GLOBAL CATALOGUE

THE SIMPLIFIED SELECTION OF PROFESSIONAL A/V PRODUCTS FROM LIBERTY AV SOLUTIONS

www.LibAV.com | +1.719.388.7542

HD

TERMINATION
S Y S T E M

PERFECT FOR CREATING CUSTOM LENGTHS!

- Customise your lengths to dress racks or minimise excess cable
- Locking HD connector technology increases retention up to 400%
- Supports HDMI with Ethernet, CEC and bi-directional Audio formats
- Liberty's HD ribbon cable makes preparation much easier than working with individual wires!
- Send 1080p video up to 9m (typical) -Up to 16m with optional extender

3D COMPATIBLE

RoHS 2002/95/EC ✔

GRADE | BEST

SEE PAGES 20-21 FOR OUR FULL LINE OF HDMI CABLES

COMPLETED HD TERMINATION ASSEMBLY

TERMINATE IN 5 MINUTES!
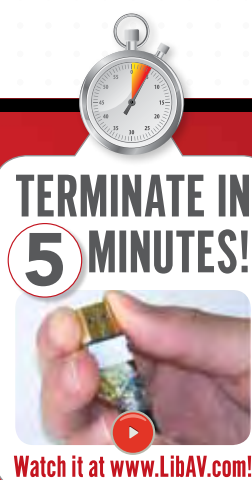
Watch it at www.LibAV.com!

CONNECTORS AND SHELLS
Pack of 10

DL-HDMCPK

CRIMP TOOL
For Liberty's HD ribbon cable and connectors

DL-HDMHT

RIBBON CABLE
250 ft length (76m)

DL-HDMCBL-250

500 ft length (152m)

DL-HDMCBL-500

OPTIONAL EXTENDER
Send 1080p video up to 9m (typical) - Up to 16m with optional extender

DL-HDMEXT

GLOBAL CATALOGUE
## THE SIMPLIFIED SELECTION OF PROFESSIONAL AUDIO/VISUAL PRODUCTS FROM LIBERTY

Gary Michelson founded Liberty Wire & Cable in 1991. With only a receptionist, he started selling bulk cable and within a year he had hired his first sales person. Then a house refurbishment presented Gary with his first major product innovation. In every room he saw many cables for many uses but all with the same colour. Why not, he thought, differentiate cable function with different colours. Soon an industry standard was born. Liberty went national with coloured cable at the next CEDIA Expo and created a hit not just for the genius of its colour coding, but also its durable, flexible, easy-to-pull jacket.

Building on success, Liberty widened its range with interconnects, connectors, and plates & panels with the purchase of PanelCrafters®. By 1998 Liberty started exporting products.

The first years of the new millennium saw Liberty confound the recessionary economy by expanding at a compound rate of 42%. It entered the broadcast market rising quickly in prominence to become a trusted cable supplier for World Cup Skiing in 2000 and 2001 and for the Olympics in 2002.

In 2010 Liberty Wire & Cable changed it's name to Liberty AV Solutions and acquired Intelix to round out their line of digital products and devices as our industry heads for the digital sunrise.

Today Liberty offers complete professional AV solutions, services, and a comprehensive range of high performance cables, connection systems & devices to over 60 countries around the world.
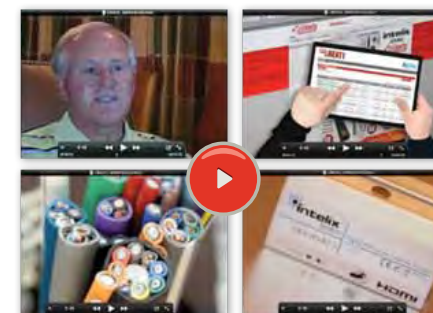
See a quick overview of our great Pro A/V products & solutions!

http://www.LibAV.com
Resources>VideoLibrary

FOR LIBERTY'S FULL SELECTION OF THOUSANDS OF PROFESSIONAL A/V PRODUCTS GO TO WWW.LIBAV.COM

THE LIBERTY EDGE

THIS CHANGES EVERYTHING

THE EDGE ONLINE: LIBERTY'S "SMARTSITE"

SMART SITE
www.LibAV.com

- Search by product type, application or brand
- In-depth keyword functionality with Smart Search
- Quick ordering, ordering history and quoting
- Product suggestions that go with your purchase
- Enhanced for internet enabled smart devices
- Easy shipment tracking
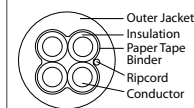- Social networking and exclusive promotions

RoHS 2002/95/EC GRADE | **BEST**

SPEAKER CABLE
Speaker Cable
Amplified Audio

- Outer Jacket
- Insulation
- Paper Tape
- Binder
- Ripcord
- Conductor

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
16-2C-EX+-COLOUR	●●●●●○	CM-A-16 PAGE 48-49	1.5 mm² (16 AWG) 2 core, 105 strand, OFC, twisted, unshielded, ExtraFlex™
16-4C-EX+-COLOUR	●●●●●○	CM-A-16 PAGE 48-49	1.5 mm² (16 AWG) 4 core, 105 strand, OFC, twisted, unshielded, ExtraFlex™
14-2C-EX+-COLOUR	●●○	CM-A-14 PAGE 48-49	2.0 mm² (14 AWG) 2 core, 105 strand, OFC, twisted, unshielded, ExtraFlex™
14-4C-EX+-COLOUR	●●○	CM-A-14 PAGE 48-49	2.0 mm² (14 AWG) 4 core, 105 strand, OFC, twisted, unshielded, ExtraFlex™
12-2C-EX+-COLOUR	●○	CM-A-12 PAGE 48-49	3.0 mm² (12 AWG) 2 core, 105 strand, OFC, twisted, unshielded, ExtraFlex™
12-4C-EX+-COLOUR	●○	CM-A-12 PAGE 48-49	3.0 mm² (12 AWG) 4 core, 105 strand, OFC, twisted, unshielded, ExtraFlex™
10-2C-EX+-WHT	○	CM-A-12 PAGE 48-49	5.0 mm² (10 AWG) 2 core, 105 strand, OFC, twisted, unshielded, ExtraFlex™

RoHS 2002/95/EC GRADE | **BETTER**

SPEAKER CABLE
Speaker Cable
Distributed Audio
Volume Control

- Insulation
- Conductor
- Ripcord
- Outer Jacket
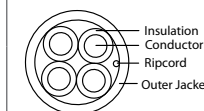
PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
16-2C-KO+-COLOUR	●○	CM-A-16 PAGE 48-49	1.5 mm² (16 AWG) 2 core, 1 twisted, Semi-rigid PVC, 65-strand, NEC rated CM, CEC rated CMG
16-4C-KO+-COLOUR	●●○	CM-A-16 PAGE 48-49	2.0 mm² (14 AWG) 4 core, 1 twisted, Semi-rigid PVC, 65-strand, (UL) rated CM C(UL) rated CMG
14-2C-KO+-COLOUR	●○	CM-A-14 PAGE 48-49	2.0 mm² (14 AWG) 2 core, 1 twisted, 65-strand, NEC rated CL3 CEC rated CMG FT4 AUDIO ONLY
14-4C-KO+-WHT	○	CM-A-12 PAGE 48-49	2.0 mm² (14 AWG) 4 core, 1 twisted, 65-strand, NEC rated CL3 CEC rated CMG FT4 AUDIO ONLY

RoHS 2002/95/EC GRADE | **GOOD**

SPEAKER CABLE
Speaker Cable
Amplified Audio

- Ripcord
- Conductor
- Jacket
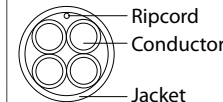
PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
16-2C-HT	○	CM-A-16 PAGE 48-49	1.5 mm² (16 AWG) 2 core, 41 strand, twisted, unshielded, HomeTrax™
16-4C-HT	○	CM-A-16 PAGE 48-49	1.5 mm² (16 AWG) 4 core, 41 strand, twisted, unshielded, HomeTrax™
14-2C-HT	○	CM-A-14 PAGE 48-49	2.0 mm² (14 AWG) 2 core, 41 strand, twisted, unshielded, HomeTrax™
14-4C-HT	○	CM-A-14 PAGE 48-49	2.0 mm² (14 AWG) 4 core, 41 strand, twisted, unshielded, HomeTrax™

RoHS 2002/95/EC GRADE | **GOOD**

SPEAKER CABLE
Direct Burial Speaker Cable/
Amplified Audio

- Binder
- Conductor
- Outer Jacket
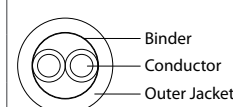
PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
16-2C-DB-BLK	●	CM-A-16 PAGE 48-49	1.5 mm² (16 AWG) 2 core, 19 strand, low capacitance, sunlight resistant
16-4C-DB-BLK	●	CM-A-16 PAGE 48-49	1.5 mm² (16 AWG) 4 core, 19 strand, low capacitance, sunlight resistant
14-2C-DB-BLK	●	CM-A-14 PAGE 48-49	2.0 mm² (14 AWG) 2 core, 19 strand, low capacitance, sunlight resistant
14-4C-DB-BLK	●	CM-A-14 PAGE 48-49	2.0 mm² (14 AWG) 4 core, 19 strand, low capacitance, sunlight resistant
12-2C-DB-BLK	●	CM-A-12 PAGE 48-49	3.0 mm² (12 AWG) 2 core, 19 strand, low capacitance, sunlight resistant
12-4C-DB-BLK	●	CM-A-12 PAGE 48-49	3.0 mm² (12 AWG) 4 core, 19 strand, low capacitance, sunlight resistant

LET'S GET SOCIAL!

Cable Conductor Conversion Table-American Wire Gauge/Metric

AWG	Diametre (mm)	Area (mm²)	AWG	Diametre (mm)	Area (mm²)
10	2.59	5.27	14	1.63	2.08
12	2.05	3.31	16	1.29	1.31

AUDIO
CONNECTEC®
COMPRESSION CONNECTORS
GO TO PAGES 48-49 FOR ORDERING INFO

Audio ConnecTec™ connectors slip on easily to the speaker cable conductor and compress on effortlessly with the easy-to-use ConnecTec™ crimp tool.

- Strip-Free
- Works with all Liberty speaker cable
- All tips gold plated and twist on easily
- Works with any speaker plug-in plate format or design
- For in-wall and non in-wall audio applications

ANGLE PIN
CM-APAP

SPADE LUG
CM-APSL

BANANA PLUG
CM-APBA

10, 12, 14, & 16 AWG
CONNECTOR BASES
CM-A-12
CM-A-14
CM-A-16

BANANA JACK
CM-APBJ

AIRCRAFT GRADE ALUMINUM

COMPRESSION
CRIMP TOOL
CM-TOOL

HEAT SHRINK
HSK-3:1BK-1/2

BOOTS
CM-BOOT-BLK

GRADE | **BEST**

RoHS 2002/95/EC
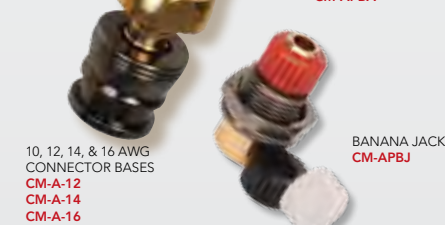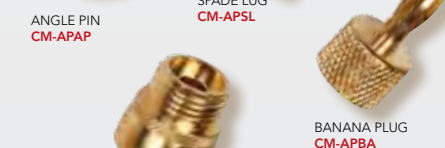
CATEGORY CABLE 6A	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
LAN/VOICE/DATA Cat6a • Non-Plenum LAN • 10/100/1000/10GBaseT Networking • Balun Infrastructure, Voice, Voice over IP cablingVideo, Audio, InfraRed, IP Control, Modulated RF Video • PoE, HDBaseT, Analog and Digital Multimedia	24-4P-L6ASH-COLOUR	○	1401405012-I PAGE 43	0.25 mm² (23 AWG) 4 Pair F/UTP third party verified category 6 augmented cable, tested to 500 MHz
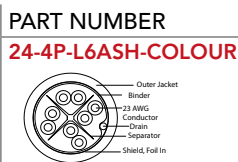
GRADE | **BETTER**

RoHS 2002/95/EC

CATEGORY CABLE 6	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
LAN/VOICE/DATA Cat6 • Non-Plenum Horizontal LAN 10/100/1000BaseT Networking • Balun Infrastructure, Voice, Voice over IP cabling • Video, Audio, InfraRed, IP Control • PoE, HDBaseT, Analog and Digital Multimedia	24-4P-L6SH-COLOUR	● ●	11108080034 PAGE 43	0.25 mm² (23 AWG) 4 Pair UTP third party verified category 6 cable, tested to 550 MHz. 100% Foil Shield with foil and drain wire facing in

GRADE | **BETTER**

RoHS 2002/95/EC

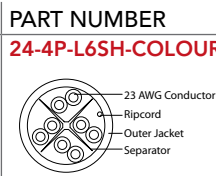| CATEGORY CABLE 6	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
LAN/VOICE/DATA Cat6 • Non-Plenum Horizontal LAN 10/100/1000BaseT Networking • Balun Infrastructure, Voice, Voice over IP cabling • Video, Audio, InfraRed, IP Control • PoE, HDBaseT, Analog and Digital Multimedia	24-4P-L6-EN-COLOUR	●	11108080034 PAGE 43	0.25 mm² (23 AWG) 4 Pair UTP third party verified category 6 cable, tested to 550 MHz.

GRADE | **GOOD**

RoHS 2002/95/EC

CATEGORY CABLE 6	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
LAN/VOICE/DATA Cat6 • Non-Plenum Horizontal LAN • 10/100/1000BaseT Networking • Balun Infrastructure, Voice, Voice over IP cabling • Video, Audio, InfraRed, IP Control • PoE, HDBaseT, Analog and Digital Multimedia	24-4P-L6-HT-COLOUR	● ○ ● ●	100 011LW, 11108080034 PAGE 43	0.2 mm² (24 AWG) 4 Pair UTP third party verified category 6 cable, tested to 300 MHz

GRADE | **BETTER**

RoHS 2002/95/EC

CATEGORY CABLE 5	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
LAN/VOICE/DATA Cat5 • Non-Plenum Horizontal LAN 10/100/1000BaseT Networking • Balun Infrastructure, Voice, Voice over IP cabling • Video, Audio, InfraRed, IP Control • PoE, HDBaseT, Analog and Digital Multimedia	24-4P-L5-EN-COLOUR	● ○ ● ● ● ● ● ● ● ●	100 003B, 10005USOP PAGE 43	0.2 mm² (24 AWG) 4 pair UTP third party verified category 5e cable, tested to 350 MHz
	24-4P-L5SH-EN-COLOUR	● ○ ● ● ●	111S08080016-34, 100020 PAGE 43	0.2 mm² (24 AWG) 4 pair ScTP third party verified category 5e cable, tested to 360 MHz

GRADE | **GOOD**

RoHS 2002/95/EC

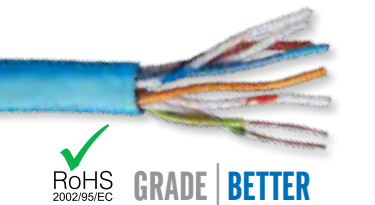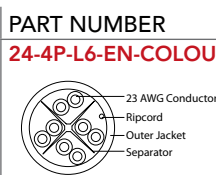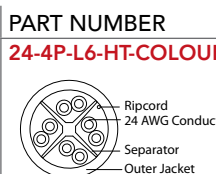| CATEGORY CABLE 5	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
LAN/VOICE/DATA Cat5 • Non-Plenum Horizontal LAN 10/100/1000BaseT Networking • Balun Infrastructure, Voice, Voice over IP cabling • Video, Audio, InfraRed, IP Control • PoE, HDBaseT, Analog and Digital Multimedia	24-4P-L5-HT-COLOUR	● ○ ● ● ●	100 003B, 10005USOP PAGE 44	0.2 mm² (24 AWG) 4 Pair UTP third party verified category 5e cable, tested to 300 MHz

CATMASTER-HD®
TERMINATION SYSTEM

ALL THE TOOLS YOU NEED FOR PERFECT TERMINATION!
SEE PAGES 44-45 FOR ORDERING INFORMATION

CATMASTER® CRIMP TOOL
100 044LW

PACKAGE OF 100 EZ-RJ45 CONNECTORS
100 003B

CATMASTER® UTP CABLE JACKET STRIPPER
15010

CATMASTER® CABLE CUTTER
(NOT SOLD SEPARATELY)

DON'T SEE EVERYTHING YOU NEED?

GO TO WWW.LIBAV.COM FOR OUR FULL LINE OF AV PRODUCTS & SOLUTIONS!

DON'T FORGET THE CAT CONNECTORS!

SPECIFICATIONS SUBJECT TO CHANGE

Liberty AV SOLUTIONS

GRADE | **BEST**

RGB CABLE

Analogue audio/video, digital audio/video, HDTV/SDI, baseband video

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
RGB5C-23-CM	●	CM-RGB23 series PAGE 42	5 x mini (0.25 mm²/23 AWG) RG59/U high definition serial digital coaxial cable

Outer Jacket / Binder / Filler / Ripcord / Coaxial Component(S)

RGB CABLE

Digital/ analogue video, line level audio, control, and data applications

Coaxial Component(6) / Ripcord / Binder / LAN Component(2) / Outer Jacket

Jacket / Ripcord / Cat5e Component (2) / Paper Tape / Binder / Coaxial Component (6)

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
RGB6C-23-2L5E GRADE | **BEST**	●	CM-RGB23 series PAGE 42 10005USOP PAGE 45	6 x solid mini (0.25 mm²/23 AWG) coaxial + 2 x Cat5e UTP
RGB6C-25-2L5E GRADE | **BETTER**	●	CM-RGB25 series, PAGE 42 10005USOP PAGE 45	6 x solid mini (0.15 mm²/25 AWG) coaxial + 2 x Cat5e UTP

GRADE | **BETTER**

RGB CABLE

RGBHV analogue video and line level audio

Ripcord / Coaxial Component(5) / Outer Jacket

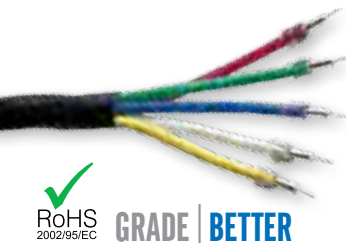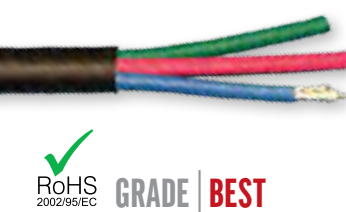| PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
RGB5C-25-CM	●	CM-RGB25S series PAGE 42	5 x solid mini (0.15 mm²/25 AWG) coaxial cable, 250 MHz bandwidth

GRADE | **BEST**

RGB CABLE

Analogue audio/video, digital audio/video, HDTV/SDI, baseband video

Outer Jacket / Binder / Ripcord / Coaxial Component / Filler

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
RGB3C-23-CM	●	CM-RGB23 series PAGE 42	3 x mini (0.25 mm²/23 AWG) RG59/U high definition serial digital coaxial cable

GRADE | **GOOD**

RGB CABLE

RGBHV analogue video and line level audio

Jacket / Ripcord / Coaxial Component(5) / Filler / Binder

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
RGB5C-PVC	●	CM-RGB26 series PAGE 42	5 x stranded mini (0.12 mm²/26 AWG) coaxial cable, 200 MHz bandwidth
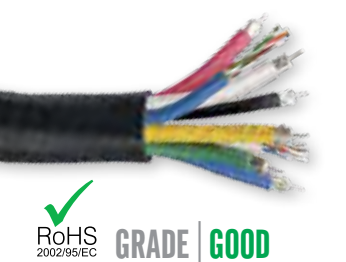
GRADE | **GOOD**

RGB CABLE

RGBHV analogue video and line level audio

Jacket / Ripcord / Coaxial Component(5) / Filler / Binder

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
RGB5-MINI-500	●	CM-RGB25 series PAGE 42	5 x stranded mini (0.15 mm²/25 AWG) coaxial cable, 450 MHz bandwidth

C-TEC² ®

TERMINATION CONNECTORS
FOR MINI RG59

SEE PAGE 42-43 FOR ORDERING INFO

SOUND CONE™ DESIGN FUSES AUDIO CONNECTOR DIRECTLY TO CABLE

- Universal Connector for Mini-RG59 Coax
- Single Piece Compression Connector
- Fits Single and Dual Shield
- Fits Plenum and Non-Plenum Cable

25 AWG STRANDED		23 AWG SOLID	
CM-RGB25-BNC	CM-RGB25-RCA	CM-RGB23-BNC	CM-RGB23-RCA

26 AWG STRANDED		25 AWG SOLID	
CM-RGB26-BNC	CM-RGB26-RCA	CM-RGB25S-BNC	CM-RGB25S-RCA

EVERYTHING YOU NEED FOR PERFECT TERMINATION!

SEE PAGE 38

C-TEC² TERMINATION SYSTEM TOOL KIT
CM-TOOL-PAC

SCAN TO SAVE DIRECT LINK

CONTROL CABLE

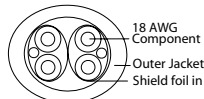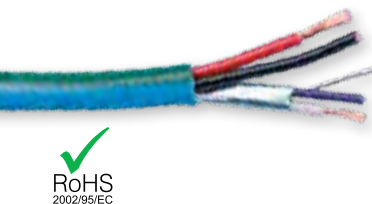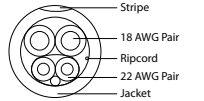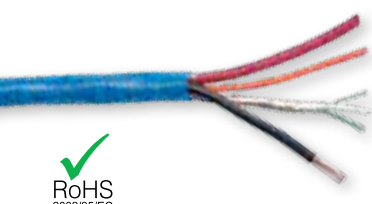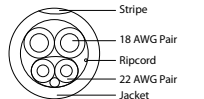| CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Paired and individually shielded wire for audio, instrumentation and control applications	18-2P-INDSH-GRY	⬤	N/A	1.0 mm² (18 AWG) stranded twisted pair 100% Aluminium/Poly shield and 0.2 mm² (24 AWG) stranded tinned copper drain wire

RoHS 2002/95/EC GRADE | GOOD

18 AWG Component
Outer Jacket
Shield foil in

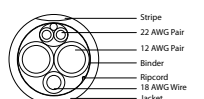| CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Control Cable for AMX	AXLINK	⬤	System Specific	Low cap. 105Ω, 0.5 mm² (22 AWG) stranded twisted shielded pair + 1.0 mm² (18 AWG) 2 core power
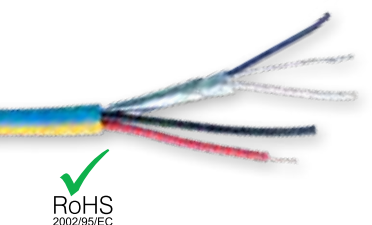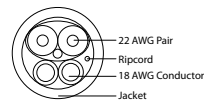
RoHS 2002/95/EC

22 AWG Pair
Ripcord
18 AWG Conductor
Jacket

CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Lutron GRAFIK Eye™ 3000, Integrale™ & HWI (Same as Lutron GRX-CBL-346S)	LUTRON-YEL	Custom printed with "LUTRON KEYPAD"	System Specific	0.5 mm² (22 AWG) stranded twisted shielded pair with 1.0 mm² (18 AWG) stranded 2 core power

RoHS 2002/95/EC

Stripe
18 AWG Pair
Ripcord
22 AWG Pair
Jacket

CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Lutron GRAFIK Eye™ 3000, Integrale™ & HWI (Same as Lutron GRX-CBL-346S)	LUTRON-GRN	Custom printed with "GRAFIK EYE"	System Specific	0.5 mm² (22 AWG) stranded twisted shielded pair with 1.0 mm² (18 AWG) stranded 2 core power

RoHS 2002/95/EC

Stripe
18 AWG Pair
Ripcord
22 AWG Pair
Jacket

CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Lutron GRAFIK™ 4000, 5000, 6000, 7000 (Same as Lutron GRX-CBL-46L)	LUTRON-RBL		System Specific	0.5 mm² (22 AWG) stranded twisted shielded pair with 1.0 mm² (18 AWG) single and 2.5 mm² (12 AWG) stranded 2 core power

RoHS 2002/95/EC

Stripe
22 AWG Pair
12 AWG Pair
Binder
Ripcord
18 AWG Wire
Jacket

CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Lutron Sivoia™ QED (Same as Lutron SVQ-CBL)	LUTRON-RED		System Specific	1.0 mm² (18 AWG) stranded shielded quad group with 1.0 mm² (18 AWG) stranded single and 1.5 mm² (16 AWG) 2 core power

RoHS 2002/95/EC

Stripe
Ripcord
16 AWG
18 AWG
Filler
Jacket
18 AWG Group
Jacket
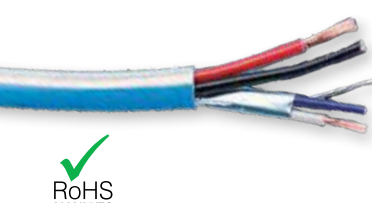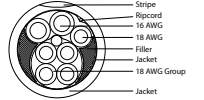
CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Lutron control cable for Quantum™ systems cable part number	LUTRON-QSC		N/A	0.5 mm² (22 AWG) stranded 1 Pair low capacitance data pair RS/232-RS285, (16 AWG) stranded Power pair, CMG/CM/CL3 rating for both US and Canadian applications

RoHS 2002/95/EC

Stripe
16 AWG Conductor
Ripcord
22 AWG Conductor
Jacket
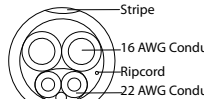
LUTRON

LUTRON IS A LEADER
In residential and commercial energy-saving lighting, dimming and shade control.

RESIDENTIAL LIGHTING & SHADE CONTROL
The urgent need for energy conservation can be seen in energy power blackouts and, most recently, price hikes across the world.

Lighting doesn't have to account for a significant part of home operating expenses with Lutron's HomeWorks® and RadioRA® 2 lighting control and shading systems. Utilising cable from Liberty AV Solutions, provides a quality, guaranteed outcome to your job.

COMMERCIAL LIGHTING & SHADE CONTROL
Lighting accounts for nearly 40 percent of energy costs in commercial buildings.

With Lutron's GRAFIK Eye®, Quantum® and EcoSystem® solutions paired with reliable, certified cable from Liberty AV Solutions, your project is guaranteed to operate effectively and efficiently every time. We can assist you in identifying the products that will help you control lighting through occupancy and/or vacancy sensing, daylight harvesting, personal or scheduled control, or load evaluations for whole building or single office applications.

CONTROL CABLE

CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Universal Control Cable	LLINX-U		System Specific	Low cap. 105Ω, 0.5 mm² (22 AWG) tw. shielded pair + 1.0 mm² (18 AWG) 2 core power
	LLINX-U-HP		System Specific	Low cap. 105Ω, 0.5 mm² (22 AWG) tw. shielded pair + 3.0 mm² (12 AWG) 2 core power (over 300W)

AUDIO CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Multi-pair audio broadcast wire featuring easy strip jacket for audio, instrumentation and control applications	22-2P-SIAM-EZ	●	Male: NC3MXX PAGE 50 Female: NC3FXX PAGE 50 3.5 mm: 30-484 PAGE 50 1/4": NP3C PAGE 50 RCA Right: ZD06-R PAGE 50 RCA Left: ZD06-W PAGE 50	2 x 0.5 mm² (22 AWG) shielded pairs each with 100% Aluminium/Poly shield and 0.5 mm² (22 AWG) tinned copper drain wire

AUDIO CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Balanced and unbalanced Audio Interconnects. Great for mic cords	24-2P-STAR-BLK	●	Male: NC3MXX PAGE 50 Female: NC3FXX PAGE 50 3.5 mm: F-12 PAGE 50 1/4": NP3C PAGE 50	4 x 0.2mm² (24 AWG) bare copper conductors specially constructed to maximise flexibility and flex life around a cotton filler core. 96% 0.008mm² (38 AWG) tinned copper braid shield

AUDIO/CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Audio Distribution & Control	AUDIOCAT+	●	CM-A-16 PAGE 46-47 10005USOP PAGE 45	1.5 mm² (16 AWG) 4 core, 105 strand OFC speaker cable, plus 0.2 mm² (24 AWG) 4 pair UTP third party verified category 5e cable, tested to 350 MHz

AUDIO CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Multi-pair shielded cable for analogue audio, instrumentation, balanced and unbalanced control applications	22-2P-SHEX-COLOUR	● ● ●	Male: NC3MXX PAGE 50 Female: NC3FXX PAGE 50 3.5 mm: 30-484 PAGE 50 1/4": NP3C PAGE 50 RCA Right: ZD06-R PAGE 50 RCA Left: ZD06-W PAGE 50	2 x 0.5 mm² (22 AWG) tw. shielded pair, each with individual drain wire. Pressure extruded PVC Jacket for uniformity and very strong pulling capability.

AUDIO/CONTROL CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Audio Distribution & Control	AUDIOCAT-SIAMESE	●	CM-A-16 PAGE 48-49 10005USOP PAGE 45	1.5 mm² (16 AWG) 4 core, 65 strand speaker cable, plus 0.2 mm² (24 AWG) 4 pair UTP third party verified category 5e cable, tested to 350 MHz

AUDIO CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Balanced or unbalanced audio applications, IR and RS-232 control	22-2P-INDSH-GRY	●	Male: NC3MXX PAGE 50 Female: NC3FXX PAGE 50 3.5 mm: 30-484 PAGE 50 1/4": NP3C PAGE 50 RCA Right: ZD06-R PAGE 50 RCA Left: ZD06-W PAGE 50	2 x 0.5 mm² (22 AWG) shielded pairs each with 100% Aluminium/Poly shield and 0.2 mm² (24 AWG) tinned copper drain wire

Grade indicators (left margin):
- RoHS 2002/95/EC — GRADE | BEST
- RoHS 2002/95/EC — GRADE | BEST
- RoHS 2002/95/EC — GRADE | BEST
- RoHS 2002/95/EC — GRADE | BETTER
- RoHS 2002/95/EC — GRADE | BETTER
- RoHS 2002/95/EC — GRADE | GOOD
- RoHS 2002/95/EC — GRADE | GOOD

GRADE | **BEST**

SECURITY CABLE

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
RG59 baseband video, pan-tilt-zoom CCTV security camera's. NOT recommended for cable television or SMPTE digital applications. **RG59CM-18-2C**	●	CM-RG59M series PAGE 39	Standard RG59 baseband video coaxial cable siamesed with a 1.0 mm² (18 AWG) 2 conductor power cable

Filler, Webbing, 18 AWG pair, Copper braid, Center conductor, Outer Jacket

GRADE | **BETTER**

SECURITY CABLE

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Instrumentation, Security, Audio, and Control **22-2C-SH-GRY**	●	Balanced: Male: NC3MXX PAGE 50 Female: NC3FXX PAGE 50 Unbalanced: ZD06-Colour PAGE 50	2 x 0.5 mm² (22 AWG), bare copper, Stranded, 100% Aluminium/Poly shield with the foil side facing out and 0.2 mm² (24 AWG) tinned copper drain wire

Jacket, Ripcord, Drain, Shield, Foil out, Conductor
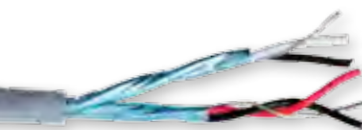
GRADE | **GOOD**

SECURITY CABLE
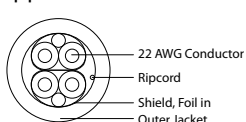
PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Balanced or unbalanced audio applications, IR and RS-232 control **22-2P-INDSH-GRY**	●	Male: NC3MXX PAGE 50 Female: NC3FXX PAGE 50 3.5 mm: 30-484 PAGE 50 1/4": NP3C PAGE 50 RCA Right: ZD06-R PAGE 50 RCA Left: ZD06-W PAGE 50	22 GAUGE 2 PAIR AUDIO & CONTROL CABLE 2 x 0.5 mm² (22 AWG) shielded pairs each with 100% Aluminium/Poly shield and 0.2 mm² (24 AWG) tinned copper drain wire

22 AWG Conductor, Ripcord, Shield, Foil in, Outer Jacket

GRADE | **BEST**

COAX CABLE

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Multipurpose/Rack Interconnection **IF-SD-COLOUR-100M**	● ● ○ ● ●	CM-RG59M series PAGE 39	0.5 mm² (20 AWG) RG59/U high definition serial digital coaxial cable
INTERFLEX-SD-COLOUR	● ● ○ ● ● ●	CM-RG59M series PAGE 39	0.5 mm² (20 AWG) RG59/U high definition serial digital coaxial cable

Braid Shield, Foil Shield, Center Conductor, Dielectric, Outer Jacket

GRADE | **BEST**

COAX CABLE

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Broadband video applications. Does NOT support DBS LNB power requirements. **RG6-CM-COLOUR**	● ○	CM-RG6L PAGE 39	RG6 Dual Shield Coaxial with a 1.0 mm² (18 AWG) copper-clad steel center conductor. Swept to 3.0 GHz

Braid Shield, Foil Shield, Center Conductor, Dielectric, Outer Jacket

GRADE | **BETTER**

COAX CABLE
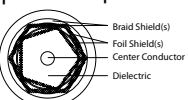
PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Broadband video applications. Does NOT support DBS LNB power requirements. **QUADFLEX-COLOUR**	○	CM-RG6L PAGE 39	RG6 Quad Shield Coaxial with a 1.0 mm² (18 AWG) copper-clad steel center conductor. Swept to 3.0 GHz. NOT recommended for baseband video, audio, or SMPTE applications

Braid Shield(s), Foil Shield(s), Center Conductor, Dielectric, Outer Jacket

GRADE | **GOOD**

COAX CABLE

PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Unbalanced Digital or Analogue Audio/Video & SMPTE video **23-MINI-SD-COLOUR**	● ● ○ ● ● ● ●	CM-RGB23 PAGE 42	0.25 mm² (23 AWG), mini RG59/U, high definition, serial digital coaxial cable
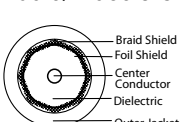
Braid Shield, Foil Shield, Center Conductor, Dielectric, Outer Jacket

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BULK CABLE

C-TEC² ®

TERMINATION SYSTEM
RG59, RG6, RG11, AND AUDIO CONNECTORS

SEE PAGE 38-39 FOR ORDERING INFO

VERSATILE FERRULE-LESS DESIGN!

- Ferrule-less design allows one connector to fit virtually any cable construction from any manufacturer.
- Simple termination
- Significantly reduces the number of connectors needed for most installs
- All metal connectors

CM-RG59M SERIES
- Yellow colour band
- Fits solid conductor plenum and non-plenum cable
- Single thru Tri-Shield

CM-RG6L SERIES
- Orange colour band
- 18 AWG Quad Shield PVC
- Fits 18 AWG Single Braid PVC thru

CM-RG6M SERIES
- Purple colour band
- Single thru Quad Shield
- Fits RG6 solid conductor plenum cable
- Fits all PVC types to Tri-shield

EVERYTHING YOU NEED FOR PERFECT TERMINATION!

C-TEC² TERMINATION SYSTEM KIT
CM-TOOL-PAC
- Compression Tool
- 25/26 AWG Stripper (stranded)
- 23/25 AWG Stripper (solid)
- RG59/6 Stripper
- Cable Cutter & Holster

RoHS
2002/95/EC
GRADE | BEST

RoHS
2002/95/EC
GRADE | BETTER

RoHS
2002/95/EC
GRADE | GOOD

RoHS
2002/95/EC
GRADE | GOOD

STRUCTURED CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Structured Home	CEBUS-CM-F-J	●	CM-RG6L series PAGE 39 100 003B PAGE 45 10005USOP PAGE 45	2 x category 3 GHz RG6 Quad coaxial cables, two category 5 enhanced UTP cable and 2 Multi Mode 62.5 μm

Fiber Component
RG6QS Component(2)
Outer Jacket
Ripcord
Cat5e Component(2)

STRUCTURED CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Structured Home	CEBUS-2N2-J-LBL	●	CM-RG6L series PAGE 39 10005USOP PAGE 45	2 x category 3 GHz RG6 Quad coaxial cables, two category 5 enhanced UTP cable

Outer Jacket
CatSE UTP Component
RG6/U BC Quad Component
Ripcord

STRUCTURED CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Structured Home	AUDIOCAT-HT	●	CM-A-16 PAGE 48-49 10005USOP PAGE 45	1.5 mm² (16 AWG) 4 core, 65 strand speaker cable, plus 0.2 mm² (24 AWG) 4 pair UTP third party verified category 5e cable, tested to 350 MHz

16AWG Component
Jacket
CAT5
Binder
Ripcord
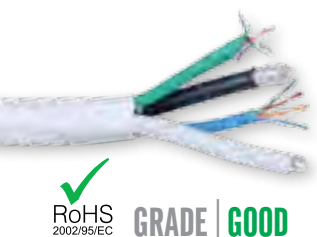
STRUCTURED CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Structured Home	CEBUS-HT	○	CM-RG6L series PAGE 39 10005USOP PAGE 45	2 x category 3 GHz RG6 dual coaxial cables, and two category 5 enhanced UTP Cable

Cat5e Component(2)
RG6 Component(2)
Ripcord
Outer Jacket

DIGITAL EZ-LINX DVI CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Routing DVI through small conduit / holes, European 20mm moulding for closed walls, DVI umbilical from plate to projector for non-plenum	EZ-DVI	Black with maroon moulding	N/A	19-PIN DIN Male connector to DVI Single Link Male OD .630-inch / 16mm on DIN Moulding Small OD cable, flexible DVI Single Link - PC Resolution depending on distance 720p/1080i/1080p24 resolutions Lengths: .5m, 6m, 8m, 10m, 12m, 15m, 20m

HIGHLIGHT PRODUCT

DIGITAL EZ-LINX HDMI CABLE	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Routing HDMI through small conduit / holes, European 20mm moulding for closed walls, HDMI umbilical from plate to projector for non-plenum	EZ-HDM	Black with black moulding	N/A	19-PIN DIN Male connector to HDMI "A" Male Connector OD .630-inch / 16mm on DIN Moulding Small OD cable, flexible HDMI Standard Speed with Ethernet 720p/1080i/1080p24 resolutions Lengths: .5m, 6m, 8m, 10m, 12m, 15m, 20m

HIGHLIGHT PRODUCT

DIGITAL EZ-LINX CABLES

NEW
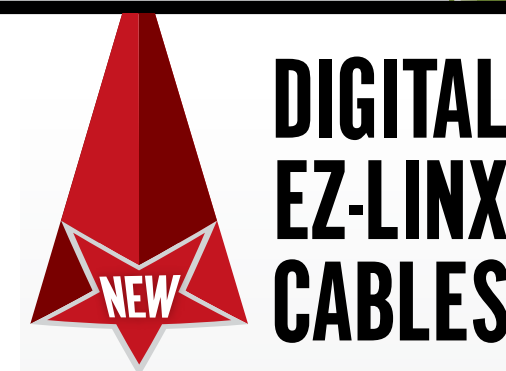
SEND DIGITAL MEDIA SIGNALS OVER LONG DISTANCES

Liberty AV Solutions introduces a high quality low profile Digital Modular interconnection system. Our Digital EZ-LINX line of HDMI and DVI cables offers a low profile connector for pulling through small conduit and openings. This low profile connection offers very low loss, enhancing the ability of the product to send digital media signals over long distances.

- HDMI Standard Speed with Ethernet / single Link DVI
- Panel mount female HDMI receptacle on a 15cm lead
- Liberty internal testing to 1080p60 @ 20m 4.85 Gbps data rate
- Supports Audio Return Channel (ARC)
- 19-pin DIN connection, 0.081 mm² (28 AWG) construction
- ½ metre HDMI and DVI attachments.
- Pulling cap available
- Flexible small diameter cable

THE LIBERTY EDGE
CUSTOM KITTING

- Custom filled for your install
- Saves time and money
- Fast, convenient and efficient
- Everything you need delivered with special instructions if requested
- One kit per room makes staging your install quick and easy

STREAMLINE YOUR INSTALLS WITH CUSTOM KITTING!

MINI HIGH RES CRIMP - BNC	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
75-Ohm BNC plug for mini high resolution coaxial cables	MHR-BNC	Available boot colours: (BMHR-Colour)	BNC Male Plug, 4 piece format with dielectric stiffener	75-Ohm BNC plug for mini high-res coaxial cables with 0.13 mm^2 (26 AWG) stranded or 0.16 mm^2 (25 AWG) solid conductors, fits both plenum and non-plenum cable, In-wall rated CL2 and FT4

RoHS 2002/95/EC — GRADE | BEST

MINI HIGH RES CRIMP - BNC	PART NUMBER	COLOURS	CONNECTOR(S)	SPECIFICATION
Video formats: RGBHV, Y,Pb,Pr, S-Video, Composite Video / Audio: Analogue Audio and S/PDIF Digital Audio / Control: IR trigger	MHR-RCA	Available boot colours: (BMHR-Colour)	RCA Male Plug, 4 piece format with dielectric stiffener	75-Ohm RCA plug for mini high-res coaxial cables with 0.13 mm^2 (26 AWG) stranded or 0.16 mm^2 (25 AWG) solid conductors, fits both plenum and non-plenum cable, 100 MHz rating

RoHS 2002/95/EC — GRADE | BEST

MOULDED VGA CABLE	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
HD15 Male to HD15 Male	E-VGAM-M-XX	●	1ft. (.3m) / 2ft. (.6m), / 4ft. (1.2m) / 6ft. (2m), / 8ft. (2.5m) / 10ft. (3m)	• Moulded HD15 hoods with thumbscrews • Compliant with ID bit/ communication requirements • CL2/CMG FT4 rated

RoHS 2002/95/EC — GRADE | BEST

MOULDED DVI-D SINGLE LINK	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Video Wall, Computer Monitor, HDTV, In-wall DVI-D Video Routing	E-DVIDSL-XX	●	3ft. (1m) / 6 ft. (2m) / 13ft. (4m) / 20ft. (6m) / 26 ft. (8m) / 33 ft. (10m)	• DVI 1.0 Single Link Digital Connectivity (19-pin) • 28 AWG TMDS Pair Construction • Triple Shielded Cable Construction • EMI Reduction ferrite Beads both ends • NEC CL2 and CEC FT4 for In-wall use, RoHS Compliant • DVI 1.0 5.0 Gbps / 1900x1200 WUXGA / 1080p60

RoHS 2002/95/EC — GRADE | BEST

VGA	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Mini high resolution VGA interconnect for analogue video	E-MVGAM-M-XX	●	3ft. (1m) / 6 ft. (2m) / 12ft. (3.5m) / 25ft. (7.5m)	5 x 0.032 mm^2 (32 AWG) shielded, tinned copper and 11 x 0.025 mm^2 (30 AWG) unshielded, tinned copper, with a 100% teflon tape binder with a 95% tinned copper braid shield

RoHS 2002/95/EC — GRADE | BETTER

VGA +3.5 AWM	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Mini high resolution VGA and audio interconnect for analogue video and line level audio	E-MVGAMAM-M-XX	●	3ft. (1m) / 6 ft. (2m) / 12ft. (3.5m) / 25ft. (7.5m)	6 x 0.129 mm^2 (26AWG) coaxial cable, tinned copper and 2 x 0.5 mm^2 (22AWG) twisted pairs, tinned copper

RoHS 2002/95/EC — GRADE | BETTER
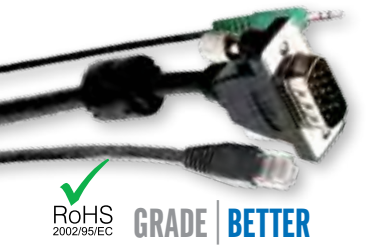
VGA+3.5+LAN AWM	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Mini high resolution VGA, audio and LAN interconnect for analogue video, line level audio and LAN	E-MVGAANM-M-XX	●	3ft. (1m) / 6 ft. (2m) / 12ft. (3.5m) / 25ft. (7.5m)	6 x 0.129 mm^2 (26AWG) coaxial cable, tinned copper and 2 x 0.5 mm^2 (22AWG) twisted pairs, tinned copper and 0.2 mm^2 (24 AWG) 4 pair UTP

RoHS 2002/95/EC — GRADE | BETTER

Liberty
AV SOLUTIONS

HIGHLIGHT PRODUCT

COMPLETED HD TERMINATION ASSEMBLY

RoHS 2002/95/EC GRADE | **BEST**

RoHS 2002/95/EC GRADE | **BEST**

RoHS 2002/95/EC GRADE | **BEST**

RoHS 2002/95/EC GRADE | **BEST**

RoHS 2002/95/EC GRADE | **BETTER**

RoHS 2002/95/EC GRADE | **GOOD**

HD TERMINATION SYSTEM	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
HD Termination System Audio Return Channel (ARC) 4Kx2K Video, 3D, All Audio, CEC Ethernet, Deep Color™ Performance depends on length 3D COMPATIBLE	DL-HDMCBL-250 DL-HDMCBL-500 DL-HDMCPK DL-HDMHT DL-HDMEXT SEE SIDEBAR FOR PRODUCT DESCRIPTIONS	Black with black snap-on shell	Customisable 9m maximum 15m with extender	• HDMI® High Speed with Ethernet • 0-5m, full HDMI® Spectrum Video, Audio, ARC, CEC, 3D • Over 5M and up to 9M 1080p24 Video, all Audio • With optional Extender 1080p24 to 15m • Great for rack dressing, small spaces, and exact lengths • UL Listed cable for safety, AWM 20276

HDMI	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Plenum Rated HDMI Cables Audio Return Channel (ARC) 4Kx2K Video, 3D, All Audio, CEC Ethernet, Deep Color™ Performance depends on length 3D COMPATIBLE	P-HDM-M	Black with Black Moulding	3m, 5m, 6m, 8m, 10m, 12m, 15m, 18m 20m, 23m, 25m, 30m	• 1-8m, HDMI® High Speed with Ethernet • 10-12m, HDMI® Standard with Ethernet • 1-12m ATC Certified, 15m-30m Non-ATC Certified • Up to 8m 10.2 Gbps, 4Kx2K, 3D, Deep Color™, ARC, CEC, Ethernet • Over 8m 6.75 Gbps, 1080p, 3D, Deep Color™ • 15-30m are directional Cables with TX and RX ends UL Listed cable for safety • CMP Plenum rated

HDMI	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Top of the Line HDMI Cables Audio Return Channel (ARC) 4Kx2K Video, 3D, All Audio, CEC Ethernet, Deep Color™ 3D COMPATIBLE	E-HDSEM-M	Black with Maroon Moulding	0.5m, 1m, 1.5m, 2m, 3m, 4m, 5m, 6m, 8m 10m, 12m, 15m, 20m	• HDMI® High Speed with Ethernet • 0-12m are non-directional cables • All lengths ATC Certified • 15-20m are directional Cables with TX and RX ends • 10.2 Gbps, 4Kx2K, 3D, Deep Color™, ARC, CEC, Ethernet • UL Listed cable for safety, CL2, CMG FT4

HDMI	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Home Theater HDMI Cables 4Kx2K Video, 3D, All Audio, CEC Deep Color™ 3D COMPATIBLE	DLX-HDSM-XM	Black mesh with metal shelled hoods	1m, 2m, 3m	• HDMI® High Speed • ATC Certified • 10.2 Gbps, 4Kx2K, 3D, Deep Color™, CEC

HDMI	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Better HDMI Cables 4Kx2K Video, 3D, All Audio, CEC Deep Color™ 3D COMPATIBLE	E-HDSM-M-XX	Black with Grey Moulding	1m, 1.5m, 2m, 3m 4m, 5m, 6m, 8m, 10m	HDMI® High Speed 10.2 Gbps, 4Kx2K, 3D, Deep Color™, CEC ATC Certified UL Listed for in-wall Cable Applications, CL2, FT4

HDMI	PART NUMBER	COLOURS	LENGTHS	SPECIFICATION
Economy HDMI Cables Audio Return Channel (ARC) 1080p24 Video, All Audio, CEC Ethernet, Deep Color™ 3D COMPATIBLE	E-HDM-M-XX	Black with Black Moulding	1m, 1.5m, 2m, 3m 4m, 5m, 6m, 8m, 10m 12m, 15m, 20m, 25m 30m, 35m	HDMI® Standard with Ethernet 2.25 Gbps, 1080p, Deep Color™, ARC, CEC, Ethernet ATC Certified UL Listed for in-wall Cable Applications, CL2, FT4 Extender recommended for lengths 20m and up

HD TERMINATION SYSTEM

PERFECT FOR CREATING CUSTOM LENGTHS!

• Locking HD connector technology increases retention up to 400%

• Supports HDMI with Ethernet, CEC and bi-directional Audio formats

RIBBON CABLE
250 ft length (76m)
DL-HDMCBL-250

500 ft length (152m)
DL-HDMCBL-500

CRIMP TOOL
For Liberty's HD ribbon cable and connectors
DL-HDMHT

CONNECTORS AND SHELLS
Pack of 10
DL-HDMCPK

OPTIONAL EXTENDER
Send 1080p video up to 30ft (98m) (typical) -
Up to 55ft (180m)
DL-HDMEXT

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DIGITAL SOLUTIONS

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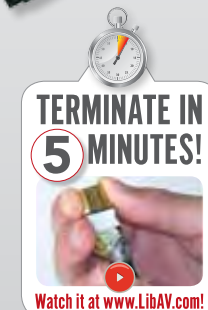
TERMINATE IN 5 MINUTES!
Watch it at www.LibAV.com!

SCAN TO SAVE A LINK

SPECIFICATIONS SUBJECT TO CHANGE

THE LIBERTY EDGE
WE HAVE YOUR BACK!

GREAT SERVICES TO GIVE YOUR COMPANY THE COMPETITIVE EDGE!

EDGE:
PRONUNCIATION: \'EJ\
AN IMPROVED POSITION;
ADVANTAGE:
HE GAINED THE EDGE
ON HIS OPPONENT.

THE LIBERTY EDGE | GREAT SERVICES DESIGNED TO IMPROVE YOUR PROFITABILITY!

SMART SITE

The EDGE Online: 24/7
- In-depth keyword Smart Search
- Quick ordering, quoting & tracking
- Product suggestions
- Enhanced for internet smart devices

Rack Configurator
Use our free online Rack Configurator tool to build your own customised rack and see it in 3D before you buy.

Cool Spool System
Our exclusive time-saving packaging system allows for easy stacking, transport, and pulling of multiple cables at one time.

Off Site Staging
Reduce your multiple shipments to a single manageable delivery. Save time and money for your company!

Q&A

Technical Services
From validating cable rating requirements to selecting the right product for your application, Liberty is here to help!

Custom Kitting
Streamline your installs with a pre-packaged kit, custom made to provide everything your installer needs to get the job done fast and efficiently.

Cable Bundling & Printing
A smart way to make multiple cable runs with one pre-bundled spool. Print your cable for easy install, plus your customers know who to call for their next project.

WebBlox 3
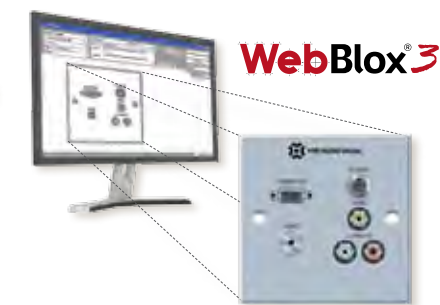
Customised Plate Design
Design & Quoting Software Tools - go from concept to a completed plate design in a matter of minutes!

PANEL CRAFTERS

Liberty Inventory Services
Free consignment program that places your own personal Liberty warehouse at your site. Pay only as inventory is used. Our LIS team is here to help! *Select countries only.

FINALIST

Revolutionise your audio-visual installations with Intelix. Ideal for residential, retail, restaurant, bars, multimedia presentation and houses of worship.

Running HDMI to and from several sources over long distances can be tough. With our HDMI cables, switching and scaling products we make this process extremely simple, predictable & reliable.

To make your installs go smoothly and make more profit per install, choose Liberty AV Solutions, where our dedication to digital gives you the edge you need!

SATELLITE RECEIVER

CABLE BOX

BLU-RAY

COMPOSITE: SECURITY CAMERA

COMPONENT: DVD

COMPONENT: SET-TOP BOX

VGA: COMPUTER

S-VIDEO: VCR

HDMI

PAGES 20-21

PAGE 29 — DIGI-HD-11X2

PAGE 26 — DIGI-HD-8X8

HDMI

COMPUTER

PAGES 6-7

CAT

PAGE 30 — DIGI-HD-UHR2-R

TV

HDMI

CAT

DIGI-HD-UHR2-R

PAGES 6-7

CAT

HDMI

PROJECTOR

TV

HDMI

HDMI

HDMI

PROJECTOR

SECURITY MONITOR

THE ANALOGUE SUNSET & DIGITAL SUNRISE

The majority of new video technology developments in the display devices, video sources, high resolution and 3D formats are digital in nature. Since June 12 of 2009 United States television stations have been broadcasting exclusively in a digital format.

Digital connections such as HDMI, DVI and DisplayPort are becoming standard on almost all video devices.

The analogue sunset is also a part of the Advanced Access Content System, or AACS license agreement.

Players manufactured after 2010 may only have standard definition analogue video outputs, and models manufactured after 2013 may not have any analogue video outputs, when the content is protected by AACS.

It is important for the A/V professional to understand this regulatory term and to know which video devices are legally required to be restricted by the analogue sunset and which are not. Liberty offers a wide range of digital solutions that will bring your company into the digital age.

"Liberty helped me move my business from analogue to digital, and they also improved my profitability at the same time!"

Intelix HDshāk® processing guarantees HDMI signal distribution. Our products provide a reliable solution.

HDshāk® eliminates many of the challenges contractors face when designing and installing high-definition systems, including limited keys in source equipment, HDMI transmission distances, and limited bandwidth concerns. HDshāk® technology delivers the highest level of EDID negotiation, ensuring proper source & destination handshaking over twisted pair every time.

HDshāk®

DVD 1080p   SATELLITE 720p

1080p   Intelix HDMI Matrix   720p

1080p   1080p   4:3 RATIO   720p   1920x1200 60 Hz

1080p   1080p   1080p   720p   1920x1200 60 Hz
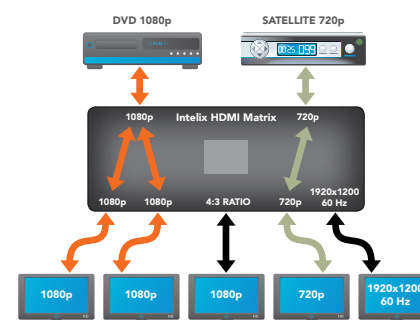
Avoids unnecessary signal interruptions and ensures every destination can view every source no matter what resolution.

Smart Negotiation
The chain is only as strong as its weakest link, but that doesn't mean the link has to break the chain. Each channel within Intelix switchers is discreet, and switching one source won't affect destinations viewing a different source.

DVD 1080p   SATELLITE 720p

DISPLAY EDID   Intelix HDMI Matrix   DISPLAY EDID

Display EDID

DISPLAY EDID   4:3 RATIO   DISPLAY EDID   DISPLAY EDID

Panasonic 1080p   Toshiba 1080p   Sanyo 4:3 Ratio   LG 720p   Viewsonic 720p
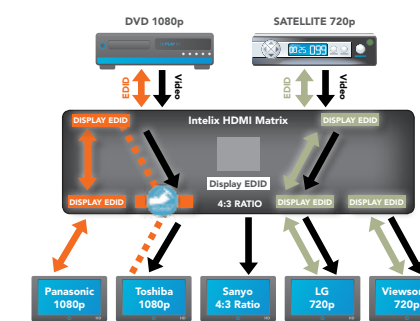
Increases matrix switch speeds and ensures brilliant video quality.

EDID Storing
HDMI destination devices transmit their display properties—known as EDID—to source. This ensures both sources and destinations cooperate on aspect ratios, resolutions, and refresh rates. So what happens if there is a corrupted or incompatible EDID signal—a common problem when switching, splitting, or extending HDMI? HDshāk® processing stores and consolidates destination EDID at every matrix input. This not only reduces the incidence for error and guarantees a proper hand shake, but it also greatly increases matrix switching speeds. Plus, HDshāk® technology includes pre-stored EDID with the most common display settings, ensuring installers have one more trick up their sleeves.
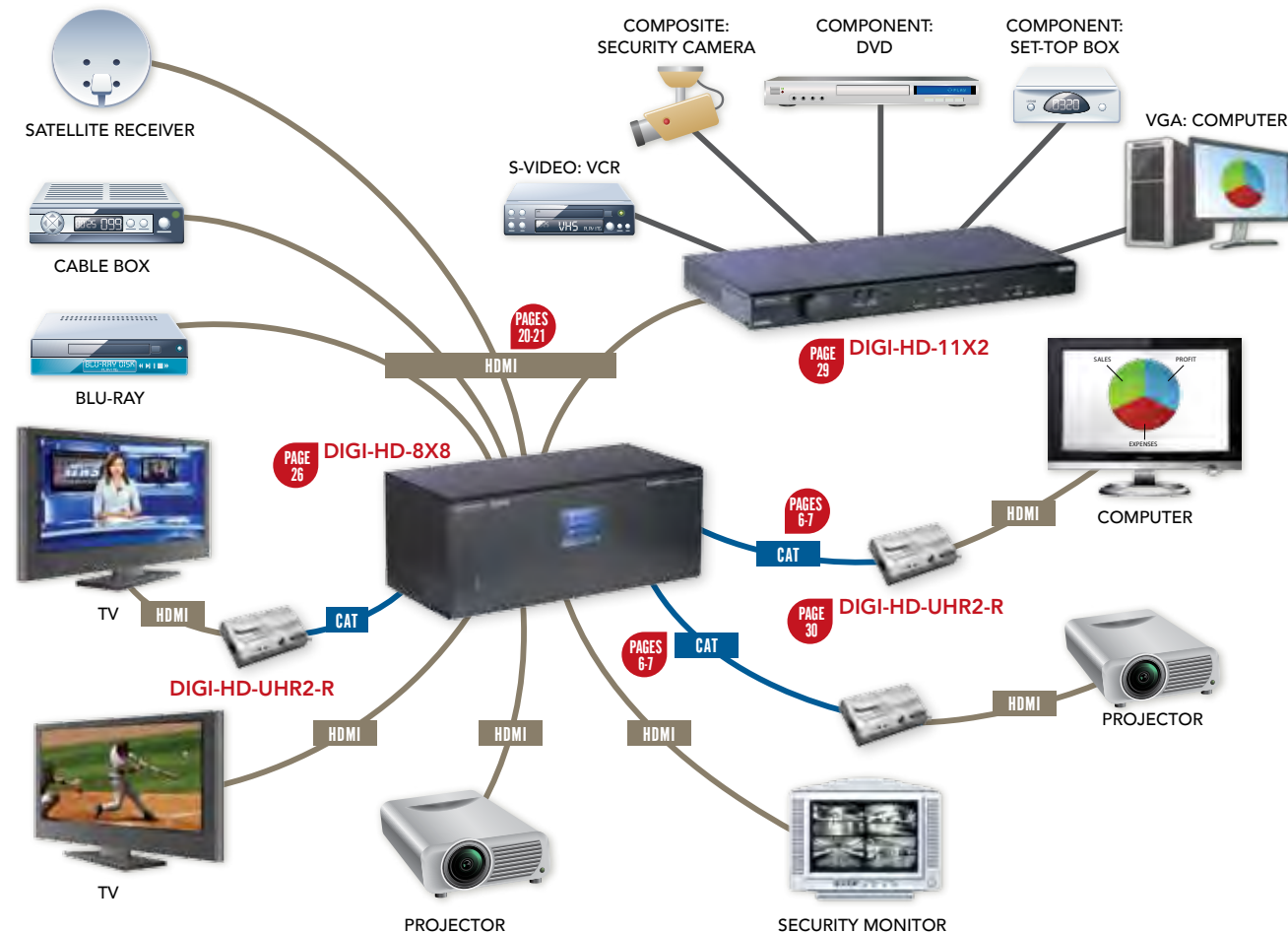
Fully Loaded HDMI Signal (340 MHz)

WITHOUT HDshāk®   HD Audio / Deep Colour / HDCP / 3D

Fully Loaded HDMI Signal (340 MHz)

WITH   HD Audio / Deep Colour / Necessary HDMI Elements   Twisted Pair (100 MHz)
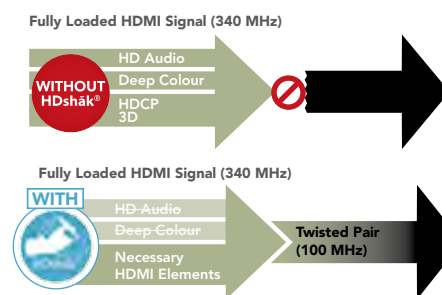
Increases twisted pair cable make & grade compatibility, and guarantees required high-performance HDMI features are delivered.

Bandwidth Limiting
Twisted pair cable simply cannot match HDMI cable's bandwidth carrying capabilities. So how do you push a high-bandwidth signal down a restricted cable? HDshāk® processing allows the installer to select which HDMI elements are transmitted over the twisted pair cabling, effectively allowing customisation of the signal based on the installation's requirements.

DVD 1080p   SATELLITE 720p

Intelix HDMI Matrix

1080p   1080p   1080p   720p   1920p 1200 60 Hz
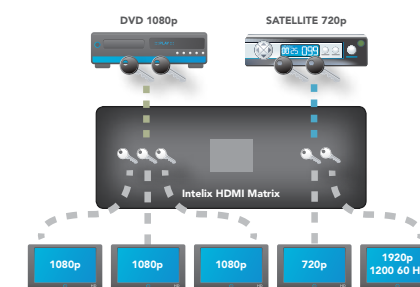
Dynamic key processing allows devices with limited keys to be transmitted to numerous destinations

Dynamic Key Processing
To ensure the highest quality native audio/video signal and to prevent unauthorised signal copying, HDMI devices contain signal encryption known as keys—and each device has a limited number. So what happens when a source doesn't have enough keys to talk to all of the required destinations? Intelix switchers employ independent key negotiation on the inputs and outputs of the matrix, thereby allowing limited key source devices to talk to numerous destination devices. Intelix switchers accept incoming audio, video and keys from source devices, process and store the source keys, and then create a new key with the audio and video for each output destination.

The Intelix DIGI-HD-8X8 combines a professional-grade HDMI matrix with Intelix's industry-leading extenders

Each system provides eight HDMI inputs, eight HDMI outputs, and eight twisted pair outputs. A built-in touch screen delivers front panel source selection and matrix routing with ease. Includes eight pass-through IR channels which distribute remote IR commands from in-room controllers, through compatible Intelix twisted pair extenders, up to 45m (150 feet) over twisted pair cable, and out of the matrix, allowing complete control of remote sources from the destination.

APPLICATION:
- Whole house HDMI distribution
- Digital signage
- Sports bars
- Houses of Worship
- Public speaking

3D COMPATIBLE

HIGHLIGHT PRODUCT

DIGITAL 8X8 HDMI MATRIX SWITCHER
DIGI-HD- DIGI-HD-8X8-*

FEATURES & BENEFITS:
- 8 HDMI inputs, 8 HDMI outputs
- 8 twisted pair balun outputs
- 1080p and 1080i compatible
- Rack mountable
- HDMI 1.3 & HDCP compliant
- Front panel, ethernet, RS232 & IR control
- Built-in IR switching
- Built-in front panel touchscreen

intelix

✓ RoHS

SVI TRADE WINNER 2010

DON'T FORGET THE HDMI CABLES!

SEE PAGES 20-21

- STANDARD SPEED
- HIGH SPEED
- PLENUM
- HD TERMINATION SYSTEM

SOLUTION : MULTIMEDIA DISTRIBUTION

SOURCE

TRIPP LITE PURE SINE WAVE UPS/SURGE SUPPRESSOR
HTR15-2U

DOCUMENT READER

CAMERA

LIBERTY MOULDED DVI CABLE
E-DVIDSL
PAGES 18-19

LIBERTY COMPOSITE VIDEO CABLE
E-RCAM-M

LIBERTY MOULDED VGA CABLE
E-VGAM-M
PAGES 18-19

COMPUTER

INSTALLER'S CHOICE SNAPRAX 21RU
SR21

SOURCE DEVICES TO POPULATE RACK

PERFECT FOR:
- SPLITTING, SWITCHING, CONVERTING, OR EXTENDING SIGNALS
- SMALL, MEDIUM & LARGE FACILITIES

PAGES 20-21
LIBERTY HD TERMINATION SYSTEM CABLE
DL-HDMCPK (MOULDED OPTIONS AVAILABLE)

PAGE 29
INTELIX 11X2 SCALER/SWITCHER
DIGI-SCAL-11X2

VGA INPUT | IN | YPbPr INPUTS | DVI-I INPUT | HDMI IN | HDMI OUT | RS232
S VIDEO | Y Pb Pr | HDMI IN | POWER
L R | L R | L R

COMPOSITE INPUTS | DIGITAL AUDIO INPUT | ANALOGUE AUDIO INPUT | ANALOGUE AUDIO OUTPUT | DIGITAL AUDIO OUTPUT

DISPLAY

PAGES 20-21
LIBERTY HD TERMINATION SYSTEM CABLE
DL-HDMCPK (MOULDED OPTIONS AVAILABLE)

LIBERTY HD TERMINATION SYSTEM CABLE
DL-HDMCPK (MOULDED OPTIONS AVAILABLE)

INTELIX 8X8 HDMI MATRIX SWITCH
DIGI-HD-8X8
PAGE 26

BLU-RAY

INPUTS
HDMI HDMI HDMI HDMI | HDMI HDMI HDMI HDMI
OUTPUTS
HDMI HDMI HDMI HDMI | HDMI HDMI HDMI HDMI
TWISTED PAIR ... | POWER INPUT 120V | ETHERNET RS232

TV/MONITOR
DL-HDMCPK
LIBERTY HD TERMINATION SYSTEM CABLE
(MOULDED OPTIONS AVAILABLE)

SMART DEVICE

LIBERTY HD TERMINATION SYSTEM CABLE
DL-HDMCPK (MOULDED OPTIONS AVAILABLE)

LIBERTY PLENUM CATEGORY 6A SHIELDED WIRE
24-4P-L6ASH
PAGE 6-7

INTELIX CAT HDMI RECEIVER
DIGI-HD-UHR2-R
PAGE 30

LIBERTY PLENUM CATEGORY 6A SHIELDED WIRE
24-4P-L6ASH

SVDC HDMI | SVDC HDMI

LIBERTY TERMINABLE HDMI CABLE
DL-HDMCPK
(MOULDED OPTIONS AVAILABLE)

PROJECTOR | PROJECTOR

TV/MONITOR
DL-HDMCPK
LIBERTY HD TERMINATION SYSTEM CABLE
(MOULDED OPTIONS AVAILABLE)
PAGES 20-21

26 INTELIX DIGITAL SOLUTIONS | +1.719.388.7542 | www.LibAV.com | LIBERTY AV SOLUTIONS SPECIFICATIONS SUBJECT TO CHANGE

LIBERTY AV SOLUTIONS | www.LibAV.com | +1.719.388.7542 | INTELIX DIGITAL SOLUTIONS **27**

Liberty AV SOLUTIONS **intelix** BY LIBERTY AV SOLUTIONS

intelix BY LIBERTY AV SOLUTIONS

1X8 HIGH-DEFINITION HDMI TWISTED PAIR DISTRIBUTION AMPLIFIER
DIGI-HD-1X8

FEATURES & BENEFITS:

- Built-in twisted pair extenders provide cabling distances up to 90m (300 ft) when used with compatible Intelix twisted pair receivers, such as the DIGI-HD-UHR2, DIGI-HD-IR2, and DIGI-HD-XR
- Custom EDID configuration and emulation
- HDCP compliant

APPLICATION:

- Seamlessly distributes one HDMI input to one HDMI output and seven extended outputs
- Compatible with single or dual UTP extenders

RoHS AU EU UK

HIGH-DEFINITION HDMI TWISTED PAIR DISTRIBUTION AMPLIFIER
DIGI-HD-1X8 (1-INPUTS X 8-OUTPUTS)
DIGI-HD-1X4 (1-INPUTS X 4-OUTPUTS)

FEATURES & BENEFITS:

- Built-in twisted pair extenders provide cabling distances up to 90m (300 ft) when used with compatible Intelix twisted pair receivers, such as the DIGI-HD-UHR2, DIGI-HD-IR2, and DIGI-HD-XR
- Custom EDID configuration and emulation
- HDCP compliant
- Wideband IR Support

APPLICATION:

- Distribute one HDMI input to four locations over twisted pair cable
- Compatible with single or dual UTP extenders

RoHS AU EU UK

4X2 HDMI AND TWISTED PAIR MATRIX
DIGI-HD-4X2

FEATURES & BENEFITS:

- 4 HDMI inputs
- 2 HDMI outputs & 2 twisted pair outputs
- HDMI 1.3 & HDCP compliant
- Front panel, ethernet, RS232, & IR control
- Built-in IR switching

APPLICATION:

- Compatible with single or dual UTP receivers
- Whole house HDMI distribution
- Digital signage
- Sports bars
- Houses of Worship
- Public speaking

RoHS AU EU UK

HDMI 4X8 TWISTED PAIR MATRIX SWITCHER
DIGI-HD-4X8

FEATURES & BENEFITS:

- 4-Inputs x 8-Outputs
- 1080p
- Built-in IR Switching
- Parallel HDMI and Dual Twisted Pair or single outputs
- Wideband IR Support
- Control with IR, RS232, or ethernet

APPLICATION:

- Distributed HDMI for whole house
- Digital Signage

RoHS AU EU UK

Integrate multiple analogue and digital devices into a single, comprehensive high-definition environment

The DIGI-SCAL-11X2 features the processing of three different devices—switching, scaling, and format conversion—in a single, 1RU chassis. It provides switching between eleven different audio-visual sources, scales the sources up to 720p or 1080p, and converts the signals to HDMI for seamless integration into your HD environment. The DIGI-SCAL-11X2 makes your old equipment look good and your new technology state-of-the-art.

APPLICATION:

- Convert analogue to digital
- Bring legacy audio and video sources to High Definition HDMI
- Whole house HDMI distribution
- Digital Signage
- Sports bars

intelix

FRONT

BACK

RoHS AU EU UK

11X2 SWITCHER, MULTI VID-HDMI
DIGI-SCAL-11X2-*

FEATURES & BENEFITS:

- Switch between 11 different AV inputs
- 2 HDMI, 1 stereo audio & 1 optical output
- Scale sources up to 720p or 1080p
- Convert all sources to HDMI
- RS232 & IR front panel control
- Includes Rack Ears & Wireless Remote

2009 InfoComm AWARD FINALIST

AV Inputs:
4 HDMI, 2 YPbPr,
1 VGA, 1 S-Video,
1 optical digital audio,
2 composite video,
1 DVI-I, 5 stereo audio

HIGHLIGHT PRODUCT

COMPOSITE: SECURITY CAMERA

COMPONENT: DVD PLAYER

COMPONENT: SET-TOP BOX

S-VIDEO: VCR

VGA: COMPUTER

TV

PAGE 20-21

HDMI

PAGE 29

DIGI-SCAL-11X2

HDMI

TV

PAGE 6-7

CAT6

HDMI

PAGE 30

DIGI-HD-UHR2-R

PAGE 26 DIGI-HD-8X8

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intelix
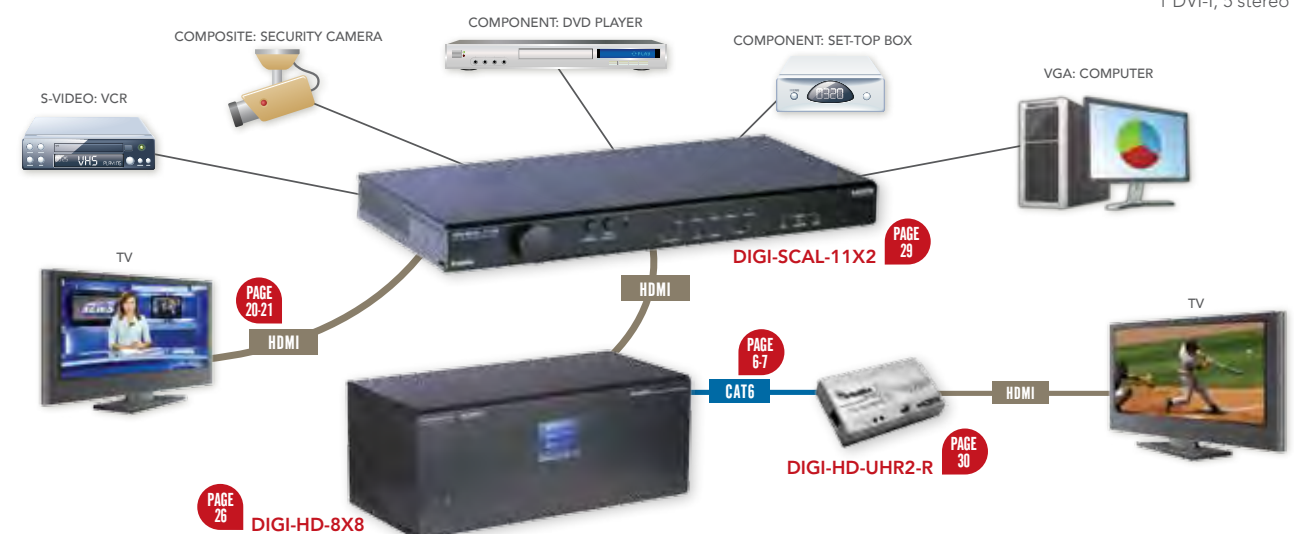
FULL SPEED USB OVER TWISTED PAIR BALUN
AVO-USB

FEATURES & BENEFITS:

- Supports speeds up to 12 Mbps
- Shielded RJ45 connectors
- Transmits low & full speed USB signals over twisted pair cabling
- Extends low speed USB 1.0 and 2.0 signals up to 100m (330 ft)
- Full speed USB 1.0 and 2.0 signals up to 30m (100 ft)
- Does not require driver software
- Clean, low profile installation.

APPLICATION:

- Ideal for education, government, houses of worship, corporate, residential and other application requiring USB to be run over long distances
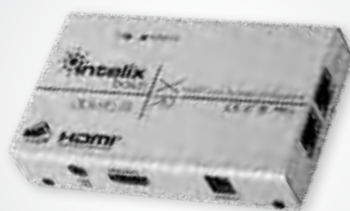
RoHS

HDMI TWISTED PAIR IN-LINE REPEATER/RECEIVER
DIGI-HD-XR

FEATURES & BENEFITS:
- Daisy chain up to five units per run
- Supports 7.1 multi-channel audio
- May be used as receiver for Intelix matrices
- Local HDMI output and IR input
- Doubles distance of 1080p video up to 45m (150ft) over Cat6a STP

APPLICATION:
- Transmit IR signals back to the source
- Compatible with single or dual UTP extenders
- Compatible with:
  DIGI-HD-UHR2-S
  DIGI-HD-UHR2-WP-S
  DIGI-HD-IR3-WP-S
  DIGI-HD-IR2-S
  DIGI-HD-UHR2-R
  DIGI-HD-UHR2-WP-R
  DIGI-HD-IR3-WP-R
  DIGI-HD-IR2-R

RoHS

HDMI OVER 1 TWISTED PAIR
DIGI-HD-UHR2-R (RECEIVE UNIT ONLY)
DIGI-HD-UHR2 (SEND AND RECEIVE SET)

FEATURES & BENEFITS:
- HDMI over a single twisted pair cable
- 1080p up to 45m (150 ft) via Shielded CAT6A
- 720p/1080i up to 300' via Shielded CAT6A
- Supported Signals: HDMI 1.3, HDCP
- HDMI amplification and buffering
- Built-in ESD surge protection

APPLICATION:
- Transmit and/or receive HDMI up to 90m (300 ft) over a single twisted pair cable
- Compatible with:
  DIGI-HD-8X8   DIGI-HD-XR
  DIGI-HD-4X8   DIGI-HD-1x8
  DIGI-HD-4X4   DIGI-HD-XR
  DIGI-HD-4X2

RoHS

HDMI OVER 2 TWISTED PAIR & IR
DIGI-HD-IR2-R (RECEIVE UNIT ONLY)
DIGI-HD-IR2 (SEND AND RECEIVE SET)

FEATURES & BENEFITS:
- HDMI over a two twisted pair cable & infra-red (IR)
- 1080p up to 45m (150 ft) via Shielded CAT6A
- 720p/1080i up to 90m (300 ft) via Shielded CAT6A
- Built-in ESD surge protection
- Supported Signals: HDMI 1.3, HDCP

APPLICATION:
- Send HDMI signals over Category wire
- Transmit IR signals back to source using Intelix Matrix Switchers
- Receive HDMI and IR up to 90m (300 ft) over two twisted pair cables

RoHS

DON'T FORGET THE CAT CABLES!

PAGES 6-7

CONNECTORS PAGES 44-45

- CATEGORY 5E
- CATEGORY 6
- CATEGORY 6A
- ENHANCED ETHERNET

HDMI OVER TWISTED PAIR WALLPLATE RECEIVER
DIGI-HD-UHR2-WP-R

FEATURES & BENEFITS:
- Double-Gang Extender Wallplate
- Supports multi-channel digital audio
- May be powered from front or rear
- Supports 1080p video up to 45m (150 ft) over a single Cat6a STP

APPLICATION:
- Extending HDMI over single twisted pair cable
- Compatible with: DIGI-HD-UHR2S or DIGI-HD-UHR2-WP-S (Page 30)

RoHS

HDMI OVER TWISTED PAIR WALLPLATE RECEIVER
DIGI-HD-UHR2-WP-S

FEATURES & BENEFITS:
- Double-Gang Extender Wallplate
- Supports multi-channel digital audio
- May be powered from front or rear
- Supports 1080p video up to 45m (150 ft) over a single Cat6 STP

APPLICATION:
- Extending HDMI over single twisted pair cable

RoHS

HDMI AND IR OVER TWISTED PAIR, RECEIVER ONLY
DIGI-HD-IR3-WP-R

FEATURES & BENEFITS:
- Double-Gang Extender Wallplate
- Supports 1080p video up to 45m (150 ft) over two Cat6a STP cables
- 33-55KHz IR frequency range (wideband)
- Supports multi-channel digital audio
- May be powered from front or rear

APPLICATION:
- Extending HDMI cable distance over twisted pair

RoHS

HDMI AND IR OVER TWISTED PAIR WALLPLATE, TRANSMITTER ONLY
DIGI-HD-IR3-WP-S

FEATURES & BENEFITS:
- Requires receive balun
- Balun requires 2x twisted pair runs
- HDshak technology: dynamic HDMI and EDID/DDC mode selection, gauranteeing performance and image quality
- Supports 1080p video up to 45m (150 ft)

APPLICATION:
- Extending HDMI and bi-directional IR over twisted pair cabling

RoHS

HDBaseT Extender - HDMI Meets Ethernet

The Intelix DIGI-HDE Twisted Pair Extender Set – the first of Liberty AV Solutions HDBaseT product family, provides the capability to simultaneously distribute HDMI and Ethernet streaming video from source to display up to 100 metres over a single twisted pair cable. The DIGI-HDE extends HDMI with multi-channel digital audio, 100BaseT Ethernet, bi-directional IR and RS232 over a single twisted pair cable. Supports 1080p, 4K x 2K, and 3D video up to 100 metres. Incorporates HDshāk® processing to ensure reliable hand shaking between source and display. HDCP & HDMI v1.4 compliant. Features built-in surge protection and diagnostic LEDs to ensure hassle free and reliable installations.

APPLICATION:

• Extend HDMI up to 100 Metres, plenum and non-plenum
• Digital Signage, Home Theater, Commercial Video Systems

HIGHLIGHT PRODUCT

HDBASET EXTENDER SET TRANSMITTER & RECEIVER
DIGI-HDE

FEATURES & BENEFITS:

• 1080p60, 4K x 2K and 3D up to 100 metres
• 100Mb Ethernet Pass-Thru
• Bi-directional IR and RS232
• Built-in HDshāk processing
• HDCP compliant
• HDMI v1.4 compliant
• Built-in surge protection up to 16 kV
• Diagnostic LEDs
• Extend HDMI, Ethernet, RS232 and IR over a single twisted pair cable

✔ RoHS

HD TERMINATION SYSTEM

PERFECT FOR CREATING CUSTOM HD LENGTHS!

TERMINATE IN 5 MINUTES!

PAGES 20-21

Watch it at www.LibAV.com!

INTELIX VGA/STEREO AUDIO/CONTROL RECEIVER
DIGI-VGASD-R

FEATURES & BENEFITS:

• VGA, Stereo Audio, and either infrared or RS232C control. Receive Balun only
• 1600x1200 UXGA up to 90m (300 ft)
• Uses a single category 5e or 6 cable
• When used with a compatible Intelix send balun, the DIGI-VGASD-R features 1600x1200 VGA video performance, high-fidelity 20 Hz to 20 kHz audio performance, and IR or bi-directional RS232 extension up to 100m (350 ft) over a single twisted pair cable

APPLICATION:

• Distributes VGA video, stereo audio, and control signals over a single twisted pair cable, such as Cat 5e or Cat 6.
• RS232 extension up to 100m (350 ft) over a single twisted pair cable

✔ RoHS

INTELIX 1X4 VGA/AUDIO/IR/RS232 DISTRIBUTION BALUN
DIGI-VGASD-T4

FEATURES & BENEFITS:

• Transmitter connects to the DIGI-VGASD-R Receive Balun with local monitor and audio outputs available as well
• 100m (350 ft) operating range
• 1600 x 1200 Maximum Resolution
• Control: IR or RS232; IR takes precedence when both are connected

APPLICATION:

• Transmit a single VGA, stereo audio, IR and RS232 signal to 4 remote destinations via cost-effective twisted-pair cable

✔ RoHS

DVI OVER TWISTED PAIR EXTENDER
DIGI-DVI-F (SET)

FEATURES & BENEFITS:

• Extend high definition DVI signals up to 45m (150 ft)
• MAC compatible
• Power on either the send or receive end
• Built-in ESD surge protection
• Requires two twisted pair cables
• Supported Signals: DVI-D
• Local monitor output

APPLICATION:

• Allows a DVI (digital visual interface) video signal to be transmitted up to 45m (150 ft) via inexpensive twisted pair cabling, such as Cat 5e or Cat 6

✔ RoHS

1080I HDMI TWISTED PAIR EXTENDER
DIGI-HDM-HR

FEATURES & BENEFITS:

• Fully compatible with Cat 5e and Cat 6
• In environments susceptible to high electromagnetic interference, two shielded twisted pair cables should be used
• Includes one send balun, one receive balun, one power supply, and two mounting brackets
• The system is powered on either the send or receive end.

APPLICATION:

• Transmits an HDMI audio and video signal up to 30m (100 ft) at 1080/720p resolution via inexpensive twisted pair cabling, such as Cat 5e or Cat 6.
• Supports standard HDTV resolutions and is HDCP compliant.

✔ RoHS

1X4 DVI TWISTED PAIR EXTENDER
DIGI-DVIT4R-F (4 STP OUTPUTS) DIGI-DVI-R-F (RECEIVER ONLY)
DIGI-DVIT2R-F (2 STP OUTPUTS)

FEATURES & BENEFITS:

• Transmits high-definition, 1920x1080 resolution DVI-D signals up to 65m (220 ft) using a single shielded Cat 6 cable
• Includes one multiple output transmitter, one receiver, and two power supplies
• Local monitor output
• Compatible Twisted Pair Receiver: DIGI-DVI-R-F

APPLICATION:

• Ideal solution for sending digital, high-performance signals over structured cabling

✔ RoHS

SOLUTION: DVI DIGITAL SIGNAGE

SOURCE

TRIPP LITE SINGLE PHASE AUTO TRANSFER SWITCH
PDUMH15ATNET

INSTALLER'S CHOICE BTN 24RU WELDED RACK
R-BTN-24U22-265

SOURCE DEVICES TO POPULATE RACK

COMPUTER

LIBERTY MOULDED DVI CABLE E-DVIDSL
PAGES 18-19

INTELIX 1X4 DVI TRANSMITTER BALUN
DIGI-DVIT4R-F
PAGE 33

OUTPUT 1 OUTPUT 2 OUTPUT 3 OUTPUT 4

DISPLAY

TV/MONITOR

LIBERTY MOULDED DVI CABLE E-DVIDSL
INTELIX DVI RECEIVER BALUN DIGI-DVI-R-F
PAGE 33

DVI OUT ETHERNET POWER

TV/MONITOR

LIBERTY MOULDED DVI CABL E-DVIDSL
PAGES 18-19

DVI OUT ETHERNET POWER

PAGES 6-7

LIBERTY CATEGORY 6 ENHANCED CMR CAT6 RISER 24-4P-L6-EN
LIBERTY CATEGORY 6 ENHANCED CMR CAT6 RISER 24-4P-L6-EN
LIBERTY CATEGORY 6 ENHANCED CMR CAT6 RISER 24-4P-L6-EN
LIBERTY CATEGORY 6 ENHANCED CMR CAT6 RISER 24-4P-L6-EN

DVI OUT ETHERNET POWER
INTELIX DVI RECEIVER BALUN DIGI-DVI-R-F
PAGE 33
DVI OUT ETHERNET POWER

LIBERTY MOULDED DVI CABLE E-DVIDSL
LIBERTY MOULDED DVI CABLE E-DVIDSL
PAGES 18-19

PERFECT FOR:
• COMMERCIAL LOBBY
• COMMERCIAL OFFICE
• TRANSPORTATION FACILITIES
• RETAIL
• ADVERTISING
• PUBLIC ADDRESS

TV/MONITOR TV/MONITOR

SOLUTION: VGA DIGITAL SIGNAGE

INTELIX DIGITAL SOLUTIONS

SOURCE

TRIPPLITE RACKMOUNT ECONOMY SURGE SUPPRESSOR
DRS-1215

INSTALLER'S CHOICE PTN 24RU WELDED RACK
R-PTN-24U24-275

SOURCE DEVICES TO POPULATE RACK

COMPUTER

LIBERTY MOULDED VGA CABLE E-VGAM-M
PAGES 18-19

INTELIX 1X4 VGA TRANSMITTER BALUN
DIGI-VGASD-T4
PAGE 33

5VDC POWER AUDIO IN OUT VGA INPUT VGA INPUT VGA OUTPUT UTP/STP OUTPUTS OUT 1 OUT 2 OUT 3 OUT 4 IN

DISPLAY

LIBERTY CATEGORY 5 ENHANCED WIRE 24-4P-P-L5-EN

TV/MONITOR

LIBERTY MOULDED DVI CABLE E-DVIDSL-1
INTELIX VGA RECEIVER BALUN DIGI-VGASD-R
PAGE 33

VGA OUT ETHERNET POWER

TV/MONITOR

LIBERTY MOULDED DVI CABLE E-DVIDSL-1
PAGES 18-19

VGA OUT ETHERNET POWER

PAGES 6-7

LIBERTY CATEGORY 5 ENHANCED WIRE 24-4P-P-L5-EN
LIBERTY CATEGORY 5 ENHANCED WIRE 24-4P-P-L5-EN
LIBERTY CATEGORY 5 ENHANCED WIRE 24-4P-P-L5-EN
LIBERTY CATEGORY 5 ENHANCED WIRE 24-4P-P-L5-EN

VGA OUT ETHERNET POWER
INTELIX VGA RECEIVER BALUN DIGI-VGASD-R
PAGE 33
VGA OUT ETHERNET POWER

LIBERTY MOULDED VGA CABLE E-VGAM-M-3
LIBERTY MOULDED VGA CABLE E-VGAM-M-3
PAGES 18-19

PERFECT FOR:
• COMMERCIAL LOBBY
• COMMERCIAL OFFICE
• TRANSPORTATION FACILITIES
• RETAIL
• ADVERTISING
• PUBLIC ADDRESS

TV/MONITOR TV/MONITOR

Your Building Already has Coaxial Cable Installed, Leverage it for an HDMI Upgrade!

Designed for demanding commercial and residential audio-visual applications, our digital coax baluns employ Intelix's industry-leading digital processing to transmit high-definition HDMI signals over a single RG6 or RG59 cable. Plus, built-in amplified signal splitting provides seamless daisy-chain distribution to ten remote destinations.

RoHS ✓

APPLICATION:
- Extend 1080p HDMI signal up to 09m (300 ft)
- Extend 720p/1080i HDMI signal up to 205 m (675 ft)
- Extend HDMI over single coaxial cables

HIGHLIGHT PRODUCT

DIGITAL COAXIAL HDMI EXTENDERS
DIGI-HD-COAX-S (Sender)
DIGI-HD-COAX-R (Receiver)

FEATURES & BENEFITS:
- Extend HDMI over a single coaxial cable
- Built-in buffered 1x2 distribution amplifiers provide room to room viewing
- Daisy Chaining up to 6 additional RX on the same TX
- 1080p resolution at 90m (300 ft) for RG6, 76m (250 ft) RG59, 46m (150 ft) MRG59

Ideal for Digital Signage
Daisy-Chainable

Digital Signage applications are plagued by distance and resolution limitations. The DIGI-HD-COAX expands horizons with 1080p distances up to 90m (300 ft) and 720p/1080i distances up to 205m (675 ft). Plus, built-in amplified splitters provide seamless daisy-chaining between displays.
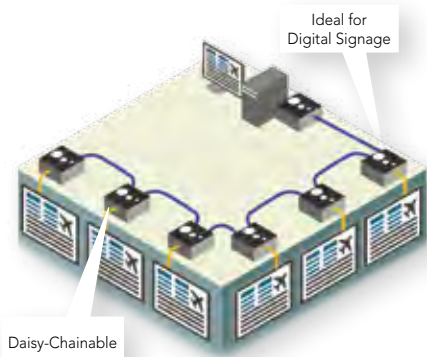

Utilise Existing COAX Cable
Dual Outputs

Schools, churches, homes, restaurants, and most other buildings are riddled with coax—why not use it for an HDMI upgrade? The Intelix DIGI-HD-COAX leverages existing RG59 and RG6 for beautiful, high-definition audio and video. Plus, dual outputs provide seamless multiple room support.

Daisy-Chainable
Utilise Existing COAX Cable

Homes want HDMI but are stuck with coax. The solution? The DIGI-HD-COAX distributes 1080p HDMI over a single RG59 or RG6—just plug it into the wall and go! Plus, built-in amplified splitters provide seamless integration between rooms.

DON'T FORGET THE COAX CABLES!

- MULTIPURPOSE
- BROADBAND VIDO
- UNBALANCED DIGITAL
- ANALOGUE
- STRUCTURED

PAGES 14-17

CONNECTORS PAGE 39

SOLUTION : **HDMI OVER COAX CABLE**

SOURCE

TRIPP LITE UPS / SURGE SUPPRESSOR
HT1000 UPS

SOURCE DEVICES TO POPULATE RACK

INSTALLER'S CHOICE ETN 18RU WELDED RACK
R-ETN-18U22-25

COMPUTER

LIBERTY STANDARD HDMI CABLE W/ ETHERNET
E-HDSEM-M
PAGES 20-21

PAGE 36 INTELIX HDMI OVER COAX SEND UNIT
DIGI-HD-COAX-S

SVDC   A   B
COAX OUT   LOOP IN
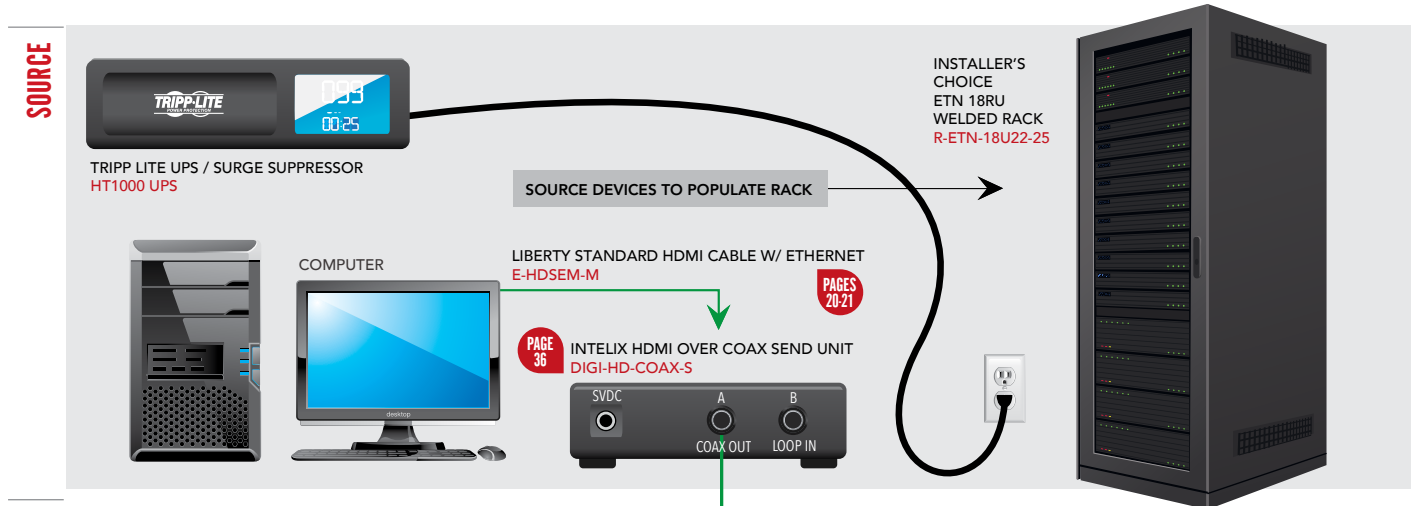
DISPLAY

PERFECT FOR:
- HDMI DISTRIBUTION IN A COAX ENVIRONMENT
- DIGITAL SIGNAGE
- RETRO-FIT OR NEW INSTALLATION

LIBERTY PLENUM RG-6 COAX CABLE
RG6-P-CATV

TV/MONITOR

TV/MONITOR

LIBERTY STANDARD HDMI CABLE W/ ETHERNET
E-HDSEM-M
PAGE 36

LIBERTY STANDARD HDMI CABLE W/ ETHERNET
E-HDSEM-M
PAGES 20-21

SVDC   COAX IN   LOOP OUT

INTELIX HDMI OVER COAX RECEIVER
DIGI-HD-COAX-R

SVDC   COAX IN   LOOP OUT

PAGES 14-15

LIBERTY PLENUM RG-6 COAX CABLE
RG6-P-CATV

LIBERTY PLENUM RG-6 COAX CABLE
RG6-P-CATV

LIBERTY PLENUM RG-6 COAX CABLE
RG6-P-CATV

PAGES 14-15

LIBERTY PLENUM RG-6 COAX CABLE
RG6-P-CATV

SVDC   COAX IN   LOOP OUT

PAGE 36 INTELIX HDMI OVER COAX RECEIVER
DIGI-HD-COAX-R

SVDC   COAX IN   LOOP OUT

PAGE 36 INTELIX HDMI OVER COAX RECEIVER
DIGI-HD-COAX-R

SVDC   COAX IN   LOOP OUT

LIBERTY STANDARD HDMI CABLE W/ ETHERNET
E-HDSEM-M

LIBERTY STANDARD HDMI CABLE W/ ETHERNET
E-HDSEM-M
PAGES 20-21

LIBERTY STANDARD HDMI CABLE W/ ETHERNET
E-HDSEM-M

TV/MONITOR

TV/MONITOR

TV/MONITOR

C-TEC² CONNECTOR SYSTEM

FOR CM-RG59M, CM-RG6M & CM-RG6L SERIES OF BNC, RCA & F CONNECTORS

C-TEC² connectors replace Liberty's previous **ConnecTec®** connector line. Contact your sales rep for availability.

ConnecTec

VERSATILE FERRULE-LESS CONNECTOR DESIGN!

C-TEC² is Liberty's new break-through connector system! Our new BNC, RCA and F connectors are manufactured without inner ferrules which allows virtually any cable from any manufacturer to easily fit! Utilise our C-Tec² tool kit for perfect terminations and organising everything in one case.

HIGHLIGHT PRODUCT

CM-RG59M SERIES
- Yellow colour band
- Fits solid conductor plenum & non-plenum cable
- Single thru Tri-Shield

CM-RG6L SERIES
- Orange colour band
- 18 AWG Quad Shield PVC
- Fits 18 AWG Single Braid PVC thru

CM-RG6M SERIES
- Purple colour band
- Single thru Quad Shield
- Fits RG6 solid conductor plenum cable
- Fits all PVC types to Tri-shield

SIMPLE STOCKING FOR INTEGRATORS – 9 CONNECTORS, 3 COLOURS!

C-TEC² KIT - EVERYTHING YOU NEED FOR PERFECT TERMINATION!

CUSTOM STOCK YOUR CASE WITH WHICH EVER CONNECTORS YOU NEED!

C-TEC² TERMINATION SYSTEM TOOL KIT
FOR RG59, RG6, RG11, & AUDIO CONNECTORS

CM-TOOL-PAC
- Compression Tool
- 25/26 AWG Stripper (stranded)
- 23/25 AWG Stripper (solid)
- RG59/6 Stripper
- Cable Cutter & Holster

Watch it at www.LibAV.com!

C-TEC² CM-RG59M SERIES FEATURES & BENEFITS:
- Ferrule-less universal connector for RG59 sized coaxial cable
- Single Piece compression connector
- Fits plenum & non-plenum formats
- Single braid shield through quad shield formats
- Does not fit RG59 head end quad format (CM-RG59Q-series)
- **Yellow** band for identification
- Machined slot to accept coloured silicone ID bands

C-TEC² ✔ RoHS

CM-RG59M-BNC
APPLICATION:
- BNC PLUG, RG59
- Line Level Audio, S/PDIF and AES3id Digital Audio
- Base Band Video, IR, Digital Video

C-TEC² ✔ RoHS

CM-RG59M-RCA
APPLICATION:
- RCA PLUG, RG59
- Line Level Audio, S/PDIF Digital Audio
- Base Band Video, IR

C-TEC² ✔ RoHS

CM-RG59M-RCA
APPLICATION:
- F PLUG, RG59
- RF Video - CATV, MATV, Direct Broadcast Satellite
- Base Band Video

C-TEC² CM-RG6L SERIES FEATURES & BENEFITS:
- Ferrule-less universal PVC Connector for RG6 sized Coaxial Cable
- Single Piece Compression Connector
- PVC Single Braid shield through Quad shield formats
- Plenum Dual shield through Quad-Shield formats
- **Orange** band for identification
- Machined slot to accept coloured silicone ID bands

C-TEC² ✔ RoHS

CM-RG6L-BNC
APPLICATION:
- BNC PLUG, RG6L
- Line Level Audio, S/PDIF and AES3id Digital Audio
- Base Band Video, IR, Digital Video

C-TEC² ✔ RoHS

CM-RG6L-RCA
APPLICATION:
- RCA PLUG, RG6L
- Line Level Audio, S/PDIF Digital Audio
- Base Band Video, IR

C-TEC² ✔ RoHS

CM-RG6L-F
APPLICATION:
- F PLUG, RG59L
- RF Video - CATV, MATV, Direct Broadcast Satellite
- Base Band Video

C-TEC² CM-RG6M SERIES FEATURES & BENEFITS:
- Ferrule-less universal Plenum Connector for RG6 sized Coaxial Cable
- Single Piece Compression Connector
- Plenum Single Braid shield through Quad shield formats
- Non-Plenum Single Braid shield through Tri-Shield format
- **Purple** band for identification
- Machined slot to accept coloured silicone ID bands

C-TEC² ✔ RoHS

CM-RG6M-BNC
APPLICATION:
- BNC PLUG, RG6M
- Line Level Audio, S/PDIF and AES3id Digital Audio
- Base Band Video, IR, Digital Video

C-TEC² ✔ RoHS

CM-RG6M-RCA
APPLICATION:
- RCA PLUG, RG6M
- Line Level Audio, S/PDIF Digital Audio
- Base Band Video, IR

C-TEC² ✔ RoHS

CM-RG6M-F
APPLICATION:
- F PLUG, RG59M
- RF Video - CATV, MATV, Direct Broadcast Satellite
- Base Band Video

ConnecTec

C-TEC² connectors replace Liberty's previous **ConnecTec®** BNC, RCA & F connector line. Contact your sales representative for availability. www.LibAV.com | +1.719.388.7542

C-TEC² COMPRESSION CRIMP TOOL
CM-TOOL

FEATURES & BENEFITS:
- This ergonomically designed crimping tool is milled from a solid piece of NASA-grade aluminium, our tool is light weight yet highly durable. Anodised in an easy-to-find red finish, the exclusive tool is easy to work with
- Plunger effortlessly adjusts to accommodate the entire line of C-Tec² Connectors

APPLICATION:
- Terminates BNC, F and RCA connectors without using any adaptors
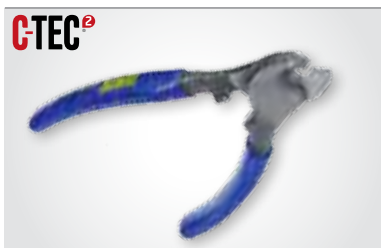- Terminates mini BNC and RCA connectors
- Terminates Audio Connectors

C-TEC² EXTRA DIE FOR CRIMP TOOL
CM-TOOL-DIE

FEATURES & BENEFITS:
- For use with C-Tec² Compression Tool for all Mini High Resolution through RG6 Quad shield connectors featuring tuning fork die and aircraft grade aluminium frame

APPLICATION:
- Replacement die for CM-TOOL

C-TEC² CABLE CUTTER
CM-206-L

FEATURES & BENEFITS:
- Convex Scissor Blade action to cut coaxial cable
- Cuts copper to 14 AWG and Copper Clad Steel to 18 AWG
- Durable and inexpensive

APPLICATION:
- Cut coaxial cables without flattening them
- Perfect for cutting steel cable

C-TEC² COMPRESSION CONNECTOR INSERTION TOOL
CM-CGT-FBR

FEATURES & BENEFITS:
- Alleviates wear and tear on your fingers when seating large numbers of Compression Connectors

APPLICATION:
- Helps insert connector onto stripped cable end without using your fingers

C-TEC² RGB 25 &26 AWG MINI COAX STRIPPER AND REPLACEMENT BLADE
CM-MINI (STRIPPER) │ **M-MINI-BLADE** (REPLACEMENT BLADE)

FEATURES & BENEFITS:
- Cable Prep for C-Tec² Compression Connectors
- 4mm x 1/4" 2-stage Connector Strip (Black Cartridge)
- Stop bracket to facilitate strip lengths
- Number of spins equates to depth of cut

APPLICATION:
- RG59 Single, Dual, Tri, and Quad Shield cables
- RG6 Single, Dual, Tri, and Quad Shield cables
- Plenum & Non-Plenum

C-TEC² RG59,RG6, OR RG6 QUAD CABLES STRIPPER AND REPLACEMENT BLADE
CM-59/6 (STRIPPER) │ **CM-59/6-BLADE** (REPLACEMENT BLADE)

FEATURES & BENEFITS:
- Cable Prep for C-Tec² Compression Connectors
- 1/4" x 1/4" Standard F connector Strip (Yellow Cartridge)
- Stop bracket to facilitate strip lengths
- Number of spins equates to depth of cut

APPLICATION:
- 26 AWG stranded Mini High Resolution RGB cables
- 25 AWG stranded Mini RG59 RGB cables
- Plenum & Non-Plenum

C-TEC² RGB 23 & 25 SOLID AWG MINI COAX STRIPPER AND REPLACEMENT BLADE
CM-23/25 (STRIPPER) │ **CM-23/25-BLADE** (REPLACEMENT BLADE)

FEATURES & BENEFITS:
- Cable Prep for C-Tec² Compression Connectors
- Standard F connector Strip (Blue Cartridge)
- Stop bracket to facilitate strip lengths
- Number of spins equates to depth of cut

APPLICATION:
- Mini-RG59 23 AWG Single & Dual Shield cables
- Mini-High Resolution 25 AWG Dual Shield cables
- Plenum & Non-Plenum

C-TEC² COLOURED CONNECTOR BANDS
CM-R-COLOUR

FEATURES & BENEFITS:
- Packaged in bags of 100 pieces
- Colours: Green, Orange, Red, White, Yellow, Black, Blue

APPLICATION:
- Removable ID ring for marking CoaxMaster CM series RCA, BNC, and F connectors

C-TEC² MINI BNC BOOT
CM-BOOT-BLK

FEATURES & BENEFITS:
- Perfect for finishing off your RGBHV termination
- Packaged in 25-piece packages
- Black only

APPLICATION:
- Boot for 23/25/26 AWG C-TEC² plugs
- Fits BNC, RCA

C-TEC² MINI HIGH-RES COLOURED BOOTS
BMHR-COLOUR

FEATURES & BENEFITS:
- Perfect-fit strain relief boots
- Packaged in 100-piece packages
- Colours: Green, Orange, Red, White, Yellow, Black, Blue

APPLICATION:
- Silicone boot for Mini Hi-Res BNC & RCA Connectors

RoHS ✓

WebBlox®3

THE PREMIER CUSTOM PLATE AND PANEL DESIGN TOOL IN THE AV INDUSTRY

This free design and quoting tool gives you complete control over designing your own custom plate and panel layouts. All PanelCrafters® standard panel sizes are available. Drag-and-drop any of our standard connectors into your design, specify the text you want in WebBlox's user-friendly environment.

GO FROM CONCEPT TO COMPLETED PLATE DESIGN IN MINUTES!

PANEL CRAFTERS
BY LIBERTY AV SOLUTIONS

PREFER TO WORK IN AUTOCAD OR VISIO? WE HAVE A SOLUTIONS!

- CADQuote™
- CADBlox™
- V-SERIES CADBlox™

FREE SERVICE! DESIGN ONLINE, 24/7 PASSWORD ACCESS TO ALL OF YOUR DESIGNS ADD YOUR OWN LOGO

SERVICE HIGHLIGHT

PRO AUDIO VISUAL

UK STYLE PLATES AND INTERNATIONAL SIZES AVAILABLE

- Designed and engineered to fit 46mm deep single gang and double gang British Standard backboxes.
- Available in several plastic and metal finishes including white, brushed aluminium and antique black. Other finishes available upon request.

C-TEC² 25 AWG MINI-RG59 BNC PLUG
CM-RGB25-BNC

FEATURES & BENEFITS:
- Features a secure center contact connection for precision performance and secure signal transmission
- Exhibits 25% greater cable retention then the standard
- Shipped in quantities of 25 packaged 5 in 5 sub-packages
- Purple indentification band

RoHS ✓

APPLICATION:
- Compression BNC connector for mini stranded 0.15mm² (25 AWG) coaxial products
- Plenum & non-plenum

C-TEC² 25 AWG MINI-RG59 RCA PLUG
CM-RGB25-RCA

FEATURES & BENEFITS:
- Features a secure center contact connection for precision performance and secure signal transmission
- Exhibits 25% greater cable retention then the standard
- Shipped in quantities of 25 packaged 5 in 5 sub-packages
- Purple indentification band

RoHS ✓

APPLICATION:
- Compression RCA connector for mini stranded 0.15mm² (25 AWG) coaxial products
- Plenum & non-plenum

C-TEC² 26 AWG MINI-RG59 BNC PLUG
CM-RGB26-BNC

FEATURES & BENEFITS:
- Secure center contact connection for precision performance and secure signal transmission
- Exhibits 25% greater cable retention then the standard
- Shipped in quantities of 25 packaged 5 in 5 sub-packages
- Orange indentification band

RoHS ✓

APPLICATION:
- Compression BNC connector for mini stranded 0.12mm² (26 AWG)

C-TEC² 26 AWG MINI-RG59 RCA PLUG
CM-RGB26-RCA

FEATURES & BENEFITS:
- Secure center contact connection for precision performance and secure signal transmission
- Exhibits 25% greater cable retention then the standard
- Shipped in quantities of 25 packaged 5 in 5 sub-packages
- Orange indentification band

RoHS ✓

APPLICATION:
- Compression RCA connector for mini stranded 0.12mm² (26 AWG)

C-TEC² MRG59 23 AWG BNC PLUG
CM-RGB23-BNC

FEATURES & BENEFITS:
- Universal single piece compression connector for Mini-RG59 sized coaxial cable
- Single Braid shield through dual shield formats
- Plenum & non-plenum
- Sky Blue Silicone band for easy identification

RoHS ✓

APPLICATION:
- BNC mini stranded 0.12mm² (26 AWG) with up to a .100-inch dielectric
- Line Level Audio, S/PDIF Digital Audio
- Base Band Video, IR

C-TEC² MRG59 23 AWG RCA PLUG
CM-RGB23-RCA

FEATURES & BENEFITS:
- Universal single piece compression connector for Mini-RG59 sized coaxial cable
- Single Braid shield through dual shield formats
- 23 AWG with up to a .100-inch dielectric
- Sky Blue Silicone band for easy identification

RoHS ✓

APPLICATION:
- RCA mini stranded 0.12mm² (26 AWG) with up to a .100-inch dielectric
- Line Level Audio, S/PDIF Digital Audio
- Base Band Video, IR

PAGES 8-9 **QuickLinx®**
SOLID COAX CABLES

RGB5C-23-CM
RGB5C-25-CMP

QuickLinx®

QUICKLINX® BNC CONNECTOR FOR SOLID MINI-RG59 25 AWG CABLE
CM-RGB25S-BNC

FEATURES & BENEFITS:
- Take advantage of the speed of full sized RG59/6 compression connectors on miniature coaxial cables!
- Connector retention exceeds 18 kg after install
- One-Piece connector with no colour identification ring
- Shipped in quantities of 25

RoHS ✓

APPLICATION:
- Single Piece BNC Compression Connector for solid Mini-RG59 0.15mm² (25 AWG) coaxial products
- Plenum & non-plenum

QuickLinx®

QUICKLINX® RCA CONNECTOR FOR SOLID MINI HIGH-RES 25 AWG CABLE
CM-RGB25S-RCA

FEATURES & BENEFITS:
- Take advantage of the speed of full sized RG59/6 compression connectors on miniature coaxial cables!
- Exhibits 25% greater cable retention than the standard
- One-Piece connector with no colour identification ring
- Shipped in quantities of 25 packaged 5 in 5 sub-packages

RoHS ✓

APPLICATION:
- Single Piece RCA Compression Connector for solid Mini-RG59 0.15mm² (25 AWG) coaxial products
- Plenum & non-plenum

C-TEC² KIT - EVERYTHING YOU NEED FOR PERFECT TERMINATION!

CUSTOM STOCK YOUR CASE WITH WHICH EVER CONNECTORS YOU NEED!

HIGHLIGHT PRODUCT

THE PERFECT SOLUTION FOR ORGANISING CONNECTORS & TOOLS!

C-TEC²

C-TEC² TERMINATION SYSTEM TOOL KIT
FOR RG59, RG6, RG11, MINI HIGH RES & AUDIO CONNECTORS

CM-TOOL-PAC
- Compression Tool
- 25/26 AWG Stripper (stranded)
- 23/25 AWG Stripper (solid)
- RG59/6 Stripper
- Cable Cutter & Holster

CONNECTEC

C-TEC² connectors & tool kit replace Liberty's previous **ConnecTec®** connectors & tool kit. Contact your sales rep for availability.

Watch it at www.LibAV.com!

CATMASTER-HD®
TERMINATION KIT 90131LW

PERFECT CAT CABLE TERMINATION!

HEAVY DUTY CRIMP TOOL
100 044LW

CABLE CUTTER
(NOT SOLD SEPARATELY)

UTP CABLE JACKET STRIPPER
15010

PACKAGE OF 100 EZ-RJ45 PLUGS
100 003B

CATMASTER HEAVY DUTY CRIMP TOOL
100054LW

FEATURES & BENEFITS:
- Modular Plug Crimp and Cut action for EZ-RJ45
- 4P4C through 8P8C Formats (RJ9/RJ11/RJ45)
- Cable Stripping Blades in Handle
- Works on standard non-CatMaster RJ45 Plugs
- Heavy Duty design to support Cat 6 and Shielded cables

APPLICATION:
- LAN Cat3, 5e, 6 Modular Plug Termination
- EZ-RJ45 and non EZ-RJ45 Modular Plug Termination
- Cutting cable, jacket stripping

GRADE | BEST

CATMASTER UTP CABLE JACKET STRIPPER
15010

FEATURES & BENEFITS:
- Spin one way for shallow cuts on Plenum or thin jackets and the other way for deeper cuts on heavier jackets or Kynar

APPLICATION:
- Simple and effective Cigar Cutter style of cable jacket strip tool for Category Cable

GRADE | BEST

CATMASTER PUNCH DOWN TOOL
13006

FEATURES & BENEFITS:
- Ergonomically designed to reduce wrist strain
- Inserts and cuts terminations in one operation
- Impact force is user-adjustable with dial knob

APPLICATION:
- High quality impact tool for punching down wires on 110 and 66 Blocks

GRADE | BEST

RJ45 SHIELDED CAT6A TOOL-LESS CONNECTORS
1401405012-I

FEATURES & BENEFITS:
- Tested and certified to 625 MHZ
- Tool-less design that allows cable termination without needing any crimping tools!
- Re-usable

APPLICATION:
- Specialty RJ45 plug for shielded Category 6A and ISO Class E Shielded Category 7 type cable

RoHS | GRADE | BEST

CATMASTER EZ-RJ45 CAT6 PLUG
100 011LW

FEATURES & BENEFITS:
- 50m Gold Plate, UL Rated, FCC Compliant
- Modular Category 6 plugs and economy strain relief boots for the CatMaster system
- Use integrated modular plug boot 100035 for higher performance and snagless operation.

APPLICATION:
- For both stranded and solid Unshielded Category 6 cable
- All category 6 terminations require a connector strain relief

RoHS | GRADE | BEST

CATMASTER EZ-RJ45 INTEGRATED MODULAR BOOT FOR CATEGORY 5 & 6 PLUGS
100035

FEATURES & BENEFITS:
- Design allows the strain relief to be mounted into the connector prior to crimping
- Snagless design reduces the pressure on the wires after crimp thereby improving performance
- Sold in packages of 50

APPLICATION:
- Enhances headroom and function of the connector
- Increases strength and durability

RoHS | GRADE | BEST

CATMASTER EZ-RJ45 CAT5E PLUG
100 003B

FEATURES & BENEFITS:
- Easy cable feed-thru for quick and accurate terminations
- Male connector for CAT5e
- For solid unshielded Cat5e cable
- Sold in packages of 100

APPLICATION:
- RJ45 termination ends for voice, data, video and audio

RoHS | GRADE | BETTER

RJ45 UTP CAT5E CLEAR CONNECTORS
10005USOP

FEATURES & BENEFITS:
- Standard Crimp Style (Non-Catmaster)
- 8 position 8 conductor
- This product is sold in packages of 100

APPLICATION:
- RJ45 Plugs for category 3 through 5e 24 AWG solid conductor unshielded round twisted pair cable

RoHS | GRADE | GOOD

CATMASTER 6P6C CAT3 & 5E PLUG
100 026LW

FEATURES & BENEFITS:
- Modular 6P6C plugs for the CatMaster system.
- Plugs are for both stranded and solid
- Unshielded Category 3 or 5e cable
- EZ-RJ45 Connector 50m Gold Plate, UL Rated, FCC Compliant
- Sold in packages of 100

APPLICATION:
- EZ-RJ45 for CAT3 or CAT5e

RoHS | GRADE | GOOD

CATMASTER EZ-RJ45 METAL SHIELDED CAT5E CONNECTOR
111S08080016-34

FEATURES & BENEFITS:
- 2-piece connectors and have a load bar that must be preloaded prior to insertion in the connector
- Sold in non-breakable bags of 100

APPLICATION:
- Shielded Modular 8P8C Category 5e plugs for solid Shielded Category 5e cable

RoHS | GRADE | BETTER

CATMASTER EZ-RJ45 METAL SHIELDED CAT5E CONNECTOR
100020

FEATURES & BENEFITS:
- For both stranded and solid Shielded Category 5e cable
- Sold in packages of 50

APPLICATION:
- Shielded Modular Category 5e plugs for the CatMaster system

RoHS | GRADE | BETTER

RJ45 SNAG-FREE BOOTS
BOOT-S-COLOUR

FEATURES & BENEFITS:
- Snag-free
- Durable and unbreakable
- Sold in packages of 50
- Colours: Black, Yellow, Green, Red, White, Blue

APPLICATION:
- RJ45 Boots

RoHS | GRADE | BEST

RJ45 SNAG-FREE BOOTS
BOOT-S-COLOUR

FEATURES & BENEFITS:
- Snag-free
- Durable and unbreakable
- Sold in packages of 50
- Colours: Black, Yellow, Green, Red, White, Blue

APPLICATION:
- RJ45 Boots

RoHS | GRADE | BEST

CONNECTEC® RG11 COMPRESS TOOL
CM-TOOL-11

FEATURES & BENEFITS:
- Works with ConnecTec and Snap and Seal Connectors
- ConnecTec® linear compression tool for compressing all ConnecTec® RG6 and smaller sized connectors

APPLICATION:
- Compression connector tool

CONNECTEC® RG11 STRIPPER
CM-8/11

FEATURES & BENEFITS:
- 1/4" x 1/4" Standard F connector Strip
- Number of spins equates to depth of cut
- Also works on RG8 and RG213 Cables if needed.
- NOTE: No stop bracket on this tool, user to trim conductor

APPLICATION:
- For RG11 Single, Dual, Tri, and Quad Shield cables
- Plenum and non-plenum

CONNECTEC® COMPRESSION BNC PLUG (MALE) FOR RG11
CM-RG11-BNC

FEATURES & BENEFITS:
- Features a robust cable termination that meets or exceeds all BellCore applicable standards
- 75-Ohm connector is rated to 1 GHz and features a very low return loss factor
- Identified by a black O-ring

APPLICATION:
- 14 AWG Solid conductor dual shield non-plenum cable

RoHS

CONNECTEC® CONNECTEC N RG11 CATV NICKEL
CM-RG11-N

FEATURES & BENEFITS:
- Features a robust cable termination that meets or exceeds all BellCore applicable standards
- 75-Ohm connector is rated to 1 GHz
- Features a very low return loss factor

APPLICATION:
- Compression N Plug (Male) for RG11 14 AWG solid conductor dual shield non-plenum cable

RoHS

CONNECTEC® F-TYPE FEMALE RG11 SINGLE PIECE COMPRESSION CONNECTOR
CM-RG11P-F

FEATURES & BENEFITS:
- Plenum Single Braid shield through Quad shield formats
- Solid 14 AWG conductor required
- White Silicone band for easy identification
- Machined Slot to accept CM-(colour) ID Bands

APPLICATION:
- RF Video - CATV, MATV, Direct Broadcast Satellite
- Base Band Video
- Universal Plenum Connector for RG11 sized Coaxial Cable

RoHS

CONNECTEC® EUROPEAN LINEAR COMPRESSION TOOL
CM-TOOL-IEC

FEATURES & BENEFITS:
- Die is in a fixed position on tool, should not be removed
- Manufactured from a single block of aircraft grade aluminium for a strong, durable & light weight application tool
- Wear safety glasses when using any tooling

APPLICATION:
- For compressing all ConnecTec® IEC PAL connectors for the European market

CONNECTEC® CABLE CUTTER
CM-206-L

FEATURES & BENEFITS:
- Convex Scissor Blade action to cut coaxial cable
- Cuts copper to 14 AWG and Copper Clad Steel to 18 AWG
- Durable and inexpensive

APPLICATION:
- Cut coaxial cables without flattening them
- Perfect for cutting steel cable

EUROPEAN RG59 COAXIAL PLUG
CM-RG59-IECM

FEATURES & BENEFITS:
- Single Piece European PAL or IEC Male in-line compression connector
- Connector retention exceeds 36 kg after install
- Shipped in quantities of 25

APPLICATION:
- For Non-Plenum RG59 Dual Shield coaxial cable with a solid 20 AWG center conductor

RoHS

EUROPEAN RG6 COAXIAL PLUG
CM-RG6-IECM

FEATURES & BENEFITS:
- Single Piece European PAL or IEC Male in-line compression connector
- Connector retention exceeds 36 kg after install
- Shipped in quantities of 25

APPLICATION:
- For Non-Plenum RG6 Dual Shield
- Coaxial Cable with a solid 20 AWG center conductor

RoHS

EUROPEAN RG59 COAXIAL CONNECTOR
CM-RG59-IECF

FEATURES & BENEFITS:
- PAL or IEC Female in-line Compression Connector
- Connector retention exceeds 36 kg after install
- Shipped in quantities of 25

APPLICATION:
- For Non-Plenum RG59 Dual Shield coaxial cable with a solid 20 AWG center conductor

RoHS

DON'T FORGET THE COAX CABLES!
PAGES 14-17
- MULTIPURPOSE
- BROADBAND VIDO
- UNBALANCED DIGITAL
- ANALOGUE
- STRUCTURED

PANEL CRAFTERS BY LIBERTY AV SOLUTIONS — CUSTOM PLATES & PANELS
The Perfect Finish for Your Installation

UK STYLE PLATES AND INTERNATIONAL SIZES AVAILABLE

AUDIO CONNECTEC

Audio ConnecTec® connectors slip on easily to the speaker cable conductor & compress on effortlessly with the easy-to-use Audio ConnecTec crimp tools!

JUST 5 STEPS TO PERFECT TERMINATION!
- Works with any speaker plug-in plate format or design
- Strip-Free, works with all Liberty speaker cable & twists on easily
- For in-wall and non in-wall audio applications

1 Cut the outer jacket away leaving the desired conductor length. Slide heat shrink tube in to position and shrink

2 Slide connector boots over each conductor

3 Without stripping, twist the correct AWG connector base clockwise on to the conductor
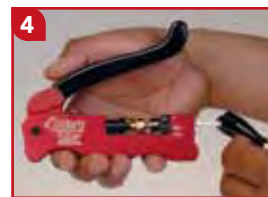
4 Using the C-Tec² Crimp Tool - with the die set to the F connector position - compress the connector to the cable

5 Slide boot over the connector base and screw the tip option on to the threaded connector base

---

AUDIO CONNECTEC COMPRESSION CRIMP TOOL
CM-TOOL

FEATURES & BENEFITS:
- This ergonomically designed crimping tool is milled from a solid piece of NASA-grade aluminium, our tool is light weight yet highly durable. Anodised in an easy-to-find red finish, the exclusive tool is easy to work with.
- Plunger effortlessly adjusts to accommodate the entire line of C-Tec² Connectors

APPLICATION:
- Terminates Audio Connectors
- Terminates BNC, F and RCA connectors without using any adaptors
- Terminates mini BNC and RCA connectors

GRADE | BEST

AUDIO CONNECTEC MINI BNC BOOT
CM-BOOT-BLK

FEATURES & BENEFITS:
- Perfect for finishing off your RGBHV termination
- Packaged in 25-piece packages
- Black only ●

APPLICATION:
- Boot for 23/25/26 AWG C-TEC² plugs
- Fits BNC, RCA

RoHS GRADE | BEST
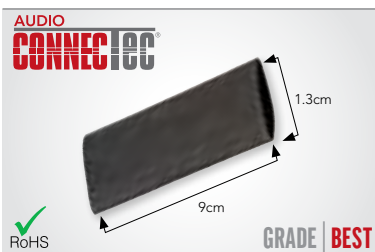
AUDIO CONNECTEC HEAT SHRINK TUBE
HSK-3:1BK-1/2

FEATURES & BENEFITS:
- Standard Crimp Style (Non-Catmaster)
- 8 position 8 conductor
- Size: 9cm x 1.3cm (3.5" x .5")
- This product is sold in packages of 100

APPLICATION:
- RJ45 Plugs for category 3 through 5e 24 AWG solid conductor unshielded round twisted pair cable

1.3cm 9cm

RoHS GRADE | BEST

AUDIO CONNECTEC AUDIO COMPRESSION BASE 10-12 AWG
CM-A-12

FEATURES & BENEFITS:
- Threaded penetration of the speaker wire, works with all Liberty speaker cable
- Incredible retention exceeding 36 kg
- Will accept 10 and 12 AWG wires up to 4.0mm in diameter
- Identified with a black ring, shipped in packages of 25

APPLICATION:
- Compression base connector for 5.0 mm² (10 AWG) and 3.0 mm² (12 AWG) speaker wire
- Works with all Liberty speaker cable

RoHS GRADE | BEST

AUDIO CONNECTEC AUDIO COMPRESSION BASE 14 AWG
CM-A-14

FEATURES & BENEFITS:
- Threaded penetration of the speaker wire, works with all Liberty speaker cable
- Incredible retention exceeding 36 kg
- Will accept 14 AWG wires up to 3.5mm in diameter
- Identified with a red ring, shipped in packages of 25

APPLICATION:
- Compression base connector for 2.0 mm² (14 AWG) speaker wire

RoHS GRADE | BEST

AUDIO CONNECTEC AUDIO COMPRESSION BASE 16 AWG
CM-A-16

FEATURES & BENEFITS:
- Threaded penetration of the speaker wire, works with all Liberty speaker cable
- Incredible retention exceeding 36 kg
- Will accept 16 AWG wires up to 2.9mm in diameter
- Identified with a blue ring, shipped in packages of 25

APPLICATION:
- Compression base connector for 1.5 mm² (16 AWG) speaker wire
- Works with all Liberty speaker cable

RoHS GRADE | BEST

AUDIO CONNECTEC AUDIO SPADE LUG - GOLD PLATED
CM-A-16

FEATURES & BENEFITS:
- Strip-Free, twists on easily, works with all Liberty speaker cable
- Works with any speaker plug-in plate format or design
- For in-wall and non in-wall audio applications
- Fits stud sizes #5, #10, Metric M3, M5, M6
- Shipped in packages of 25

APPLICATION:
- Spade Lug threaded attachment for Audio ConnecTec Compression Bases
- Works with all Liberty speaker cable

RoHS GRADE | BEST

AUDIO CONNECTEC AUDIO ANGLE PIN - GOLD PLATED
CM-APAP

FEATURES & BENEFITS:
- Strip-Free, twists on easily, works with all Liberty speaker cable
- Works with any speaker plug-in plate format or design
- For in-wall and non in-wall audio applications
- Shipped in packages of 25

APPLICATION:
- Angle Pin threaded attachment for Audio ConnecTec Compression Bases
- Works with all Liberty speaker cable

RoHS GRADE | BEST

AUDIO CONNECTEC AUDIO BANANA PLUG - GOLD PLATED
CM-A-16

FEATURES & BENEFITS:
- Strip-Free, twists on easily, works with all Liberty speaker cable
- Works with any speaker plug-in plate format or design
- For in-wall and non in-wall audio applications
- Shipped in packages of 25

APPLICATION:
- Banana Plug threaded attachment for Audio ConnecTec Compression Bases
- Works with all Liberty speaker cable

RoHS GRADE | BEST

COMPRESSION FIT PAIR RED/BLK BANANA PLUGS
ZB03

FEATURES & BENEFITS:
- Gold plated contact surfaces
- Pairs banded with red and black for positive and negative signals
- Hand twist compression style connector, requires no tools
- Sold in packs of 5 pairs

APPLICATION:
- Speaker Termination Connectors

RoHS GRADE | BETTER

AUDIO CONNECTEC AUDIO BANANA AUDIO JACK- GOLD PLATED
CM-APBJ

FEATURES & BENEFITS:
- Can be installed into a custom PanelCrafters® plate or snapped into an industry standard keystone plate to finish any speaker installation
- Shipped in packages of 25

APPLICATION:
- Audio ConnecTec banana audio jack threaded attachment

RoHS GRADE | BEST

DON'T FORGET THE SPEAKER CABLE!

PAGES 4-5

- DISTRIBUTED AUDIO
- AMPLIFIED AUDIO
- VOLUME CONTROL
- DIRECT BURIAL

NEUTRIK 3-PIN XLR MALE CONNECTOR
NC3MXX

FEATURES & BENEFITS:
- Shell threads internal vice external
- Improved chuck-type strain relief increases retention
- New ergonomic latch lock design
- Female connector 360 degree contact "cage" design.
- Male connector with internal latch vice "window"

APPLICATION:
- New and Improved Solder termination XLR 3-Pin male connector for twisted shielded broadcast audio cable between 22 and 26 AWG

✓ RoHS

NEUTRIK 3-PIN XLR FEMALE CONNECTOR
NC3FXX

FEATURES & BENEFITS:
- Shell threads internal vice external
- Improved chuck-type strain relief increases retention
- New ergonomic latch lock design
- Female connector 360 degree contact "cage" design.
- Male connector with internal latch vice "window"

APPLICATION:
- New and Improved Solder termination XLR 3-Pin female connector for twisted shielded broadcast audio cable between 22 & 26 AWG

✓ RoHS

3.5 MM PLUG, 3C SOLDER, NICKEL
30-484

FEATURES & BENEFITS:
- Tip, ring, and sleeve
- Brass body with nickel plating, clear PVC insulator tube
- Nickel spring strain relief
- Crimp style strain relief with threaded body

APPLICATION:
- 3.5mm Mini-Stereo Shielded Plug

✓ RoHS

NEUTRIK 1/4 PLUG 3C NICKEL
NP3C

FEATURES & BENEFITS:
- 1/4" Stereo plug
- Nickel contacts & shell
- Solder style
- Stereo (3-contacts)

APPLICATION:
- Neutrik 1/4" plug - 3 conductor

✓ RoHS

3.5MM (1/8TH INCH) TIP-RING-SLEEVE MALE PLUG
F-12

FEATURES & BENEFITS:
- Solder style, nickel plated connector and contacts
- Heavy duty body and strain relief for large diameter cable
- Clamp style strain relief with flexible spring
- Black insulator included for ground isolation

APPLICATION:
- Large Diameter (7mm) Audio cables
- Balanced MONO Audio or Unbalanced STEREO AUDIO
- InfraRed, RS-232C

✓ RoHS

GOLD PLATED RCA
ZD06-COLOUR

FEATURES & BENEFITS:
- Gold-Plated RCA for STP and COAX
- Black, Red, White, or Yellow Finish Barrel with Spring Strain Relief
- 4.0mm. Red, White, Yellow

APPLICATION:
- Audio/video connectors

✓ RoHS

DON'T FORGET AUDIO & SECURITY CABLE!
PAGES 12-15

- BALANCED & UNBALANCED
- MULTI-PAIR AUDIO BROADCAST
- MULTI-PAIR SHIELDED CABLE
- IR AND RS-232 CONTROL

AUDIO/VISUAL SOLUTIONS

DON'T SEE EVERYTHING YOU NEED?

GO TO WWW.LIBAV.COM FOR OUR FULL LINE OF AV PRODUCTS & SOLUTIONS!

Liberty AV Solutions is dedicated to the profitability of professional integrators all over **the world.** Our **vast AV product offering** makes it easy to get the job done with the right products for the right value. From **racks** specifically designed for AV equipment to **bulk cable,** C-Tec[2] and audio **connectors** that terminate in seconds, **digital devices** to propel you into the digital sunrise, and **professional tools** to make your job easier...we have it all!

Not to mention a seriously **powerful website** which integrates simple ordering with a smart interface that remembers you and your needs the way really great business partner should.

Our **custom kitting, cable bundling & printing** are just a few of the **LibertyEdge** services we offer, all designed to help you and your business stay successful and continue to grow.

Improve your profitability from source to display! That's our commitment to you.

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RESIDENTIAL WIRE SCHEDULE

Signal	Type	LWC P/N	Description (Fixed Install)	Diameter (Inch)	(mm)	Rating NEC	Grade	Mating Connector Balanced	Unbalanced	Crimp BNC
Audio (Non Speaker)										
Analog Audio	Balanced or Unbalanced	22-2P-SIAM-EZ	22 AWG 2 Pair Individually shielded Zip Broadcast Audio	0.275	7.0	CM	Best	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Balanced or Unbalanced	22-2P-SHEX	22 AWG 2 Pair Individually shielded ExtraFlex™	0.260	6.6	CL3R	Better	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Balanced or Unbalanced	22-2P-INDSH	22 AWG 2 Pair Individually shielded General Purpose	0.175	4.4	CMR	Good	NC3FXX, NC3MXX	ZD06-color	
Digital or Analog Audio	Unbalanced (Coaxial)	18-CMR-SD	RG6/U High Definition Serial Digital Coaxial Cable	0.272	6.9	CMR	Best	N/A	CM-RG6L series	112957
Digital or Analog Audio	Unbalanced (Coaxial)	20-CMR-VIDEO	RG59/U High Definition Serial Digital Coaxial Cable	0.236	6.0	CMR	Better	N/A	CM-RG59M series	112951
Digital or Analog Audio	Unbalanced (Coaxial)	23-MINI-SD	Mini RG59/U High Definition Serial Digital Coaxial Cable	0.165	4.2	CM	Best	N/A	CM-RGB23 series	112955
Control										
Universal Control	AMX/CRESTRON	LLINX-U	Ultralow Capacitance 105Ω twisted shielded pair with 18/2 power	0.246	6.2	CM	Best	OEM specific		
General Control	RS-232 Control	24-4P-SH-LIBII	Low Capacitance 24/4P stranded shielded control/data cable	0.210	5.3	CM	Best	DB9M, DB9F		
DATA										
Non LAN Data	RS232-RS485	24-2P-485	24 AWG 2 Pair twisted double shielded low capacitance 120Ω	0.326	8.3	CM	Best	NC5MXX, NC5FXX		
Non LAN Data	RS-232 Control	24-4P-SH-LIBII	Low Capacitance 24/4P stranded shielded control/data cable	0.210	5.3	CM	Good	DB9M, DB9F		
LAN Data	Category 6	24-4P-L6-EN	23 AWG 4 Pair UTP Third Party verified Category 6	0.220	5.6	CMR	Best	100 011LW		
LAN Data	Category 5e	24-4P-L5-EN	24 AWG 4 Pair UTP Third Party verified Category 5e	0.197	5.0	CMR	Good	100 003B		
Fibre										
Single Mode Fibre	Riser Single Mode	*FRISM-	* = Fiber count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNR	Best	95-200 series		
Multi Mode Fiber	Riser 62.5/125 Style	*FRIMM6-	* = Fiber count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNR	Best	95-000 series		
Multi Mode Fiber	Riser 50/125 Style	*FRIMM5-	* = Fiber count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNR	Best	95-050 series		
Laser Optimized MM	Riser 50/125 Style Laser Optimized	*FRIMM10-	* = Fiber count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNR	Best	95-050 * -X series		
Intercom										
Analog Audio	Under 1000 Feet	20-2C-SH	20 AWG 2 Conductor twisted shielded general purpose	0.154	3.9	CMR	Good	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Over 1000 Feet	18-2C-SH	18 AWG 2 Conductor twisted shielded general purpose	0.169	4.3	CMR	Good	NC3FXX, NC3MXX	ZD06-color	
DC Power										
Remote Power Supply	Dependent wattage + distance	22-2C-GRY	22 AWG 1 Pair twisted unshielded general purpose	0.137	3.5	CMR	Good			
Remote Power Supply	Dependent wattage + distance	18-2C-GRY	18 AWG 2 Conductor twisted unshielded general purpose	0.169	4.3	CMR	Good			
RF										
Low Loss 50 Ohm	Wireless Networking	RG58-CMR	19 AWG Low Loss RG58 Riser 50Ω	0.195	5.0	CMR	Best	N/A	112116	112116
Low Loss 50 Ohm	Wireless Networking	RG8-CMR-BLK	Low Loss flexible Coaxial WBC series in outdoor, Riser constructions	0.405	10.3	CMR	Best	N/A	112563	112563
Video										
Analog Video	Composite Video	RG6-CCTV-CM	RG6/U Base Band Video Cable	0.264	6.7	CM	Best	N/A	CM-RG6L series	112957
Analog Video	Composite Video	RG59-CCTV-CM	RG59/U Base Band Video Coaxial Cable	0.242	6.1	CM	Best	N/A	CM-RG59M series	112951
Analog Video	S-Video	23-YCLL-SIAM	Mini RG59/U 23 AWG High Definition Serial Digital Coaxial Cable x 2	0.328	8.3	CM	Best	N/A	CM-RGB23 series	112955
Analog Video	S-Video	SV-25-CM	25 AWG Solid 2 Coaxial jacketed S-Video Cable (flat)	0.270	6.9	CM	Best	N/A	CM-RGB25S series	112491-10
Analog Video	S-Video	SV-PVC	26 AWG Stranded 2 Coaxial jacketed S-Video Cable (flat)	0.270	6.9	CL2	Best	N/A	CM-RGB26 series	112491-10
Analog Video	YPbPr Component and HD Component	RGB3C-20-CMR	RG59/U High Definition Serial Digital x 3 Conductor jacketed	0.630	16.0	CMR	Best	N/A	CM-RG59M series	112951
Analog Video	YPbPr Component and HD Component	RGB3C-23-CM	Mini RG59/U High Definition Serial Digital Coaxial Cable x 3 Jacketed	0.415	10.5	CM	Better	N/A	CM-RGB23 series	112955
Analog Video	YPbPr Component and HD Component	RGB3-MINI	Mini RG59/U base band Coaxial Cable x 3 Jacketed	0.401	10.2	CMR	Best	N/A	CM-RGB23 series	112955
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5C-23-CM	Mini RG59/U High Definition Serial Digital Coaxial Cable x 5 Jacketed	0.550	14.0	CM	Best	N/A	CM-RGB23 series	112955
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5-MINI	Mini RG59/U base band Coaxial Cable x 5 Jacketed	0.500	12.7	CMR	Best	N/A	CM-RGB25 series	112955
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5C-PVC	26 AWG Stranded 5 Coaxial jacketed RGBHV Cable	0.350	8.9	CL2	Best	N/A	CM-RGB26 series	112491-10
Analog Video	RGBHV Video ID/DDC Compliant	RGB6C/22-2P	26 AWG stranded 6 Coaxial plus 2 pair control	0.410	10.4	CL2	Best	N/A	CM-RGB26 series	112491-10
Analog Video	Low Skew UTP	TRUPHASE	23 AWG 4 Pair UTP Low Skew Video Cable	0.205	5.2	CMR	Best	100 011LW	N/A	
Analog Video	CATV	RG6-CM	RG6/U CCS Dual Shield CATV 3.0 GHz	0.272	6.9	CM	Best	N/A	CM-RG6L series	112957
Digital Video	DBS/Broadband	QUADFLEX-BC	RG6/U Quad Shield Bare Copper CATV 3.0 GHz	0.287	7.3	CM	Best	N/A	CM-RG6L series	
Digital Video	SMPTE Standards	18-CMR-SD	RG6/U High Definition Serial Digital Coaxial Cable	0.272	6.9	CMR	Best	N/A	CM-RG6L series	112957
Digital Video	SMPTE Standards	20-CMR-VIDEO	RG59/U High Definition Serial Digital Coaxial Cable	0.236	6.0	CMR	Best	N/A	CM-RG59M series	112951
Voice/Phone										
Telephone/Voice	Low speed Data, telephone, DSL	24-4P-L5-EN	24 AWG 4 Pair UTP Third Party verified Category 5e	0.197	5.0	CMR	Best	100 003B	N/A	
Telephone/Voice	Low speed Data, telephone, DSL	24-2P-L3	24 AWG 2 Pair UTP Third Party verified Category 3	0.150	3.8	CMR	Better	100 026LW		
Telephone/Voice	Low speed Data, telephone, DSL	22-4C-SO-HT	22 AWG 4 Conductor Solid Station wire	0.152	3.9	CMG	Best			
Security										
Camera	Pan-Tilt-Zoom (PTZ) Applications	RG59CM-18-2C	Baseband RG59/U siamesed with 18/2C Control/Power	0.468	11.9	CM	Best	N/A	CM-RG59M series	112951
Sensor/General	DC Power, Sensor, System	22-4C-ST-HT	22 AWG 4 Conductor twisted unshielded general purpose	0.142	3.6	CMG	Best			
Speaker				(Inch)	(mm)	NEC		Balanced	Unbalanced	Crimp BNC
Speaker	Amplifed Audio	12-1P-UC	THX™ Certified 12 AWG 1 Pair Ultra-Low Capacitance twisted unshielded	0.389	9.9	CL3R	Best		CM-A-12	
Speaker	Amplifed Audio	12-2P-UC	THX™ Certified 12 AWG 2 Pair Ultra-Low Capacitance twisted unshielded	0.478	12.1	CL3R	Best		CM-A-12	
Speaker	Amplifed Audio	14-1P-UC	THX™ Certified 14 AWG 1 Pair Ultra-Low Capacitance twisted unshielded	0.347	8.8	CL3R	Best		CM-A-14	
Speaker	Amplifed Audio	14-2P-UC	THX™ Certified 14 AWG 2 Pair Ultra-Low Capacitance twisted unshielded	0.408	10.4	CL3R	Best		CM-A-14	
Speaker	Amplifed Audio	16-1P-UC	THX™ Certified 16 AWG 1 Pair Ultra-Low Capacitance twisted unshielded	0.283	7.2	CMR	Best		CM-A-16	
Speaker	Amplifed Audio	10-2C-EX+	10 AWG 2 Conductor High Strand OFC twisted unshielded	0.412	10.5	CL2	Better		CM-A-12	
Speaker	Amplifed Audio	12-2C-EX+	12 AWG 2 Conductor High Strand OFC twisted unshielded	0.327	8.3	CL3	Better		CM-A-12	
Speaker	Amplifed Audio	12-4C-EX+	12 AWG 4 Conductor High Strand OFC twisted unshielded	0.378	9.6	CL3	Better		CM-A-12	
Speaker	Amplifed Audio	14-2C-EX+	14 AWG 2 Conductor High Strand OFC twisted unshielded	0.287	7.3	CL3	Better		CM-A-14	
Speaker	Amplifed Audio	14-4C-EX+	14 AWG 4 Conductor High Strand OFC twisted unshielded	0.335	8.5	CL3	Better		CM-A-14	
Speaker	Amplifed Audio	16-2C-EX+	16 AWG 2 Conductor High Strand OFC twisted unshielded	0.255	6.5	CM	Better		CM-A-16	
Speaker	Amplifed Audio	16-4C-EX+	16 AWG 4 Conductor High Strand OFC twisted unshielded	0.291	7.4	CM	Better		CM-A-16	
Speaker	Amplifed Audio	14-2C-KO+	14 AWG 2 Conductor High Strand KnockOut twisted unshielded	0.268	6.8	CL3	Better		CM-A-14	
Speaker	Amplifed Audio	14-4C-KO+	14 AWG 4 Conductor High Strand KnockOut twisted unshielded	0.313	8.0	CL3	Better		CM-A-14	
Speaker	Amplifed Audio	16-2C-KO+	16 AWG 2 Conductor High Strand KnockOut twisted unshielded	0.231	5.9	CM	Better		CM-A-16	
Speaker	Amplifed Audio	16-4C-KO+	16 AWG 4 Conductor High Strand KnockOut twisted unshielded	0.280	7.1	CM	Better		CM-A-16	
Speaker	Amplifed Audio	14-2C-HT	14 AWG 2 Conductor HomeTrax™ twisted unshielded	0.222	5.6	CL3	Good		CM-A-14	
Speaker	Amplifed Audio	14-4C-HT	14 AWG 4 Conductor HomeTrax™ twisted unshielded	0.262	6.7	CL3	Good		CM-A-14	

RESIDENTIAL WIRE SCHEDULE

Signal	Type	LWC P/N	Description (Fixed Install)	Diameter (Inch)	(mm)	Rating NEC	Grade	Mating Connector Balanced	Unbalanced	Crimp BNC
Speaker	Amplifed Audio	16-2C-HT	16 AWG 2 Conductor HomeTrax™ twisted unshielded	0.191	4.9	CMG	Good		CM-A-16	
Speaker	Amplifed Audio	16-4C-HT	16 AWG 4 Conductor HomeTrax™ twisted unshielded	0.224	5.7	CMG	Good		CM-A-16	
Specialty										
Multipurpose	Projector Application	RGB6C/22-2P	26 AWG stranded 6 Coaxial plus 2 pair control Jacketed	0.410	10.4	CL2	Best		CM-RGB26 series	112491-10
Multipurpose	Retrofit Applications	RGB6C-25-2L5E	25 AWG Solid 6 Coaxial + 2 Cat5e UTP Jacketed	0.533	13.5	CM	Best		CM-RGB25S series	112491-10
Multipurpose	Retrofit Applications	RGB6C-20/2L5E	20 AWG Solid 6 Coaxial + 2 Cat5e UTP Jacketed	0.960	24.4	CMR	Best		CM-RG59M series	112951
Multipurpose	Rack Interconnection	23-MINI-SD	Mini RG59/U 23 AWG High Definition Serial Digital Coaxial Cable	0.165	4.2	CM	Best		CM-RGB23 series	112955
Analog Audio	Microphone	24-2P-STAR-BLK	24 AWG 2 Pair Star Quad style extra flexible Mic cable	0.240	6.1	CM	Best	NC3MXX, NC3FXX		
Lighting Control										
Lighting Control	Lutron Systems Grafik Eye	LUTRON-GRN	22 AWG Shielded Pair+18 AWG Pair Green Stripe	0.230	5.8	CM	Best			
Lighting Control	Lutron Systems Grafik Eye 4000/5000/6000	LUTRON-RBL	22 AWG Shielded Pair+12 AWG Pair+18 AWG Sensor Blue stripe	0.300	7.6	CL3	Best			
Lighting Control	Lutron Systems Sivoia QED Control	LUTRON-RED	18 AWG Shielded Quad+18 AWG Sensor+16 AWG Pair Red Stripe	0.340	8.6	CL3	Best			
Lighting Control	Lutron Systems Keypad	LUTRON-YEL	22 AWG Shielded Pair + 18 AWG Pair Yellow Stripe	0.230	5.8	CM	Best			
Lighting Control	Lutron System EcoSystem™ Bus Cable	LUTRON-EBC	16 AWG 1 Pair twisted unshielded White jacket (Dual AWM 600V rating)	0.283	7.2	CM	Best			
Lighting Control	Lutron System EcoSystem™ Sensor Cable	LUTRON-ESC	4 AWG 5 Conductor twisted shielded white jacket (Dual AWM 600V rating)	0.293	7.4	CM	Best			
Lighting Control	DMX Control	24-2P-485	24 AWG 2 Pair twisted double shielded low capacitance 120Ω	0.326	8.3	CM	Best	NC5MXX, NC5FXX		
Composite										
Structured Cabling	Smart Home Composite	CEBUS+-2N2	2xRG6 High Def+2xCat6 UTP Jacketed	0.689	17.5	CM	Best	100 011LW	CM-RG6L series	
Structured Cabling	Smart Home Composite	CEBUS-2N2-J-LBL	2xRG6 Bare Copper Quad+2xCat5e UTP Jacketed	0.670	17.0	CMG	Better	100 003B	CM-RG6L series	
Structured Cabling	Smart Home Composite	CEBUS-CM-F-J	2xRG6 Bare Copper Quad+2xCat5e UTP+2 Multimode Fiber Jacketed	0.670	17.0	CMG	Best	100 003B	CM-RG6L series	
Specialty										
Multipurpose	Rack Interconnection	INTERFLEX-SD	RG59/U High Definition Serial Digital Coaxial Cable	0.236	6.0	N/A	Best		CM-RG59M Series	112951
Coax Connectors										
Compression Style	C-Tec2 Mini High Resolution 25 AWG Solid	CM-RGB25S-xxx	Nickel Plated RCA, Nickel Plated BNC, and Gold Plated RCA							
Compression Style	ConnecTec™ Mini Hi-Res 26 AWG	CM-RGB26-xxx	Nickel and Gold Plated RCA, Nickel and Gold Plated BNC							
Compression Style	C-Tec2 Mini RG59 23 AWG	CM-RGB23-xxx	Nickel Plated RCA, Nickel Plated BNC, and Gold Plated RCA							
Compression Style	C-Tec2 Universal RG59	CM-RG59M-xxx	Nickel Plated RCA, BNC, and F							
Compression Style	C-Tec2 Universal RG6 Plenum	CM-RG6M-xxx	Nickel Plated RCA, BNC, and F							
Compression Style	C-Tec2 Universal RG6 PVC	CM-RG6L-xxx	Nickel Plated RCA, BNC, and F							
Crimp Style	Amphenol Connex	112491-10	4-Piece 75 Ohm Crimp BNC for 26 AWG mini Hi-Res Coaxial							
Crimp Style	Amphenol Connex	112955	3-Piece 75 Ohm Crimp BNC for 25 & 23 AWG mini Hi-Res Coaxial							
Crimp Style	Amphenol Connex	112951	3-Piece 75 Ohm Crimp BNC for RG59 Dual Shield							
Crimp Style	Amphenol Connex	112957	3-Piece 75 Ohm Crimp BNC for RG6 Dual Shield							
Solder Style	Liberty	ZD06-*	RCA Plug, Black Metal Body, Gold contacts 4mm cable							
Crimp Style	Liberty	MHR-RCA	3-Piece Crimp RCA for Mini High Res Coax (26/25 AWG)							

COMMERCIAL PLENUM WIRE SCHEDULE

Signal	Type	LWC P/N	Description (Fixed Install)	Diameter (Inch)	(mm)	Rating NEC	Grade	Mating Connector Balanced	Unbalanced	Crimp BNC
Audio (Non Speaker)										
Analog Audio	Balanced or Unbalanced	24-1P-P-DIG-AUDIO	24 AWG 1 Pair twisted shielded ultra-low Capacitance AES/EBU	0.170	4.3	CMP	Best	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Balanced or Unbalanced	22-1P-CMP-EZ	22 AWG 1 Pair twisted shielded Low Capacitance Broadcast Audio	0.130	3.3	CMP	Better	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Balanced or Unbalanced	22-2C-PSH	22 AWG 1 Pair twisted shielded plenum	0.116	2.9	CMP	Good	NC3FXX, NC3MXX	ZD06-color	
Digital or Analog Audio	Unbalanced (Coaxial)	18-CMP-VID-COAX	RG6/U High Definition Serial Digital Coaxial Cable	0.237	6.0	CMP	Best		CM-RG6M series	112519
Digital or Analog Audio	Unbalanced (Coaxial)	20-CMP-VID-COAX	RG59/U High Definition Serial Digital Coaxial Cable	0.207	5.3	CMP	Better		CM-RG59M series	112975
Digital or Analog Audio	Unbalanced (Coaxial)	23-MINI-CMP	Mini RG59/U Serial Digital Coaxial Cable	0.159	4.0	CMP	Good		CM-RGB23 series	112955
Digital Audio	Balanced	24-1P-P-DIG-AUDIO	24 AWG 1 Pair twisted shielded ultra-low Capacitance AES/EBU	0.170	4.3	CMP	Best	NC3FXX, NC3MXX	ZD06-color	
Control										
Universal Control	AMX/CRESTRON	LLINX-U-P	Low Capacitance 105Ω twisted shielded pair with 18/2 power	0.205	5.2	CMP	Best			
General Control	RS-232 Control	24-4P-PLCSH	Low Capacitance 24/4P stranded shielded control/data cable	0.210	5.3	CMP	Best	DB9M, DB9F		
General Control	RS-232 Control	22-2C-PSH	22 AWG 1 Pair twisted shielded plenum	0.116	2.9	CMP	Good	DB9M, DB9F	ZD06-color	
DATA										
Non LAN Data	RS232-RS485	24-2P-P485-WHT	24 AWG 2 Pair twisted double shielded Ultra-low capacitance 120Ω	0.277	7.0	CMP	Best	DB9M, DB9F		
Non LAN Data	RS-232 Control	24-4P-PLCSH	Low Capacitance 24/4P stranded shielded control/data cable	0.210	5.3	CMP	Best	DB9M, DB9F		
LAN Data	Category 6	24-4P-P-L6-EN	23 AWG 4 Pair UTP Third Party verified Category 6	0.215	5.5	CMP	Best	100 011LW		
LAN Data	Category 5e	24-4P-P-L5-EN	24 AWG 4 Pair UTP Third Party verified Category 5e	0.180	4.6	CMP	Best	100 003B		
Fibre										
Single Mode Fibre	Plenum Single Mode	*FPISM-	* = Fibre count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNP	Best	95-200 series		
Multi Mode Fibre	Plenum 62.5/125 Style	*FPIMM6-	* = Fibre count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNP	Best	95-000 series		
Multi Mode Fibre	Plenum 50/125 Style	*FPIMM5-	* = Fibre count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNP	Best	95-050 series		
	Plenum 50/125 Style Laser Optimized	*FPIMM10-	* = Fibre count, Suffix D = Distribution, B0 = Breakout, many styles	Varies		OFNP	Best	95-050 * -X series		
Intercom										
Analog Audio	Under 1000 Feet	22-1P-CMP-EZ	22 AWG 1 Pair twisted shielded Low Capacitance Broadcast Audio	0.130	3.3	CMP	Best	NC3FX, NC3MX	ZD06-color	
Analog Audio	Under 1000 Feet	20-2C-PSH	20 AWG 2 Conductor twisted shielded plenum	0.130	3.3	CMP	Best	NC3FX, NC3MX	ZD06-color	
Analog Audio	Over 1000 Feet	18-2C-PSH	18 AWG 2 Conductor twisted shielded plenum	0.156	4.0	CMP	Better	NC3FX, NC3MX	ZD06-color	
DC Power										
Remote Power Supply	Dependent wattage + distance	22-2C-P	22 AWG 1 Pair twisted unshielded plenum	0.114	2.9	CMP	Good			
Remote Power Supply	Dependent wattage + distance	18-2C-P	18 AWG 2 Conductor twisted unshielded plenum	0.154	3.9	CMP	Good			
RF										
Low Loss 50 Ohm	Wireless Networking	RG58-CMP	19 AWG Low Loss RG58 Plenum 50Ω	0.178	4.5	CMP	Best			112128
Low Loss 50 Ohm	Wireless Networking	RG8-CMP-WHT	Low Loss flexible Coaxial WBC RG8 Plenum	0.355	9.0	CMP	Best			112627
Video										
Analog Video	Composite Video	RG6-CCTV-PL	RG6/U Base Band Video Cable	0.229	5.8	CMP	Best		CM-RG6M series	112519
Analog Video	Composite Video	RG59-CCTV-PL	RG59/U Base Band Video Coaxial Cable	0.193	4.9	CMP	Better		CM-RG59M series	112975

COMMERCIAL PLENUM WIRE SCHEDULE

Signal	Type	LWC P/N	Description (Fixed Install)	Diameter	Rating	Grade	Mating Connector	
Video (continued)								
Analog Video	S-Video	SV-25-CMP	25 AWG Solid 2 Coaxial jacketed S-Video Cable (flat)	0.240	6.1	CMP	Best	CM-RGB25S series 112491-10
Analog Video	S-Video	SV-PLN	26 AWG Stranded 2 Coaxial jacketed S-Video Cable (flat)	0.230	5.8	CL2P	Better	CM-RGB26 series 112491-10
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5C-25-CMP	Mini RG59/U base band Coaxial Cable x 5 Jacketed	0.315	8.0	CMP	Best	CM-RGB25S series 112491-10
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5C-PLN	26 AWG Stranded 5 Coaxial jacketed RGBHV Cable	0.300	7.6	CMP	Better	CM-RGB26 series 112491-10
Analog Video	RGBHV Video ID/DDC Compliant	RGB6C-25/22-2P-CMP	25 AWG solid 6 Coaxial plus 2 pair control	0.370	9.4	CMP	Best	CM-RGB25S series 112491-10
Analog Video	RGBHV Video ID/DDC Compliant	RGB6C/22-2P-PLN	26 AWG stranded 6 Coaxial plus 2 pair control	0.370	9.4	CMP	Better	CM-RGB26 series 112491-10
Analog Video	No Skew UTP	TRUPHASE-P	23 AWG 4 Pair UTP Low Skew Video Cable	0.170	4.3	CMP	Best	100 011LW
Analog Video	CATV	RG6-QUAD-CMP	RG6/U CCS Quad Shield CATV 3.0 GHz	0.268	6.8	CMP	Best	CM-RG6M series
Analog Video	CATV	RG6-P-CATV	RG6/U CCS Dual Shield CATV 3.0 GHz	0.239	6.1	CMP	Best	CM-RG6M series 112958
Digital Video	SMPTE Standards/DBS Broadband	18-CMP-VID-COAX	RG6/U High Definition Serial Digital Coaxial Cable	0.237	6.0	CMP	Best	CM-RG6M series 112958
Digital Video	SMPTE Standards/DBS Broadband	20-CMP-VID-COAX	RG59/U High Definition Serial Digital Coaxial Cable	0.207	5.3	CMP	Best	CM-RG59M series 112957
Voice/Phone								
Telephone/Voice	Low speed Data, telephone, DSL	24-4P-P-L5-EN	24 AWG 4 Pair UTP Third Party verified Category 5e	0.180	4.6	CMP	Best	100 003B
Telephone/Voice	Low speed Data, telephone, DSL	24-2P-P-L3	24 AWG 2 Pair UTP Third Party verified Category 3	0.133	3.4	CMP	Better	100 026LW
Telephone/Voice	Low speed Data, telephone, DSL	22-4C-SOL-P	22 AWG 4 Conductor Solid Station wire	0.117	3.0	CMP	Good	
Security								
Camera	Pan-Tilt-Zoom (PTZ) Applications	RGS9-18/2C-PS	Baseband RGS9/U siamesed with 18/2C Control/Power (Zip)	0.380	9.7	CMP	Best	CM-RG59M series 112519
Sensor/General	DC Power, Sensor, System	22-4C-P	22 AWG 4 Conductor twisted unshielded plenum	0.144	3.7	CMP	Good	
Speaker								
Speaker	Amplifed Audio	10-2C-TTP	10 AWG 2 Conductor twisted unshielded plenum	0.323	8.2	CL2P	Best	CM-A-12
Speaker	Amplifed Audio	12-2C-TTP	12 AWG 2 Conductor twisted unshielded Tight-Tube plenum	0.257	6.5	CL2P	Best	CM-A-12
Speaker	Amplifed Audio	12-2C-P	12 AWG 2 Conductor twisted unshielded plenum	0.258	6.6	CL3P	Better	CM-A-12
Speaker	Amplifed Audio	14-2C-TTP	14 AWG 2 Conductor twisted unshielded Tight-Tube plenum	0.216	5.5	CL2P	Best	CM-A-14
Speaker	Amplifed Audio	14-2C-P	14 AWG 2 Conductor twisted unshielded plenum	0.210	5.3	CL3P	Better	CM-A-14
Speaker	Amplifed Audio	16-4C-TTP	16 AWG 4 Conductor twisted unshielded Tight-Tube plenum	0.217	5.5	CMP	Best	CM-A-16
Speaker	Amplifed Audio	16-2C-P	16 AWG 2 Conductor twisted unshielded plenum	0.190	4.8	CMP	Better	CM-A-16
Speaker	Amplifed Audio	18-4C-TTP	18 AWG 4 Conductor twisted unshielded plenum	0.195	5.0	CMP	Best	
Speaker	Amplifed Audio	18-2C-P	18 AWG 2 Conductor twisted unshielded plenum	0.154	3.9	CMP	Better	
Specialty								
Multipurpose	Projector Application	RGB6C-25/22-2P-CMP	25 AWG Solid 6 Coaxial plus 2 pair control	0.370	9.4	CL2P	Better	CM-RGB25S series 112491-10
Multipurpose	Projector Application	RGB6C/22-2P-PLN	26 AWG stranded 6 Coaxial plus 2 pair control	0.370	9.4	CL2P	Good	CM-RGB26 series 112491-10
Multipurpose	Projector Application	RGB6C/22-2P-PLN	26 AWG stranded 6 Coaxial plus 2 pair control	0.370	9.4	CL2P	Good	CM-RGB26 series 112491-10
Lighting Control								
Lighting Control	Lutron Systems Grafik Eye	LUTRON-P-GRN	22 AWG Shielded Pair+18 AWG Pair Green Stripe	0.195	5.0	CMP	Best	
Lighting Control	Lutron Systems Grafik Eye 4000/5000/6000	LUTRON-P-RBL	22 AWG Shielded Pair+12 AWG Pair+18 AWG Sensor Blue stripe	0.272	6.9	CL3P	Best	
Lighting Control	Lutron Systems Sivoia QED Control	LUTRON-P-RED	18 AWG Shielded Quad+18 AWG Sensor+16 AWG Pair Red Stripe	0.322	8.2	CL3P	Best	
Lighting Control	Lutron Systems Grafik Eye Keypad	LUTRON-P-YEL	22 AWG Shielded Pair + 18 AWG Pair Yellow Stripe	0.195	5.0	CMP	Best	
Lighting Control	Lutron System EcoSystem™ Bus Cable	LUTRON-P-EBC	16 AWG 1 Pair twisted unshielded plenum clear jacket	0.158	4.0	CMP	Best	
Lighting Control	Lutron System EcoSystem™ Sensor Cable	LUTRON-P-ESC	22 AWG 5 Conductor twisted shielded plenum clear jacket	0.134	3.4	CMP	Best	
Lighting Control	Vantage	16-2C-P-VAN	16 AWG Mid Capacitance twisted pair	0.195	5.0	CMP	Best	
Lighting Control	DMX Control	24-2P-P485-WHT	24 AWG 2 pair dual shielded RS-485 Cable	0.277	7.0	CMP	Best	NC5MXX, NC5FXX
Coax Connectors								
Compression Style	C-Tec2 Mini High Resolution 25 AWG Solid	CM-RGB25S-xxx	Nickel Plated RCA, Nickel Plated BNC, and Gold Plated RCA					
Compression Style	ConneCTec™ Mini Hi-Res 26 AWG	CM-RGB26-xxx	Nickel and Gold Plated RCA, Nickel and Gold Plated BNC					
Compression Style	C-Tec2 Mini RG59 23 AWG	CM-RGB23-xxx	Nickel Plated RCA, Nickel Plated BNC, and Gold Plated RCA					
Compression Style	C-Tec2 Universal RG59	CM-RG59M-xxx	Nickel Plated RCA, BNC, and F					
Compression Style	C-Tec2 Universal RG6 Plenum	CM-RG6M-xxx	Nickel Plated RCA, BNC, and F					
Compression Style	C-Tec2 Universal RG6 PVC	CM-RG6L-xxx	Nickel Plated RCA, BNC, and F					
Crimp Style	Amphenol Connex	112491-10	4-Piece 75 Ohm Crimp BNC for 26 AWG mini Hi-Res Coaxial					
Crimp Style	Amphenol Connex	112955	3-Piece 75 Ohm Crimp BNC for 23-MINI-CMP					
Crimp Style	Amphenol Connex	112975	3-Piece 75 Ohm Crimp BNC for 20-CMP-VIDEO					
Crimp Style	Amphenol Connex	112958	3-Piece 75 Ohm Crimp BNC for 18-CMP-VID-COAX					
Solder Style	Liberty	ZD06-*	RCA Plug, Black Metal Body, Gold contacts 4mm cable					
Crimp Style	Liberty	MHR-RCA	3-Piece Crimp RCA for Mini High Res Coax (26/25 AWG)					

COMMERCIAL NON-PLENUM WIRE SCHEDULE

Signal	Type	LWC P/N	Description (Fixed Install)	Diameter (Inch)	(mm)	Rating NEC	Grade	Balanced	Unbalanced	Crimp BNC
Audio (Non Speaker)										
Analog Audio	Balanced or Unbalanced	24-1P-DIG-AUD	24 AWG 1 Pair twisted shielded ultra-low Capacitance AES/EBU	0.203	5.2	CM	Best	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Balanced or Unbalanced	22-1P-EZ	22 AWG 1 Pair twisted shielded Low Capacitance Broadcast Audio	0.142	3.6	CMR	Better	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Balanced or Unbalanced	22-2C-SH	22 AWG 1 Pair twisted shielded general purpose	0.141	3.6	CMR	Good	NC3FXX, NC3MXX	ZD06-color	
Digital or Analog Audio	Unbalanced (Coaxial)	18-CMR-SD	RG6/U High Definition Serial Digital Coaxial Cable	0.272	6.9	CMR	Best	N/A	CM-RG6L series	112957
Digital or Analog Audio	Unbalanced (Coaxial)	20-CMR-VIDEO	RG59/U High Definition Serial Digital Coaxial Cable	0.236	6.0	CMR	Better	N/A	CM-RG59M series	112951
Digital or Analog Audio	Unbalanced (Coaxial)	23-MINI-SD	Mini RG59/U 23 AWG High Definition Serial Digital Coaxial Cable	0.164	4.2	CM	Best		CM-RGB23 series	112955
Digital Audio	Balanced (AES/EBU)	24-1P-DIG-AUD	24 AWG 1 Pair twisted shielded ultra-low Capacitance AES/EBU	0.203	5.2	CM	Best	NC3FXX, NC3MXX	ZD06-color	
Control										
Universal Control	AMX/CRESTRON	LLINX-U	Ultralow Capacitance 105Ω twisted shielded pair with 18/2 power	0.246	6.2	CM	Best	OEM specific		
General Control	RS232-RS485	24-2P-485	24 AWG 2 Pair twisted double shielded ultra-low capacitance 120Ω	0.326	8.3	CM	Best	NC5MXX, NC5FXX		
General Control	RS-232 Control	24-4P-SH-LIBII	Low Capacitance 24/4P stranded shielded control/data cable	0.210	5.3	CM	Good	DB9M, DB9F		
DATA										
Non LAN Data	RS232-RS485	24-2P-485	24 AWG 2 Pair twisted double shielded low capacitance 120Ω	0.326	8.3	CM	Best	NC5FXX, NC5MXX		
Non LAN Data	RS-232 Control	24-4P-SH-LIBII	Low Capacitance 24/4P stranded shielded control/data cable	0.210	5.3	CM	Better	DB9M, DB9F		
LAN Data	Category 6	24-4P-L6-EN	23 AWG 4 Pair UTP Third Party verified Category 6	0.220	5.6	CMR	Best	100 011LW		
LAN Data	Category 5e	24-4P-L5-EN	24 AWG 4 Pair UTP Third Party verified Category 5e	0.197	5.0	CMR	Better	100 003B		

COMMERCIAL NON-PLENUM WIRE SCHEDULE (CONTINUED)

Signal	Type	LWC P/N	Description (Fixed Install)	Diameter	Rating	Grade	Mating Connector		
Fibre									
Single Mode Fibre	Riser Single Mode	*FRISM-	* = Fibre count, Suffix D = Distribution, BO = Breakout, many styles	Varies	OFNR	Best	95-200 series		
Multi Mode Fibre	Riser 62.5/125 Style	*FRIMM6-	* = Fibre count, Suffix D = Distribution, BO = Breakout, many styles	Varies	OFNR	Best	95-000 series		
Multi Mode Fibre	Riser 50/125 Style	*FRIMM5-	* = Fibre count, Suffix D = Distribution, BO = Breakout, many styles	Varies	OFNR	Best	95-050 series		
Laser Optimized MM	Riser 50/125 Style Laser Optimized	*FRIMM10-	* = Fibre count, Suffix D = Distribution, BO = Breakout, many styles	Varies	OFNR	Best	95-050 * -X series		
Intercom									
Analog Audio	Under 1000 Feet	22-1P-EZ	22 AWG 1 Pair twisted shielded Low Capacitance Broadcast Audio	0.142	3.6	CMR	Best	NC3FXX, NC3MXX	ZD06-color
Analog Audio	Under 1000 Feet	20-2C-SH	20 AWG 2 Conductor twisted shielded general purpose	0.154	3.9	CMR	Good	NC3FXX, NC3MXX	ZD06-color
Analog Audio	Over 1000 Feet	18-2C-MCSH	18 AWG 2 Conductor twisted shielded Mid-Capacitance	0.205	5.2	CM	Best	NC3FXX, NC3MXX	
Analog Audio	Over 1000 Feet	18-2C-SH	18 AWG 2 Conductor twisted shielded general purpose	0.169	4.3	CMR	Good	NC3FXX, NC3MXX	
DC Power									
Remote Power Supply	Dependent wattage + distance	22-2C-GRY	22 AWG 1 Pair twisted unshielded general purpose	0.137	3.5	CMR	Good		
Remote Power Supply	Dependent wattage + distance	18-2C-GRY	18 AWG 2 Conductor twisted unshielded general purpose	0.169	4.3	CMR	Good		
RF/Wireless									
Low Loss 50 Ohm	Wireless Networking	RG58-CMR	19 AWG Low Loss RG58 Riser 50Ω	0.195	5.0	CMR	Best	N/A	112116
Low Loss 50 Ohm	Wireless Networking	RG8-CMR	Low Loss flexible RF400 Series Riser rated and outdoor rated	0.405	10.3	CMR	Best	N/A	112563
Video									
Analog Video	Composite Video	RG6-CCTV-CM	RG6/U Base Band Video Cable	0.264	6.7	CM	Best	N/A	CM-RG6L series 112957
Analog Video	Composite Video	RG59-CCTV-CM	RG59/U Base Band Video Coaxial Cable	0.242	6.1	CM	Better	N/A	CM-RG59M series 112951
Analog Video	S-Video	23-YCLL-SIAM	Mini RG59/U 23 AWG High Definition Serial Digital Coaxial Cable x 2	0.328	8.3	CM	Best	N/A	CM-RGB23 series 112955
Analog Video	S-Video	SV-25-CM	25 AWG Solid 2 Coaxial jacketed S-Video Cable (flat)	0.270	6.9	CM	Better	N/A	CM-RGB25S series 112491-10
Analog Video	S-Video	SV-PVC	26 AWG Stranded 2 Coaxial jacketed S-Video Cable (flat)	0.270	6.9	CL2	Good	N/A	CM-RGB26 series 112491-10
Analog Video	YPbPr Component and HD Component	RGB3C-20-CMR	RG59/U High Definition Serial Digital x 3 Conductor jacketed	0.630	16.0	CMR	Best	N/A	CM-RG59M series 112951
Analog Video	YPbPr Component and HD Component	RGB3C-23-CM	Mini RG59/U High Definition Serial Digital Coaxial Cable x 3 Jacketed	0.415	10.5	CM	Best	N/A	CM-RGB23 series 112955
Analog Video	YPbPr Component and HD Component	RGB3-MINI	Mini RG59/U base band Coaxial Cable x 3 Jacketed	0.401	10.2	CMR	Good	N/A	CM-RGB25 series 112955
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5C-25-CM	25 AWG Solid 5 Coaxial jacketed RGBHV Cable	0.350	8.9	CM	Best	N/A	CM-RGB25S series 112491-10
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5-MINI	Mini RG59/U base band Coaxial Cable x 5 Jacketed	0.500	12.7	CMR	Better	N/A	CM-RGB25 series 112955
Analog Video	RGBHV Video non-ID/DDC Compliant	RGB5C-PVC	26 AWG Stranded 5 Coaxial jacketed RGBHV Cable	0.350	8.9	CL2	Good	N/A	CM-RGB26 series 112491-10
Analog Video	RGBHV Video ID/DDC Compliant	RGB6C/22-2P	26 AWG stranded 6 Coaxial plus 2 pair control	0.410	10.4	CL2	Best	N/A	CM-RGB26 series 112491-10
Analog Video	Low Skew UTP	TRUPHASE	23 AWG 4 Pair UTP Low Skew Video Cable	0.205	5.2	CMR	Best	100 011LW	N/A
Analog Video	CATV	RG6-CM	RG6/U CCS Dual Shield CATV 3.0 GHz	0.272	6.9	CM	Best	N/A	CM-RG6L series 112957
Digital Video	CATV/DBS/Broadband	QUADFLEX-BC	RG6/U Quad Shield Bare Copper CATV 3.0 GHz	0.287	7.3	CM	Best	N/A	CM-RG6L series
Digital Video	SMPTE Standards	18-CMR-SD	RG6/U High Definition Serial Digital Coaxial Cable	0.272	6.9	CMR	Best	N/A	CM-RG6L series 112957
Digital Video	SMPTE Standards	20-CMR-VIDEO	RG59/U High Definition Serial Digital Coaxial Cable	0.236	6.0	CMR	Better	N/A	CM-RG59M series 112951
Voice/Phone									
Telephone/Voice	Low speed Data, telephone, DSL	24-4P-L5-EN	24 AWG 4 Pair UTP Third Party verified Category 5e	0.197	5.0	CMR	Best	100 003B	N/A
Telephone/Voice	Low speed Data, telephone, DSL	24-2P-L3	24 AWG 2 Pair UTP Third Party verified Category 3	0.150	3.8	CMR	Better	100 026LW	
Telephone/Voice	Low speed Data, telephone, DSL	22-4C-SO-HT	22 AWG 4 Conductor Solid Station wire	0.152	3.9	CMG	Good		
Security									
Camera	Pan-Tilt-Zoom (PTZ) Applications	RG59CM-18-2C	Baseband RG59/U siamesed with 18/2C Control/Power (Flat)	0.468	11.9	CM	Best	N/A	CM-RG59M series 112951
Sensor/General	DC Power, Sensor, System	22-4C	22 AWG 4 Conductor twisted unshielded general purpose	0.158	4.0	CMR	Best		
Speaker									
Speaker	Amplifed Audio	12-2C-GRY	12 AWG 2 Conductor twisted unshielded Riser	0.274	7.0	CL3R	Best	CM-A-12	
Speaker	Amplifed Audio	14-2C-GRY	14 AWG 2 Conductor twisted unshielded Riser	0.230	5.8	CL3R	Best	CM-A-14	
Speaker	Amplifed Audio	16-2C-GRY	16 AWG 2 Conductor twisted unshielded Riser	0.183	4.6	CMR	Best	CM-A-14	
Speaker	Amplifed Audio	18-2C-GRY	18 AWG 2 Conductor twisted unshielded Riser	0.160	4.1	CMR	Best	CM-A-16	
Specialty									
Multipurpose	Projector Application	RGB6C/22-2P	26 AWG stranded 6 Coaxial plus 2 pair control Jacketed	0.410	10.4	CL2	Best	CM-RGB26 series 112491-10	
Multipurpose	Retrofit Applications	RGB6C-20/2L5E	20 AWG Solid 6 Coaxial+ 2 Cat5e UTP Jacketed	0.960	24.4	CM	Best	CM-RG59M series 112951	
Multipurpose	Retrofit Applications	RGB6C-23-2L5E	23 AWG Solid 6 Coaxial+ 2 Cat5e UTP Jacketed	0.627	15.9	CMG	Better	CM-RGB23 series 112955	
Multipurpose	Retrofit Applications	RGB6C-25-2L5E	25 AWG Solid 6 Coaxial+ 2 Cat5e UTP Jacketed	0.533	13.5	CM	Good	CM-RGB25S series 112491-10	
Multipurpose	Rack Interconnection	23-MINI-SD	Mini RG59/U 23 AWG High Definition Serial Digital Coaxial Cable	0.164	4.2	CM	Best	CM-RGB23 series 112955	
Analog Audio	Microphone	24-2P-STAR-BLK	24 AWG 2 Pair Star Quad style extra flexible Mic cable	0.240	6.1	CM	Best	NC3FXX, NC3MXX	
Lighting Control									
Lighting Control	Lutron Systems Grafik Eye	LUTRON-GRN	22 AWG Shielded Pair+18 AWG Pair Green Stripe	0.230	5.8	CM	Best		
Lighting Control	Lutron Systems Grafik Eye 4000/5000/6000	LUTRON-RBL	22 AWG Shielded Pair+12 AWG Pair+18 AWG Sensor Blue stripe	0.300	7.6	CL3	Best		
Lighting Control	Lutron Systems Sivoia QED Control	LUTRON-RED	18 AWG Shielded Quad+18 AWG Sensor+16 AWG Pair Red Stripe	0.340	8.6	CL3	Best		
Lighting Control	Lutron Systems Keypad	LUTRON-YEL	22 AWG Shielded Pair + 18 AWG Pair Yellow Stripe	0.230	5.8	CM	Best		
Lighting Control	Lutron System EcoSystem™ Bus Cable	LUTRON-EBC	16 AWG 1 Pair twisted unshielded White jacket (Dual AWM 600V rating)	0.283	7.2	CM	Best		
Lighting Control	Lutron System EcoSystem™ Sensor Cable	LUTRON-ESC	22 AWG 5 Conductor twisted shielded white jacket (Dual AWM 600V rating)	0.293	7.4	CM	Best		
Lighting Control	DMX Control	24-2P-485	24 AWG 2 Pair twisted double shielded low capacitance 120Ω	0.326	8.3	CM	Best	NC5MXX, NC5FXX	
Coax Connectors									
Compression Style	C-Tec2 Mini High Resolution 25 AWG Solid	CM-RGB25S-xxx	Nickel Plated RCA, Nickel Plated BNC, and Gold Plated RCA						
Compression Style	ConneCTec™ Mini Hi-Res 26 AWG	CM-RGB26-xxx	Nickel and Gold Plated RCA, Nickel and Gold Plated BNC						
Compression Style	C-Tec2 Mini RG59 23 AWG	CM-RGB23-xxx	Nickel Plated RCA, Nickel Plated BNC, and Gold Plated RCA						
Compression Style	C-Tec2 Universal RG59	CM-RG59M-xxx	Nickel Plated RCA, BNC, and F						
Compression Style	C-Tec2 Universal RG6 Plenum	CM-RG6M-xxx	Nickel Plated RCA, BNC, and F						
Compression Style	C-Tec2 Universal RG6 PVC	CM-RG6L-xxx	Nickel Plated RCA, BNC, and F						
Crimp Style	Amphenol Connex	112491-10	4-Piece 75 Ohm Crimp BNC for 26 AWG mini Hi-Res Coaxial						
Crimp Style	Amphenol Connex	112955	3-Piece 75 Ohm Crimp BNC for 25 & 23 AWG mini Hi-Res Coaxial						
Crimp Style	Amphenol Connex	112951	3-Piece 75 Ohm Crimp BNC for RG59 Dual Shield						
Crimp Style	Amphenol Connex	112957	3-Piece 75 Ohm Crimp BNC for RG6 Dual Shield						
Solder Style	Liberty	ZD06-*	RCA Plug, Black Metal Body, Gold contacts 4mm cable						
Crimp Style	Liberty	MHR-RCA	3-Piece Crimp RCA for Mini High Res Coax (26/25 AWG)						

Signal	Type	LWC P/N	Description (Fixed Install)	Diameter		Rating	Grade	Mating Connector		
Audio (Non Speaker)				(Inch)	(mm)	NEC		Balanced	Unbalanced	Crimp BNC
Analog Audio	Balanced or Unbalanced	22-2P-INDSH-HF	22 AWG 2 Pair Individually shielded LSZH Audio	0.250	6.4	A,B,C*	Best	NC3FXX, NC3MXX	ZD06-color	
Analog Audio	Unbalanced (Coaxial)	RG59-SD-HF	RG59/U High Definition Serial Digital LSZH Coaxial Cable	0.237	6.0	A,B,C*	Best	N/A	CM-RG59M series	112951
Digital or Analog Audio	Unbalanced (Coaxial)	RG6-SD-HF	RG6/U High Definition Serial Digital LSZH Coaxial Cable	0.270	6.9	A,B,C*	Best	N/A	CM-RG6L series	112957
Digital or Analog Audio	Unbalanced (Coaxial)	RG59-SD-HF	RG59/U High Definition Serial Digital LSZH Coaxial Cable	0.237	6.0	A,B,C*	Better	N/A	CM-RG59M series	112951
Control										
Universal Control	AMX/CRESTRON	LLINX-U-HF	Ultralow Capacitance 105Ω twisted shielded pair with 18/2 power LSZH	0.246	6.2	A,B,C*	Best	OEM specific		
General Control	RS-232 Control	CAT5E-STR-HF	Category 5e Stranded LSZH UTP Cable	0.245	6.2	A,B,C*	Best	DB9M, DB9F		
DATA										
LAN Data	Category 5e	CAT5E-SH-HF	Category 5e Shielded LSZH F/UTP Cable	0.250	6.4	A,B,C*	Good			
RF										
Low Loss 50 Ohm	Wireless Networking	RG213-HF	13 AWG Low Loss RG213 LSZH 50Ω	0.405	10.3	A,B,C*	Best		112562	112562
Video										
Analog Video	Composite Video	RG6-SD-HF	RG6/U High Definition Serial Digital LSZH Coaxial Cable	0.270	6.9	A,B,C*	Best	N/A	CM-RG6L series	112957
Analog Video	Composite Video	RG59-SD-HF	RG59/U High Definition Serial Digital LSZH Coaxial Cable	0.237	6.0	A,B,C*	Better		CM-RG59M series	112951
Analog Video	YPbPr Component and HD Component	RGB3-MINI-HF	Mini RG59/U base band LSZH Coaxial Cable x 3 Jacketed	0.401	10.2	A,B,C*	Best		CM-RGB25 series	112955
Analog Video	RGB Video non-ID/DDC Compliant	RGB5-MINI-HF	Mini RG59/U base band LSZH Coaxial Cable x 5 Jacketed	0.500	12.7	A,B,C*	Best		CM-RGB25 series	112955
Analog Video	Low Skew UTP	TRUPHASE-HF	23 AWG 4 Pair UTP LSZH Low Skew Video Cable	0.260	6.6	A,B,C*	Best		100 011LW	
Analog Video	CATV	RG6-HF	RG6/U CCS Dual Shield LSZH CATV 3.0 GHz	0.275	7.0	A,B,C*	Best		CM-RG6L series	
Digital Video	DBS/Broadband	RG6Q-HF	RG6/U Quad Shield Bare Copper LSZH CATV 3.0 GHz	0.310	7.9	A,B,C*	Best		CM-RG6L series	
Digital Video	SMPTE Standards	RG6-SD-HF	RG6/U High Definition Serial Digital LSZH Coaxial Cable	0.270	6.9	A,B,C*	Best		CM-RG6L series	112957
Digital Video	SMPTE Standards	RG59-SD-HF	RG59/U High Definition Serial Digital LSZH Coaxial Cable	0.237	6.0	A,B,C*	Better		CM-RG59M series	112951
Voice/Phone										
Telephone/Voice	Low speed Data, telephone, DSL	CAT5E-SH-HF	Category 5e Shielded LSZH F/UTP Cable	0.250	6.4	A,B,C*	Good	100020		
Telephone/Voice	Low speed Data, telephone, DSL	CAT5E-STR-HF	Category 5e Stranded LSZH UTP Cable	0.245	6.2	A,B,C*	Best	100020		
Speaker										
Speaker	Amplifed Audio Shielded	14-4C-HFSH	14 AWG 4 Conductor twisted shielded LSZH Speaker Wire	0.350	8.9	A,B,C*	Best	CM-A-14		
Speaker	Amplifed Audio Shielded	14-2C-HFSH	14 AWG 2 Conductor twisted shielded LSZH Speaker Wire	0.300	7.6	A,B,C*	Best	CM-A-14		
Speaker	Amplifed Audio Shielded	16-4C-HFSH	16 AWG 4 Conductor twisted shielded LSZH Speaker Wire	0.323	8.2	A,B,C*	Best	CM-A-16		
Speaker	Amplifed Audio Shielded	16-2C-HFSH	16 AWG 2 Conductor twisted shielded LSZH Speaker Wire	0.285	7.2	A,B,C*	Best	CM-A-16		
Speaker	Amplifed Audio Shielded	16-2C-HFSH	16 AWG 2 Conductor twisted shielded LSZH Speaker Wire	0.285	7.2	A,B,C*	Best	CM-A-16		
Specialty										
Video	CATV/DBS/RF	RG11-HF	RG11/U Dual Shield Solid Copper LSZH Coaxial Cable	0.404	10.3	A,B,C*	Best	N/A		112606
Lighting Control										
Lighting Control	Lutron Systems	18/22-2C-HF	22 AWG Shielded Pair+18 AWG Power LSZH Violet	0.246	6.2	A,B,C*	Best			
Specialty										
Multipurpose	Rack Interconnection	INTERFLEX-SD	RG59/U High Definition Serial Digital Coaxial Cable	0.236	6.0	N/A	Best		CM-RG59M series	112951

DIDN'T SEE EVERYTHING YOU NEED?

*A .... IEC 60332.3 Category C Flame Retardant
*B .... IEC 61034 Low Smoke
*C..... IEC 60754 Halogen Content
All = EU RoHS 2002/95/EC Compliant

LET'S GET SOCIAL!

IMPROVE YOUR PROFITABILITY FROM SOURCE TO DISPLAY

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