organization of manufacturers which sets standards for use of its member companies. Formerly fell under the umbrella of EIA, (Electronic Industries Alliance). See www.tiaonline.org.



TIA/EIA

Telecommunications Industry Association / Electronic Industries Alliance.

Twisted Pair

Two insulated copper wires twisted around each other to reduce induction (thus interference) from one wire to the other. The twists, or lays, are varied in length to reduce the potential for signal interference between pairs. Several sets of twisted pair wires may be enclosed in a single cable. In cables greater than 25 pairs, the twisted pairs are grouped and bound together.

UTP

Unshielded Twisted Pair. See Twisted Pair.

VoIP

Voice over Internet Protocol allows voice calls to be encoded and transmitted over the data network. Benefits are cost-savings, the ease of managing just one network, and lots of new services including integrated messaging, voice emails, number portability, and phone account management via Internet.



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WAN

Wide Area Network- a public voice or data network that extends beyond the metropolitan area.

Work Area

Where the users' communications equipment resides. The part of the cabling system between the outlet and the equipment.

Workstation

The working area in a building required by one telecommunications user. Industry standards call for one voice drop and one data drop for each workstation. The voice drop is one 4-pair unshielded twisted pair (UTP). The data drop may be 100. 4-pair UTP, 150. 2-pair shielded twisted pair (STP), or optical fiber.

Zone Cabling

An architectural concept which splits the horizontal cabling into two sections. Eliminates the need to replace the entire horizontal cable in adds, moves and changes.

ST (Stick and Turn)

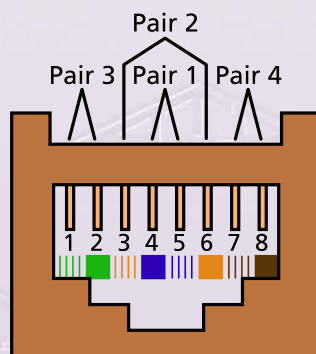
A fiber-optic cable connector that uses a half-twist bayonet type of lock to keep the connection secure. ST connector was originated by AT&T Bell laboratories for use in premises wiring of buildings and other applications. It was the first de facto standard connector for most commercial wiring.

STP

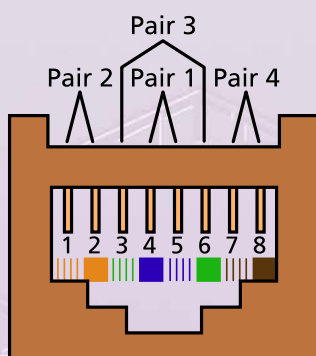
Shielded Twisted Pair. 2-pair 150 ohm shielded cable.

Switch

A type of network hub. Provides higher bandwidth than shared hubs.



T568A



T568B

T568A & T568B

The two standard wiring patterns for 8-position modular jacks.

Index

(Numerical Order)

25-3-CC SERIES CONNECTORIZED CABLE	44	AT10A Crimp Tool with Die	49
25-3-CX Series Connectorized Cable	44	AT10A-4 Crimp Tool with Die	49
25-3-PC Series Connectorized Cable	44	AT10A-6 Crimp Tool with Die	49
25-3-PP Series Connectorized Cable	44	AT10A-8 Crimp Tool with Die	49
25-3-PX Series Connectorized Cable	44	AT10ADEC Crimp Tool with Die	49
9701 Replacement Blades	49	AT10G CAT 6A Jack Module	7
9702 Replacement Blades	49	AT10GPNL-U24	30
9703 Replacement Blades	49	AT10GPNL-12	30
AP50 Dial	76	AT10GPNL-24	30
AP929 Hanger Headset	81	AT10X10 Modular Plug	48
AP1816 Dial	76	AT12XX-4C Category 3 Data Cord	46
AT4FM Furniture Module	17	AT12XX-6C Category 3 Data Cord	46
AT4CLC Bulk Line Cordage	47	AT12XX-NK Category 3 Data Cord	46
AT4CRB Bulk Line Cordage	46	AT24 Hi Density Jack	9
AT4X4 Modular Plug	48	AT26 Hi Density Jack	9
AT4X4SC-2224 Modular Plug	48	AT28 Hi Density Jack	9
AT4X6 Modular Plug	48	AT30 Series Faceplates	14
AT4X6SC-2224 Modular Plug	48	AT30D-12 12 Port Faceplate	14
AT6-4 Jack Insert	25	AT30M Surface Mounting Box	17
AT6CLC Bulk Line Cordage	47	AT30VC6 Terminating Tool	12, 41
AT6CRB Bulk Line Cordage	46	AT31 Blank Module	11
AT6X6 Modular Plug	48	AT31FO Fiber Optic Connector insert	11
AT6X6DEC Modular Plug	48	AT31ST Fiber Couplers, ST Type	11
AT6X6RCSC-2224 Modular Plug	48	AT32BB Coax Connector	10
AT6X6SC-2224 Modular Plug	48	AT32F Coax Connector	10
AT8-6 Jack Insert	25	AT32LC-XX Fiber Adapter	11
AT8CLC Bulk Line Cordage	47	AT32MTRJ-XX Fiber Adapter	11
AT8CRB Bulk Line Cordage	46	AT32SC-XX Fiber Adapter	10
AT8X8 Modular Plug	48	AT32RCA-110 RCA Connector	10
AT8X8K Modular Plug	48	AT32RCA-XX RCA Connector	12
AT8X8RC Modular Plug	48	AT32RCA-R/B RCA Coupler	12
AT8X8RCSC-24 Modular Plug	48	AT32VD Video Connector	10
AT8X8SC-2224 Modular Plug	48	AT33-6 Housing	16

Index

(Numerical Order, continued)

AT33D Housing	16	AT66BLD	12, 41
AT33S Housing	16	AT66C-00 Category 6 Couple	7
AT34 Modular Jack Module	9	AT66CB Connection Block	31
AT36 Modular Jack Module	9	AT66-PNL Series Category 6 Patch Panels	30
AT38 Modular Jack Module	9	AT66 Series Category 6 Jacks	7
AT40 I.D. Labels	15	AT66SH Category 6 Shielded Jack	7
AT42A4 Connecting Block	23	AT70 Series Face Plates with I.D. Stations	14
AT42A6 Connecting Block	23	AT71 Dial	76
AT43B Mounting Bracket	18	AT88 Dial	76
AT44 Housing	16	AT90 Mounting Bracket	17
AT45D-8 Double Gang Faceplate, 8 Port	14	AT92 Mounting Bracket	17
AT45MB Double Gang Mounting Box	17	AT93 Mounting Bracket	17
AT45S-4 Single Gang Faceplate, 4 port	14	AT94 Mounting Bracket	17
AT55 Category 5e Jacks	8	AT95G Dial	76
AT55B-PNL Category 5e Patch Panel	30	AT100 Filter	87
AT55B-6P Category 5e Patch Box	31	AT103-6-52 Modular Surface Jack	21
AT55B-12P Category 5e Patch Box	31	AT103A8 Modular Surface Jack	21
AT55B-12PT Category 5e Patch Panel	31	AT103D8-52 Modular Surface Jack	21
AT55C-00 Coupler	8	AT104-6-52 Modular Duplex Surface Jack	22
AT55CSB Cable Support Bar	32	AT104A8 Modular Duplex Surface Jack	22
AT55HM Hinged Wall Bracket	32	AT104B8 Modular Duplex Surface Jack	22
AT55SH Category 5e Shielded Jack	8	AT105AF Flush Mount Jack Outlet	20
AT55WB Cable Support Bar	32	AT105P Wall Plates	21
AT55WMP Wire Management Panel	32	AT106-6-52 Flush Mount Duplex Jack Outlet	21
AT60 Series Designer Face Plates	16	AT106AFD Flush Mount Duplex Jack Outlet	21
AT62 Series 2 Port Housing	16	AT106BFD Flush Mount Duplex Jack Outlet	21
AT63 Series 3 Port Housing	16	AT106H Versatap Jack Housing	16
AT65 Hi Density Jack	8	AT106P Duplex Wall Plates	15, 21
AT65SH Category 5e Shielded Jack	8	AT107BFD Flush Mount Duplex Jack Outlet	21
AT66 Impact Tool	12, 41	AT108B Modular Duplex Surface Jack	22
AT66-6P Category 6 Patch Box Keys	31	AT110 110 IDC Impact Tool	12, 41
AT66-12P Category 6 Patch Box	31	AT110-5P Termination Tool	12, 41
AT66-12PT Category 6 Patch Panel	30	AT110-5PRH Replacement Head	12, 41

Index

(Numerical Order, continued)

AT110BLD Replacement Blade	12, 41	AT259 Series Modular Adapters	86
AT116-4P Termination Tool	12, 41	AT267 Series Phone/Modem Adapters	90
AT116-4PRH Replacement Head	12, 41	AT268 Flush Duplex Wall Jack	20
AT125-SM Bridging Adapter	84	AT268-K Flush Duplex Wall Jack	20
AT150 Modular Adapter	85	AT304B "T" Adapter	89
AT153AM Series Adapter	86	AT307 1/4 Modular Line Cord	47
AT153K-M6 Adapter Kit	86	AT314 1/4 Modular Line Cord	47
AT153K-M8 Adapter Kit	86	AT316 Series Flush IDC Plates	18
AT173 Adapter	88	AT317 Series Duplex Flush IDC Plates	18
AT173A Adapter	88	AT325 1/4 Modular Line Cord	47
AT202 Series "T" Adapter	89	AT327 Double Plug	81
AT203-8 "T" Adapter	89	AT330-4 Modular Coupler	88
AT203-TBT Adapter	89	AT400E Modular Adapter	88
AT206-12 Modular Extension Cord	47	AT404B Telephone Jack	87
AT206-25 Modular Extension Cord	47	AT407 Modular Line Cord	46
AT207-12 Modular Extension Cord	47	AT414 Modular Line Cord	46
AT207-25 Modular Extension Cord	47	AT425 Modular Line Cord	46
AT210 Series In-Line Couplers	87	AT444 Duplex Surface Jack	24
AT213 Plug	81	AT450A Bridging Adapter	84
AT214B4 Surface Jack	23	AT450-SM Series Bridging Adapters	84
AT214B6 Surface Jack	23	AT464 "T" Adapter	89
AT214C4 Surface Jack Cover	23	AT468-4 Modular Surface Jack	22
AT214C6 Surface Jack Cover	23	AT468-4-15 Modular Surface Jack	22
AT216 Series Flush Wall Jacks	18-19	AT468-4-EI Modular Surface Jack	22
AT216SM Series Flush Smooth Wall Jacks	19	AT468-6 Modular Surface Jack	22
AT217 Series Flush Duplex Wall Jacks	20	AT468-6-15 Modular Surface Jack	22
AT217SM Series Flush Duplex Smooth Wall Jacks	19	AT468-6-EI Modular Surface Jack	22
AT218 Round Flush Mount Wall Jack	20	AT468-6DEC Surface Mount DEC Jack	22
AT219-4 Wall Telephone Jack	27	AT468-8 Modular Surface Jack	22
AT219-4-15 Wall Telephone Jack	27	AT468-8-15 Modular Surface Jack	22
AT219-6 Wall Telephone Jack	27	AT523A4 Modular Jack	91
AT221 Spacer	21	AT523A6 Modular Jack	91
AT229 Wall Telephone Jack	28	AT546 Crimping Tool	49

Index

(Numerical Order, continued)

AT568 Crimping Tool	49	AT630B-8 Wall Telephone Jack	27
AT568-4-XX Surface ID Jack	18	AT630BBC-4 Wall Telephone Jack	27
AT568-6-XX Surface ID Jack	18	AT630BBC-6 Wall Telephone Jack	27
AT582 Crimping Tool	49	AT630BNL-4 Flush Wall Jack	26
AT584 Crimping Tool	49	AT630BNL-6 Flush Wall Jack	26
AT607 Modular Line Cord	46	AT631A Wall Telephone Jack	28
AT614 Modular Line Cord	46	AT635B Voice Connecting Block	23
AT616 Series Modular Jack	91	AT635C1 Voice Connecting Block	24
AT623D-4 Modular Jack	91	AT635C2 Voice Connecting Block	24
AT623D-6 Modular Jack	91	AT635C3 Voice Connecting Block	24
AT623P-4 Modular Jack	91	AT635CX Voice Connecting Block	24
AT623P-6 Modular Jack	91	AT635WP Outdoor Surface Jack	24
AT625 Modular Line Cord	46	AT641 Modular Jack	91
AT625A3-4 Modular Surface Jack	22	AT647 Modular Jack	91
AT625A3-6 Modular Surface Jack	22	AT666 Duplex Surface Jack	24
AT625A3-8 Modular Surface Jack	22	AT680 Crimp Tool	49
AT625A3-8SB Modular Surface Jack	22	AT682 Crimp Tool	49
AT625B-4 Flush Wall Jack	19	AT697B-NK Flush Wall Jack	25
AT625F-4 Flush Jack	18	AT697B-NK-15 Flush Wall Jack	25
AT625MB Mounting Box	17	AT742A Wire Junction Box	23
AT625MBD Deep Mounting Box	17	AT742B Wire Junction Box	23
AT625WP Outdoor Surface Jack	24	AT806-XX Mod. Retractable Handset Cord	47
AT630A-4 Wall Telephone Jack	26	AT812-XX Mod. Retractable Handset Cord	47
AT630A-6 Wall Telephone Jack	26	AT825-XX Mod. Retractable Handset Cord	47
AT630ABC-4 Wall Telephone Jack	26	AT888 Duplex Surface Jack	24
AT630ABC-4-15 Wall Telephone Jack	26	AT1007-NK or K Modular Line Cord	46
AT630ABC-6 Wall Telephone Jack	26	AT1014-NK or K Modular Line Cord	46
AT630AIP-4 Wall Telephone Jack	27	AT1025-NK or K Modular Line Cord	46
AT630AIP-6 Wall Telephone Jack	27	AT1029-4F Combination Wall Jack	24
AT630AQB-4 Wall Telephone Jack	26	AT1029-4F-15 Combination Wall Jack	24
AT630AQB-6 Wall Telephone Jack	26	AT1029-FF Flush Mount Duplex Wall Jack	25
AT630B-4 Wall Telephone Jack	27	AT1031-F Flush T.V. Wall Jack	25
AT630B-6 Wall Telephone Jack	27	AT1031-F-15 Flush T.V. Wall Jack	25

Index

(Numerical Order, continued)

AT1200 Series Category 3 Token Ring Cords	46	ATBKDV-8 8 Port Stainless Steel Face Plate	15
AT1500 Series Category 5EV Patch Cords	43	ATBK-VoIP VoIP Wall Faceplate	28
AT1500-REC Series Cross-Over Cables	44	ATD100 ATD Insertion Tool	94
AT1600 Series Category 6 Patch Cords	43	ATD200 ATD Crimping Tool	94
AT1813 Series Handset Hangers	74	ATD9FCK Connector Kit	93
AT1900 Handset Hanger	74	ATD9FCKS Connector Kit	94
AT1977 Handset Hanger	74	ATD9MCK Connector Kit	93
AT1984 Hookswitch Assembly	74	ATD9MCKS Connector Kit	94
AT2412F Adapter	85	ATD15FCK Connector Kit	93
AT2412M Adapter	85	ATD15FCKS Connector Kit	94
AT2608F Adapter	85	ATD15MCK Connector Kit	93
AT2608M Adapter	85	ATD15MCKS Connector Kit	94
AT2806F Adapter	85	ATD25FCK Connector Kit	93
AT2806M Adapter	85	ATD25FCKS Connector Kit	94
AT2812FTBT Adapter	85	ATD25MCK Connector Kit	93
AT2812MTBT Adapter	85	ATD25MCKS Connector Kit	94
AT8974 Hanger	74	ATDB9F-6 or -8 Adapter Kit	93, 97
AT10784A Series Hookswitch Assemblies	74	ATDB9F-DEC Adapter Kit	93, 97
AT10806 Handset Hanger	74	ATDB9FS-8 Shielded Adapter Kit	93, 97
AT19252-L1 Bridging Adapter	85	ATDB9M-6 or -8 Adapter Kit	93, 97
AT19252-L2 Bridging Adapter	85	ATDB9M-DEC Adapter Kit	93, 97
AT19252-L3 Bridging Adapter	85	ATDB9MS-8 Shielded Connector Kit	93, 97
AT19252-L4 Bridging Adapter	85	ATDB15F-6 or -8 Adapter Kit	93, 97
AT21541 Hookswitch Assemblies	74	ATDB15M-6 or -8 Adapter Kit	93, 97
AT540680 Handset Hanger	74	ATG10XX-xx 10Gb Cat 6A Patch Cord	43
AT810610 Hookswitch Assemblies	75	ATGC Series Gender Adapters	95, 97
ATBK9, ATBK9-2 Stainless Steel Face Plate	95	ATGM Series Mini-Gender Changers	94
ATBK15, ATBK15-2 Stainless Steel Face Plate	95	ATMT25MF RS232 Mini-Tester	96
ATBK25 Stainless Steel Face Plate	95	ATNM25FF Null Modem	96
ATBK-CX Stainless Steel Face Plate	52	ATNM25MF Null Modem	96
ATBK-F Stainless Steel Face Plate	52	ATNM25MM Null Modem	96
ATBKF-VT Series Stainless Steel Face Plate	15	ATP2500-1 Dial Card	70
ATBKDV-4 4 Port Stainless Steel Face Plate	15	ATPNL Series Patch Panels	32
ATBKDV-6 6 Port Stainless Steel Face Plate	15	ATPNL-HD-24 High Density Patch Panels	33

Index

(Numerical Order, continued)

ATPNL-HD-48 High Density Patch Panels	33	GB67 Mounting Bars	82
ATPNL-HDSH-24 High Density Shielded Patch Panels	33	GB69 Plug-Ended Push-to-talk Handset Assemblies	72
ATRA6F-DEC RS232 Adapter Kit	96-97	GB70 Series Outdoor Telephones	63, 64, 65, 78
ATRA6F RS232 Adapter Kit	96-97	GB72 Series Outdoor Telephones	63
ATRA6M-DEC RS232 Adapter Kit	96-97	GB89D Bracket	40
ATRA6M RS232 Adapter Kit	96-97	GB90 Series Outdoor Telephones	61, 64, 65
ATRA8F RS232 Adapter Kit	96-97	GB92V Outdoor Telephone	61, 65
ATRA8FS Shielded Adapter Kit	93, 97	GB94V Outdoor Telephone	61, 64
ATRA8M RS232 Adapter Kit	96-97	GB97 Outdoor Telephone	61, 63, 64, 78
ATRA8MS Shielded Adapter Kit	93, 97	GB101A-M Jack Boxes	82
CT59T F Terminator	56	GB101B-M Jack Boxes	82
CT 102FF F-81 Face Plate	52	GB110 Series 110 Terminating System	33, 34
CT 103 Flush Face Plate	52	GB110 System Cat 5e Series	34
CT 103F F-81 Face Plate	52	GB110 System Cat 6 Series	33
CT 104F Tel Jack F-81 Face Plate	52	GB110PC4 Series 110 Patch Cord	34
CT 240, 241 Bushings	53	GB110PC45 Series 110 Patch Cord	34
CT 400 Series Splitters	51	GB110PC6 Series 110 Patch Cord	33
CT 700 Series F Connectors	54, 55, 56	GB116 Electret Transmitter	70, 71, 73
CT 721 In Line Splice	56	GB117 Noise Cancelling Transmitter	70, 71, 73
CT 722 Grounding Block	53	GB128C Line Box	81
CT 724 In Line Splice	56	GB180 Series Color Coded Backboards	37, 38, 39
CT 726, 727 Cable Clips	53	GB198A Backboard	40
CT 770 Crimp Tool	53	GB198AM Backboard White, Metal	40
CT 771 Crimp Tool	54	GB212 Fiber Optic Wall Mount Cabinet	35
CT 777, 777-12 F-Connector Tool	53	GB221/GB221F Headset - Handset Plug Adapter	83
CT 2100 Series 1.0 GHz Splitters	51	GB252 Elevator/Hall Tel. Set	65, 66, 67
GB Series Fiber Jumper Cables	45	GB259V Series Outdoor Telephones	61, 62, 65
GB8A, 8B, 8X Buzzers	81	GB275 Galaxy Telephone	71
GB10A, B, C Distributing Rings	40	GB300 Ezy Stick	41
GB13A, B, C Distributing Rings	40	GB300TK Replacement Tool Kit	41
GB20 Distributing Post	40	GB306V Vandal Resistant Telephones	65, 70
GB59V Series	61, 62, 64, 65	GB324 Fiber Optic Rack Mount Cabinet	35
GB65 Plug-Ended Headset Assemblies	72	GB477 Adapter	83

Index

(Numerical Order, continued)

GB478B Modular Adapter Plug	83	GB31858 Weather Resistant Telephone Enclosure	66
GB480 Adapter	83	GB31932 Protective Cover	66
GB482 Adapter	82	GB32390 Series Outdoor Telephones	63, 64, 79
GB522 Elevator/Hall Telephone Sets	66, 67	GB33585 Series Media Box	41
GB523/524 Elevator/Hall Telephone Sets	68	GB33645 Series Media Box	41
GB524-L1 Wall Can/Door & Frame Assembly	68	GB33987 Series Media Box	41
GB555 Elevator/Hall Telephone Sets	67	GB62247 Outlet Box	67
GB555-ADA Tel. Sets for Disabled	69, 79	GB62248 Trim Frame	67
GB555SND-ADA Tel Sets for the Disabled	69, 79	GBDB9MF-6 Computer Cable	98
GB750-L1 Galaxy Telephone Wall Can	71	GBDB9MF-10 Computer Cable	98
GB2500WK Message Waiting Kit	76	GBDB9MM-10 Computer Cable	98
GB2500V Series Multi-feature telephones	69	GBDB25MCN36M-8 Computer Cable	98
GB2512VS Telephone w/Automatic Dialer	65, 70	GBDB25MCN36M-15 Computer Cable	98
GB2523V/GB2524V Elevator/Hall Tel. Set	65, 68	GBDB25MDB9M-6 Computer Cable	98
GB2554V Series Mini Wall Telephones	69	GBDB25MF-X Computer Cables	98
GB2555 / 555SND Hall/Elevator Speakerphone	67	GBDB25MM-X Computer Cables	98
GB2654D Panel Telephones	71	GBF-BP Blank Metal Filler Panel	36
GB275V Galaxy Telephones	71	GBG3 Series Armored Cord Handsets	73
GB2750-L5 Galaxy Telephone Trim Frame	71	GBG6B/6M Amplified Handset	71
GB2765-XX-A Galaxy Telephones	71	GBH4DA Armored Cord/Handset Assembly	73
GB5955 Series Outdoor Telephones	62	GBH4HS Adapter for Armored Cord	73
GB5955-LAF Adapter Frame	66	GBLC Series Loaded Duplex Fiber Optic Panel	36
GB5955-PMB Mounting Bracket	66	GBNC-BHS BNC bulk head splice	58
GB6500 Series Armored Handsets	73	GBNC-SPL BNC In-line splice	58
GB9849 Apparatus Blank	76	GBNC-TCB BNC Tee connector, brass body	58
GB10363 Handset Weight	73	GBNC-TCZ BNC Tee connector, zinc body	58
GB10427 Suppressor Module	82	GBNC-TP BNC Terminator plug	58
GB10705 Blue Grommet for Hearing Aid	73	GBNC58 Series BNC Connectors	57
GB25900 Series Outdoor Telephones	61, 62, 63, 78	GBNC60 Series BNC Connectors	57
GB30152 Panel Bracket	73	GBNC70 BNC Connector	57
GB30618 Surface Mounting Frame	67	GBNC80 BNC Connector	57
GB31454 Mini Hall / Elevator Phones	68, 79	GBSC Series Loaded Fiber Optic Panel	36
GB31454-ADA Mini Hall / Elevator Phones	69, 79	GBST Series Loaded Duplex Fiber Optic Panel	36
GB31560 Mini/Hall Telephone Set	68		

Index

Alphabetical Order

A

ADAPTER

Bridging	84-85
Fiber	10, 11
Frame, Outdoor telephone mounting	66
Gender	95
Handset	82-83
Handset/headset	83
Kits	86, 93, 96
Modular	85-86, 88-90
Multi-Line	85
Phone/Modem	90
RS232 kits	96
"T" Adapters	89-90
Telephone	82-86

AMPLIFIED

Handsets	71
----------	----

APPARATUS

Blank, dial	76
-------------	----

ARMORED

Cords	73
-------	----

B

BACKBOARD

Accessories	37-40
Color coded assembly	37-40

BAR

Cable support	32
Mounting	82

BLANK

Apparatus, Dial	76
-----------------	----

BLOCK

Connecting	23
Grounding	53
Voice connecting	23-24

BOX

Category 6 Connection	31
Jack, Telephone	82
Junction, Wire	23
Line, Telephone	81

Network Media	41
Outlet, Elevator	67
Patch, Cat 5e & Cat 6	31
Surface Mounting	16-17

BRACKET

Hinged Wall	32
Mounting	17, 18, 40
Pole mounting (Outdoor telephone)	66

BUSHINGS

Feed Thru	53
-----------	----

BUZZERS

Buzzers, A.C.	81
---------------	----

C

CABINETS

Rack Mount, fiber	35
Wall Mount, fiber	35

CABLES

Category 3, Token Ring	46
Clips, Coax	53
Computer	98
Connectorized	44
Crossover	44
Support Bar	32

CARD

Designation, dial	70
-------------------	----

CATV/COAX

BNC COAX Coupler	10
BNC Connectors	57-58
BNC Splice	58
BNC Terminator Plug	58
Cable Clips	53
Combination Wall Jack, F-Connector	24
Crimp Tool	52
F-Connector, In-line Splice	56
F Series Connector	10, 54-56
F-Terminator	56
Feed-thru Bushing	53
Grounding Block	53
RCA 110 Module	10

CATV/COAX (continued next page)

Index

(Alphabetical Order, continued)

RCA Connector	12
RCA Coupler	12
S-Video Module	10
Termination Instructions	59
TV Wall Jack, F-Connector	25

CONNECTOR

110 System	33-34
BNC	57-58
D-Kits	93
D-Kits, shielded	94
F-Connector	10, 54-56
RCA	12
Voice Block	24

CORDS

Armored	73
Handset	47
Line	46-47

CORDS, MODULAR

110 Cords	33-34
Cross-Over, Category 5e	44
Data, Category 3, Token Ring	46
Data, Category 5e	34, 43
Data, Category 6	33, 43
Data, Category 6A	43
Extension	47
Fiber Jumpers	45
Handset	47
Line	46-47
Line, 8-conductor, keyed	46
Line, 8-conductor, non-keyed	46

CORDAGE

Bulk, line	46-47
Data, Token Ring	46

COUPLER

BNC	10
Category 5e	8
Category 6	7
In line, Telephone	87
Modular, Telephone	88
RCA	12

D

DATA

Adapter kits	86, 93-94, 96
Cables	98
Connector kits	93-94, 96
Cords, Line	46
Fiber Jumper	45
Gender changers	94-95
Null modem	96
Patch cords	43
Patch panels	30-33
RS232 adapter kits	96
Tester, RS232	96

DESIGNATION

Dial	70
------	----

DIAL

Blanks, apparatus	76
Cards, Designations	70
Dials	76

DISTRIBUTING

Post	40
Ring	40

E

ELEVATOR

Telephone	66-69, 79
-----------	-----------

EMERGENCY

Telephone	62-69, 77-79
Telephone sets, ADA	63, 69, 77-79

F

FACE PLATE

Designer	16
Furniture	17
Labels	15
Outlet	15-16, 21
Stainless steel	15, 95
Versatap	14-16
VoIP	28

Index

(Alphabetical Order, continued)

FIBER OPTIC

Cabinets, Rack Mount	.35
Cabinets, Wall Mount	.35
Panels, Cabinet	.36
Patch Cords	.45

FIBER OPTIC ADAPTER

Fiber Coupler Insert	.11
LC Fiber Adapter	.11
MTRJ Fiber Adapter	.11
SC Fiber Adapter	.10
ST Fiber Adapter	.11

FILTER

Line, radio frequency	.87
-----------------------	-----

FRAME

Adapter, Outdoor housing	.66
Trim, Galaxy telephone	.71

G

GALAXY

Telephones, Flush Mount	.71
-------------------------	-----

GENDER CHANGERS

Mini	.94
Standard	.95

GLOSSARY	.111-116
----------	----------

H

HANDSET

Accessories	.71, 73
Amplified	.71
Armored cord	.73
Hanger	.74-75
Hookswitch	.74-75
Plug-ended assembly	.72
Push-to-talk	.72

HANGER

Handset	.74-75
Headset	.81

HOOKSWITCH

Assembly	.74-75
----------	--------

HOUSING

Outdoor, ADA telephone	.78
Outdoor, Telephone	.61-64

J

JACK

Box	.82
Modular, weather resistant	.24

JACKS AND HOUSINGS

BNC, Combination	.24-25
C.A.T.V.	.24-25
Category 3 Modules	.9
Category 5e Modules	.8
Category 6 Modules	.7
Category 6A Modules	.7
Cover, Surface	.23
E-Z Jack	.18
Flush, wall	.18-21, 24-25, 52
High Density Category 5e and 6	.7-8
IDC, flush and surface	.20-22
Insert	.11, 25
Modular Duplex, surface	.24
Modular Telephone	.91
RCA	.10, 12
Round Flush, wall	.20
Shielded Category 5e and 6	.7-8
Surface	.16, 22-24
Smooth, flush	.19
Spacer	.21
Versatap Jack Housing	.16
Wall telephone	.26-28
Wall telephone, universal	.26-28
Weather Resistant, outdoor	.24

L

LABEL

Identification	.15
----------------	-----

LINE

Box, jack	.81
-----------	-----

M

MAT

Trim, Galaxy Telephone	.71
------------------------	-----

Index

(Alphabetical Order, continued)

MESSAGE

Waiting kit76

MODEM

Null96

MODULE

Suppressor (radio frequency)82

MOUNTING

Bars82

Bracket17-18, 32, 66

N

NETWORK MEDIA BOX41

O

OUTDOOR

Telephone61-66, 78-79

Telephone enclosure61-64, 66

P

PANEL

Cable Management32

Fiber Optic Adapter36

Telephone set, Galaxy71

Telephone set, rack mounted71

PATCH BOX

Category 5e31

Category 631

PATCH CORDS

110 System33-34

Category 5e43

Category 643

Category 6A (10Gb)43

Connectorized Cable44

Fiber Optic Cable Assemblies45

PATCH PANELS

Category 5e30-31

Category 630

Category 6A30

High Density33

Wire management30-33

Versatap, unloaded32

PLUG

Adapter82-83

Modular48

Telephone81

POLE

Mounting Bracket (Outdoor telephone)66

PROTECTOR

Filter, radio frequency87

R

ROHS

ROHS106

RADIO FREQUENCY

Suppressor82

RING

Distributing40

S

SET

ADA Telephones63, 69, 77-79

Courtesy telephone70

Desk telephone69

Elevator66-69, 79

Emergency66-69, 79

Outdoor61-66, 78

Vandal Resistant70

Wall69

SPLITTERS

COAX51

STRIP

Designation, dial card70

SUPPRESSOR

Radio frequency82

SYSTEM 110

Category 5e34

Category 633

Index

(Alphabetical Order, continued)

T

TECHNICAL REFERENCES

Connectorized Cable Assemblies	107
Data and Connector Wiring Diagrams	108
Handset Hangers and Hookswitch Mounting Details . . 111	
Modular Plugs	109
T568, RJ and USOC codes	99-101
USOC Wiring Diagrams	102-106

TELEPHONE

ADA Telephones	63, 69, 77-79
Courtesy	70
Dials	76
Elevator	66-69,79
Emergency	66-69, 79
Galaxy panel	71
Galaxy accessories	71
Line box (jack)	81
Mini speakerphone	68-69
Outdoor	61-65, 78-79
Outdoor accessories	66
Plugs	81-83
Rack mounted	71
Single line	69
Vandal resistant	70

TESTER

RS232	96
-----------------	----

TOOL

ATD crimping	94
COAX/F-Connector	53
Crimping, plug	49
Ezy Stick	41
Insertion	94
Termination, Impact	12, 41

TRANSMITTER

Electronic (“Electret”)	70-71, 73
Noise Cancelling	70-71, 73

V

VERSATAP MODULAR SYSTEMS

BNC Coax Coupler	10
Coupler insert	11
F-Connector Module	10
Faceplates	14-16
Housing, Surface	16
ID Labels	15
Modular, Blank	11
Modular, Fiber Optic (adapter insert)	10-11
Modular Jacks	7-9
Mounting Box	16-17
Mounting Bracket	17
Patch Panel	32-33
RCA Coupler	12
RCA Connector	12
RCA 110 Punchdown	10
S-Video Punchdown Module	10
Termination Tools	12, 41

VIDEO

Punch down module	10
-----------------------------	----

W

WEATHER RESISTANT

Modular jack	24
Telephones	61-66, 78-79

WIRE MANAGEMENT

Bars	32
Brackets	32
Panels	32



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