



### Crimp & Strip Tool for Modular Plugs

Part Number	Description
CPRJ11-45	Crimp and strip tool for RJ11 (6 position) and RJ45 (8 position) modular plugs
PS-NET	Cable strip tool for networking cable



CPRJ11-45: Crimp & strip tool for modular plugs

### 10GX Horizontal Cable – 10GX Cable

The 10GX Cable delivers performance that goes beyond the ANSI/TIA/EIA 568-C.2 Category 6A standard. 10GX Cable provides 625 MHz of bandwidth and a data rate of 10 Gigabits per second. This performance is made possible through the innovative RoundFlex™ design that serves to reduce alien crosstalk by randomizing the distance between the cables.



PS-NET: Networking cable strip tool

### 10GX Non-Shielded Cable

Description	Non-Shielded Cable			
	Blue	Purple	White	Black
10GX Cable, CMR	10GX12 006A1000	10GX12 007A1000	10GX12 009A1000	10GX12 010A1000
10GX Cable, CMP	10GX13 006A1000	10GX13 007A1000	10GX13 009A1000	10GX13 010A1000



10GX62F 006A1000: 10GX cable

### 10GX Shielded Cable

Description	Shielded Cable			
	Blue	Purple	White	Black
10GX Cable, CMR	10GX62F 006A1000	10GX62F 007A1000	10GX62F 009A1000	10GX62F 010A1000
10GX Cable, CMP	10GX63F 006A1000	10GX63F 007A1000	10GX63F 009A1000	10GX63F 010A1000

### Category 6 Field-Installable Metal Body Ruggedized Plug

Belden DataTuff Field Installable Metal Body Ruggedized Plugs for Category 6 Cables are manufactured to the industry's highest standards of quality, utilizing the most advanced equipment, systems, controls and processes.

Part Number	Description
R301601 000S1	DataTuff® Industrial Ethernet Ruggedized RJ45, category 6 shielded modular plug kit UTP/STP, T568A
R301602 000S1	DataTuff® Industrial Ethernet Ruggedized RJ45, category 6 shielded modular plug kit UTP/STP, T568B



R301601 000S1: UTP/STP, T568A plug

## HDMI Cables

Belden, the leader in professional audio/video signal transmission technology, offers a reliable HDMI interface for transferring uncompressed digital audio/video data from an HDMI-compliant device to a compatible digital audio/video device. Belden offers a complete line of 26 AWG shielded twisted pair HDMI cables to support any uncompressed TV or PC video format, including standard, enhanced, high definition, and multichannel compressed or uncompressed digital audio.



HD2002: 2 meter HDMI cable

### HDMI over Category 6 HDBaseT Signal Extender

Part Number	UL NEC (UL) CEC Type	Length		Con- nector	HDMI Assembly Compliance	1080i Verified	1080p Verified
		Meter	Feet				
HD2001 010B5	CM or CL2	1	3.28	Gold	High Speed	✓	✓
HD2002 010B5	CM or CL2	2	6.56	Gold	High Speed	✓	✓
HD2003 010B5	CM or CL2	3	9.84	Gold	High Speed	✓	✓
HD2004 010B5	CM or CL2	4	13.12	Gold	High Speed	✓	✓
HD2007 010B5	CM or CL2	7	22.96	Gold	Standard Speed	✓	

### Belden End-to-End Network Performance

Belden has the end-to-end copper cabling system to meet your current networking challenges while providing the bandwidth and scalability for the needs of the future. Consult the Belden Copper Catalog located at [www.belden.com](http://www.belden.com) for a complete listing of copper cabling products.

#### Always Stay Ahead with Belden

In a highly competitive environment, it is crucial to have reliable partners who are able to add value to your business. When it comes to signal transmissions, Belden is the number one solutions provider. We understand your business and want to know your specific challenges and targets to see how effective signal transmission solutions can push you ahead of the competition. By combining the strengths of our three leading brands, Belden®; Hirschmann™; and Lumberg Automation™, we are able to offer the solution you need. Today it may be a single cable, a switch or a connector, thus solving a specific issue; tomorrow it can be a complex range of integrated applications, systems and solutions.

We guarantee the superior performance of your mission-critical systems, even in the most demanding circumstances. If signal transmission is vital to your business, get in touch with the partner that delivers. Be certain. Belden.

NP 494E

**Belden® HDMI Connectivity Solutions**

Belden now offers a complete solution for sending HDMI signals over long distances without a reduction in signal quality.



**Whether Using Category Cable or Fiber, Installation is Simple**

**HDMI Technology**

As Audio/Video installations migrate away from discrete wired solutions towards digital signal solutions, the problem of long distance runs without signal degradation has become a serious issue. Belden recognizes this issue and presents the following solutions to help you navigate in a digital world.

**HDMI Over Category 6 HDBaseT Signal Extenders**

The HDMI over Category 6 Uncompressed Signal Extender sends HDMI signals over a single Category 6 cable to extend your HDMI video and audio signal up to 100 meter from the source. By utilizing HDBaseT technology, the Extender is capable of transmitting fully-uncompressed HDMI 1080p and 3D video signals while providing flexibility with greater signal distances and installation.

- Features HDBaseT Technology to connect all of the entertainment devices in a setting through its 5Play™ feature set, converging uncompressed full HD digital video, audio, 100BaseT Ethernet, power over cable and various control signals
- Audio and video are transmitted digitally over Category 6 cable without signal loss
- Single Link Range: 100 meters with 1080p/60 and 2000x4000
- Compliant with High Speed HDMI HDCP 2.0 and DVI1.1 standards
- Supports digital video formats in 480i, 480p, 720p, 1080i, 1080p

- Supports PCM 2 Channel audio, 5.1, 7.1, DTS-HD, Dolby audio format
- Supports Infrared (IR) Remote Pass through function to control HDMI source devices (set-top box, DVD player and BluRay DVD Player) in Receiver by its IR remote controller

**HDMI Over Category 6 Gigabit (IP) Ethernet Extenders with LED Display**

The HDMI over Gigabit (IP) Ethernet Extender with LED Display can send out a Standard HDMI signal to one or more HDMI devices using a single Category 6 cable over a 100 Mb/s Ethernet infrastructure while simultaneously returning an Infrared (IR) control signal back to the source controlling it.

- Audio and video are transmitted digitally over 100 Ohm Category 6 cable for lower signal loss
- Single Link Range: 1080p/60 and 1920x1200
- Compliant with Standard HDMI, HDCP 2.0 and DVI1.1 standards
- Supports digital video formats in 480p, 720p, and 1080p
- Supports PCM 2 Channel audio
- Supports IR Pass through function and control HDMI source devices (set-top box, DVD player and BluRay DVD Player) in Receiver by its IR remote controller
- Ability to control the source channel from the IR Control, and display the source channel from the LED panel giving more control to the user

**A new product to serve your needs. Be certain.**

Belden offers a broad selection of THOR HDMI extenders over fiber for a variety of broadcast and professional audio/video applications.

### HDMI Over Fiber Extenders

The reality of high-speed digital graphic interconnections mandates products to maintain video quality and cost effectiveness of integrated display systems. Optical technology for gigabit digital transmission makes it simple to extend digital graphic data above the extension limits of copper wires producing pure signal integrity for an ideal visual experience, no EMI/RFI emissions, light weight, rugged cabling and connectors, low power consumption and installation ease.

The THOR-HE-HDMI Extender is a quality solution for connecting equipment using the high definition, HDMI signal. The THOR-HE-HDMI stretches your HDMI connectivity, offering the benefit of detachable cabling, with four LC connectors and a Cat5e/6 connector, which makes it easier to install.

- Supports up to WUXGA (1920x1200) resolution and HDTV 1080p (1920x1080)
- Standard speed HDMI compliance for HDTV and HDCP communication requirements
- Extend digital HDTV data with HDCP up to 100 m (330 feet)
- Certified in Class B, the home standard by FCC & CE
- Optional +12V external power supply to power both modules over the DDC cable
- No tools required to install with plug and play feature
- The unit operates at 850 nm over multimode fiber, 50/125 um fiber is recommended
- The unit has 2 Duplex LC receptacles on each module
- Compliance with FDA/CDRH and IEC 60825-1 Class 1 Laser Eye Safety

### HDMI Pre-Terminated Hybrid Extenders

The THOR-CBL-HDMI extension cable stretches your high definition multimedia interface connectivity. The THOR-CBL-HDMI is a hybrid cable solution using multi-mode glass fibers for the RGB and Clock high-speed digital graphic signals and copper wires for the low frequency HDCP control signals.

- Extend HDMI signals up to 100 m (330 feet) with no signal degradation
- Supports up to 1080p resolution
- Standard speed HDMI compliance for HDTV and HDCP communication requirements

- DVI standard compliance (165Mpixels/sec maximum) and supports DDC2B mode
- Uses the host +5V source from the HDMI connector pin number 18 to drive the Tx and Rx modules with a minimum of 500 mA is available from the host
- If your HDTV source is unable to provide a minimum of +5 V, 500 mA on pin 18, then plug external AC/DC power supply in Tx module for operation
- Data security inherent with fiber and no RFI/EMI emissions

### HDMI Distribution Amplifiers

The THOR-DA-HDMI is designed to deliver the highest quality picture, preserving the native resolutions of the video source. Since digital noise can affect the picture quality, the THOR-DA-HDMI amplifier is transparent in the signal path as it eliminates digital noise and boosts the signal strength to preserve and enhance the video signal quality.

The THOR-DA-HDMI is a digital media distribution amplifier allowing one HDMI digital video source to drive up to eight independent multimedia LCD, LED or Plasma flat panel displays. The THOR-DA-HDMI is available in a four output and an eight output device, using one standard HDMI connector without losing signal quality. THOR-DA-HDMI supports Standard Speed HDMI and is HDCP1.1 compliant on all outputs.

- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA (1920x1200) and 480p to 1080i/p
- Standard speed HDMI compliance for HDTV and HDCP communication requirements
- Simultaneously displays one HDMI source on four displays and eight displays with option of either device
- Features EDID (internal and external) for Deep Color up to 12 bits, 1080p at 24/60 Hz and color space
- Supports DVI source and display via an HDMI to/from DVI adapter cable
- 5V DC power adapter supplies adequate power to amplify the video signals from the video source
- Can be cascaded up to two layers
- Supports DDC/HDC
- Provides status LED indicators

### HDMI over Category 6 HDBaseT Signal Extender

Part Number	Description	Signal Strength		HDMI Compliance	Digital Video Format	Resolution Capabilities	HDBaseT Technology
		Meter	Feet				
BEL-HDBASET	HDBaseT Transmitter and Receiver	100	330	High Speed	480i, 480p, 720p, 1080i & 1080p	1080p/60 up to 2000x4000	✓



HDBASET-XMIT, HDBaseT Transmitter and Receiver

### HDMI over Category 6 Gigabit (IP) Ethernet Extender with LED Display

Part Number	Description	Signal Strength		HDMI Compliance	Digital Video Format	Resolution Capabilities
		Meter	Feet			
IP-XMIT	Ethernet Transmitter	100	330	Standard Speed	480p, 720p & 1080p	1080p/60 up to 1920x1200
IP-RECEIVE	Ethernet Receiver	100	330	Standard Speed	480p, 720p & 1080p	1080p/60 up to 1920x1200



IP-XMIT & IP-RECEIVE, Ethernet Transmitter and Receiver

### HDMI over Fiber Extenders

Part Number	Description
THOR-HE-HDMI-1F	THOR module extends high-resolution digital graphic data and multi-channel audio data over fiber up to 100 m/ 330 ft.
THOR-HE-HDMI-4F	THOR module extends high-resolution digital graphic data and multi-channel audio data over fiber up to 100 m/ 330 ft.



THOR-HE-HDMI-4F, THOR HDMI Over Fiber Extender

### HDMI Pre-Terminated Hybrid Extenders

Part Number	Description
THOR-CBL-HDMI-10M	THOR HDMI point-to-point extender cable, 10 meter
THOR-CBL-HDMI-20M	THOR HDMI point-to-point extender cable, 20 meter
THOR-CBL-HDMI-30M	THOR HDMI point-to-point extender cable, 30 meter
THOR-CBL-HDMI-40M	THOR HDMI point-to-point extender cable, 40 meter
THOR-CBL-HDMI-50M	THOR HDMI point-to-point extender cable, 50 meter
THOR-CBL-HDMI-70M	THOR HDMI point-to-point extender cable, 70 meter
THOR-CBL-HDMI-100M	THOR HDMI point-to-point extender cable, 100 meter



THOR-CBL-HDMI-50M, THOR HDMI Over Fiber Pre-Terminated Hybrid Extenders

### HDMI over Distribution Amplifiers

Part Number	Description
THOR-DA-HDMI-1x4	THOR distribution amplifier HDMI 1 input to 4 outputs
THOR-DA-HDMI-1x8	THOR distribution amplifier HDMI 1 input to 8 outputs



THOR-DA-HDMI-1X4, THOR Distribution Amplifier HDMI 1 Input to 4 Outputs



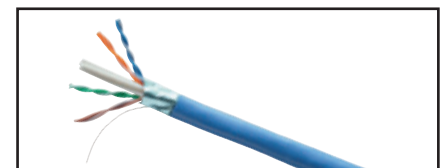
## Category 6+ Horizontal Cable

### DataTwist 2400 Cable

DataTwist 2400 Cable consists of 4-pair cables that exceed Category 6 requirements as per ANSI/TIA/EIA-568-C.2. The cable provides a minimum bandwidth of 250 MHz.

### Category 6+ Non-Shielded Cable

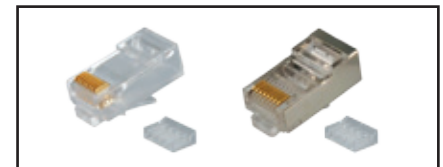
Description	Non-Shielded Cable			
	Blue	Purple	White	Black
2400 Cable, CMR	2412 006A1000	2412 007A1000	2412 009A1000	2412 010A1000
2400 Cable, CMP	2413 006A1000	2413 007A1000	2413 009A1000	2413 010A1000



2413 006A100: DataTwist 4-pair cable

### Category 6+ Shielded Cable

Description	Shielded Cable			
	Blue	Purple	White	Black
2400 Cable, CMR	2412F 006A1000	2412F 007A1000	2412F 009A1000	2412F 010A1000
2400 Cable, CMP	2413F 006A1000	2413F 007A1000	2413F 009A1000	2413F 010A1000



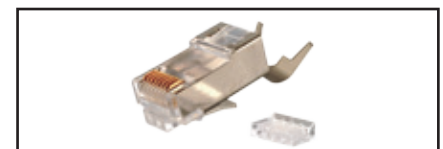
HIPMP-RJ45CAT6 & HIPMP-RJ45CAT6SH: RJ45 category 6+ non-shielded and shielded modular plug

### Category 6+ Modular Plugs

Belden now offers Modular Plugs as an accessible, easy-to-use solution to terminate twisted pair and multiconductor flat cable for security, audio/video and broadcast applications where field installation is necessary.

### Category 6+ Modular Plugs

Part Number	Description	Color
HIPMP-RJ45CAT6	RJ45 category 6 non-shielded modular plug w/50 micron gold contacts	Clear
HIPMP-RJ45CAT6SH	RJ45 category 6 shielded modular plug w/50 micron gold contacts	Nickel
HIPMP-RJ45CAT6GC	RJ45 category 6 shielded modular plug w/grounding tabs	Nickel



HIPMP-RJ45CAT6GC: RJ45 category 6+ shielded modular plug w/grounding tabs

### Modular Strain Relief Boots

Part Number	Description	Color	Tool Required
SLS-RJ45-6.0	Strain relief, snagless over boot, 6 mm	Black	No tool required
SLS-RJ45-7.0	Strain relief, snagless over boot, 7 mm	Black	No tool required
SLS-RJ45CR-5.7	Strain relief, crimpable snagless over boot, 5.7 mm	Black	CPRJ11-45
SLS-RJ45CR-6.3	Strain relief, crimpable snagless over boot, 6.3 mm	Black	CPRJ11-45



SLS-RJ45-6.0 & SLS-RJ45CR-5.7: Strain relief, snagless over boot & strainrelief and crimpable snagless over boot for RJ45 modular plugs