



# Commercial Networking: Copper

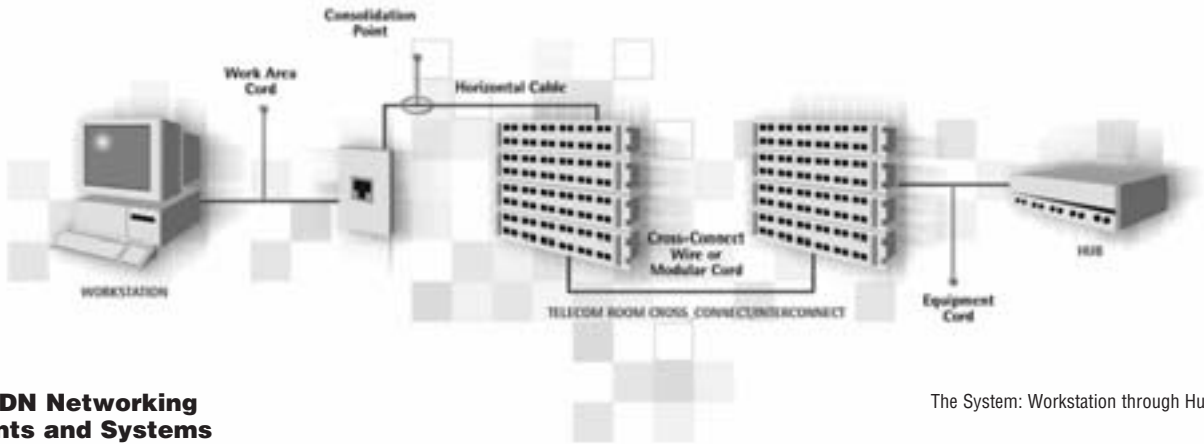
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## Table of Contents

<b>Commercial Networking — Copper</b>	
	<b>Page No.</b>
Introduction	15.2-15.5
Belden IBDN System 10GX	15.6-15.8
GigaBIX Multi System	15.9-15.12
BIX Cross-Connect System	15.13-15.17
110 Cross-Connect System	15.18-15.20
Labels	15.21
Patch Panels	15.22-15.24
Workstation Outlets	15.25-15.40
Modular Cords	15.41-15.43
Network Connectivity Products	15.44
Line Protection and Bonding & Grounding	15.45
Certified System Cables	15.46-15.51
Unshielded Twisted Pairs (UTP) Cables	15.46-15.66
Shielded Twisted Pairs (ScTP) Cables	15.67-15.69
Special Application Cables	15.70-15.82

# Introduction



The System: Workstation through Hub

## Belden IBDN Networking Components and Systems Overview

Each of the copper cabling components depicted on the following pages is vital to the overall performance of the network, but to achieve optimum network performance you should consider Belden IBDN end-to-end structured cabling systems.

Belden IBDN Copper Structured Cabling Systems are recognized the world over for their high quality since they are the result of both Belden's exceptional design and manufacturing expertise and the system's ability to outperform the standards.

### The Revolutionary Belden IBDN System 10GX (Cat. 6a | 10 Gb/s | 625 MHz)

What differentiates our 10GX System from other 10 Gigabit Ethernet offerings? The Belden IBDN System 10GX is not an improved or boosted Category 6 system, but a revolutionary innovation designed around a series of dynamic enabling technologies. Because the 10GX System solves two major performance issues: (1) a reduction in Alien crosstalk to about 15 dB, or 30 times lower than the Alien NEXT for 1000BASE-T at a distance of 100 meters, and (2) the System's ability to control Insertion Loss, Return Loss, NEXT, PSNEXT, Alien PSNEXT, ELFEXT, PSELFEXT and Alien PSFEXT characteristics during high frequency operation — it not only meets the high speed, high bandwidth demands of today's networks, but this advanced solution is ready to meet the challenges of the networks of tomorrow.

### System 10GX Performance-Enabling Technologies

The performance of each critical component of the 10GX solution has been optimized through use of the following performance-enabling technologies:

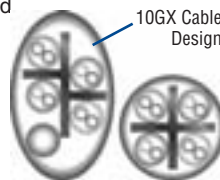
- The system's cable is based upon an innovative SpiralFlex™ design that serves to reduce Alien crosstalk by randomizing the distance between the cables
- A patent-pending IDC design and patch panel circuit layout called MatriX IDC™ technology is utilized to substantially eliminate the issue of Alien crosstalk between the system's modules
- X-Bar™ technology: The X-Bar is a control device that enables the accurate positioning of each UTP pair before the pair is terminated on the 10GX Module's IDC pins
- A patent-pending FlexPoint PCB (printed circuit board) is used within the module housing to position the compensation circuitry directly at the plug's point of contact. Instant compensation delivers excellent crosstalk performance up to 625 MHz!

### 10GX Cable Design Improves Alien Crosstalk

The major technical challenge for traditional UTP cables resides with the electromagnetic coupling between a cable and its neighboring cables. This coupling is typically enhanced by the fact that all the cable pairs have the same twisting lay and therefore have the same resonance frequencies.

Belden's use of SpiralFlex technology introduces randomization in the cable in two ways:

(1) it induces with neighboring cables — to accomplish this, a filler is twisted around the four cable pairs — and, (2) to create additional randomization along the full length of the cable, a unique internal cross-web is incorporated into the cable design.



Since these features both increase and randomize the distance between a cable and its neighboring cables, both the ANEXT coupling and RL channel characteristics of the cable are improved. In fact, 10GX Cables were tested in a worst-case scenario — a six-around-one cable environment — and still exhibited performance well over proposed standards. In addition, this unique 10GX Cable design is more flexible and installer-friendly than other 10G cables.

### Statistically Controlled Modular Cord Manufacturing

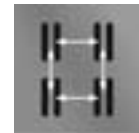
To achieve consistent high performance, Belden uses a statistical process control methodology in its modular cord manufacturing process. This assures perfect tuning between the module and the modular cord and offers improved channel performance. The design of the 10GX Modular Cord is also based upon a patent-pending plug management design that controls dNEXT and delivers extended channel performance.

### 10GX IDC Design Cancels Out Alien Crosstalk

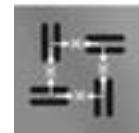
The IDC is one of the most sensitive areas for Alien crosstalk management. In traditional designs, all of the IDC contacts are aligned so they become perfect antennas, allowing adjacent pairs to both emit and receive noise.

Belden's patent-pending design, called MatriX IDC technology, positions each IDC at 90 degrees to its neighbor — effectively canceling out ANEXT by 15 dB as compared with traditional technology!

Traditional Technology



MatriX IDC Technology

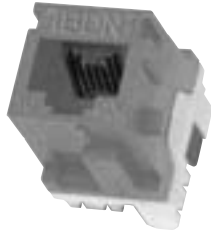


## Introduction

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### 10GX Module Eliminates Signal Degradation

Traditional jack designs are performance handicapped at high frequencies because of an inherent crosstalk in the plug that cannot be fully compensated for by the jack. This crosstalk occurs because the compensation circuitry is located at some physical distance from the source of the noise, which is at the plug interface. Even a very small physical distance can have a major impact at high frequencies.

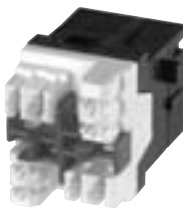


FlexPoint PCB Technology

The 10GX Modules feature FlexPoint PCB technology. This technology incorporates the use of a flexible PCB that allows the compensation circuitry to be located directly at the point of the plug contact. This reduces the delay between the source of the crosstalk in the plug and the crosstalk cancellation circuitry on the PCB. As a result the crosstalk noise at high frequencies is dramatically reduced for outstanding channel performance to 625 MHz!

### Error-Free Termination Practices — Installable Performance®

Since structured cabling systems for Category 6 and beyond are extremely sensitive to installation practices, the 10GX System mitigates and simplifies installation issues to ensure overall 10G System performance. To ensure optimum termination of the cable to the module, a new patent-pending technology called the X-Bar was developed. The X-Bar is a plastic device that affixes to the module to ensure that each UTP pair is consistently positioned for termination on the 10GX Module's IDC pins. The X-Bar also controls the amount of unjacketed cable, plus it maintains the conductor twist lays during installation to prevent untwisting. With this consistent termination feature, the superior NEXT and ANEXT performance achieved through use of the system's



FlexPoint PCB Technology

innovative component designs will be maintained and remain stable throughout the installation process. We call this after-installation assurance *Installable Performance*.

### The 10GX Patch Panel With 10GX Modules

Alien crosstalk control within a patch panel is critical to the success of the system. The high density environment of a patch panel can be subjected to crippling amounts of Alien crosstalk. The unique design of the 10GX Module's IDC, and its ability to cancel the "antenna" effect between modules eliminates the Alien crosstalk issue. Because superior ANEXT performance is assured by the module-related technologies, this allows the patch panel ports to be in line. There is no need to compromise on density, and labeling and cable management features are greatly improved. In fact, the module technology is so powerful, Belden is the only manufacturer to be able to offer an ultra high-density solution with 48 ports in a 1U space!

### Belden IBDN Category 5e/ Enhanced Category 6 Components and Systems

Belden IBDN Cat. 5e, Cat. 6 and Beyond Cat6® Systems can be designed and installed using either Bonded-Pair UTP cables or nonbonded-pair UTP cables. Both types of cable offer performance well beyond the standards. Bonded-Pair UTP cables — DataTwist® 350, MediaTwist® and DataTwist 600e — feature a patented design that bonds the individual insulated conductors of each pair along the full length of the cable. This bonded construction delivers Installable Performance. That is, Bonded-Pair cables are consistent in the distance between the conductors and in the amount of twist, throughout the installation process, so they deliver the same, superior electrical performance both before and after the cable's installation.

Our nonbonded-pair family of cables include GigaFlex® 1200, 2400 and 4800LX cables. These cables incorporate a patented design which provides complete quality control during the manufacturing process. This allows us to provide high quality cables that consistently offer improved channel performance and large

margins over the standards. These cables will provide the capacity and performance to maximize your overall network performance.

Belden IBDN punch-down GigaFlex Modules are based on a patented Encapsulated Lead Frame technology that ensures long-term reliability, as well as extremely stable transmission performance. Lead frame technology is inherently more reliable than traditional connector technologies as it uses a single, uninterrupted copper contact path through the connector. The design of the GigaFlex Module allows signals to pass virtually unchanged through the connector, providing greater system performance.

GigaBIX® Distribution Connectors, featuring Belden's BIX Technology, are a uniquely designed solution centered around an extremely compact connector equipped with double-sided Insulation Displacement Connection (IDC) clips. The benefit of this unique design is a considerable reduction in the space that would be required by conventional connecting systems of the same pair count. The density of BIX technology is second to none, allowing up to three hundred pairs to be terminated in a very small area — a real space saver, especially in today's office environment where real estate is at a premium.

### Belden IBDN System 1200 (Cat. 5e | 1.2 Gb/s | 160 MHz)

If your business is riding the current wave of growth and expansion, you may be considering new ways of doing business and a new or upgraded IT system to support these new strategies. This is the ideal time to plan and implement a new cabling system or to upgrade your existing infrastructure.

This Category 5e system was developed to support high-speed network applications such as Gigabit Ethernet and provides clear bandwidth up to 160 MHz; an increase of 60% over the Cat. 5e standard of 100 MHz. Standards organizations such as TIA/EIA and IEEE now recommend Category 5e cabling systems for all new cabling installations.

# Introduction

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## Belden IBDN System 2400 (Cat. 6 | 2.4 Gb/s | 250 MHz)

If leading-edge communication systems are an element of your competitive strategy and if you consider information technology as one of the drivers of your bottom line, you should consider the speed, reliability and performance advantages of this system.

This Category 6 system meets or exceeds all requirements of the TIA/EIA Category 6 standard specifications and delivers 250 MHz bandwidth, a 25% increase over

the 200 MHz bandwidth of typical Category 6 compliant channels. The Belden IBDN System 2400 provides the performance, throughput and reliability necessary to keep your critical applications operating at peak performance.

## Belden IBDN System 4800LX (Beyond Cat. 6 | 4.8 Gb/s | 300 MHz)

If every bit of information that your company processes is mission critical, you need the performance and reliability that is built into the Belden IBDN System 4800LX.

This enhanced Category 6 system was conceived to support the most demanding, ultra-high speed and multi-Gigabit protocols, providing blistering performance.

The Belden IBDN System 4800LX is the industry's first 300 MHz system, far exceeding all TIA/EIA Category 6 specifications.

### Belden IBDN Copper Systems: Primary Selection of Components

Solutions			Backbone Cable†	Telecom Room
Available Channel Bandwidth	Guaranteed Data Rate	UTP Channel STD Compliance	4-Pair Cables	Cross-Connect Hardware
<b>Belden IBDN System 1200</b>				
160 MHz PowerSum	1.2 Gb/s	Cat. 5e* TIA/EIA ISO/IEC IEEE Gigabit	DataTwist® 350 1700 (CMR) DataTwist 350 1701 (CMP) DataTwist 350 1701 (CMP-50) GigaFlex® 1212 (CMR) GigaFlex 1213 (CMP) GigaFlex 1224 (LSOH)	GigaBIX® Cross-Connect System  PS5E BIX Patch Panel PS5E HD-BIX Patch Panel PS5E HD-110 Patch Panel Flex Patch Panel/EZ-MDVO PS5E Module Flex Patch Panel/GigaFlex PS5E Module  110 Cross-Connect System
<b>Belden IBDN System 2400</b>				
250 MHz PowerSum	2.4 Gb/s	Cat. 6** TIA/EIA ISO/IEC IEEE Gigabit	MediaTwist® 1872 (CMR) MediaTwist 1874 (CMP) GigaFlex 2412 (CMR) GigaFlex 2413 (CMP) GigaFlex 2424 (LSOH)	GigaBIX Cross-Connect System  GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
<b>Belden IBDN System 4800LX</b>				
300 MHz PowerSum	4.8 Gb/s	Beyond Cat6*** TIA/EIA ISO/IEC IEEE Gigabit	DataTwist 600e 7851 (CMR) DataTwist 600e 7852 (CMP) GigaFlex 4812LX (CMR) GigaFlex 4813LX (CMP) GigaFlex 4824LX (LSOH)	GigaBIX Cross-Connect System  GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
<b>Belden IBDN System 10GX</b>				
625 MHz	10 Gb/s	Beyond 10G Proposed TIA ISO/IEC IEEE 10 Gigabit	10GX 10GX12 (CMR, Nonbonded-pair) 10GX 10GX13 (CMP, Nonbonded-pair) 10GX 10GX24 (LSZH, Nonbonded-pair) 10GX 10GX16 (LC, Nonbonded-pair) 10GX 10GX32 (CMR, Bonded-Pair)  10GX 10GX44 (LSZH, Bonded-Pair) 10GX 10GX66 (LC, Bonded-Pair)	10GX Ultra High-Density Patch Panel (1U, 48 ports) 10GX Patch Panel Flex Patch Panel/10GX Module

\*ANSI/TIA/EIA-568-B.1, ISO/IEC 11801 2nd Edition and IEEE 802.3ab. \*\*ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd Edition and IEEE 802.3ab.

†Backbone can be configured with Belden IBDN FiberExpress Optical Fiber Cable.

Installable Performance guarantees are available on Bonded-Pair cables. Since the insulated conductors of the pairs are bonded along their longitudinal axes, Bonded-Pair cables remain intact during the installation process, so there is no separation of pair conductors and no degradation of the cables' electrical characteristics.



# Introduction

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## Quality Installation And Service

Belden IBDN systems are designed, installed and field-tested by full trained and certified system contractors and integrators to further assure superior systems performance. They are also backed by a strict System Certification and Warranty Program.

## System Certification and Warranty Program

The Belden IBDN Certification Program is a rigorous process that ensures that your Belden IBDN 'Certified' System is composed of Belden IBDN components, and that it has been designed and installed by a factory-trained Certified System Vendor. Belden IBDN 'Certified' Systems are supported by a series of warranties that surpass conventional product warranties.

Certification adds important end-to-end system performance guarantees and ensures full compliance with cabling industry standard specifications — even after system installation (Installable Performance). A 25-year Product Warranty and a Lifetime Application Assurance program accompany each Belden IBDN 'Certified' System installation. These warranty programs include coverage for both parts and labor.

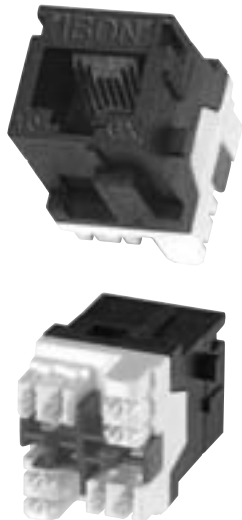
	Horizontal Cable			Work Area	
	Cross-Connect Patch System	4-Pair Cables	Installable Performance <sup>®††</sup>	Outlets — Connectors, Faceplates & Adapters	Modular Cords
GigaBIX Cross-Connect Wire GigaBIX Patch Cords	DataTwist 350 1700 (CMR) DataTwist 350 1701 (CMP) DataTwist 350 1701 (CMP-50)	● ● ●		PS5E BIX DVO Outlet EZ-MDVO PS5E Module GigaFlex PS5E Module	GigaFlex PS5E Modular Cords
GigaFlex PS5E Modular Cords	GigaFlex 1212 (CMR) GigaFlex 1213 (CMP) GigaFlex 1224 (LSOH)			MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	
PS5E 110 Patch Cords					
GigaBIX Cross-Connect Wire GigaBIX PS6+ Patch Cords	MediaTwist 1872 (CMR) MediaTwist 1874 (CMP)	● ●		GigaFlex PS6+ Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex PS6+ Modular Cords
GigaFlex PS6+ Modular Cords	GigaFlex 2412 (CMR) GigaFlex 2413 (CMP) GigaFlex 2424 (LSOH)				
GigaBIX Cross-Connect Wire GigaBIX PS6+ Patch Cords	DataTwist 600e 7851 (CMR) DataTwist 600e 7852 (CMP)	● ●		GigaFlex PS6+ Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex PS6+ Modular Cords
GigaFlex PS6+ Modular Cords	GigaFlex 4812LX (CMR) GigaFlex 4813LX (CMP) GigaFlex 4824LX (LSOH)				
10GX Modular Cords	10GX 10GX12 (CMR, Nonbonded-pair) 10GX 10GX13 (CMP, Nonbonded-pair) 10GX 10GX24 (LSZH, Nonbonded-pair) 10GX 10GX16 (LC, Nonbonded-pair) 10GX 10GX32 (CMR, Bonded-Pair) 10GX 10GX33 (CMP, Bonded-Pair) 10GX 10GX44 (LSZH, Bonded-Pair) 10GX 10GX66 (LC, Bonded-Pair)	● ● ● ● ● ● ●		10GX Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters	10GX Modular Cords



# Belden IBDN System 10GX

## 10GX Modules and 10GX Patch Panels

AX102272 10GX Module, Black



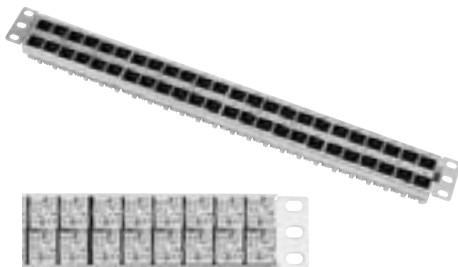
### 10GX Module

The **10GX Module** is a revolutionary punch down UTP connector designed to be used within the new Belden IBDN System 10GX. In order to achieve true 10G performance, Belden has designed the 10GX Module based on three revolutionary module technologies making the 10GX Module the most advanced 10G module available. It is designed to work in existing hardware including the Flex Modular Patch Panel and MediaFlex Outlet Series. It can also be mixed and matched with a wide variety of adapters and boxes to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications closet applications. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number
<b>Belden IBDN System 10GX</b>	
<b>10GX Module, Augmented Category 6</b>	
MDVO-Style, T568A/B, Gray	<b>AX102269</b>
MDVO-Style, T568A/B, White	<b>AX102271</b>
MDVO-Style, T568A/B, Black	<b>AX102272</b>
MDVO-Style, T568A/B, Red	<b>AX102274</b>
MDVO-Style, T568A/B, Yellow	<b>AX102275</b>
MDVO-Style, T568A/B, Green	<b>AX102276</b>
MDVO-Style, T568A/B, Blue	<b>AX102277</b>
MDVO-Style, T568A/B, Ivory	<b>AX102562</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX102488 10GX Ultra High-Density Patch Panel 1U, 48-port, Titanium



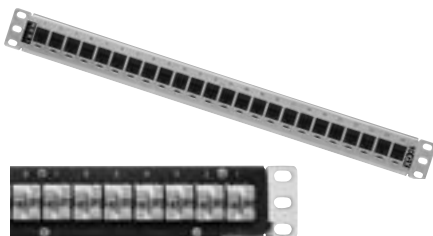
### 10GX Patch Panel

The 10GX Patch Panel is a fully loaded patch panel designed to be used within the Belden IBDN System 10GX. The 10GX Patch Panel features the revolutionary 10GX Module, specifically designed to meet the difficult challenges of 10 Gb/s transmission. 10GX Patch Panels are available in high-density options such as 24 ports in 1U or 48 ports in 2U, but the phenomenal ANEXT performance of the 10GX Module has allowed Belden to also support an ultra high-density option offering the 10GX Ultra High-Density Patch Panel supporting 48 ports in 1U. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number
<b>Belden IBDN System 10GX</b>	
<b>10GX Ultra High-Density Patch Panel, Augmented Category 6</b>	
1U, 48-port, Titanium	<b>AX102488</b>
<b>10GX Patch Panel, Augmented Category 6</b>	
1U, 24-port, Titanium	<b>AX102293</b>
2U, 48-port, Titanium	<b>AX102296</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX102293 10GX Patch Panel 1U, 24-port, Titanium



# Belden IBDN System 10GX

## 10GX Modular Cords

AX360015 10GX Modular Cord, Blue



### 10GX Modular Cords

The **10GX Modular Cords** are 4-pair 23 AWG UTP modular cords designed to be used within the Belden IBDN System 10GX. Belden has designed the 10GX Modular Cord based on a patent-pending management bar design which allows for very good control of the internal plug NEXT. The patch cable design offers very good Alien crosstalk performance, while maintaining the important mechanical characteristics such as flexibility. The 10GX Modular Cords' design, with a very small footprint, makes them fully compatible with the highest density hubs that utilize RJ45 jack connections. The 10GX Modular Cords are available in pantone colors that match the colors per the TIA/EIA-606 standard and the product line encompasses CMR modular cords, as well as open-ended cords. The unmatched performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow

### Belden IBDN System 10GX

10GX Modular Cord, 4-Pair, 23 AWG Solid, T568A/B - T568A/B, CMR						
2.1 m (7 ft)	AX360015	AX360051	AX360027	AX360021	AX360045	AX360057
3.0 m (10 ft)	AX360016	AX360052	AX360028	AX360022	AX360046	AX360058
4.6 m (15 ft)	AX360017	AX360053	AX360029	AX360023	AX360047	AX360059
7.6 m (25 ft)	AX360018	AX360054	AX360030	AX360024	AX360048	AX360060

10GX Pigtail, 4-Pair, 23 AWG Solid, T568A — Open, CMR	
4.6 m (15 ft)	AX360265
7.6 m (25 ft)	AX360266
10.6 m (35 ft)	AX360267
15.0 m (50 ft)	AX360268

10GX Pigtail, 4-Pair, 23 AWG Solid, T568B — Open, CMR	
4.6 m (15 ft)	AX360269
7.6 m (25 ft)	AX360270
10.6 m (35 ft)	AX360271
15.0 m (50 ft)	AX360272

These products are in the process of being assessed for Gb/s compliance. Please check our Web Site for the most current RoHS status.

# Belden IBDN System 10GX

## 10GX Cables

24826395 10GX Cable Series, White



### 10GX Cable

The **10GX Cables** are 4-pair 23 AWG UTP cables designed to be used within the Belden IBDN System 10GX. The GX Cable incorporates the use of patent-pending SpiralFlex™ technology, which improves the ANEXT coupling by increasing and randomizing the distance between a cable and the neighboring cables surrounding it. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee channel transmission performance up to 625 MHz. The 10GX Cable Series is very complete with cable available with Bonded-Pairs and Nonbonded-pairs, and is available in plenum, non-plenum, and Limited Combustible versions.

Description	Belden Part Number
<b>10GX Cable, Bonded-Pairs</b>	
<b>10GX Cable, CMR</b>	
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	24826395
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	24826995
<b>10GX Cable, CMP</b>	
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	24827395
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	24827995
<b>10GX Cable, LSZH</b>	
10GX44 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Purple	24828095
<b>10GX Cable, Limited Combustible</b>	
10GX66 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White*	24822395
<b>10GX Cable, Nonbonded-pairs</b>	
<b>10GX Cable, CMR</b>	
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	24816395
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	24816995
<b>10GX Cable, CMP</b>	
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White	24817395
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Blue	24817995
<b>10GX Cable, LSZH</b>	
10GX24 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, Purple	24818095
<b>10GX Cable, Limited Combustible</b>	
10GX16 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft), Spool, White*	24812395

\*DuPont™ certified limited combustible cable

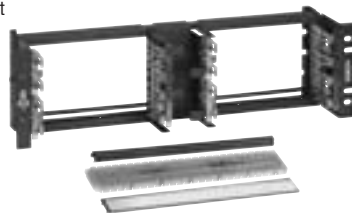
\*DuPont™ certified limited combustible cable



# GigaBIX Multi System

## Termination Kits and Basic Components

AX101985 GigaBIX Rack Mount Termination Kit, 48-port



AX101470 GigaBIX Termination Kit, 72-port



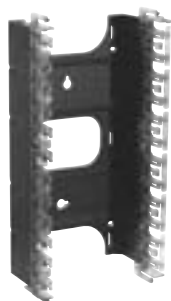
AX101447 GigaBIX Connector, 6-port



AX101986 GigaBIX Rack Mount Panel



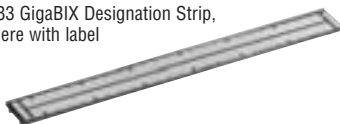
AX101472 GigaBIX Mount



AX101486 GigaBIX Wire Guard



AX101483 GigaBIX Designation Strip, shown here with label



AX101987 GigaBIX/MediaFlex Adapter



### GigaBIX Termination Kits

The **GigaBIX Termination Kits** contains all components required to terminate cables in a GigaBIX Cross-Connect or Interconnect System. The Termination Kits allow for the most cost-effective Category 6 cross-connect or interconnect installations using GigaBIX Cross-Connect Wire or GigaBIX PS6+ Patch Cords. The GigaBIX Mount is designed to accommodate high-performance cables. The GigaBIX Connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. Each kit also contains Wire Guards, Designation Strips, Designation Labels, Velcro ties and a detailed installation guide.

### GigaBIX Connector

The **GigaBIX Connector** is the core component of the GigaBIX Multi System. Its symmetrical construction allows termination of high-performance cables on one side and GigaBIX Cross-Connect Wires or GigaBIX Patch Cords on the other. Each GigaBIX Connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping. The connector is built with two staggered rows of IDC clips enclosed in a three-layer construction of fire-retardant plastic wafers. The GigaBIX Connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. The GigaBIX Connector offers exceptional performance that goes Beyond Category 6 which makes it the ideal choice for gigabit cabling networks.

### GigaBIX Mount

The **GigaBIX Mount** for wall installations holds 12 GigaBIX Connectors and is designed to accommodate up to 144 high-performance cables when used in a top-to-bottom cross-connect layout.

The **GigaBIX Rack Mount Panel** allows for customizing rack mount installations for data, voice or multimedia installations. This panel can accommodate up to 8 GigaBIX Connectors, for a total of 48 terminations of 4-pair UTP cables, or up to 4 GigaBIX/MediaFlex Adapters for a total of 48 multimedia ports.

### GigaBIX Wire Guard

The **GigaBIX Wire Guards** are plastic strips that snap behind the GigaBIX Connectors after termination to provide strain relief to the twisted pairs. They come as part of the GigaBIX Termination Kits and can also be ordered separately as replacement components.

### GigaBIX Designation Strip

The **GigaBIX Designation Strips** are plastic strips that snap between the GigaBIX Connectors to apply the designation labels. They come as part of the GigaBIX Termination Kits and can also be ordered separately as replacement components. (See the LabelFlex section for designation labels.)

### GigaBIX/MediaFlex Adapter

The **GigaBIX/MediaFlex Adapter** allows for mixed media installation within the expanded GigaBIX Multi family of connectivity. The GigaBIX/MediaFlex Adapter can accommodate a variety of MediaFlex inserts including UTP and multimedia inserts to customize multimedia installation in Telecommunications Rooms, Equipment Rooms, or Consolidation Points.

Description	Belden Part Number
<b>GigaBIX Multi System</b>	
<b>Termination Kits</b>	
GigaBIX Termination Kit, 72-port	AX101470
GigaBIX Termination Kit, 300-pair	AX101471
GigaBIX Rack Mount Termination Kit, 48-port	AX101985
<b>Basic Components</b>	
GigaBIX Connector, 6-port	AX101447
GigaBIX Connector, 25-pair	AX101448
GigaBIX Mount, 12-connector	AX101472
GigaBIX Rack Mount Panel, 48-port	AX101986
GigaBIX Wire Guard	AX101486
GigaBIX Designation Strip	AX101483
GigaBIX/MediaFlex Adapter	AX101987

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



# GigaBIX Multi System

## Patch Cords and Cross-Connect Wire

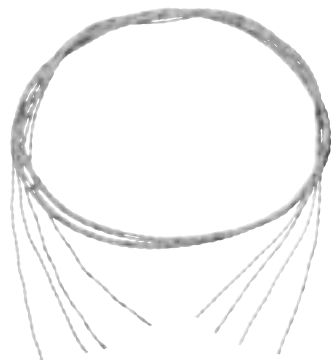
AX101945 GigaBIX PS6+ Patch Cord, BIX-BIX, 4 ft.



AX101951 GigaBIX PS6+ Patch Cord, BIX-8MOD, 4 ft.



24570521 GigaBIX Cross-connect Wire, 4-pair



### GigaBIX Patch Cords

GigaBIX Patch Cords allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Plug-and-go installation and rearrangement of patch cords do not require any special tools or training. GigaBIX Patch Cords are available in two different configurations: BIX-BIX patch cord configurations for easy cross-connection between equipment and distribution fields, and BIX-8MOD patch cord configurations to easily interconnect equipment utilizing 8-position modular jacks directly into GigaBIX Connectors in the distribution field.

The **GigaBIX PS6+ Patch Cords** are 4-pair 23 AWG UTP cords. They are used in GigaBIX Multi System as part of a Belden IBDN System 2400 and System 4800LX, providing a channel bandwidth of 250 MHz and 300 MHz respectively.

The **GigaBIX PS5E Patch Cords** are used in the GigaBIX Multi System as part of a Belden IBDN System 1200, providing outstanding channel bandwidth of 160 MHz.

Description	Belden Part Number		
	BIX-BIX	BIX-8MOD T568A-ISDN	BIX-8MOD T568B-ALT

### GigaBIX Multi System

PS6+ Patch Cords			
4 ft. (1.2 m)	AX101945	AX101951	AX101957
6 ft. (1.8 m)	AX101946	AX101952	AX101958
8 ft. (2.4 m)	AX101947	AX101953	AX101959
10 ft. (3.0 m)	AX101948	AX101954	AX101960
15 ft. (4.6 m)	AX101949	AX101955	AX101961
25 ft. (7.6 m)	AX101950	AX101956	AX101962
PS5E Patch Cords			
4 ft. (1.2 m)	AX101963	AX101969	AX101975
6 ft. (1.8 m)	AX101964	AX101970	AX101976
8 ft. (2.4 m)	AX101965	AX101971	AX101977
10 ft. (3.0 m)	AX101966	AX101972	AX101978
15 ft. (4.6 m)	AX101967	AX101973	AX101979
25 ft. (7.6 m)	AX101968	AX101974	AX101980

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

### GigaBIX Cross-Connect Wire

**GigaBIX Cross-Connect Wire** is intended for use between GigaBIX cross-connect fields in a Telecommunications Room or in a Main Cross-Connect Frame. Using GigaBIX Cross-Connect Wire allows for very flexible and cost-effective installations. The cut-to-length jumper eliminates need for slack management and guarantees permanent installation aesthetics. The GigaBIX Cross-Connect Wire offers transmission performance that goes Beyond Category 6 providing additional margin to support Gigabit applications.

**Color Code:** White/Blue, White/Orange, White/Green, White/Brown.

Description	Belden Part Number
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### GigaBIX Multi System

Cross-Connect Wire	
4-pair, 1000 ft. (305 m), Spool	24570521
4-pair, 1000 ft. (305 m), Spool-in-Box	24577B15

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# GigaBIX Multi System

## Cable Management Accessories

AX102154 GigaBIX Color-Coded Clip



### GigaBIX Colored Service Clips

The **GigaBIX Colored Service Clip** is a single-pair plastic clip that snaps on the GigaBIX connectors to visually identify various services when using GigaBIX Cross-Connect Wire.

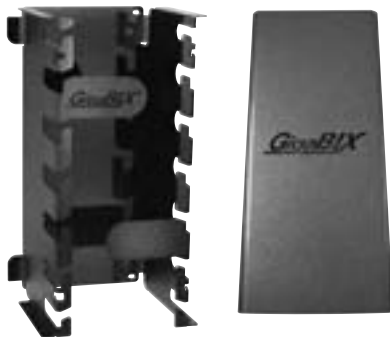
AX101469 GigaBIX Cable Management Module



### GigaBIX Cable Management Module

The **GigaBIX Cable Management Module** is designed to be used with a wall mount solution. The accessory allows all terminated cables to be brought from the same side (top or bottom) in a high-density GigaBIX installation (4-mount stack). The modules are stackable side-to-side and top-to-bottom with alignment features to ease installation. The modules can be used horizontally to create a horizontal management channel for more flexibility in a side-to-side patching layout using GigaBIX Patch Cords.

AX101468 GigaBIX Patch Cord Organizer and AX101521 GigaBIX Patch Cord Organizer Cover



### GigaBIX Patch Cord Organizer

The **GigaBIX Patch Cord Organizer** is designed to be used with a wall mount solution. The Patch Cord Organizer is a metal trough that interlocks with GigaBIX Mounts to create a vertical management channel for GigaBIX Patch Cords. The Patch Cord Organizer has six (6) openings per side to nicely dress the patch cords while clearing the labeling area on the GigaBIX Mount. The organizer can be assembled over Cable Management Modules in large patch cord installations. A Patch Cord Organizer Cover can be purchased separately to hide the patch cords and give a very professional and high-tech look to the installation.

### GigaBIX Horizontal Channel Plate

**GigaBIX Horizontal Channel Plates** are metal plates that attach to the Patch Cord Organizers to create a horizontal management channel for GigaBIX Patch Cords. The plates are used in pairs and are designed to keep patch cords inside the horizontal channel.

AX101520 GigaBIX Horizontal Channel Plate



### GigaBIX Management Ring

The **GigaBIX Management Ring** is a plastic ring that interlocks with the GigaBIX Mounts to create a high-density wall mount cross-connect system. The rings are assembled in systems when using cross-connect wire and have a capacity of 450 GigaBIX Cross-Connect Wires (1800-pairs total).

AX101478 GigaBIX Management Ring



Description	Belden Part Number
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### GigaBIX Multi System

Cable Management Accessories	
GigaBIX Color-Coded Clip, Gray	AX102146
GigaBIX Color-Coded Clip, Almond	AX102147
GigaBIX Color-Coded Clip, White	AX102148
GigaBIX Color-Coded Clip, Black	AX102149
GigaBIX Color-Coded Clip, Orange	AX102150
GigaBIX Color-Coded Clip, Red	AX102151
GigaBIX Color-Coded Clip, Yellow	AX102152
GigaBIX Color-Coded Clip, Green	AX102153
GigaBIX Color-Coded Clip, Blue	AX102154
GigaBIX Color-Coded Clip, Purple	AX102155
GigaBIX Color-Coded Clip, Brown	AX102156
GigaBIX Cable Management Module	AX101469
GigaBIX Patch Cord Organizer	AX101468
GigaBIX Patch Cord Organizer, Cover	AX101521
GigaBIX Horizontal Channel Plate	AX101520
GigaBIX Management Ring	AX101478

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# GigaBIX Multi System

## Cable Management Accessories

### GigaBIX Distribution Frame & Accessories

GigaBIX Distribution Frames provide a compact mounting unit for large cross-connect installations of data or voice services.

The **GigaBIX Distribution Frame** can accommodate up to (16) 12-connector GigaBIX Mounts, eight on the equipment side and eight on the distribution side. The GigaBIX Distribution Frame has a capacity of 1152 ports or 4800 pairs. It is backwards compatible with BIX Mounts (QMBIX12E) and can be used to continue a row of BIX Distribution Frames (QFBIX24E).

The **GigaBIX Frame End Kit** consists of eight (8) cable trays and eight (8) distribution rings plus appropriate mounting hardware. One kit is required to support GigaBIX Cross-Connect Wires on the sides of a single-frame installation or on the end frames of a multi-frame installation.

The **GigaBIX Overhead Kit** consists of two (2) metal bars and four (4) “J” bolts plus appropriate mounting hardware to support cable ladder (not included) running over a row of GigaBIX Distribution Frames.

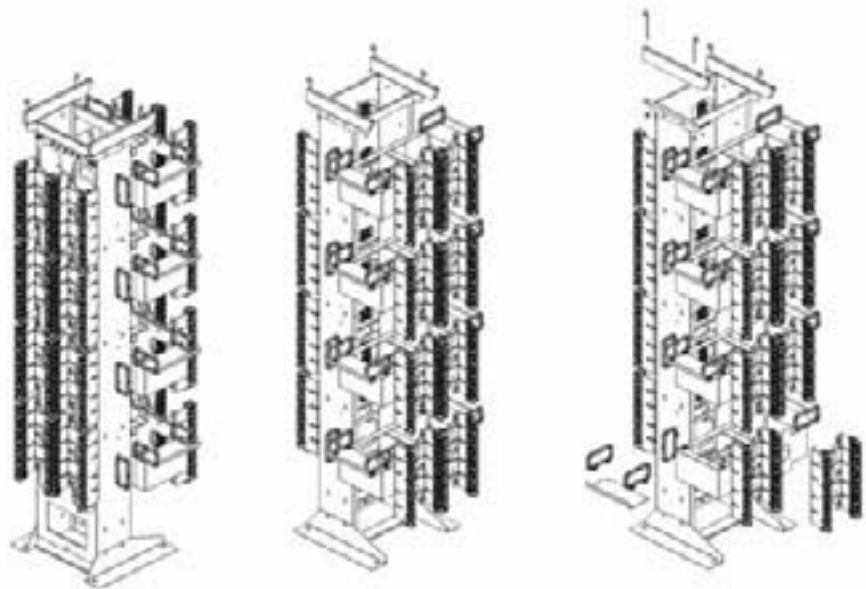
Description	Belden Part Number
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### GigaBIX Multi System

Cable Management Accessories	
Distribution Frame, 1152 ports/4800 pairs	AX102073
Frame End Kit	AX102082
Frame Overhead Kit	AX102145

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX102073 GigaBIX Distribution Frame



## BIX Cross-Connect System

### Distribution Connectors, Multiplying Connectors and Modular Jack Connectors

A0393146 QCBIX1A4 Connector



#### BIX Distribution Connector

The **BIX Distribution Connector** is a 25-pair connector. The connector's symmetrical construction allows termination of cables on one side and cross-connect jumper wires or BIX Patch Cords on the other. Each BIX connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping and pair splitters on each side of the connector facilitate wire insertion.

#### BIX Multiplying Connector

**BIX Multiplying Connectors** are used to generate multiple outputs from a single input. Construction of these connectors is identical to that of BIX Distribution Connectors, except for the IDC clips which are bridged. BIX Multiplying Connectors are typically used in voice applications.

A0266827 QCBIX5A Multiplying Connector

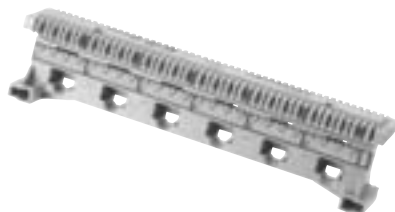


The QCBIX2A Connector is built using 24 sets of bridged clips (2 clips each). It is used to terminate various facilities where multiples of 2 are required.

The QCBIX5A Connector is built using 10 sets of bridged clips (5 clips each). It is used for multiple jumper connections to the same equipment.

The QCBIX7A Connector is built using 10 sets of bridged clips (four 2-clip and six 7-clip bridged arrangements). It is primarily intended for use with 1A type key telephone systems. Each connector can terminate up to three lines of key equipment providing service to as many as seven key telephone sets per line.

AX100798 BIX Modular Jack Connector



#### BIX Modular Jack Connector

**BIX Modular Jack Connectors** provide a fast and flexible method to manage small-to-medium cross-connect installations. These connectors are built with a BIX connector pre-wired to standard modular jacks. They allow front-access termination and patching.

The NXXCBMC6U Connector is a 6-port, 8-position modular connector used for data applications. It exceeds all Category 5e channel requirements when used with PS5E Modular Cords in a Belden IBDN 1200 System.

QCBIX36-type Connectors are used mostly for voice applications. The QCBIX36D connector is a 6-port, 8-position modular connector. It is pre-wired to USOC 8-wire wiring scheme specifications. The QCBIX36C connector is an 8-port, 6-position modular connector. It is pre-wired to USOC 6-wire wiring scheme specifications. The QCBIX36B connector is a 12-port, 6-position modular connector. It is pre-wired to USOC 4-wire wiring scheme specifications.

Description	Belden Part Number
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#### BIX Cross-Connect System

##### Distribution Connector

BIX Distribution Connector, 5-pair Marking	<b>A0266828</b>
BIX Distribution Connector, 4-pair Marking	<b>A0393146</b>

##### Multiplying Connector

BIX Multiplying Connector, QCBIX2A, 25-pair, 12x2-pair	<b>A0269923</b>
BIX Multiplying Connector, QCBIX5A, 25-pair, 5x5-pair	<b>A0266827</b>
BIX Multiplying Connector, QCBIX7A, 25-pair, 2x2-pair & 3x7-pair	<b>A0269925</b>

##### Modular Jack Connector

BIX Modular Jack Connector, NXXCBMC6U, 6-port, PS5E, T568A/B Coded	<b>AX100798</b>
BIX Modular Jack Connector, QCBIX36D, 6-port, USOC, 8-pin	<b>A0341173</b>
BIX Modular Jack Connector, QCBIX36C, 8-port, USOC, 6-pin	<b>A0330864</b>
BIX Modular Jack Connector, QCBIX36B, 12-port, USOC, 4-pin	<b>A0330863</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

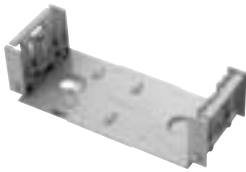
# BIX Cross-Connect System

## Mounts, Covers and Wire Management Accessories

A0340836 QMBIX12E BIX Mount, 300-pair



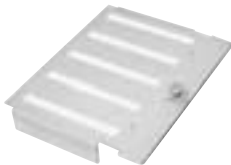
A0284798 QMBIX10C BIX Mount, 50-pair



A0277853 QMBIX31A 50-pair Mount with Locking Cover



A0285986 Locking Cover for 250-pair Mount



A0276396 BIX Cover, QMBIX10A, Stand-alone installation, Locking



A0270168 Distribution Ring



### BIX Mount

**BIX Mounts** are basic components used in building a cross-connect system. They can accept BIX Distribution, Multiplying or Modular Jack Connectors. The 300 and 250-pair mounts can be wall-mounted or installed on BIX Frames. These mounts feature an interlocking design allowing them to be stacked for larger cross-connect installations.

The **BIX 50-pair Mount** is typically used in small cross-connect installations. Also available is a 50-pair mount with cover that is sold as an assembly and is typically used in small cross-connect installations where security and/or dust protection is required.

### BIX Cover

**BIX Covers** can be used to restrict access of cross-connect installations for better protection and security. Two sizes are available to suit either the QMBIX12E 300-pair mount or the QMBIX10A 250-pair mount. The two locking covers used in wall or frame-mounted installations are molded with translucent plastic allowing visual inspection. Also available are two covers used exclusively in stand-alone QMBIX10A 250-pair mount installations: one locking, the other non-locking—both have four cable entries, one at each corner.

### Distribution Ring

The **Distribution Ring** is used in wall mount installations providing a cross-connect channel for jumper wires, patch cords and cables. The Distribution Ring interlocks with the QMBIX12E or QMBIX10A mounts, providing proper spacing and alignment.

Description	Belden Part Number
<b>BIX Cross-Connect System</b>	
<b>BIX Mount</b>	
BIX Mount, QMBIX12E (300-pair)	A0340836
BIX Mount, QMBIX10A (250-pair)	A0270164
BIX Mount, QMBIX10C (50-pair)	A0284798
<b>BIX Mount with Cover</b>	
BIX Mount with Cover, (Locking), 50-pair	A0277853
BIX Mount with Cover, (Snap-on), 50-pair	A0277854
<b>BIX Locking Cover</b>	
BIX Locking Cover, for QMBIX12E (300-pair)	A0340838
BIX Locking Cover, for QMBIX10A (250-pair)	A0285986
<b>BIX Cover</b>	
BIX Cover, QMBIX10A, Stand-alone installation, locking	A0276396
BIX Cover, QMBIX10A, Stand-alone installation, non-locking	A0276394
<b>Distribution Ring</b>	
Distribution Ring	A0270168

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

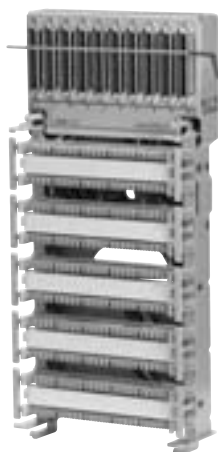
# BIX Cross-Connect System

## BIX Distribution Frames, Universal BIX-PAC and Trunk Access Blocks

A0340837 BIX Frame



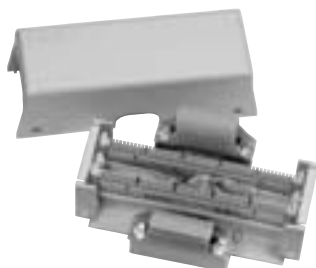
A0321776 Universal BIX-PAC Version 10-10



A0318897 BIX PAC Enclosure



A0327326 BIX Trunk Access Block



### BIX Distribution Frame

**BIX Distribution Frames** provide a compact mounting unit for large cross-connect installations. The QFBIX24E BIX Frame can accommodate up to 16 QMBIX12E 300-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24E BIX Frame has a capacity of 4800-pair. The QFBIX24A BIX Frame can accommodate up to 16 QMBIX10A 250-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24A BIX Frame has a capacity of 4000-pair.

**The BIX Frame End Kit** consists of eight cable trays and eight distribution rings plus appropriate mounting hardware. One kit is required to support cross-connect wires on the sides of the shelves in a single-frame installation or on the end frames of a multi-frame installation.

**The Distribution Rings** are plastic rings used to manage cross-connect wires.

### Universal BIX-PAC

**The Universal BIX-PAC** provides a fast, factory-wired, pre-tested and easy-to-install method of terminating wiring for the voice environment. A typical application for this product is in the main distribution terminal system or the riser terminal system, where it can provide connectivity and cross-connection for up to 250 pairs. The units come equipped with up to 10 QCBIX1A Connectors and 10 fifty-pin type telco connectors for the termination of connectorized cables. Also available is a BIX-PAC Enclosure, which is a fire-retardant polystyrene structural foam box that can house one BIX-PAC. The enclosure has a snap-on cover and removable panels for cable entry on top, bottom and sides.

### BIX Trunk Access Block

**BIX Trunk Access Blocks** provide a fast, factory-wired, pre-tested and easy-to-install method for demarcation or testing points on customer premises. Typical applications are in the building entrance system or the main distribution terminal system, where the demarcation point between the network provider and the customer equipment usually can be found.

Description	Belden Part Number
<b>BIX Cross-Connect System</b>	
<b>BIX Distribution Frame</b>	
BIX Distribution Frame, 4800-pair (4 Shelves for 16 Mounts, 300-pair)	<b>A0340837</b>
BIX Distribution Frame, 4000-pair (4 Shelves for 16 Mounts, 250-pair)	<b>A0275511</b>
<b>BIX Distribution Frame Accessories</b>	
BIX Distribution Frame Accessories, End Kit (4 Shelves)	<b>A0275512*</b>
BIX Distribution Frame Accessories, Distribution Ring	<b>P0596540*</b>
<b>Universal BIX-PAC</b>	
Universal BIX-PAC, 10-8, 8 RJ21X Female to 8 QCBIX1A Connectors	<b>A0321775</b>
Universal BIX-PAC, 10-10, 10 RJ21X Female to 10 QCBIX1A Connectors	<b>A0321776</b>
<b>BIX PAC Enclosure</b>	
BIX PAC Enclosure, Gray	<b>A0318897</b>
<b>BIX Trunk Access Block</b>	
BIX Trunk Access Block, 1 RJ21X Female to 1 QCBIX1A Connector	<b>A0327325</b>
BIX Trunk Access Block, 2 RJ21X Female to 2 QCBIX1A Connector	<b>A0327326</b>

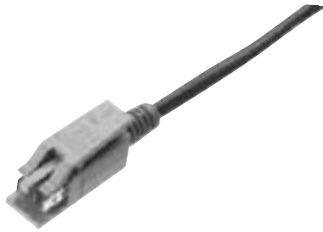
\*Eight Distribution Rings come as part of the BIX Distribution Frame End Kit. Additional Distribution Rings can be ordered separately. Use (1) end kit per row of frames.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# BIX Cross-Connect System

## BIX Patch Cords and B-Plus Cross-Connect Wire

A0410494 BIX Patch Cord, BIX-BIX, 2-pair



A0410469 BIX Patch Cord, BIX-BIX, 1-pair



22208260 B-Plus Cross-Connect Wire



### BIX Patch Cords

**BIX Patch Cords** allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Installation and rearrangement of patch cords do not require any special tools or training. BIX Patch Cord plugs terminate directly into QCBIX1A/1A4 connectors.

### B-Plus Cross-Connect Wire

**B-Plus Cross-Connect Wire** is intended primarily for use between incoming cables and station equipment in a Telecommunications Room or at a Main Cross-Connect.

**Z Cross-Connect Wire** is intended primarily for use in voice applications such as cross-connecting PBX or Key Telephone system equipment to backbone or horizontal distribution cables.

Description	Belden Part Number
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### BIX Cross-Connect System

#### BIX Patch Cord

BIX Patch Cord, BIX-BIX, 2-pair, 1.2 m (4 ft.)	<b>A0410494</b>
BIX Patch Cord, BIX-BIX, 1-pair, 1.2 m (4 ft.)	<b>A0410469</b>
BIX Patch Cord, BIX-BIX, 2-pair, 2.1 m (7 ft.)	<b>A0410495</b>
BIX Patch Cord, BIX-BIX, 1-pair, 2.1 m (7 ft.)	<b>A0410471</b>
BIX Patch Cord, BIX-BIX, 2-pair, 3.0 m (10 ft.)	<b>A0410496</b>
BIX Patch Cord, BIX-BIX, 1-pair, 3.0 m (10 ft.)	<b>A0410473</b>
BIX Patch Cord, BIX-BIX, 2-pair, 4.6 m (15 ft.)	<b>A0410497</b>
BIX Patch Cord, BIX-BIX, 1-pair, 4.6 m (15 ft.)	<b>A0410475</b>
BIX Patch Cord, BIX-BIX, 1-pair, 7.6 m (25 ft.)	<b>A0410493</b>

For 4-pair connections, please see the GigaBIX Patch Cord section.

#### B-Plus Cross-Connect Wire

24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), K-Carton	<b>22208250</b>
24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), Spool (S77)	<b>22208253</b>
24 AWG, 2-pair, Wh/Bl/Wh/Or, 305 m (1000 ft.), K-Carton	<b>22208260</b>
24 AWG, 2-pair, Wh/Gr/Wh/Or, 305 m (1000 ft.), K-Carton	<b>22208231</b>
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 152 m (500 ft.), K-Carton	<b>22208265</b>
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 200 m, K-Carton	<b>22208235</b>
24 AWG, 4-pair, Wh/Bl/Wh/Or/Wh/Gr/Wh/Br, 152 m (500 ft.), K-Carton	<b>22208270</b>

#### Z Cross-Connect Wire

Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Ye, 300 m (984 ft.), Spool	<b>22208010</b>
Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Rd, 300 m (984 ft.), Spool	<b>22208067</b>

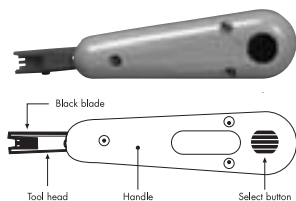
These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



# BIX Cross-Connect System

## BIX Tools, Testing Tools, Accessories and Designation Strip

A0270165 BIX Connecting Tool



Tool in CUT position      Tool in NO CUT position



C0054642 Tool Pouch



A0270166 BIX Test Probe



A0270172 Special Service Guard



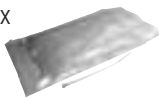
A0325493 Bridging Clip



P0660798 BIX Wire Retainer



C0039222 BIX Cable Tie



A0352331 19 in. Rack Bracket Kit



A0270169 BIX Designation Strip



### BIX Connecting Tool

The **BIX Connecting Tool** is the only tool required to terminate cables, pigtails or jumper wires on all GigaBIX and BIX connection products. The BIX Connecting Tool is a spring-activated hand tool. A single forward movement will seat the wire into the BIX IDC clip and cut off the excess wire. The tool will terminate 22-26-AWG plastic insulated solid copper conductors. A separate leather BIX Tool Pouch to carry and protect the BIX Tool can be ordered.

### BIX Test Probe

The **BIX Test Probe** is a single-pair probe that clips onto the termination clip of BIX Distribution or BIX Modular Jack Connectors to facilitate testing.

### BIX Accessories

The **BIX Special Service Guard** is a single-pair red plastic clip used to identify a connection within a BIX distribution field that requires special attention prior to any maintenance work.

The **BIX Bridging Clip** is a single-pair clip used to bridge single-pair connections of two BIX connectors.

The **BIX Wire Retainer** is a plastic extrusion that fits over the terminated wires on a BIX Connector to prevent them from being pulled out of the IDC contacts. It can be used to secure a permanent connection on either side of a BIX Connector.

This **19 in. Rack Bracket Kit** provides the hardware for BIX Mount installation into a 19 in. rack. This kit comes complete with two mounting bars, four screws for rack mounting, four screws for BIX Mount assemblies and an installation guide.

**BIX Cable Ties** are used for securing wire bundles to the BIX Connector.

### BIX Designation Strip

The **BIX Designation Strip** is designed to be used in conjunction with all BIX Mounts and BIX Connectors. It snaps in between two connectors and provides space for self adhesive BIX labels. The strip is made of white fire-retardant plastic, with ridges on the top and bottom for easy alignment and placement of designation labels. (See the LabelFlex section for designation labels.)

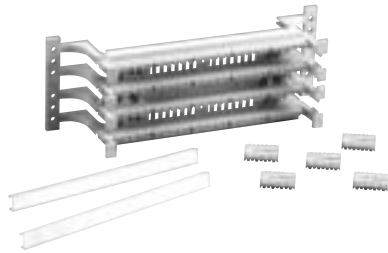
Description	Belden Part Number
<b>BIX Cross-Connect System</b>	
<b>BIX Tools</b>	
BIX Connecting Tool	A0270165
Tool Pouch	C0054642
<b>BIX Test Probe</b>	
BIX Test Probe, 1-pair, 1/pack	A0270166
<b>BIX Accessories</b>	
BIX Special Service Guard, 1-pair, Red, 50/pack	A0270172
BIX Bridging Clip, 1-pair, Gray, 50/pack	A0325091
BIX Bridging Clip, 1-pair, White, 50/pack	A0325493
BIX Wire Retainer, 100/pack	P0660798
19 in. Rack Bracket Kit, 2 bars/pack	A0352331
BIX Cable Tie, 100/pack	C0039222
<b>BIX Designation Strip</b>	
BIX Designation Strip, White, 50/pack	A0270169

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

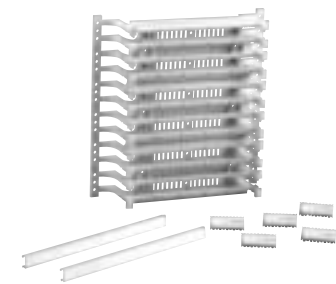
# 110 Cross-Connect System

110 Cross-Connect Kits, 110 Connecting Blocks, 110 Wall Mount Frame Kits and 110 Wiring Blocks

AX100694 110 Cross-Connect Kit, 100-pair



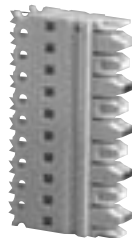
AX100696 110 Cross-Connect Kit, 300-pair



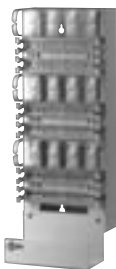
AX100707 110 Connecting Block, 4-pair



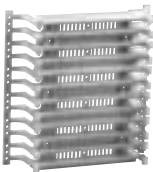
AX100708 110 Connecting Block, 5-pair



AX100697 110 Wall Mount Frame Kit, 300-pair



AX100692 Wiring Block, 300-pair



AX100691 Wiring Block, 100-pair



## 110 Cross-Connect Kit

**110 Cross-Connect Kits** contain all material required to terminate distribution or equipment cables into a 110 Cross-Connect System. Kits consist of one Wiring Block (100-pair or 300-pair) with legs, Connecting Blocks (4-pair or 5-pair), Designation Strips and Labels.

## 110 Connecting Block

The **110 Connecting Blocks** are modular connectors equipped with double-sided Insulation Displacement Connection (IDC) clips that are used to terminate plastic insulated solid copper conductors in 110 Wiring Blocks. The color-coded connecting blocks are available in 4-pair and 5-pair configurations. These blocks are compatible with other existing 110 Cross-Connect Systems.

## 110 Wall Mount Frame Kit

**110 Wall Mount Frame Kits** simplify planning, organizing and implementation of wall mounted cross-connect systems. They are available in 300-pair and 900-pair configurations making them ideal for small telecommunications room installations. Kits consist of wiring blocks and cable management troughs to be mounted on a cable channel. Kits include all components required to complete a 110 Cross-Connect installation with either 4-pair or 5-pair connecting blocks.

## 110 Wiring Block

**110 Wiring Blocks** are rigid plastic indexing strip assemblies designed to hold and align wires prior to terminating 110 Connecting Blocks. 110 Wiring Blocks are available in 100-pair and 300-pair configurations with legs and 100-pair without legs. 110 Wiring Blocks are compatible with 22 to 26 AWG wires and accept 4-pair or 5-pair Connecting Blocks. They are specially designed to simplify data cabling installations. A deeper channel and open slots in the base allow cable to be brought close to the termination point. These blocks are compatible with other existing 110 Cross-Connect Systems.

Description	Belden Part Number
<b>110 Cross-Connect System</b>	
<b>110 Cross-Connect Kit</b>	
110 Cross-Connect Kit, 100-pair, with 4-pair Connecting Blocks	<b>AX100693</b>
110 Cross-Connect Kit, 100-pair, with 5-pair Connecting Blocks	<b>AX100694</b>
110 Cross-Connect Kit, 300-pair, with 4-pair Connecting Blocks	<b>AX100695</b>
110 Cross-Connect Kit, 300-pair, with 5-pair Connecting Blocks	<b>AX100696</b>
<b>110 Connecting Block</b>	
110 Connecting Block, 110C4, 4-pair	<b>AX100707</b>
110 Connecting Block, 110C5, 5-pair	<b>AX100708</b>
<b>110 Wall Mount Frame Kit</b>	
110 Wall Mount Frame Kit, 300-pair, with 4-pair Connecting Blocks	<b>AX100697</b>
110 Wall Mount Frame Kit, 300-pair, with 5-pair Connecting Blocks	<b>AX100698</b>
110 Wall Mount Frame Kit, 900-pair, with 4-pair Connecting Blocks	<b>AX100699</b>
110 Wall Mount Frame Kit, 900-pair, with 5-pair Connecting Blocks	<b>AX100700</b>
<b>110 Wiring Block</b>	
110 Wiring Block, 100-pair, without legs	<b>AX100690</b>
110 Wiring Block, 100-pair, with legs	<b>AX100691</b>
110 Wiring Block, 300-pair, with legs	<b>AX100692</b>

The 110 Cross-Connect System is not available in all countries.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# 110 Cross-Connect System

## 110 Designation Strip and Management Accessories

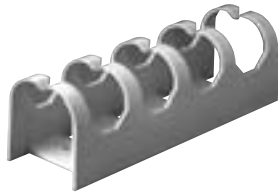
AX100721 110 Designation Strip



### 110 Designation Strip

The **110 Designation Strip** is designed to be used in conjunction with all 110 Wiring Blocks. It snaps in between two rows of 110 Connecting Blocks and provides space to insert a designation label. The strip is made of clear PVC.

AX100705 Cable Management Trough



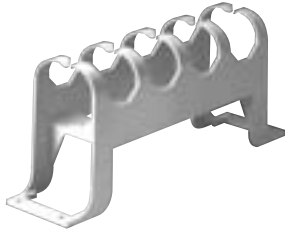
### 110 Management Accessories

**Cable Management Troughs** are utilized as channels positioned between wiring blocks for horizontal or vertical dressing of cross-connect wires and patch cords. They are available with and without mounting legs.

**Cable Management Rings** are used for management of cross-connect wires and cables in 110 Cross-Connect Systems. They can be mounted directly onto a plywood backboard between columns of wiring blocks. They are available in two different sizes.

**Wall Mount Cable Management Frames** are pre-assembled vertical cable managers that are used between 110 Wall Mount Frame Kits for vertical management of patch cords. They simplify planning and installation of 110 Cross-Connect Systems. They are available in two sizes to use with 300-pair and 900-pair Wall Mount Frame Kits.

AX100706 Cable Management Trough with Legs

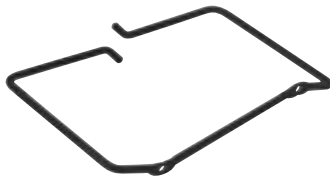


Description	Belden Part Number
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### 110 Cross-Connect System

110 Designation Strip	
110 Designation Strip	AX100721
110 Management Accessories	
Cable Management Trough, without legs	AX100705
Cable Management Trough, with legs	AX100706
Cable Management Ring, Small 144.8 mm (5.7 in.)	AX100703
Cable Management Ring, Large 216 mm (8.5 in.)	AX100704
Wall Mount Cable Management Frame, 300-pair	AX100701
Wall Mount Cable Management Frame, 900-pair	AX100702

AX100703 Cable Management Ring



The 110 Cross-Connect System is not available in all countries.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX100701 Wall Mount Cable Management Frame, 300-pair



# 110 Cross-Connect System

## 110 Patch Cords

AX300001 PS5E 110 Patch Cord, 110-110, 4-pair



AX300010 PS5E 110 Patch Cord, 110-8MOD, 4-pair



AX300013 110 Patch Cord, 110-110, 2-pair



### 110 Patch Cord

**110 Patch Cords** allow for high density connections in a 110 Cross-Connect System. 110 Patch Cord rearrangements do not require any special tools or training thus providing flexibility for cost-effective installation and administration. 110 Patch Cords are available in two different configurations. 110-110 patch cord configurations are used for easy cross-connection between equipment and distribution fields.

110-8MOD patch cord configurations are used to easily interconnect equipment utilizing 8-position modular jacks directly into 110C4/C5 connecting blocks in the distribution field. PS5E 110 Patch Cords offer Category 5e performance. These patch cords are compatible with other existing 110 Cross-Connect systems.

### 110 Patch Cord Connector

**110 Patch Cord Connectors** are available in 1, 2 and 4-pair configurations for field assembly of Category 5 patch cords. They can terminate plastic insulated stranded copper conductors 24 AWG.

Description	Belden Part Number
<b>110 Cross-Connect System</b>	
<b>110 Patch Cord</b>	
110 Patch Cord, PS5E 110-110, 4-pair, 1.2 m (4 ft.)	<b>AX300001</b>
110 Patch Cord, PS5E 110-110, 4-pair, 1.8 m (6 ft.)	<b>AX300002</b>
110 Patch Cord, PS5E 110-110, 4-pair, 2.4 m (8 ft.)	<b>AX300025</b>
110 Patch Cord, PS5E 110-110, 4-pair, 3.0 m (10 ft.)	<b>AX300026</b>
110 Patch Cord, PS5E 110-110, 4-pair, 6.1 m (20 ft.)	<b>AX300027</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.2 m (4 ft.)	<b>AX300010</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.8 m (6 ft.)	<b>AX300009</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 2.4 m (8 ft.)	<b>AX300029</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 3.0 m (10 ft.)	<b>AX300030</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 6.1 m (20 ft.)	<b>AX300032</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.2 m (4 ft.)	<b>AX300008</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.8 m (6 ft.)	<b>AX300005</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 2.4 m (8 ft.)	<b>AX300011</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 3.0 m (10 ft.)	<b>AX300034</b>
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 6.1 m (20 ft.)	<b>AX300017</b>
110 Patch Cord, 110-110, 2-pair, 1.2 m (4 ft.)	<b>AX300013</b>
110 Patch Cord, 110-110, 2-pair, 1.8 m (6 ft.)	<b>AX300014</b>
110 Patch Cord, 110-110, 2-pair, 2.4 m (8 ft.)	<b>AX300015</b>
110 Patch Cord, 110-110, 2-pair, 3.0 m (10 ft.)	<b>AX300037</b>
110 Patch Cord, 110-110, 2-pair, 6.1 m (20 ft.)	<b>AX300038</b>
110 Patch Cord, 110-110, 1-pair, 0.6 m (2 ft.)	<b>AX300039</b>
110 Patch Cord, 110-110, 1-pair, 1.2 m (4 ft.)	<b>AX300006</b>
110 Patch Cord, 110-110, 1-pair, 1.8 m (6 ft.)	<b>AX300007</b>
110 Patch Cord, 110-110, 1-pair, 2.4 m (8 ft.)	<b>AX300012</b>
110 Patch Cord, 110-110, 1-pair, 3.0 m (10 ft.)	<b>AX300021</b>
110 Patch Cord, 110-110, 1-pair, 6.1 m (20 ft.)	<b>AX300040</b>
<b>110 Patch Cord Connector</b>	
110 Patch Cord Connector, 4-pair	<b>AX100711</b>
110 Patch Cord Connector, 2-pair	<b>AX100710</b>
110 Patch Cord Connector, 1-pair	<b>AX100709</b>

The 110 Cross-Connect System is not available in all countries. Other lengths are available, please contact Customer Service for further details.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

## Labels

### LabelFlex

AX101537 LabelFlex Labels



#### LabelFlex Automated Labeling Solution

The **LabelFlex** solution is aimed at simplifying network management. Using the labeling system (software and label types), the installer can rapidly produce quality, application specific labels for most Belden IBDN products in a fraction of the time taken by traditional methods.

The range of Belden IBDN products covered by the labeling system is:

- GigaBIX & BIX Cross-Connect Systems
- BIX Modular Jack Connectors
- 110 Cross-Connect System
- GigaFlex PS6+ Patch Panels
- Flex Patch Panels
- Workstation Outlets
- MediaFlex Faceplates series
- Cable Applications, 4-pair and 25-pair
- ID Tubes
- PS5E HD Patch Panels

Description	Belden Part Number
<b>Labels for MediaFlex Faceplates</b>	
Almond/Silver, 30 labels/sheet, 10 sheets/pack	AX101820
White, 30 labels/sheet, 10 sheets/pack	AX101821
<b>Labels for BIX and GigaBIX</b>	
Gray, 15 labels/sheet, 5 sheets/pack	AX101532
White, 15 labels/sheet, 5 sheets/pack	AX101533
Orange, 15 labels/sheet, 5 sheets/pack	AX101534
Red, 15 labels/sheet, 5 sheets/pack	AX101535
Yellow, 15 labels/sheet, 5 sheets/pack	AX101536
Green, 15 labels/sheet, 5 sheets/pack	AX101537
Blue, 15 labels/sheet, 5 sheets/pack	AX101538
Purple, 15 labels/sheet, 5 sheets/pack	AX101539
Brown, 15 labels/sheet, 5 sheets/pack	AX101540
Silver, 15 labels/sheet, 5 sheets/pack	AX101541
<b>Labels for BIX Modular Jack Connector</b>	
Gray, 28 labels/sheet, 5 sheets/pack	AX101542
White, 28 labels/sheet, 5 sheets/pack	AX101543
Orange, 28 labels/sheet, 5 sheets/pack	AX101544
Red, 28 labels/sheet, 5 sheets/pack	AX101545
Yellow, 28 labels/sheet, 5 sheets/pack	AX101546
Green, 28 labels/sheet, 5 sheets/pack	AX101547
Blue, 28 labels/sheet, 5 sheets/pack	AX101548
Purple, 28 labels/sheet, 5 sheets/pack	AX101549
Brown, 28 labels/sheet, 5 sheets/pack	AX101550
Silver, 28 labels/sheet, 5 sheets/pack	AX101584
<b>Labels for Patch Panels, Outlets and Cables</b>	
Labels for Flex Patch Panels, White, 28 labels/sheet, 5 sheets/pack	AX101551
Labels for Workstation Faceplates, White, 80 labels/sheet, 25 sheets/pack	AX101552
Labels for Workstation Single Port ID, White, 450 labels/sheet, 5 sheets/pack	AX101553
Labels for HD Patch Panels, White, 18 labels/sheet, 5 sheets/pack	AX101554
Labels for GigaFlex PS6+ Patch Panels, White, 28 labels/sheet, 5 sheets/pack	AX101626
Labels for 4-pair cables, Gray, 48 labels/sheet, 25 sheets/pack	AX101555
Labels for 25-pair cables, White, 24 labels/sheet, 25 sheets/pack	AX101556
<b>Labels for 110 Cross-Connect</b>	
Gray, 18 labels/sheet, 5 sheets/pack	AX101557
White, 18 labels/sheet, 5 sheets/pack	AX101558
Orange, 18 labels/sheet, 5 sheets/pack	AX101559
Red, 18 labels/sheet, 5 sheets/pack	AX101560
Yellow, 18 labels/sheet, 5 sheets/pack	AX101561
Green, 18 labels/sheet, 5 sheets/pack	AX101562
Blue, 18 labels/sheet, 5 sheets/pack	AX101563
Purple, 18 labels/sheet, 5 sheets/pack	AX101564
Brown, 18 labels/sheet, 5 sheets/pack	AX101565
<b>Labels for ID Tubes</b>	
3.1 in. long, White, 32 labels/sheet, 5 sheets/pack	AX101566
4.4 in. long, White, 30 labels/sheet, 5 sheets/pack	AX101567
7.4 in. long, White, 19 labels/sheet, 5 sheets/pack	AX101568
<b>Software</b>	
Automated LabelFlex Advanced Software, 1 CD/pack	AX101569

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



For more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

## Patch Panels

### GigaFlex PS6+ Patch Panels Category 6

AX101613 GigaFlex PS6+ Patch Panel, 2U, 48-port



#### GigaFlex PS6+ Patch Panel

The **GigaFlex PS6+ Patch Panel** is a fully loaded patch panel using black GigaFlex PS6+ Modules. The unmatched performance of the GigaFlex PS6+ Module exceeds all parameters specified in the Category 6 standard. All performance characteristics including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

Description	Belden Part Number
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#### Patch Panels

##### GigaFlex PS6+ Patch Panel

GigaFlex PS6+ Patch Panel, 1U, 24-port, Gray	<b>AX101612</b>
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black	<b>AX101611</b>
GigaFlex PS6+ Patch Panel, 2U, 48-port, Gray	<b>AX101614</b>
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black	<b>AX101613</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

## Patch Panels

PS5E HD Patch Panels Category 5E,  
PS5E BIX Patch Panels Category 5E and Flex Patch Panels

AX100465 PS5E HD Patch Panel, 1U, 24-port



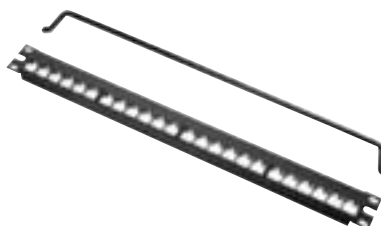
AX100473 PS5E HD Patch Panel, 2U, 48-port



AX100506 BIX Patch Panel, 2U, 24-port



AX101456 Flex Patch Panel



### PS5E HD Patch Panel

The **Universal PS5E HD Patch Panels** Series includes a variety of product styles, sizes and wiring configurations. PS5E HD Patch Panels are robust and installer-friendly products by design, combining punch down connectors with standard modular jacks. They are available in both BIX and 110 Insulation Displacement Connection (IDC) options. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). PS5E HD Patch Panels offer Category 5E performance.

### PS5E BIX Patch Panel

The **PS5E BIX Patch Panel** is a medium density panel, 24-port in 2 rack space units, for easier installation and cable management than high density panels. The PS5E BIX Patch Panel is a robust and installer-friendly product by design, combining BIX punch down connectors with standard modular jacks. The patch panel features built-in wire management to secure cable bundles and to control and maintain patch cord bend radius. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). The PS5E BIX Patch Panel offers Category 5E performance.

### Flex Patch Panel

**Flex Patch Panels** provide a flexible and versatile termination solution for telecommunications room rack-mounted installations. The panels can be custom configured in the field to suit practically any particular configuration. Flex Patch Panels are compatible with GigaFlex and EZ-MDVO modules as well as MDVO-style Multimedia modules. Modules are ordered separately.

Description	Belden Part Number
<b>Patch Panels</b>	
<b>PS5E HD Patch Panel</b>	
PS5E HD-BIX Patch Panel, 1U, 24-port, Gray, T568A/B	<b>AX100464</b>
PS5E HD-BIX Patch Panel, 1U, 24-port, Black, T568A/B	<b>AX100465</b>
PS5E HD-BIX Patch Panel, 2U, 48-port, Gray, T568A/B	<b>AX100472</b>
PS5E HD-BIX Patch Panel, 2U, 48-port, Black, T568A/B	<b>AX100473</b>
PS5E HD-110 Patch Panel, 1U, 24-port, Black, T568B/A	<b>AX100452</b>
PS5E HD-110 Patch Panel, 2U, 48-port, Black, T568B/A	<b>AX100454</b>
The PS5E HD-110 Patch Panel is not available in all countries. Other configurations are available, please contact Customer Service for further details.	
<b>PS5E BIX Patch Panel</b>	
PS5E BIX Patch Panel, 2U, 24-port, Gray, T568A-ISDN	<b>AX100505</b>
PS5E BIX Patch Panel, 2U, 24-port, Black, T568A-ISDN	<b>AX100506</b>
<b>Flex Patch Panel</b>	
Flex Patch Panel, 1U, 24-port, Gray	<b>AX101571</b>
Flex Patch Panel, 1U, 24-port, Black	<b>AX101456</b>
Flex Patch Panel, 2U, 48-port, Gray	<b>AX101573</b>
Flex Patch Panel, 2U, 48-port, Black	<b>AX101458</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

## Patch Panels

### PS5E HD Patch Boxes Category 5E, Connector Modules and Identification Accessories

AX100284 HD Patch Box, Closed



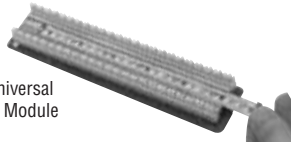
AX100284 HD Patch Box, Open



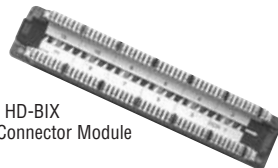
AX100282 MDVO Patch Box



AX100461 HD-110 Universal Connector Module



AX100458 HD-BIX Universal Connector Module



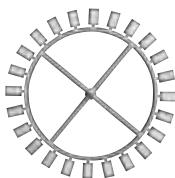
AX100599 PS5E BIX Connector Module, Front



AX100599 PS5E BIX Connector Module, Back



AX100435 Color-Coded Icon Kit



AX101093 Clear ID Tubes



#### PS5E HD Patch Box

The **PS5E HD Patch Boxes** are available in BIX and 110 configurations and hold one 12-port universal connector module in a compact and robust metal enclosure. The patch box features a hinged cover and support brackets to secure cables and maintain patch cord bend radius. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately) All performance parameters, including NEXT, Attenuation and Return Loss are designed to meet the Category 5E Cabling standard.

An **MDVO Patch Box** is also available that can be custom configured in the field using up to 12 GigaFlex, EZ-MDVO or MDVO Multimedia Modules. Modules are ordered separately.

#### PS5E HD-BIX Universal Connector Module

The **PS5E HD Universal Connector Module** is a 12-port UTP Module with a BIX or 110 termination interface that is used as a replacement module in the PS5E HD Patch Panels and Patch Boxes.

#### PS5E BIX Connector Module

The **PS5E BIX Connector Module** is a 2-port UTP Module with BIX termination interface that is used as a replacement module in the PS5E BIX Patch Panel 24-port.

#### Color-Coded Icon Kit

**Color-Coded Icons** can be used to tag each outlet port as data or voice and simplify network management. The snap-on icons can be used with PS5E HD Patch Panels, PS5E HD Patch Boxes, PS5E BIX Patch Panels, MediaFlex GigaFlex Inserts, PS5E DVO Workstation Outlets. They cannot be used with any of the Interface or MDVO plates, adapters or boxes.

#### Clear Plastic Identification Tubes

The **Clear Plastic ID Tubes** are new and improved plastic tubes designed to be used primarily in conjunction with the PS5E HD BIX and 110 Patch Panels and Patch Boxes. The tubes are made of clear fire-retardant plastic, with double-sided adhesive on one side. They are available in three different lengths for easy compatibility with 4, 6 or 12-port openings of the patch panels. They are sold in bags of 100 units only. The bags contain 100 ID tubes and 100 white labels.

Description	Belden Part Number
<b>Patch Panels</b>	
<b>PS5E HD-BIX Patch Box</b>	
PS5E HD-BIX Patch Box, 12-port, Gray, T568A/B	AX100283
PS5E HD-BIX Patch Box, 12-port, Black, T568A/B	AX100284
PS5E HD-110 Patch Box, 12-port, Black, T568B/A	AX100491
The PS5E HD-110 Patch Box is not available in all countries.	
<b>MDVO Patch Box</b>	
MDVO Patch Box, 12-port, Gray	AX100281
MDVO Patch Box, 12-port, Black	AX100282
<b>PS5E HD-BIX Universal Connector Module</b>	
PS5E HD-BIX Universal Connector Module, Universal wiring 12-port, T568A/B	AX100458
PS5E HD-110 Universal Connector Module, Universal wiring 12-port, T568B/A	AX100461
The PS5E HD-110 Universal Connector Module is not available in all countries.	
<b>PS5E BIX Connector Module</b>	
PS5E BIX Connector Module, 2-port, T568A-ISDN	AX100599
<b>Color-Coded Icon Kit</b>	
Color-Coded Icon Kit, Gray, 12 data, 6 voice, 6 blank icons	AX100435
Color-Coded Icon Kit, Almond, 12 data, 6 voice, 6 blank icons	AX100436
Color-Coded Icon Kit, White, 12 data, 6 voice, 6 blank icons	AX100437
Color-Coded Icon Kit, Black, 12 data, 6 voice, 6 blank icons	AX100438
Color-Coded Icon Kit, Orange, 12 data, 6 voice, 6 blank icons	AX100439
Color-Coded Icon Kit, Red, 12 data, 6 voice, 6 blank icons	AX100440
Color-Coded Icon Kit, Yellow, 12 data, 6 voice, 6 blank icons	AX100441
Color-Coded Icon Kit, Green, 12 data, 6 voice, 6 blank icons	AX100442
Color-Coded Icon Kit, Blue, 12 data, 6 voice, 6 blank icons	AX100443
Color-Coded Icon Kit, Purple, 12 data, 6 voice, 6 blank icons	AX100444
Color-Coded Icon Kit, Brown, 12 data, 6 voice, 6 blank icons	AX100445
<b>Clear Plastic Identification Tubes</b>	
Clear Plastic Identification Tubes, 188 mm (7.4 in.), HDBIX/110	AX101093
Clear Plastic Identification Tubes, 112 mm (4.4 in.), MDVO Patch Box	AX101094
Clear Plastic Identification Tubes, 79 mm (3.1 in.), MDVO, 4-port	AX101095

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

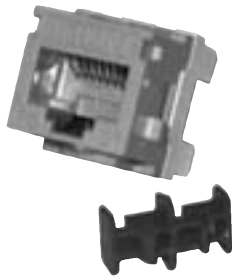




# Workstation Outlets

## GigaFlex PS6+ Modules Category 6

AX101067 GigaFlex PS6+Module



### GigaFlex PS6+ Module

The **GigaFlex PS6+ Module** is a punch down UTP connector based on a patented Encapsulated Lead Frame technology ensuring excellent long-term reliability as well as extremely stable transmission performance. The unmatched Beyond Cat6 performance exceeds all parameters specified in the Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

The GigaFlex PS6+ is the module of choice for terminating UTP cables into the MediaFlex and Interface Outlet Series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

Also available is the GigaFlex PS6+ Module, Clipsal-style which is fully compatible with Clipsal faceplates and mounting hardware.

Description	Belden Part Number		
	MDVO-Style	Keystone-Style	Clipsal-Style

### Workstation Outlets

GigaFlex PS6+ Module			
T568A/B, Gray	<b>AX101063</b>	<b>AX101318</b>	<b>AX101340</b>
T568A/B, Almond	<b>AX101064</b>	<b>AX101319</b>	<b>AX101341</b>
T568A/B, White	<b>AX101065</b>	<b>AX101320</b>	<b>AX101342</b>
T568A/B, Black	<b>AX101066</b>	<b>AX101321</b>	<b>AX101343</b>
T568A/B, Orange	<b>AX101067</b>	<b>AX101322</b>	<b>AX101344</b>
T568A/B, Red	<b>AX101068</b>	<b>AX101323</b>	<b>AX101345</b>
T568A/B, Yellow	<b>AX101069</b>	<b>AX101324</b>	<b>AX101346</b>
T568A/B, Green	<b>AX101070</b>	<b>AX101325</b>	<b>AX101347</b>
T568A/B, Blue	<b>AX101071</b>	<b>AX101326</b>	<b>AX101348</b>
T568A/B, Purple	<b>AX101072</b>	<b>AX101327</b>	<b>AX101349</b>
T568A/B, Brown	<b>AX101073</b>	<b>AX101328</b>	<b>AX101350</b>
T568A/B, Ivory	<b>AX102563</b>		

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

## Workstation Outlets

### GigaFlex PS5E Modules Category 5E and Flex Modules, USOC-coded

AX101051 GigaFlex PS5E Module



AX101037 Flex Module, USOC-coded



#### GigaFlex PS5E Module

The **GigaFlex PS5E Module** is a punch down UTP connector based on a patented Encapsulated Lead Frame technology ensuring excellent long term reliability as well as extremely stable transmission performance. The PS5E-rated performance exceeds all requirements specified in the Category 5e standard. All performance parameters including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 160 MHz and a data-rate of up to 1.2 Gb/s.

The GigaFlex PS5E is the module of choice for terminating UTP cables into the MediaFlex and Interface Outlet Series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

#### Flex Module, USOC-coded

The **Flex Module USOC-coded** is a punch down UTP connector that has a narrower plug entrance and a USOC 6-pin color code in the back. These modules are used for voice applications and are designed to prevent connecting the computer into the analog phone jack, which may cause damages to the electronics.

The Flex Module is the module of choice for voice applications in the MediaFlex and Interface Outlet Series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications rooms applications.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style

#### Workstation Outlets

GigaFlex PS5E Module		
T568A/B, Gray	AX101044	AX101307
T568A/B, Almond	AX101045	AX101308
T568A/B, White	AX101046	AX101309
T568A/B, Black	AX101047	AX101310
T568A/B, Orange	AX101048	AX101311
T568A/B, Red	AX101049	AX101312
T568A/B, Yellow	AX101050	AX101313
T568A/B, Green	AX101051	AX101314
T568A/B, Blue	AX101052	AX101315
T568A/B, Purple	AX101053	AX101316
T568A/B, Brown	AX101054	AX101317
T568A/B, Ivory	AX102564	
Flex Module, USOC-coded, 6-position		
Gray	AX101033	
Almond	AX101034	
White	AX101035	
Black	AX101036	
Orange	AX101037	
Red	AX101038	
Yellow	AX101039	
Green	AX101040	
Blue	AX101041	
Purple	AX101042	
Brown	AX101043	
Ivory	AX102565	

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

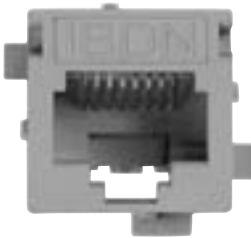
## Workstation Outlets

### EZ-MDVO PS5E Modules Category 5E and EZ-MDVO Modules, USOC-coded

AX100654 EZ-MDVO PS5E Module



AX100177 EZ-MDVO Module, USOC-coded



#### EZ-MDVO PS5E Module

The **EZ-MDVO Module** is built with a patented lead frame design and encapsulated insulation displacement contacts, ensuring reliable connections and performance well above Category 5E standards. The EZ-MDVO module termination cap is what is so unique about this product. It allows for a simple and fast “press-fit” installation while ensuring consistent wire termination every time it is snap-locked. The module termination cap is color-coded to facilitate wire arrangement and speed up installation time. The termination cap is printed with the T568A/B color-codes. The EZ-MDVO Modules can be mixed and matched with a wide variety of MediaFlex, Interface and MDVO-style faceplates, adapters and boxes to suit practically any installation configuration for workstation outlet installations.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices. Clipsal-style EZ-MDVO Modules are available for installations using commercially available Clipsal faceplates and HPM-style EZ-MDVO Modules are available for installations using commercially available HPM faceplates.

#### EZ-MDVO Module, USOC-coded

The **EZ-MDVO Module USOC-coded** has a narrower plug entrance and is designed to be used for voice applications. These modules prevent connecting the computer into the analog phone jack, which may cause damages to the electronics. Also available is the EZ-MDVO Module, USOC-coded keystone style.

Description	Belden Part Number			
	MDVO-Style	Keystone-Style	Clipsal-Style	HPM-Style

#### Workstation Outlets

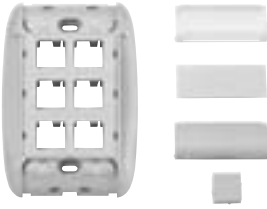
EZ-MDVO PS5E Module				
T568A/B coded, Gray	AX100645	AX100577	AX100678	AX100667
T568A/B coded, Almond	AX100646	AX100578	AX100679	AX100668
T568A/B coded, White	AX100647	AX100579	AX100680	AX100669
T568A/B coded, Black	AX100648	AX100580	AX100681	AX100670
T568A/B coded, Orange	AX100649	AX100581	AX100682	AX100671
T568A/B coded, Red	AX100650	AX100582	AX100683	AX100672
T568A/B coded, Yellow	AX100651	AX100583	AX100684	AX100673
T568A/B coded, Green	AX100652	AX100584	AX100685	AX100674
T568A/B coded, Blue	AX100653	AX100585	AX100686	AX100675
T568A/B coded, Purple	AX100654	AX100586	AX100687	AX100676
T568A/B coded, Brown	AX100655	AX100587	AX100688	AX100677
EZ-MDVO Module, USOC-coded, 6 position				
Gray	AX100171	AX100588		
Almond	AX100172	AX100589		
White	AX100173	AX100590		
Black	AX100174	AX100591		
Orange	AX100175	AX100592		
Red	AX100176	AX100593		
Yellow	AX100177	AX100594		
Green	AX100178	AX100595		
Blue	AX100179	AX100596		
Purple	AX100180	AX100597		
Brown	AX100181	AX100598		

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# Workstation Outlets

## MediaFlex Faceplate Kits and MediaFlex Plates

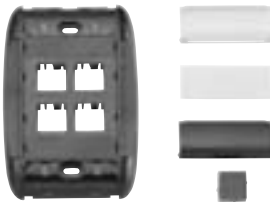
AX101786 MediaFlex Faceplate Kit, 6-port



AX101779 MediaFlex Faceplate Kit, 2-port



AX101785 MediaFlex Faceplate Kit, 4-port



AX101748 MediaFlex Plate, Single Gang



AX101869 MediaFlex Plate, Double Gang



### MediaFlex Faceplate Kit

MediaFlex Plates and Inserts snap together to create a full line of modular workstation outlets. This product line, called the MediaFlex Modular Outlet Series, has been designed with the help of industrial designers as well as other professionals in the industry in order to combine flexibility, ease of use and high-tech aesthetics for work area installations.

Even though the MediaFlex series is a modular outlet system, ease and flexibility in ordering and inventory management are also considered with the offering of pre-configured faceplate kits (includes plate, flush MDVO-style inserts, filler inserts, MDVO blank, labeling window covers, labeling paper and all necessary mounting screws).

### MediaFlex Plate

**MediaFlex Plates** are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

MediaFlex Plates can be mounted over standard NEMA type outlet boxes and rings to provide support for a variety of MediaFlex Adapters and Inserts. The fully modular construction combined with the front access design provides extensive configuration flexibility for current and future network needs. MediaFlex Plates are available in Single gang and Double gang configurations.

The Double gang faceplate comes with a stand-off ring included in the package. This ring allows for easy mounting with virtually any industry electrical box or mud/adaptor rings, therefore providing added installation flexibility.

Each plate has the capacity of up to 6 ports per Single gang and 12 ports per Double gang.

Description	Belden Part Number		
	2-Port Flush	4-Port Flush	6-Port Flush

### Workstation Outlets

MediaFlex Faceplate Kit			
Gray	AX101778	AX101782	AX101786
Almond	AX101779	AX101783	AX101787
Elec. White	AX101780	AX101784	AX101788
Black	AX101781	AX101785	AX101789
White	AX102621	AX102622	AX102623
Ivory	AX102566	AX102567	AX102568

Description	Belden Part Number	
	Single Gang	Double Gang

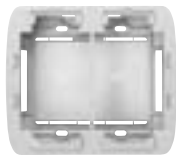
MediaFlex Plate		
Gray	AX101745	AX101869
Almond	AX101746	AX101870
Elec. White	AX101747	AX101871
Black	AX101748	AX101872
White	AX102608	AX102609
Ivory	AX102569	AX102570

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# Workstation Outlets

## MediaFlex Adapter Boxes and MediaFlex Inserts

AX101874 MediaFlex Adapter Box, Double Gang



### MediaFlex Surface Adapter Box

**MediaFlex Surface Adapter Boxes** are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

MediaFlex Surface Adapter Boxes can be mounted over standard NEMA type outlet boxes and rings to provide support for the MediaFlex plates. The MediaFlex Surface Adapter Boxes are available as a Double gang configuration. The Double gang box allows more room for cable management and bend radius control.

Description	Belden Part Number					
	Gray	Almond	Elec. White	Black	White	Ivory

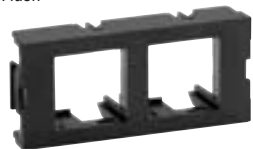
### Workstation Outlets

MediaFlex Adapter Box						
Single Gang	AX102480	AX102481	AX102482	AX102483	AX102484	AX102485
Double Gang	AX101873	AX101874	AX101875	AX101876	AX102610	AX102571

AX101756 MediaFlex MDVO (style) Insert, 2-port, Angled



AX101752 MediaFlex MDVO (style) Insert, 2-port, Flush



AX101760 MediaFlex Filler Insert, 1-unit



AX101764 MediaFlex Filler Insert, 2-unit



AX101768 PS6+ MediaFlex GigaFlex Insert, 2-port



### MediaFlex Insert

**MediaFlex Inserts** provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex MDVO-style Inserts along with MediaFlex Filler Inserts and MediaFlex GigaFlex Inserts allow for the easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex Plates for simple installation and maintenance.

**MediaFlex MDVO-style Inserts** are available in a 2-port configuration in both Flush and Angled versions. They are compatible with all GigaFlex and MDVO Modules (EZ-MDVO and Multimedia). The inserts are two units high for the flush version and three units high for the angled version. Therefore three flush inserts or two angled inserts are required to fully populate a Single gang MediaFlex Plate.

**MediaFlex GigaFlex Inserts** are available in a 2-port configuration in both PS5E (Category 5E) and PS6+ (Beyond Category 6) performance levels. The inserts are two units high, therefore three inserts can be used to fully populate a Single gang MediaFlex Plate making up a 6-port outlet.

**MediaFlex Filler Inserts** are used to fill the unused spaces in low density workstation outlets. They are available in one unit and two unit sizes.

Description	Belden Part Number	
	Flush	Angled

### Workstation Outlets

MediaFlex MDVO (style) Insert		
2-port, Gray, bag of 10 units	AX101749	AX101753
2-port, Almond, bag of 10 units	AX101750	AX101754
2-port, Elec. White, bag of 10 units	AX101751	AX101755
2-port, Black, bag of 10 units	AX101752	AX101756
2-port, White, bag of 10 units	AX102612	AX102613
2-port, Ivory, bag of 10 units	AX102572	AX102573

Description	Belden Part Number	
	PS6+	PS5E

MediaFlex GigaFlex Insert		
2-port, Gray	AX101765	AX101769
2-port, Almond	AX101766	AX101770
2-port, Elec. White	AX101767	AX101771
2-port, Black	AX101768	AX101772
2-port, Ivory	AX102574	AX102575

Description	Belden Part Number	
	1-Unit	2-Unit

MediaFlex Filler Insert		
Gray, bag of 10 units	AX101757	AX101761
Almond, bag of 10 units	AX101758	AX101762
Elec. White, bag of 10 units	AX101759	AX101763
Black, bag of 10 units	AX101760	AX101764
White, bag of 10 units	AX102614	AX102615
Ivory, bag of 10 units	AX102576	AX102577

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



# Workstation Outlets

## MediaFlex Inserts (continued) and Accessories

AX101878 MediaFlex RCA Insert, 3-port, Angled



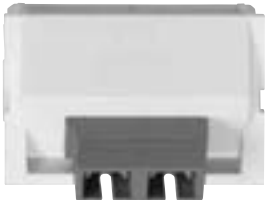
AX101882 MediaFlex SVHS Insert, 1-port, Angled



AX101886 MediaFlex SVGA Insert, 1-port, Angled



AX101937 MediaFlex SC Duplex Insert, Angled



AX101777 Labeling Window Cover



AX101790 Dust Cover



### MediaFlex Multimedia Insert

**MediaFlex Multimedia Inserts** provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex Multimedia Inserts along with other MediaFlex Inserts allow for easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex Plates for easy installation and maintenance.

MediaFlex Multimedia inserts include the following products:

- 3-Port RCA insert with IDC termination
- SVHS insert with IDC termination, and feedthrough
- SVGA (DB15) insert with IDC termination
- SC Duplex inserts in MM and SM

MediaFlex Multimedia Inserts are available in Angled versions only in order to allow for proper management of cable bend radius. The inserts are three units high, therefore two inserts are required to fully populate a Single gang faceplate and four inserts will fully populate a Double gang faceplate.

### Labeling Window Cover/Dust Cover

**MediaFlex Accessories** include Labeling Window Covers used with the MediaFlex faceplates and Dust Covers used with the MediaFlex GigaFlex Inserts. Dust Covers can also be used with standard GigaFlex and EZ-MDVO UTP Modules.

Description	Belden Part Number
<b>MediaFlex Multimedia Insert</b>	
3-port RCA, Gray	AX101877
3-port RCA, Almond	AX101878
3-port RCA, Elec. White	AX101879
3-port RCA, Black	AX101880
3-port RCA, White	AX102616
3-port RCA, Ivory	AX102578
1-port SVHS, Gray	AX101881
1-port SVHS, Almond	AX101882
1-port SVHS, Elec. White	AX101883
1-port SVHS, Black	AX101884
1-port SVHS, White	AX102617
1-port SVHS, Ivory	AX102579
1-port SVGA, Gray	AX101885
1-port SVGA, Almond	AX101886
1-port SVGA, Elec. White	AX101887
1-port SVGA, Black	AX101888
1-port SVGA, White	AX102618
1-port SVGA, Ivory	AX102580
SVGA Feedthrough, Gray	AX102334
SVGA Feedthrough, Almond	AX102335
SVGA Feedthrough, Elec. White	AX102336
SVGA Feedthrough, Black	AX102337
SVGA Feedthrough, White	AX102630
SVGA Feedthrough, Ivory	AX102581
SC Duplex Single-mode, Gray	AX101935
SC Duplex Single-mode, Almond	AX101936
SC Duplex Single-mode, Elec. White	AX101937
SC Duplex Single-mode, Black	AX101938
SC Duplex Single-mode, White	AX102619
SC Duplex Single-mode, Ivory	AX102649
SC Duplex Multimode, Gray	AX101939
SC Duplex Multimode, Almond	AX101940
SC Duplex Multimode, Elec. White	AX101941
SC Duplex Multimode, Black	AX101942
SC Duplex Multimode, White	AX102620
SC Duplex Multimode, Ivory	AX102650
<b>MediaFlex Accessories</b>	
Window Cover, Clear, bag of 25 units	AX101773
Window Cover, Gray, bag of 25 units	AX101774
Window Cover, Almond, bag of 25 units	AX101775
Window Cover, Elec. White, bag of 25 units	AX101776
Window Cover, Black, bag of 25 units	AX101777
Dust Cover, Clear, bag of 50 units	AX101790

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

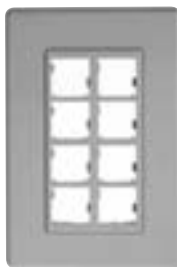
# Workstation Outlets

## MDVO Faceplates Flush and Angled

A0405257 MDVO Faceplate, 1-port



A0405294 MDVO Faceplate, 8-port



A0620807 MDVO Faceplate, 12-port



A0645267 MDVO Angled Entry Faceplate, shown here with modules



### MDVO Faceplate, Flush

**MDVO Faceplates** flush combine ease of use and aesthetics in work area installations. The Single gang faceplates are available in 1-port and 8-port configurations, Double gang faceplates are configured for 12-ports. The Single gang faceplates can fit over the Interface Surface Adapter Boxes for surface mount installations.

MDVO faceplates are suitable for use with EZ-MDVO and MDVO Multimedia Modules.

### MDVO Angled Entry Faceplate

The **MDVO Angled Entry Faceplate** offers better patch cord protection than traditional faceplates and optimizes patch cord bend radius control. The MDVO Angled Entry Faceplate can accept up to four EZ-MDVO or MDVO Multimedia Modules. The faceplate can be attached to standard electrical boxes or wall-mounting hardware for flush-mount installations. The faceplate can also fit over the Interface Surface Adapter Box for surface mount installations.

Description	Belden Part Number
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### Workstation Outlets

MDVO Faceplate	
Flush, 1-port, Single Gang, Gray	A0405255
Flush, 1-port, Single Gang, Almond	A0405256
Flush, 1-port, Single Gang, White	A0405257
Flush, 1-port, Single Gang, Black	A0405258
Flush, 1-port, Single Gang, Ivory	AX102585
Flush, 8-port, Single Gang, Gray	A0405294
Flush, 8-port, Single Gang, Almond	A0405295
Flush, 8-port, Single Gang, White	A0405296
Flush, 8-port, Single Gang, Black	A0405298
Flush, 8-port, Single Gang, Ivory	AX102586
Flush, 12-port, Double Gang, Gray	A0620806
Flush, 12-port, Double Gang, Almond	A0620807
Flush, 12-port, Double Gang, White	A0620808
Flush, 12-port, Double Gang, Black	A0620809
Flush, 12-port, Double Gang, Ivory	AX102587
MDVO Angled Entry Faceplate	
4-port, Gray	A0645267
4-port, Almond	A0645268
4-port, White	A0645269
4-port, Black	A0645270
4-port, Ivory	AX102588

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

## Workstation Outlets

### Interface Plate and Surface Adapter Boxes

AX101431 Interface Plate, 2-port, shown here with modules



AX101438 Interface Plate, 4-port, shown here with modules



AX101441 Interface Plate, 6-port, shown here with modules



AX101474 Interface/MDVO Surface Adapter Box



#### Interface Plate, Flush

**Interface Plates** combine flexibility and ease of use in work area installations. They are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO Multimedia Modules. The Interface Plates are available in Single gang and can accept up to 6 modules. They also have labeling capabilities using built-in labeling windows. The faceplates can be attached to standard electrical boxes or wall-mounting hardware for flush-mount installations. The faceplates can also fit over the Interface Adapter Boxes for surface mount installations.

#### Interface/MDVO Surface Adapter Box

The **Interface/MDVO Surface Adapter Box** allows surface mounting of Interface Plates as well as MDVO Flush and Angled entry faceplates. The box can be mounted on any flat surface or can be attached to standard electrical boxes or wall-mounting hardware for additional storage space.

Description	Belden Part Number
<b>Workstation Outlets</b>	
<b>Interface Plate</b>	
Flush, 2-port, Gray	AX101431
Flush, 2-port, Almond	AX101432
Flush, 2-port, White	AX101433
Flush, 2-port, Black	AX101434
Flush, 2-port, Ivory	AX102582
Flush, 4-port, Gray	AX101435
Flush, 4-port, Almond	AX101436
Flush, 4-port, White	AX101437
Flush, 4-port, Black	AX101438
Flush, 4-port, Ivory	AX102583
Flush, 6-port, Gray	AX101439
Flush, 6-port, Almond	AX101440
Flush, 6-port, White	AX101441
Flush, 6-port, Black	AX101442
Flush, 6-port, Ivory	AX102584
<b>Interface/MDVO Surface Adapter Box</b>	
Single Gang, Gray	AX101474
Single Gang, Almond	AX101475
Single Gang, White	AX101476
Single Gang, Black	AX101477
Single Gang, Ivory	AX102589

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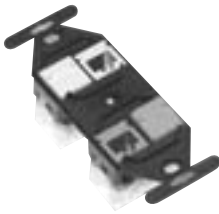
# Workstation Outlets

## MDVO Adapters

A0645271 MDVO Side Entry Box, shown here with modules



AX100311 MDVO 106 Adapter, 4-port, shown here with modules



A0409654 MDVO Deco Adapter, shown here with modules



AX100925 MDVO Modular Furniture Adapter, 4-port, shown here with modules



### MDVO Adapters

All MDVO Adapters are compatible with GigaFlex, EZ-MDVO and MDVO Multimedia Modules.

**The MDVO Side Entry Box** can be easily mounted directly on the wall, as well as on modular furniture panels, baseboards and utility poles. The compact size of the box allows secure installation in confined areas such as behind a desk or underneath a workstation.

**The MDVO 106 Adapters** are designed for installations using standard NEMA electrical-style faceplates also referred to as 106-type or duplex wall plates.

**The MDVO Deco Adapter** is designed for installations using Decora style wall plates.

**MDVO Modular Furniture Adapters** are the ideal outlet adapters for open office furniture applications. They can be snapped into any standard opening, in modular furniture settings.

Description	Belden Part Number
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### Workstation Outlets

MDVO Adapters	
MDVO Side Entry Box, 2-port, Gray	A0645271
MDVO Side Entry Box, 2-port, Almond	A0645272
MDVO Side Entry Box, 2-port, White	A0645273
MDVO Side Entry Box, 2-port, Black	A0645274
MDVO Side Entry Box, 2-port, Ivory	AX102590
MDVO 106 Adapter, 2-port, Gray	AX100304
MDVO 106 Adapter, 2-port, Almond	AX100305
MDVO 106 Adapter, 2-port, White	AX100306
MDVO 106 Adapter, 2-port, Black	AX100307
MDVO 106 Adapter, 2-port, Ivory	AX102591
MDVO 106 Adapter, 4-port, Gray	AX100308
MDVO 106 Adapter, 4-port, Almond	AX100309
MDVO 106 Adapter, 4-port, White	AX100310
MDVO 106 Adapter, 4-port, Black	AX100311
MDVO 106 Adapter, 4-port, Ivory	AX102592
MDVO Deco Adapter, 3-port, Gray	A0409651
MDVO Deco Adapter, 3-port, Almond	A0409652
MDVO Deco Adapter, 3-port, White	A0409653
MDVO Deco Adapter, 3-port, Black	A0409654
MDVO Deco Adapter, 3-port, Ivory	AX102593
MDVO Modular Furniture Adapter, 3-port, Gray	A0407071
MDVO Modular Furniture Adapter, 3-port, Almond	A0407072
MDVO Modular Furniture Adapter, 3-port, White	A0407073
MDVO Modular Furniture Adapter, 3-port, Black	A0407074
MDVO Modular Furniture Adapter, 3-port, Ivory	AX102648
MDVO Modular Furniture Adapter, 4-port, Gray	AX100925
MDVO Modular Furniture Adapter, 4-port, Almond	AX100926
MDVO Modular Furniture Adapter, 4-port, White	AX100927
MDVO Modular Furniture Adapter, 4-port, Black	AX100928
MDVO Modular Furniture Adapter, 4-port, Ivory	AX102594

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# Workstation Outlets

## Stainless Steel Faceplate

AX102007 2-port Stainless Steel SG Faceplate  
Keystone-style, shown here with modules



AX102012 6-port Stainless Steel DG Faceplate  
Keystone-style, shown here with modules



### Stainless Steel Faceplate

Belden's **Stainless Steel Faceplates** are ideal for labs, sanitary, medical, and harsh environment type applications.

They are designed to accept Keystone-style modules. The Stainless Steel Faceplates are available as Single Gang and Double Gang, and can accept up to 12 modules. A studded version designed to support a wall phone is also offered. Stainless Steel Faceplates can be attached to standard NEMA type outlet boxes or wall-mounting hardware for flush-mount installation. Stainless Steel Faceplates are cULus Listed.

**Please note :** For use only with Keystone-style modules such as GigaFlex PS6+, GigaFlex PS5E and EZ-MDVO Modules.

Description	Belden Part Number
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### Workstation Outlets

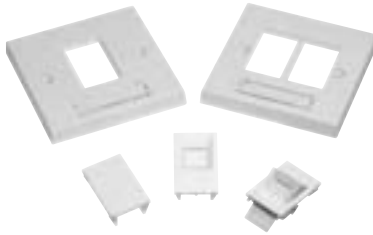
Stainless Steel Faceplate	
1-Port Stainless Steel SG Faceplate - Keystone-style studded for Phone	<b>AX102005</b>
1-Port Stainless Steel SG Faceplate - Keystone-style	<b>AX102006</b>
2-Port Stainless Steel SG Faceplate - Keystone-style	<b>AX102007</b>
3-Port Stainless Steel SG Faceplate - Keystone-style	<b>AX102008</b>
4-Port Stainless Steel SG Faceplate - Keystone-style	<b>AX102009</b>
6-Port Stainless Steel SG Faceplate - Keystone-style	<b>AX102010</b>
4-Port Stainless Steel DG Faceplate - Keystone-style	<b>AX102011</b>
6-Port Stainless Steel DG Faceplate - Keystone-style	<b>AX102012</b>
12-Port Stainless Steel DG Faceplate - Keystone-style	<b>AX102013</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

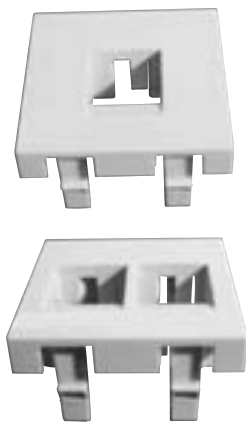
# Workstation Outlets

## European Style Faceplates and Inserts

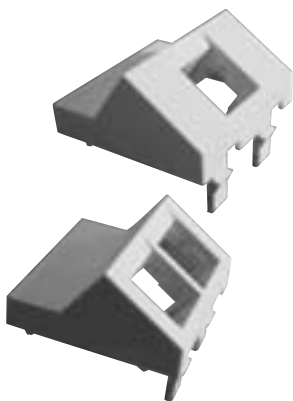
AX101372-73 European “6C” Style Faceplates and AX101377-75-76 European “6C” Inserts



AX101413-14 French Style Faceplates



AX101415-16 French Style Faceplates



### European “6C” Style Faceplate

The European “6C” Style faceplates and Inserts are designed to accept the GigaFlex and EZ-MDVO UTP Modules.

They include a shutter to protect the module against dust and other contaminants.

### French Style Faceplate

The French Style Faceplates are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO multimedia modules. The faceplates can be attached to standard 45 mm x 45 mm boxes or mounting hardware for flush-mount installations.

Description	Belden Part Number
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### Workstation Outlets

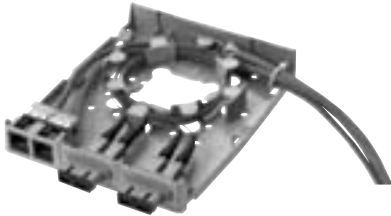
European “6C” Style Faceplate	
European “6C” Style Faceplate, Single Gang, Single Aperture, White	AX101372
European “6C” Style Faceplate, Single Gang, Dual Aperture, White	AX101373
European “6C” Style Faceplate, Double Gang, Quad Aperture, White	AX101374
European “6C” Shuttered Module Holder, 1-port, Flush, White	AX101375
European “6C” Shuttered Module Holder, 1-port, Angled, White	AX101376
European “6C” Blank Insert, White	AX101377
French Style Faceplate	
1-port, Flush, White	AX101413
2-port, Flush, White	AX101414
1-port, Angled, White	AX101415
2-port, Angled, White	AX101416

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

## Workstation Outlets

### MDVO Multimedia Outlet Boxes, Multi-User Outlet Boxes and Multi-User Adapter Strips

A0643205 MDVO Multimedia Outlet Box, shown here as terminated



AX100222 Multi-User Outlet Box, shown here with modules



AX100223 MDVO Adapter Strip, 12-port



#### MDVO Multimedia Outlet Box

The **MDVO Multimedia Outlet Box** brings unique versatility for multimedia work area installations. The box design provides cable management and helps maintain cable bend radius. The outlet box's low profile design and side-entry offers better protection for patch cords. The outlet box can accept up to six EZ-MDVO, GigaFlex or MDVO Multimedia Modules or three SC Duplex adapters.

The MDVO Multimedia Outlet Box can be mounted directly on the wall or attached to standard electrical boxes. Included with the MDVO Multimedia box are three SC Duplex Mounting bezels and three MDVO Adapters.

#### Multi-User Outlet Box

The **Multi-User Outlet Box** is a versatile box that can be used in many different applications. The outlet box can accommodate up to 24 connections of any type, UTP, fiber or coax. The outlet box is ideal for use as a multi-user telecommunications assembly, or simply as a high-density multimedia telecommunications outlet. The Multi-User Outlet Box can also be used as a wall mounted patch panel in confined areas, such as shallow rooms and cabinets.

#### Multi-User Adapter Strips

The Multi-User Outlet Box design allows for mixed media installations with a choice of connection strips. The box can accept either one or two 12-port **MDVO Adapter Strips, PS5E HD Connector Module Strips (BIX or 110)**, or a combination of both for a maximum of 24 connections.

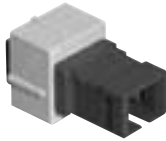
Description	Belden Part Number
<b>Workstation Outlets</b>	
<b>MDVO Multimedia Outlet Box</b>	
6-port, Gray	A0643205
6-port, Almond	A0643206
6-port, White	A0643207
6-port, Black	A0643208
6-port, Ivory	AX102595
<b>Multi-User Outlet Box</b>	
24-port, Gray	AX100219
24-port, Almond	AX100220
24-port, White	AX100221
24-port, Black	AX100222
<b>Multi-User Adapter Strips</b>	
MDVO Adapter Strip, 12-port, Empty, Black	AX100223
PS5E HD-BIX Connector Module Strip, Universal Wiring 12-port, T568A/B	AX100224
PS5E HD-110 Connector Module Strip, Universal Wiring 12-port, T568B/A	AX100494

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# Workstation Outlets

## MDVO Multimedia Modules

A0407005 MDVO SC Fiber Module



A0649254 SC Duplex Adapter



A0407010 MDVO ST Compatible Fiber Module



AX101467 MDVO MTRJ Fiber Module



A0406997 MDVO BNC Coaxial Module



A0406999 MDVO Video F Coaxial Module



### MDVO Multimedia Module

**MDVO Multimedia Modules** address audio/video and fiber applications. Fiber modules are available for LC Duplex, SC Simplex, ST Compatible multimode and MT-RJ multimode & single-mode connections. The SC Duplex Adapter is a fiber adapter sleeve with flanges that mounts into the SC Duplex mounting bezel (included in the MDVO Multimedia Outlet box). Audio/video modules are available for SVHS, RCA, BNC and Video F connections.

Description	Belden Part Number				
	Gray	Almond	White	Black	Ivory

### Workstation Outlets

MDVO Multimedia Module					
LC Duplex Multimode	AX102209	AX102210	AX102211	AX102619	
LC Duplex Single-mode	AX102213	AX102214	AX102215	AX102216	
SC Simplex, Multimode	A0407003	A0407004	A0407005	A0407006	AX102596
SC Duplex Adapter, Multimode	A0649254				
ST Compatible, Multimode	A0407007	A0407008	A0407009	A0407010	AX102597
MT-RJ, Multimode	AX101467				
MT-RJ, Single-mode, Blue	AX101466				

Description	Belden Part Number				
	Gray Holder	Almond Holder	White Holder	Black Holder	Ivory Holder
Coaxial, BNC	A0406995	A0406996	A0406997	A0406998	AX102598
Coaxial, Video F	A0406999	A0407000	A0407001	A0407002	AX102599
RCA, feedthru, White insert	AX101823	AX101824	AX101825	AX101826	AX102601
RCA, feedthru, Yellow insert	AX101827	AX101828	AX101829	AX101830	AX102602
RCA, feedthru, Red insert	AX101831	AX101832	AX101833	AX101834	AX102603
RCA, feedthru, Black insert	AX101835	AX101836	AX101837	AX101838	AX102604
SVHS, feedthrough	AX101839	AX101840	AX101841	AX101842	AX102605
3.5mm Stereo	AX102624	AX102625	AX102626	AX102627	AX102628

Custom multimedia connectors are also available, please contact Customer Service for more details.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# Workstation Outlets

## PS5E BIX DVO Outlets and Double Gang Outlet

PS5E BIX DVO Outlets



AX100601 PS5E BIX DVO Module



AX100613 DVO Faceplate, 3-port



AX100640 DVO Faceplate, 4-port



### PS5E BIX DVO Outlet

The **PS5E BIX DVO Workstation Outlets** are robust and installer-friendly products, combining punch-down connectors with standard modular jacks. The outlet's unique, completely enclosed housing protects the connectors and allows the wires to be front-terminated on BIX Insulation Displacement Connectors (IDC). The snap-on cover plate allows easy access and eliminates visible mounting screws.

PS5E BIX DVO Workstation Outlets offer headroom over the Category 5e cabling standard.

### PS5E BIX DVO Double Gang Outlet

PS5E BIX DVO Double Gang Workstation Outlets offer high capacity outlet configuration options in the work area. They are created by combining **PS5E BIX DVO Connector Modules and DVO Double Gang Faceplates**.

Each faceplate can accept up to two connector modules. A color-coded icon labeling system can be used to tag each outlet port and simplify network management.

Description	Belden Part Number		
	1-Port	2-Port	4-Port

#### Workstation Outlets

PS5E BIX DVO Outlets			
Surface, T568A-ISDN, Gray	AX100382	AX100390	AX100398
Surface, T568A-ISDN, Almond	AX100383	AX100391	AX100399
Surface, T568A-ISDN, White	AX100384	AX100392	AX100400
Surface, T568A-ISDN, Black	AX100385	AX100393	AX100401
Surface, T568B-ALT, Gray	AX100386	AX100394	AX100402
Surface, T568B-ALT, Almond	AX100387	AX100395	AX100403
Surface, T568B-ALT, White	AX100388	AX100396	AX100404
Surface, T568B-ALT, Black	AX100389	AX100397	AX100405
Flush, T568A-ISDN, Gray	AX100334	AX100342	AX100350
Flush, T568A-ISDN, Almond	AX100335	AX100343	AX100351
Flush, T568A-ISDN, White	AX100336	AX100344	AX100352
Flush, T568A-ISDN, Black	AX100337	AX100345	AX100353
Flush, T568B-ALT, Gray	AX100338	AX100346	AX100354
Flush, T568B-ALT, Almond	AX100339	AX100347	AX100355
Flush, T568B-ALT, White	AX100340	AX100348	AX100356
Flush, T568B-ALT, Black	AX100341	AX100349	AX100357

Description	Belden Part Number			
	T568A-ISDN	T568B-ALT	3-Port	4-Port

PS5E BIX DVO Double Gang Outlet				
PS5E BIX DVO Connector Module, Flush, 1-port, Gray	AX100601	AX100604		
PS5E BIX DVO Connector Module, Flush, 2-port, Gray	AX100602	AX100605		
DVO Double Gang Faceplate, Flush, Gray			AX100613	AX100640
DVO Double Gang Faceplate, Flush, Almond			AX100614	AX100641
DVO Double Gang Faceplate, Flush, White			AX100615	AX100642
DVO Double Gang Faceplate, Flush, Black			AX100616	AX100643

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



# Workstation Outlets

## Outlet Accessories

A0405538 MDVO Blank Insert



### MDVO Blank Insert

**MDVO Blank Inserts** can be used in any MediaFlex outlets, Interface plates, MDVO faceplates, adapters or boxes to fill in unused ports.

AX102022 Colored Bezel



### Colored Bezel

The **Colored Bezels** are plastic inserts that fit over the face of GigaFlex and EZ-MDVO Modules to modify their color. They are particularly useful in installations where the churn rate is high and color identification of outlets is critical (ex.: segmented network with security levels). They also contribute to simplifying the management of the cabling infrastructure by using only one color of module for Moves, Adds and Changes (MACs).

AX100196 ID Tab



### ID Tab

**ID Tabs** are color-coded identification caps that can be inserted over the GigaFlex and EZ-MDVO Modules. The ID tabs are available as blank, data or voice coded. They are available in eleven colors to facilitate identification and to match modern office decor.

The flexible identification cap also acts as a protective cover eliminating exposure to dust and other contaminants when the module is not in use.

Description	Belden Part Number
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### Workstation Outlets

#### MDVO Blank Insert

Gray	A0405536
Almond	A0405537
White	A0405538
Black	A0405539
Electric White	AX102607
Ivory	AX102600

#### Colored Bezel

Gray	AX102014
Almond	AX102015
White	AX102016
Black	AX102017
Orange	AX102018
Red	AX102019
Yellow	AX102020
Green	AX102021
Blue	AX102022
Purple	AX102023
Brown	AX102024
Ivory	AX102606

Description	Belden Part Number		
	Blank	Data	Voice

#### ID Tab

Gray	AX100182	AX100193	AX100204
Almond	AX100183	AX100194	AX100205
White	AX100184	AX100195	AX100206
Black	AX100185	AX100196	AX100207
Orange	AX100186	AX100197	AX100208
Red	AX100187	AX100198	AX100209
Yellow	AX100188	AX100199	AX100210
Green	AX100189	AX100200	AX100211
Blue	AX100190	AX100201	AX100212
Purple	AX100191	AX100202	AX100213
Brown	AX100192	AX100203	AX100214

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



# Workstation Outlets

## Tools

AX100749 GigaFlex Connecting Tool



### GigaFlex Connecting Tool

The **GigaFlex Connecting Tool** is a no-impact connecting tool used to terminate cables, pigtails or cross-connect wires on any GigaFlex Module or 110 product. The GigaFlex Tool is a spring-activated hand tool. A single forward movement will seat the wire into the IDC clip and cut off the excess wire. The tool will terminate 22, 24 and 26-AWG plastic insulated solid copper conductors.

1797B Cable Preparation Tool



### Bonded-Pair Cable Preparation Tool

The **Bonded-Pair Cable Preparation Tool** makes it faster and easier to prepare cables for connector termination. This tool is ideal for use with Belden's DataTwist® 350, MediaTwist®, and DataTwist® 600e Bonded-Pair cables, providing special features that help separate twisted pairs. It can also be used to prepare any nonbonded-pair cable for installation.

AX101852 Termination Station



### Termination Station

The **Termination Station** is an ergonomically designed holder that provides stability to the GigaFlex Module during the termination process. The station has pockets with locking features that steadily holds either MDVO-style or Keystone-style GigaFlex Modules or MediaFlex Inserts during pair placement and wire termination. Cable retainers on each end of the station will secure and hold cables during the pair placements process. The flat bottom surface will provide the required stability to safely terminate the modules. The tool is made of very durable plastic and its low profile makes it an easy tool to use and carry.

### Outlet Release Tool

The **Outlet Release Tool** is a very convenient tool for servicing the MediaFlex and Interface outlets. Its bent tip allows for easy front removal of MediaFlex inserts, especially when used in Angled Entry plates. It is also very useful to extract GigaFlex Modules from miscellaneous mounting hardware and to remove the protective cap for GigaFlex Module re-termination.

AX101185 Outlet Release Tool



Description	Belden Part Number
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### Workstation Outlets

Tools	
GigaFlex Connecting Tool	AX100749
Bonded-Pair Cable Preparation Tool	1797B
Termination Station	AX101852
Outlet Release Tool	AX101185

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.



## Modular Cords

### GigaFlex PS6+ Modular Cords and GigaFlex PS6+ Bonded Modular Cords Enhanced Category 6

AX350061 GigaFlex PS6+ Modular Cord



#### GigaFlex PS6+ Modular Cord

The **GigaFlex PS6+ Modular Cords** are 4-pair 23 AWG UTP modular cords designed for use with the Belden IBDN Systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ Modular Cord's patented design, with a very small footprint, makes them fully compatible with any of the highest density hubs with RJ45 jack connections.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow

#### Modular Cords

GigaFlex PS6+ Modular Cord, CMR 4-pair, 23 AWG solid, T568A/B-T568A/B						
0.6 m (2 ft.)	AX350037	AX350043	AX350049	AX350055	AX350061	AX350067
1.2 m (4 ft.)	AX350038	AX350044	AX350050	AX350056	AX350062	AX350068
2.1 m (7 ft.)	AX350039	AX350045	AX350051	AX350057	AX350063	AX350069
3.0 m (10 ft.)	AX350040	AX350046	AX350052	AX350058	AX350064	AX350070
4.6 m (15 ft.)	AX350041	AX350047	AX350053	AX350059	AX350065	AX350071
7.6 m (25 ft.)	AX350042	AX350048	AX350054	AX350060	AX350066	AX350072
4-pair, 23 AWG solid, T568A/B-open						
4.6 m (15 ft.)	AX350160					
7.6 m (25 ft.)	AX350161					
10.6 m (35 ft.)	AX350162					
15.0 m (50 ft.)	AX350163					

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

AX380014 GigaFlex PS6+ Bonded Modular Cord



#### GigaFlex PS6+ Bonded Modular Cords

The **GigaFlex PS6+ Bonded Modular Cords** are 4-pair 24 AWG Bonded-Pair UTP modular cords designed for use with the Belden IBDN Systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ Bonded Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ Bonded Modular Cord's patented design, with a very small footprint, makes them fully compatible with the highest density hubs, with any RJ45 jack connections. The special cord design offers increased stability in crosstalk and impedance performance to support the many moves, adds and changes performed in the lifetime of the system.

Description	Belden Part Number			
	Blue	Gray	White	Yellow

#### Modular Cords

GigaFlex PS6+ Bonded Mod. Cord, CMR, 4-pr, Bonded 24 AWG solid, T568A/B-T568A/B				
1.2 m (4 ft.)	AX380014	AX380026	AX380050	AX380056
2.1 m (7 ft.)	AX380015	AX380027	AX380051	AX380057
3.0 m (10 ft.)	AX380016	AX380028	AX380052	AX380058
4.6 m (15 ft.)	AX380017	AX380029	AX380053	AX380059
7.6 m (25 ft.)	AX380018	AX380030	AX380054	AX380060

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

## Modular Cords

### GigaFlex PS5E Modular Cords and GigaFlex PS5E VoIP Cords Category 5E

AX350013 GigaFlex PS5E Modular Cord



#### GigaFlex PS5E Modular Cord

The **GigaFlex PS5E Modular Cords** are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN Plus Cabling System and the Belden IBDN System 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The GigaFlex PS5E Modular Cord's patented design features a very small footprint, making them fully compatible with the highest density hubs which use RJ45 jack connections. The GigaFlex PS5E Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow

#### Modular Cords

GigaFlex PS5E Mod. Cord, CMR 4-pr, 24 AWG stranded, T568A/B-T568A/B						
0.6 m (2 ft.)	AX350001	AX350007	AX350013	AX350019	AX350025	AX350031
1.2 m (4 ft.)	AX350002	AX350008	AX350014	AX350020	AX350026	AX350032
2.1 m (7 ft.)	AX350003	AX350009	AX350015	AX350021	AX350027	AX350033
3.0 m (10 ft.)	AX350004	AX350010	AX350016	AX350022	AX350028	AX350034
4.6 m (15 ft.)	AX350005	AX350011	AX350017	AX350023	AX350029	AX350035
7.6 m (25 ft.)	AX350006	AX350012	AX350018	AX350024	AX350030	AX350036

AX330015 GigaFlex PS5E VoIP Modular Cord



VoIP Modular Cord features very short body RJ 45 phone connector on other end

#### GigaFlex PS5E VoIP Modular Cords

The **GigaFlex PS5E VoIP Modular Cords** are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN Plus Cabling System and the Belden IBDN System 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively. The GigaFlex PS5E VoIP Modular Cord is designed for use with VoIP phones that can not accommodate standard booted patch cords which would make the phone unstable or difficult to wall mount. The GigaFlex PS5E VoIP Modular Cord is designed with a regular booted RJ 45 plug on one end (at the wall) and a bootless very short body RJ 45 plug on the other end (at the phone). The GigaFlex PS5E VoIP Modular Cords meet all the enhanced Category 5 modular cord requirements as per the Category 5e standard, and are completely backward compatible with Category 5 jacks. The GigaFlex PS5E VoIP Modular Cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard. The GigaFlex PS5E VoIP Modular Cord product line encompass CMR-rated cords.

Description	Belden Part Number					
	Blue	White	Gray	Green	Red	Yellow

#### Modular Cords

GigaFlex PS5E VoIP Mod.Cord, CMR, 4-pair, 24 AWG stranded,T568A/B-T568A/B						
0.6 m (2 ft.)	AX330013	AX330049	AX330025	AX330019	AX330043	AX330055
1.2 m (4 ft.)	AX330014	AX330050	AX330026	AX330020	AX330044	AX330056
2.1 m (7 ft.)	AX330015	AX330051	AX330027	AX330021	AX330045	AX330057
3.0 m (10 ft.)	AX330016	AX330052	AX330028	AX330022	AX330046	AX330058
4.6 m (15 ft.)	AX330017	AX330053	AX330029	AX330023	AX330047	AX330059
7.6 m (25 ft.)	AX330018	AX330054	AX330030	AX330024	AX330048	AX330060

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# Modular Cords

## Category 5e Modular Cords

Category 5e Modular Cord



### Category 5e Modular Cord

Category 5e Modular Cords are made of plenum and riser rated 24 AWG patch cable.

Description	Belden Part Number					
	Blue	Green	Red	White	Yellow	Gray

#### Modular Cords

##### Cat. 5e Modular Cord, CMR, 4-pair, 24 AWG stranded, T568A/B-T568A/B

0.6 m (2 ft.)	23518027	23528027	23538027	23548027	23568027	23598027
1.2 m (4 ft.)	23518047	23528047	23538047	23548047	23568047	23598047
2.1 m (7 ft.)	23518077	23528077	23538077	23548077	23568077	23598077
3.0 m (10 ft.)	23518107	23528107	23538107	23548107	23568107	23598107
4.6 m (15 ft.)	23518157	23528157	23538157	23548157	23568157	23598157
7.6 m (25 ft.)	23518257	23528257	23538257	23548257	23568257	23598257

##### Cat. 5e X-Over Cord, 4-pair, 24 AWG stranded, T568A-T568B X-Over

2.1 m (7 ft.)	23598074
4.6 m (15 ft.)	23598154
7.6 m (25 ft.)	23598254

Description	Belden Part Number	
	CMR	CMP

#### Modular Cords

##### Cat. 5e Modular Cord, Gray, 4-pair, 24 AWG solid, T568A/B-T568A/B

2.1 m (7 ft.)	23498077	23338077
3.0 m (10 ft.)	23498107	23398107
7.6 m (25 ft.)	23498257	23398257
15.0 m (50 ft.)	23498507	23398507
20.1 m (66 ft.)	23498667	23398667

##### Cat. 5e Pigtails, Gray, 4-pair, 24 AWG solid, T568A/B-open

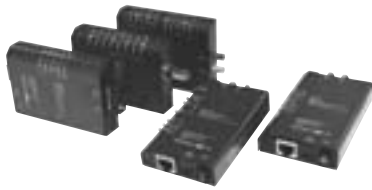
3.0 m (10 ft.)	23498105	—
4.6 m (15 ft.)	23498155	—
7.6 m (25 ft.)	23498255	23398255
10.6 m (35 ft.)	23498355	23398355
15.0 m (50 ft.)	23498505	23398505

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

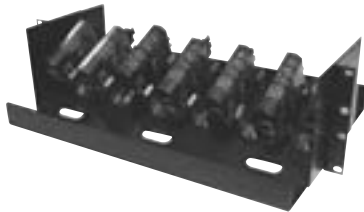
# Network Connectivity Products

## Media Converters, Transceivers & Hubs and Network Tester

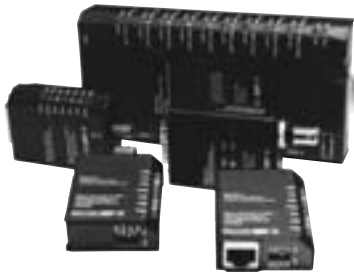
Media Converters



AX-1912 Media Converter Rack



AX050, 70 and 80 Transceivers and AX-509 Ethernet Hub



AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit



### Media Converters for Ethernet and Fast Ethernet

**Media Converters** enable the connection of dissimilar network cabling types, while maintaining the same network speed. A legacy Thinnet segment can be connected to a 10Base-T Hub or switch port with a AX-200 Converter or, link two different 10Base-T networks together over a multimode fiber optic link with a pair of AX-270s. Connect a legacy Thinnet segment over fiber with the AX-280 converter. The AX-5270 can be used for interbuilding links or attached to a fiber backbone.

### Transceivers and Ethernet Hubs

**The AX-50, 70 and 80 Transceivers** enable the connection of a legacy AUI port to 10Base-T, Thinnet, or Fiber Optic media. The transceiver is powered from the host and requires no external power supply.

**The AX-509 Ethernet Hub** has an AUI port which accepts UTP, Fiber Optic or BNC transceivers. Specified for use by many U.S. Government Agencies. Includes a 110v/12v power supply.

### Realtime 10/100 Base-TX Ethernet Network Test Unit

**The AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit** is a cost effective way to quickly determine a network's operating condition. Plug the unit's patch cord into the tester then into any open RJ-45 jack in an office, cubicle or conference room. Immediately see if the jack is a live network node capable of either 100 Mb/s or 10 Mb/s. Next check patch cord continuity and polarity. Connect the downlink to a PC to check NIC card link, speed and full or half duplex capabilities. Connect the uplink to a hub or switch port to verify link and speed.

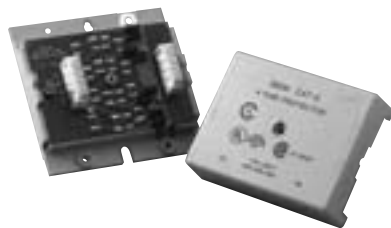
Description	Belden Part Number
<b>Network Connectivity Products</b>	
<b>Media Converter</b>	
10Base-T/10Base2, RJ-45 to BNC	<b>AX-200</b>
10Base-T/10Base-FL, RJ-45 to ST-Compatible fiber connectors	<b>AX-270</b>
10Base2/10Base-FL, BNC to ST-Compatible fiber connectors	<b>AX-280</b>
100Base-TX/100Base-FX, SC-Compatible fiber connectors	<b>AX-5270SC</b>
100Base-TX/100Base-FX, ST-Compatible fiber connectors	<b>AX-5270ST</b>
<b>Media Converter Rack</b>	
Holds up to 12 converters and multi lead power supplies, 19 in. rack-mount ready	<b>AX-1912-MCR</b>
Power Supply, 4-lead 110v/12v, powers up to 4 converters	<b>AX-270P4U</b>
Power Supply, 8-lead 110v/12v, powers up to 8 converters	<b>AX-270P8U</b>
<b>Transceivers and Ethernet Hubs</b>	
UTP Transceiver, 10Base-T, AUI to RJ-45, side port	<b>AX-50</b>
UTP Transceiver, 10Base-T, AUI to RJ-45, rear port	<b>AX-50R</b>
Fiber Transceiver, 10Base-FL, AUI to ST-Compatible	<b>AX-70</b>
Thinnet Transceiver, 10Base2, AUI to BNC	<b>AX-80</b>
Ethernet Hub with 8 RJ-45 10Base-T ports and 1 AUI port	<b>AX-509</b>
<b>Network Tester</b>	
Realtime 10/100 Base-TX Ethernet Network Test Unit	<b>AX-110BT</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# Line Protection and Bonding & Grounding

## IDC 4-pair Protector Modules, PVCI Ground Wires, Bond Clamp and Accessories

AX100826 Cat-5e, 4-pair Protector

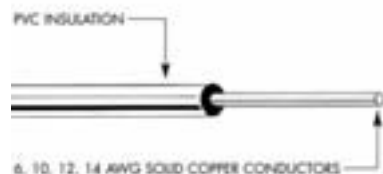


### IDC 4-pair Protector Module

The **IDC 4-pair Protector Module** is a high-performance Category 5e, solid-state protection for Local Area Networks. Protects sensitive electronic workstations, network equipment, and cables from damage caused by transient voltage surges. Provides 100% protection with easy-to-install BIX or 110 IDC termination in a convenient 4-pair module.

Description	Belden Part Number
<b>Line Protection</b>	
<b>IDC 4-pair Protector Module</b>	
IDC Protector Module, Category 5e, 4-pair, BIX Protector, 1/pack	<b>AX100826</b>
IDC Protector Module, Category 5e, 4-pair, 110 Protector, 1/pack	<b>AX100827</b>

PVCI Ground Wire



### PVCI Ground Wire

**PVCI Ground Wire** consists of 6, 10, 12 and 14 AWG Solid annealed copper conductors individually insulated with polyvinyl chloride compound.

X9905753 Bond Clamp



### Bond Clamp

The **Bond Clamps** are used to attach the cable shield to the ground via Ground Wire. They are recommended for use with Riser Cables and Outside Plant Cables. The bond clamps consist of heavy plates and a securing nut with an integral spring washer. The plates are curved to conform to the contours of the cable. The upper plate has "teeth" which penetrate the polyethylene cable jacket and align with the perforations in the lower plate. The lower plate has burred perforations that penetrate into the metallic sheath of the cable.

AX100226 Six-position Ground Bracket



### Accessories

A **Six-position Ground Bracket** is used to terminate and ground up to 5 cable sheaths. The sixth position on the bracket is used to provide the ground return to the Distribution Terminal and is not available to ground a cable.

Two **Ground Wire Clips** on each side of the ground wire are required to ground one cable.

X9908359 6 AWG Ground Wire Clip



Description	Belden Part Number
<b>Bonding &amp; Grounding</b>	
<b>PVCI Ground Wire</b>	
PVCI Ground Wire, 6 AWG, Black, 75 m (246 ft.), Coil	<b>22214348</b>
PVCI Ground Wire, 10 AWG, Black, 50 m (164 ft.), Coil	<b>22214500</b>
PVCI Ground Wire, 12 AWG, Almond, 50 m (164 ft.), Coil	<b>22214700</b>
PVCI Ground Wire, 14 AWG, Olive Gray, 75 m (246 ft.), Coil	<b>22214900</b>
<b>Bond Clamp</b>	
Bond Clamp, QCF1A 19 mm (0.75 in.) cable and above	<b>X9905753</b>
Bond Clamp, QCF2A 19 mm (0.75 in.) cable and below	<b>X9905754</b>
<b>Accessories</b>	
Bond Clamp Accessories, Six-position Ground Bracket	<b>AX100226</b>
Bond Clamp Accessories, 6 AWG Ground Wire Clip	<b>X9908359</b>

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

# DataTwist® 600e UTP Cable

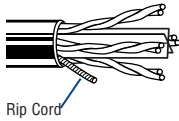
TIA/EIA-568-B.2-1, Category 6  
Enhanced Category 6 Bonded-Pair Cables

**Certified System Cable**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

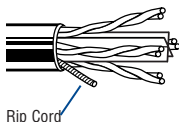
**23 AWG Bonded-Pairs** Solid Bare Copper Conductors • Patented E-Spline Center Member • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue, Black, White or Gray)

	<b>7851A</b>	NEC: CMR CEC: CMR	4	1000	304.8	38.0	17.2	.227	5.77	8.2	3.0	65.6	1	1.9	80.3	78.5	70.8	100±12	20.0							
				A-1000	A-304.8	47.0	21.3	x	x											10	5.7	65.3	59.6	50.8	100±12	25.0
								.315	8.00											31.25	10.2	57.9	47.7	40.9	100±15	25.0
																				62.5	14.7	53.4	38.7	34.9	100±15	25.0
																				100	18.9	50.3	31.4	30.8	100±15	25.0
																				155	23.9	47.5	23.5	27.0	100±15	22.8
																				200	27.5	45.8	18.3	24.8	100±15	21.7
																				250	31.2	44.3	13.2	22.8	100±20	20.5
																				350	37.7	40.2	4.5	19.9	100±22	19.8
																				400	40.6	39.3	0.6	18.8	100±22	19.5
																				500	46.2	37.8	>0*	16.8	100±22	18.4
																				550	48.8	37.2	—	16.0	100±22	18.0
																				600	51.4	36.6	—	15.2	100±22	17.6

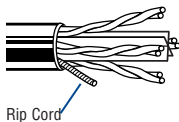
Third party verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1  
Jacket sequentially marked at 2 ft. intervals. Features Descending Length Marking.

**Non-Plenum • Polyolefin Insulation • Gray Haloarrest® Jacket**

	<b>7851NH</b>	NEC: CMP CEC: CMP	4	1000	304.8	39.0	17.7	.241	6.12	8.2	3.0	65.6	1	1.9	80.3	78.5	70.8	100±12	20.0							
				A-1000	A-304.8	48.0	21.8	x	x											10	5.7	65.3	59.6	50.8	100±12	25.0
								.329	8.36											31.25	10.2	57.9	47.7	40.9	100±15	25.0
																				62.5	14.7	53.4	38.7	34.9	100±15	25.0
																				100	18.9	50.3	31.4	30.8	100±15	25.0
																				155	23.9	47.5	23.5	27.0	100±15	22.8
																				200	27.5	45.8	18.3	24.8	100±15	21.7
																				250	31.2	44.3	13.2	22.8	100±20	20.5
																				350	37.7	40.2	4.5	19.9	100±22	19.8
																				400	40.6	39.3	0.6	18.8	100±22	19.5
																				500	46.2	37.8	>0*	16.8	100±22	18.4
																				550	48.8	37.2	—	16.0	100±22	18.0
																				600	51.4	36.6	—	15.2	100±22	17.6

Third party verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1  
Jacket sequentially marked at 1 meter intervals. Features Descending Length Marking.

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Available in Red, Orange, Yellow, Green, Blue, Black, White or Gray)

	<b>7852A</b>	NEC: CMP CEC: CMP	4	1000	304.8	40.0	18.1	.218	5.54	8.2	3.0	65.6	1	1.9	80.3	78.5	70.8	100±12	20.0							
				A-1000 †	A-304.8	49.0	22.2	x	x											10	5.7	65.3	59.6	50.8	100±12	25.0
								.290	7.37											31.25	10.2	57.9	47.7	40.9	100±15	25.0
																				62.5	14.7	53.4	38.7	34.9	100±15	25.0
																				100	18.9	50.3	31.4	30.8	100±15	25.0
																				155	23.9	47.5	23.5	27.0	100±15	22.8
																				200	27.5	45.8	18.3	24.8	100±15	21.7
																				250	31.2	44.3	13.2	22.8	100±20	20.5
																				350	37.7	40.2	4.5	19.9	100±22	19.8
																				400	40.6	39.3	0.6	18.8	100±22	19.5
																				500	46.2	37.8	>0*	16.8	100±22	18.4
																				550	48.8	37.2	—	16.0	100±22	18.0
																				600	51.4	36.6	—	15.2	100±22	17.6

† A-1000 ft. put-up not available in Red.

Third party verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1  
Jacket sequentially marked at 2 ft. intervals. Features descending Length marking.

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

\*PSUM ACR >0 is guaranteed to 460 MHz

 Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

### DataTwist 600e: Beyond Category 6

Belden® DataTwist 600e data cable is a revolutionary UTP cable engineered specifically to perform well beyond Category 6 standards. While Category 6 cable is specified only to 250 MHz, DataTwist 600e is the only Cat 6 UTP cable in the industry fully characterized with guaranteed performance to 600 MHz. So users have far more headroom to compensate for unforeseen factors that can inhibit the performance of a cabling system today...and protection of their technology investment for the future.

### Handy Cable Preparation Tool Speeds Installation Of Bonded-Pair Cables

You know the high performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden Cable Preparation Tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination providing special features that help separate twisted pairs. The Cable Preparation Tool is packed with every spool of DataTwist 600e. See page 15.40 for more information.



### Color Codes: DataTwist 600e

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.



# GigaFlex 4800LX Cable Series

## ANSI/TIA/EIA-568-B.2-1, Category 6

### Enhanced Category 6 Nonbonded-pair Cables

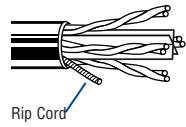
**Certified System Cable**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**23 AWG Solid Bare Copper Conductors • Twisted Pairs • Central Cross Web Filler • Rip Cord • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • PVC Jacket**

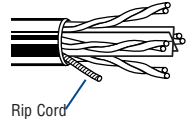
White - Reel	<b>24586385</b>	NEC:	4	1000	304.8	29.1	13.2	.245	6.22	6.6	3.0	50	0.772	1.7	80.0	78.3	74.0	100±12	—
Blue - Reel	<b>24586985</b>	CMR											1.0	1.8	78.3	76.5	71.8	100±12	20.0
		CEC:											4.0	3.4	69.3	65.9	59.7	100±12	23.0
		CMR											8.0	4.8	64.8	60.0	53.7	100±12	25.0
													10.0	5.3	63.3	58.0	51.8	100±12	25.0
													16.0	6.8	60.3	53.5	47.7	100±12	25.0
													20.0	7.6	58.8	51.2	45.7	100±12	25.0
													25.0	8.5	57.3	48.8	43.8	100±15	24.6
													31.25	9.6	55.9	46.3	41.9	100±15	24.2
													62.5	13.8	51.4	37.6	35.8	100±15	23.0
			100.0	17.8	48.3	30.5	31.8	100±15	22.1										
			200.0	26.2	43.8	17.6	25.7	100±15	20.9										
			250.0	29.7	42.3	12.6	23.8	100±20	20.5										
			300.0	33.0	41.2	8.2	22.2	100±20	20.2										
			350.0	36.1	40.2	4.1	20.9	100±22	19.9										
			400.0	39.0	39.3	0.3	19.7	100±22	19.7										
			450.0 <sup>Ⓟ</sup>	41.8	38.5	-3.3	18.7	100±22	19.5										
			500.0 <sup>Ⓟ</sup>	44.5	37.8	-6.7	17.8	100±22	19.3										
			550.0 <sup>Ⓟ</sup>	47.1	37.2	-9.9	16.9	100±22	19.1										



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

**Non-Plenum • Polyolefin Insulation - LSZH Polymer Alloy**

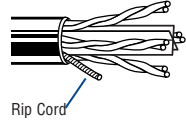
Purple - Reel	<b>24588085</b>	NEC:	4	1000	304.8	31.1	14.1	.246	6.10	6.6	3.0	50	0.772	1.7	80.0	78.3	74.0	100±12	—
		CMR											1.0	1.8	78.3	76.5	71.8	100±12	20.0
		CEC:											4.0	3.4	69.3	65.9	59.7	100±12	23.0
		CMR											8.0	4.8	64.8	60.0	53.7	100±12	25.0
													10.0	5.3	63.3	58.0	51.8	100±12	25.0
													16.0	6.8	60.3	53.5	47.7	100±12	25.0
													20.0	7.6	58.8	51.2	45.7	100±12	25.0
													25.0	8.5	57.3	48.8	43.8	100±15	24.6
													31.25	9.6	55.9	46.3	41.9	100±15	24.2
													62.5	13.8	51.4	37.6	35.8	100±15	23.0
			100.0	17.8	48.3	30.5	31.8	100±15	22.1										
			200.0	26.2	43.8	17.6	25.7	100±15	20.9										
			250.0	29.7	42.3	12.6	23.8	100±20	20.5										
			300.0	33.0	41.2	8.2	22.2	100±20	20.2										
			350.0	36.1	40.2	4.1	20.9	100±22	19.9										
			400.0	39.0	39.3	0.3	19.7	100±22	19.7										
			450.0 <sup>Ⓟ</sup>	41.8	38.5	-3.3	18.7	100±22	19.5										
			500.0 <sup>Ⓟ</sup>	44.5	37.8	-6.7	17.8	100±22	19.3										
			550.0 <sup>Ⓟ</sup>	47.1	37.2	-9.9	16.9	100±22	19.1										



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

**Plenum • 100% FEP Insulation - LSZH Polymer Alloy**

White - Reel	<b>24587385</b>	NEC:	4	1000	304.8	30.7	13.9	.229	5.81	6.6	3.0	50	0.772	1.7	80.0	78.3	74.0	100±12	—
Blue - Reel	<b>24587985</b>	CMP											1.0	1.8	78.3	76.5	71.8	100±12	20.0
		CEC:											4.0	3.4	69.3	65.9	59.7	100±12	23.0
		CMP											8.0	4.8	64.8	60.0	53.7	100±12	25.0
													10.0	5.3	63.3	58.0	51.8	100±12	25.0
													16.0	6.8	60.3	53.5	47.7	100±12	25.0
													20.0	7.6	58.8	51.2	45.7	100±12	25.0
													25.0	8.5	57.3	48.8	43.8	100±15	24.6
													31.25	9.6	55.9	46.3	41.9	100±15	24.2
													62.5	13.8	51.4	37.6	35.8	100±15	23.0
			100.0	17.8	48.3	30.5	31.8	100±15	22.1										
			200.0	26.2	43.8	17.6	25.7	100±15	20.9										
			250.0	29.7	42.3	12.6	23.8	100±20	20.5										
			300.0	33.0	41.2	8.2	22.2	100±20	20.2										
			350.0	36.1	40.2	4.1	20.9	100±22	19.9										
			400.0	39.0	39.3	0.3	19.7	100±22	19.7										
			450.0 <sup>Ⓟ</sup>	41.8	38.5	-3.3	18.7	100±22	19.5										
			500.0 <sup>Ⓟ</sup>	44.5	37.8	-6.7	17.8	100±22	19.3										
			550.0 <sup>Ⓟ</sup>	47.1	37.2	-9.9	16.9	100±22	19.1										



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)  
<sup>Ⓟ</sup> Values provided for information only.

**Color Codes: GigaFlex 4800LX**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

# MediaTwist® UTP Cable

TIA/EIA-568-B.2-1, Category 6  
Enhanced Category 6 Bonded-Pair Cables

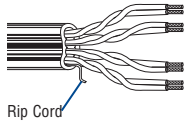
**Certified System Cable**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**23 AWG Bonded-Pairs** Solid Bare Copper Conductor • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Blue, Red, Yellow, Orange, Green, Gold, Purple, White, Black or Gray)

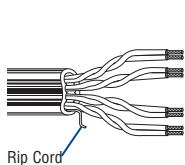
Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
1872A	NEC:	4	1000 A-1000*	304.8 A-304.8	37.0 16.8	.365 x	9.27 x	9.0 3.0	49.2	1	1.9	72.3	70	64.8	100±12 20.0
	CMR									4	3.7	63.3	59	52.8	100±12 23.0
	CEC:									8	5.3	58.8	53	46.7	100±12 24.5
	CMR									10	5.9	57.3	51	44.8	100±12 25.0
										16	7.5	54.3	46	40.7	100±12 25.0
										25	9.5	51.4	42	36.8	100±15 24.3
										31.25	10.6	49.9	39	34.9	100±15 23.6
										62.5	15.4	45.4	30	28.9	100±15 21.5
										100	19.8	42.3	25	24.8	100±15 21.0
										155	25.1	39.5	14	20.9	100±15 21.0
										200	29.0	37.8	10	18.8	100±15 21.0
										250	32.8	36.3	3	16.8	100±20 18.0
										300	35.2	35.2	>0	15.2	100±20 18.0
	350	39.8	34.2	—	13.9	100±22 17.0									
	400 <sup>†</sup>	43.0	—	—	—	100±32 14.0									
	500 <sup>†</sup>	49.0	—	—	—	100±32 14.0									



\*A-1000 ft. put-up not available in Black.  
Features Descending Length Marking.  
Jacket sequentially marked at 2 ft. intervals.  
U.S. Patents 5,606,151; 5,734,126; 5,821,467  
Third party verified to TIA/EIA-568-B.2-1, Category 6

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Blue, Natural, Gray, Red, Yellow, Orange, Green, Gold, Purple, White or Black)

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
1874A	NEC:	4	1000 A-1000**	304.8 A-304.8	37.0 17.2	.365 x	9.27 x	9.0 3.0	49.2	1	1.9	72.3	70	64.8	100±12 20.0
	CMP									4	3.7	63.3	59	52.8	100±12 23.0
	CEC:									8	5.3	58.8	53	46.7	100±12 24.5
	CMP									10	5.9	57.3	51	44.8	100±12 25.0
										16	7.5	54.3	46	40.7	100±12 25.0
										25	9.5	51.4	42	36.8	100±15 24.3
										31.25	10.6	49.9	39	34.9	100±15 23.6
										62.5	15.4	45.4	30	28.9	100±15 21.5
										100	19.8	42.3	25	24.8	100±15 21.0
										155	25.1	39.5	14	20.9	100±15 21.0
										200	29.0	37.8	10	18.8	100±15 21.0
										250	32.8	36.3	3	16.8	100±20 18.0
										300	35.2	35.2	>0	15.2	100±20 18.0
	350	39.8	34.2	—	13.9	100±22 17.0									
	400 <sup>†</sup>	43.0	—	—	—	100±32 14.0									
	500 <sup>†</sup>	49.0	—	—	—	100±32 14.0									



\*\*A-1000 ft. put-up not available in Black.  
Features Descending Length Marking.  
Jacket sequentially marked at 2 ft. intervals.  
U.S. Patents 5,606,151; 5,734,126; 5,821,467  
Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)  
<sup>†</sup>Values provided for information only.

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

**Color Codes: MediaTwist**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

**Get the Bonded-Pairs Cable Preparation Tool**  
See page 15.40 for details.  
(Part No. 1797B)









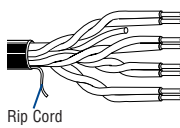
# DataTwist® 6 UTP Cable

TIA/EIA-568-B.2-1, Category 6 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

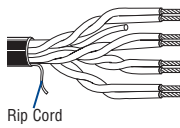
**23 AWG** Solid Bare Copper Conductors • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)

 <p>Rip Cord</p>	<b>7881A</b>	NEC: CMR CEC: CMR	4	1000	304.8	30.0	13.6	.241	6.12	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0
				A-1000	A-304.8	33.0	15.0						10	6.0	57.3	51.3	44.8	100±15	25.0
													20	8.5	52.8	44.3	38.8	100±15	25.0
													31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.9	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.8	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3

Jacket sequentially marked at 2 ft. intervals.  
Features Descending Length Marking.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

**Plenum • Dual FRPO/FEP Insulation • Flamarrest® Jacket** (Avail. in Red, Orange, Yellow, Green, Blue, Purple, Gray, Natural or Black)

 <p>Rip Cord</p>	<b>7882A</b>	NEC: CMP CEC: CMP	4	1000	304.8	29.0	13.2	.224	5.69	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0
				A-1000	A-304.8	32.0	14.5						10	6.0	57.3	51.3	44.8	100±15	25.0
													20	8.5	52.8	44.3	38.8	100±15	25.0
													31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.9	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.8	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3

Jacket sequentially marked at 2 ft. intervals.  
Features Descending Length Marking.  
Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • FRPO = Flame-retardant Polyolefin • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

For either T568-A or T568-B configurations.

## Color Codes: DataTwist 6

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

# DataTwist 6 Limited Combustible UTP Cable

TIA/EIA 568-B.2-1, Category 6

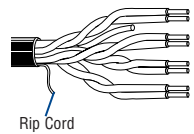
Enhanced Category 6 Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**23 AWG Bonded-Pairs** • Solid Bare Copper Conductors • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)

**Plenum • FEP Teflon® Insulation • FEP Jacket** (Available in Light Blue or White)

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)						
7813LC	NEC: Limited Combustible FHC 25/50 CMP CEC: CMP	4	1000	304.8	35.0	15.89	.214	5.44	8.2	5.0	330	1	2.0	72.3	70.3	64.8	100±15	20.0			
			U-1000	U-304.8	33.0	14.98															



Jacket sequentially marked at 2 ft. intervals.  
Features Descending Length Marking.  
Third party verified to TIA/EIA 568-B.2-1, Category 6  
U.S. Patents 5,606,151 and 5,734,126

ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • NEXT = Near-end Crosstalk • RL = Return Loss • UTP = Unshielded Twisted Pair(s)  
Teflon is a DuPont trademark.

**Color Codes: DataTwist 6 LC**

Pair No.	Color Combination
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

# DataTwist® 5e+ UTP Cable

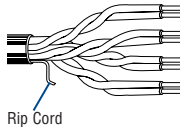
TIA/EIA-568-B.2, Category 5e

Enhanced Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

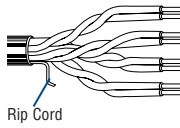
**24 AWG** Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue, Gray or White)

	<b>1500A</b>	NEC:	4	1000	304.8	23.0	10.4	.190	4.83	9.0	3.0	200	1	2.0	65.3	63.3	60.8	100±12	20.0			
		CM		A-1000	A-304.8	26.0	11.8								4	4.0	56.3	52.3	48.7	100±12	23.0	
		CEC:														8	5.7	51.8	46.1	42.7	100±12	24.5
		CM														10	6.4	50.3	43.9	40.8	100±12	25.0
																16	8.1	47.3	39.1	36.7	100±12	25.0
																25	10.3	44.3	34.1	32.8	100±15	24.3
																31.25	11.6	42.9	31.3	30.9	100±15	23.6
																62.5	16.8	38.4	21.6	24.9	100±15	21.5
																100	21.7	35.3	17.1	20.8	100±15	20.1
																155	27.7	32.5	4.7	16.9	100±18	19.0
													200	32.0	30.8	3.0	14.7	100±20	19.0			
													250	36.4	29.3	—	12.8	100±20	18.0			
													350	44.3	27.2	—	9.9	100±22	17.0			

Jacket sequentially marked at 2 ft. intervals  
 Features Descending Length Marking.  
 Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • Dual FRPO/FEP Insulation • Flamarrest® Jacket** (Avail. in Red, Orange, Yellow, Green, Blue, Gray, White or Natural)

	<b>1501A</b>	NEC:	4	1000†	304.8	23.0	10.4	.190	4.83	9.0	3.0	200	1	2.0	65.3	63.3	60.8	100±12	20.0			
		CMP		A-1000	A-304.8	26.0	11.8								4	4.0	56.3	52.3	48.7	100±12	23.0	
		CEC:														8	5.7	51.8	46.1	42.7	100±12	24.5
		CMP														10	6.4	50.3	43.9	40.8	100±12	25.0
																16	8.1	47.3	39.1	36.7	100±12	25.0
																25	10.3	44.3	34.1	32.8	100±15	24.3
																31.25	11.6	42.9	31.3	30.9	100±15	23.6
																62.5	16.8	38.4	21.6	24.9	100±15	21.5
																100	21.7	35.3	17.1	20.8	100±15	20.1
																155	27.7	32.5	4.7	16.9	100±18	19.0
													200	32.0	30.8	3.0	14.7	100±20	19.0			
													250	36.4	29.3	—	12.8	100±20	18.0			
													350	44.3	27.2	—	9.9	100±22	17.0			

†1000 ft. put-up not available in Red.  
 Jacket sequentially marked at 2 ft. intervals  
 Features Descending Length Marking.  
 Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • FRPO = Flame-retardant Polyolefin • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 5e+**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

**Get the Bonded-Pairs Cable Preparation Tool**

See page 15.40 for details.  
(Part No. 1797B)



# DataTwist 350 Composite UTP Cable

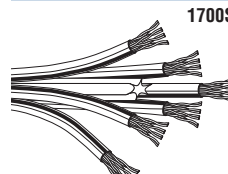
ANSI/TIA/EIA 568-B.2, Category 5e

Banana Peel® Jacketless Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

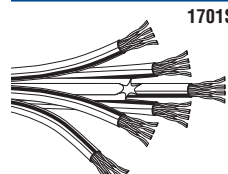
**24 AWG Bonded-Pairs** • Solid Bare Copper Conductors • Spline Filler • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Inner Jacket** (Available in Light Blue or Gray) • **No Overall Jacket**

	<b>1700S6</b>	NEC:	24	500	152.4	77.5	35.19	.204	5.18	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0	
		CMR		1000	304.8	149.0	67.65	Bundled:						10	6.4	50.3	43.9	40.8	100±12	25.0
		CEC:							.600	15.24				16	8.1	47.3	39.1	36.7	100±12	25.0
		CMG												31.25	11.6	42.9	31.3	30.9	100±15	23.6
														62.5	16.8	38.4	21.6	24.9	100±15	21.5
														100	21.7	35.3	17.1	20.8	100±15	20.1
														200	32.0	30.8	3.0	14.7	100±20	19.0
													250	36.4	29.3	>0.0	12.8	100±20	18.0	
													350	44.3	27.2	—	9.9	100±22	17.0	

Bundled version of 1700R.  
 U.S. Patents 5,606,151; 5,734,126; 7,049,523.  
 Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e

**Plenum • FEP Insulation • Flamarrest® Inner Jacket** (Available in Blue or Natural) • **No Overall Jacket**

	<b>1701S6</b>	NEC:	24	500	152.4	81.5	37.00	.195	4.95	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0	
		CMP		1000	304.8	157.0	71.28	Bundled:						10	6.4	50.3	43.9	40.8	100±12	25.0
		CEC:							.600	15.24				16	8.1	47.3	39.1	36.7	100±12	25.0
		CMP												31.25	11.6	42.9	31.3	30.9	100±15	23.6
														62.5	16.8	38.4	21.6	24.9	100±15	21.5
														100	21.7	35.3	17.1	20.8	100±15	20.1
														200	32.0	30.8	3.0	14.7	100±20	19.0
													250	36.4	29.3	>0.0	12.8	100±20	18.0	
													350	44.3	27.2	—	9.9	100±22	17.0	

Bundled version of 1701A.  
 U.S. Patents 5,606,151; 5,734,126; 7,049,523.  
 Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e

UTP = Unshielded Twisted Pair(s) • NEXT = Near-end Crosstalk • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • RL = Return Loss

**Color Codes: DT 350 Composite**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown



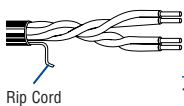
# DataTwist® 5e UTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

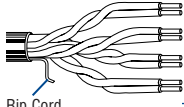
**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Dark Gray or Blue)**

	<b>1588A</b>	NEC:	2	U-1000	U-304.8	14.0	6.4	.183	4.65	9.38	5.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0									
		CM		1000	304.8	15.0	6.8	10	6.5	47.3	40.8									40.8	100±15	25.0						
		CEC:	1640†	500.0	24.6	11.2	16																8.2	44.3	36.0	36.7	100±15	25.0
		CM																										
							62.5																17.0	35.4	19.0	24.9	100±15	21.5
								100	22.0	32.3	10.3									20.8	100±15	20.1						
					200	32.0	27.8	1.0	14.7	100±25	15.0																	

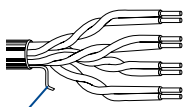
†1640 ft. put-up available in Dark Gray only.  
 ††U-1000 ft. and 1000 ft. put-ups available in Blue only  
 Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in White, Black, Gray, Blue, Red, Orange, Yellow, Green or Pink)**

	<b>1583A</b>	NEC:	4	U-1000	U-304.8	21.0	9.5	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0									
		CM		1000	304.8	21.0	9.5	10	6.5	47.3	40.8									40.8	100±15	25.0						
		CEC:	1640†	500.0	34.4	15.7	16																8.2	44.3	36.0	36.7	100±15	25.0
		CM	3000†	914.4	63.0	28.6																						
							62.5																17.0	35.4	19.0	24.9	100±15	21.5
								100	22.0	32.3	10.3									20.8	100±15	20.1						
					200	32.0	27.8	1.0	14.7	100±25	15.0																	

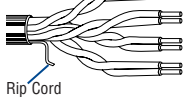
†1640 ft. put-up available in Dark Gray or Blue only. 3000 ft. put-up available in Dark Gray, White or Blue only.  
 ††1583R is not available in Black. 3000 ft. put-ups available in Dark Gray, White or Blue only.  
 Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

**Non-Plenum • Polyolefin Insulation • Fluorescent Pink PVC Jacket**

	<b>DataBrite® 1583B</b>	NEC:	4	U-1000	U-304.8	19.0	8.6	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0									
		CMR		1000	304.8	20.0	9.1	10	6.5	47.3	40.8									40.8	100±15	25.0						
		CEC:					16																8.2	44.3	36.0	36.7	100±15	25.0
		CMR																										
							62.5																17.0	35.4	19.0	24.9	100±15	21.5
								100	22.0	32.3	10.3									20.8	100±15	20.1						
					200	32.0	27.8	1.0	14.7	100±25	15.0																	

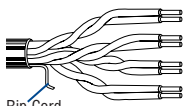
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

**Non-Plenum • Polyolefin Insulation • UV Resistant PVC Jacket (Available in Gray, White or Ivory)**

	<b>Indoor/Outdoor 1594A</b>	NEC:	4	U-1000	U-304.8	26.0	11.8	.220	5.58	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0									
		CMR/CMX						10	6.5	47.3	40.8									40.8	100±15	25.0						
		CEC:					16																8.2	44.3	36.0	36.7	100±15	25.0
		CMR/CMX																										
							62.5																17.0	35.4	19.0	24.9	100±15	21.5
								100	22.0	32.3	10.3									20.8	100±15	20.1						
					200	32.0	27.8	1.0	14.7	100±25	15.0																	

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

**Outside Plant • Polyolefin Insulation • Black Gel-filled Polyethylene Jacket**

	<b>Outdoor 7997A</b>	4	1000	304.8	38.0	17.2	.251	6.38	8.90	3.0	66.0	1	2.0	68.3	66.3	64.8	100±15	20.0
			4	4.0	59.3	55.3	52.8	100±15	23.0									
		10	6.4	53.3	46.9	44.8	100±15	25.0										
		16	8.1	50.2	42.1	40.7	100±15	25.0										
		31.25	11.4	45.9	34.5	34.9	100±15	23.6										
		62.5	16.4	41.4	25.0	28.9	100±15	21.5										
					100	21.0	38.3	17.3	24.8	100±15	20.1							
					200	30.5	33.8	3.3	18.8	100±22	18.0							

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pairs

**Color Codes: DataTwist 5e**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown






# DataTwist® 5e UTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										


**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Natural or Blue)**

 <p>1590A</p>	NEC:	2	1000	304.8	16.0	7.3	.175	4.44	9.38	5.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
	CMP											10	6.5	47.3	49.2	40.8	100±15	25.0
	CEC:											16	8.2	44.3	40.8	36.7	100±15	25.0
	CMP FT6											31.25	11.7	39.9	36.0	30.9	100±15	23.6
												62.5	17.0	35.4	28.2	24.8	100±15	21.5
												100	22.0	32.3	19.0	20.8	100±15	20.1
	200	32.0	27.8	10.3	14.7	100±25	15.0											

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Gray, White, Black, Pink, Natural or Blue)**

 <p>1585A</p>	NEC:	4	U-1000	U-304.8	23.0	10.5	.198	5.03	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
	CMP											4	4.1	53.3	49.2	48.7	100±15	23.0
	CEC:											10	6.5	47.3	40.8	40.8	100±15	25.0
	CMP FT6											16	8.2	44.3	36.0	36.7	100±15	25.0
												31.25	11.7	39.9	28.2	30.9	100±15	23.6
												62.5	17.0	35.4	19.0	24.8	100±15	21.5
	100	22.0	32.3	10.3	20.8	100±15	20.1											
	200	32.0	27.8	1.0	14.7	100±25	15.0											


†3000 ft. put-up available in Natural or Blue only. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • FEP Teflon Insulation • Fluorescent Pink Flamarrest Jacket**

 <p>1585B</p>	NEC:	4	1000	304.8	24.0	10.9	.197	5.00	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
	CMP											4	4.1	53.3	49.2	48.7	100±15	23.0
	CEC:											10	6.5	47.3	40.8	40.8	100±15	25.0
	CMP FT6											16	8.2	44.3	36.0	36.7	100±15	25.0
												31.25	11.7	39.9	28.2	30.9	100±15	23.6
												62.5	17.0	35.4	19.0	24.8	100±15	21.5
	100	22.0	32.3	10.3	20.8	100±15	20.1											
	200	32.0	27.8	1.0	14.7	100±25	15.0											

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e


**Plenum • FEP Teflon Insulation • FEP Jacket (Available in Blue or White)**

 <p>1585LC</p>	NEC:	4	U-1000	U-304.8	23.0	10.5	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
	Limited											4	4.1	53.3	49.2	48.7	100±15	23.0
	Combustible											10	6.5	47.3	40.8	40.8	100±15	25.0
	FHC 25/50											16	8.2	44.3	36.0	36.7	100±15	25.0
	CMP											31.25	11.7	39.9	28.2	30.9	100±15	23.6
	CEC:											62.5	17.0	35.4	19.0	24.8	100±15	21.5
CMP FT6	100	22.0	32.3	10.3	20.8	100±15	20.1											
	200	32.0	27.8	1.0	14.7	100±25	15.0											

Jacket sequentially marked at 2 ft. intervals. No rip cord. Third party verified to TIA/EIA-568-B.2, Category 5e

**Patch Cable • 24 AWG Stranded (7x32) Bare Copper Conductors • Twisted Pairs • RJ-45 Compatible\* • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Light Gray, White or Black)**

 <p>1592A</p>	NEC:	4	U-1000	U-304.8	22.0	10.0	.213	5.41	9.38	3.0	330	1	2.5	62.3	—	60.8	100±15	20.0
	CM											4	4.9	53.3	—	48.7	100±15	23.0
	CEC:											10	7.8	47.3	—	40.8	100±15	25.0
	CM FT1											16	9.9	44.3	—	36.7	100±15	25.0
												31.25	14.1	39.9	—	30.9	100±15	23.6
												62.5	20.4	35.4	—	24.8	100±15	21.5
	100	26.4	32.3	—	20.8	100±15	20.1											
	200	38.9	27.8	—	14.7	100±25	15.0											

\*RJ-45 compatible for either T568-A or T568-B configurations. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e Patch

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 5e**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

# IBDN Plus 25-Pair Cat5E UTP Cable

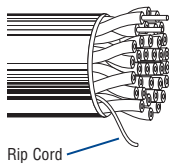
TIA/EIA-568-B.2, Category 5E

Enhanced Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm									

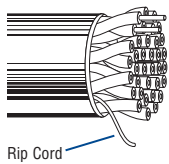
**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

Non-Plenum • Polyolefin Insulation • Gray PVC Jacket																		
Gray, Reel	<b>24576125</b>	NEC: CMR CEC: CMR	25	1000	304.8	119	54.0	.490	12.45	9.38	—	330	0.772	1.8	64.0	63.0	102±15	19.4
													1.0	2.0	62.3	63.8	100±15	20.0
													4.0	4.1	53.3	48.8	100±15	23.0
													8.0	15.8	48.8	42.7	100±15	24.5
													10.0	16.5	47.3	40.8	100±15	25.0
													16.0	8.2	44.2	36.7	100±15	25.0
													20.0	9.3	42.8	34.8	100±15	25.0
													25.0	10.4	41.3	32.8	100±15	24.3
													31.25	11.7	39.9	30.9	100±15	23.6
													62.5	17.0	35.4	24.9	100±15	21.5
													100.0	22.0	32.3	20.8	100±15	20.1



Jacket sequentially market at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5e

Plenum • FEP Insulation • Gray Low-smoke PVC Jacket																		
Gray, Reel	<b>24577125</b>	NEC: CMP CEC: CMP	25	1000	304.8	127	57.6	.430	10.90	9.38	—	330	0.772	1.8	64.0	63.0	102±15	19.4
													1.0	2.0	62.3	63.8	100±15	20.0
													4.0	4.1	53.3	48.8	100±15	23.0
													8.0	15.8	48.8	42.7	100±15	24.5
													10.0	16.5	47.3	40.8	100±15	25.0
													16.0	8.2	44.2	36.7	100±15	25.0
													20.0	9.3	42.8	34.8	100±15	25.0
													25.0	10.4	41.3	32.8	100±15	24.3
													31.25	11.7	39.9	30.9	100±15	23.6
													62.5	17.0	35.4	24.9	100±15	21.5
													100.0	22.0	32.3	20.8	100±15	20.1



Jacket sequentially market at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

## Color Codes: IBDN Plus 25-Pair Cat5

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate



# IBDN Plus 25-Pair Cat5 UTP Cable

TIA/EIA-568-A, Category 5

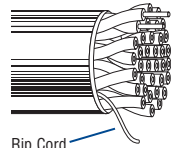
Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • Blue PVC Jacket**

Blue, Reel	<b>24572238</b>	NEC:	25	1000	304.8	118.0	53.5	4.90	124.5	9.38	5.0	330	0.772	1.8	64.0	102±15	—
Blue, Reel	<b>24572250</b>	CMR	25	492	150.0								1.0	2.1	62.0	100±15	23
Blue,, Reel	<b>24572260</b>	CEC:	25	500	152.4								4.0	4.3	53.0	100±15	23
		CMR											8.0	5.9	48.0	100±15	23
													10.0	6.6	47.0	100±15	23
													16.0	8.2	44.0	100±15	23
													20.0	9.2	42.0	100±15	23
													25.0	10.5	41.0	100±15	22
													31.25	11.8	40.0	100±15	21
													62.5	17.1	35.0	100±15	18
													100.0	22.0	32.0	100±15	16

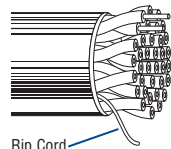


Rip Cord

Jacket sequentially market at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 5

**Plenum • 100% FEP Insulation • Gray Low-Smoke PVC Jacket**

Gray, Reel	<b>24572351</b>	NEC:	25	328	100.0	118.0	53.5	4.90	124.5	9.38	5.0	330	0.772	1.8	64.0	102±15	—
Gray, Reel	<b>24572352</b>	CMP	25	984	300.0								1.0	2.1	62.0	100±15	23
Gray, Reel	<b>24572353</b>	CEC:	25	1000	304.8								4.0	4.3	53.0	100±15	23
		CMP											8.0	5.9	48.0	100±15	23
													10.0	6.6	47.0	100±15	23
													16.0	8.2	44.0	100±15	23
													20.0	9.2	42.0	100±15	23
													25.0	10.5	41.0	100±15	22
													31.25	11.8	40.0	100±15	21
													62.5	17.1	35.0	100±15	18
													100.0	22.0	32.0	100±15	16



Rip Cord

Jacket sequentially market at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 5

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes:  
IBDN Plus 25-Pair Cat5**

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate



# Data Grade Armored Riser 25-Pair UTP Cable

TIA/EIA-568-A, Category 5

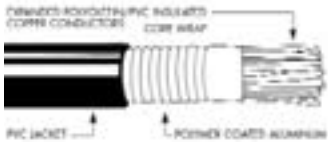
Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

**24 AWG** Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Flame Retardant Polymer Insulation • ALVYAN Sheath • PVC Jacket**

Gray, Reel	<b>25500027</b>	NEC:	25	8200	2500	205.0	93.0	0.62	15.70	9.38	—	328	0.772	1.8	64.0	102±15	—
Gray, Reel	<b>25500028</b>	CMR	25	Cut Length													
		CEC:															
		CMR															
													1.0	2.1	62.3	100±15	23
													4.0	4.3	53.3	100±15	23
													8.0	5.9	48.8	100±15	23
													10.0	6.6	47.3	100±15	23
													16.0	8.2	44.3	100±15	23
													20.0	9.2	42.8	100±15	23
													25.0	10.5	41.3	100±15	22
													31.25	11.8	40.9	100±15	21
													62.5	17.1	35.4	100±15	18
													100.0	22.0	32.3	100±15	16



Jacket sequentially marked at 2 ft. intervals.  
 Featuring Descending Length Marking.  
 Third party verified to TIA/EIA-568-A, Category 5

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

### Color Codes: Data Grade Riser

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate



# DataTwist® 5 UTP Cable

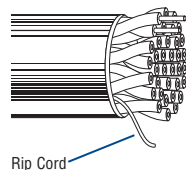
## TIA/EIA-568-A, Category 5 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Fitted Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Light Gray or Blue)**

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Fitted Input Imped. (Ω)	Min. SRL (dB)
<b>1864A</b>	NEC: CMR CEC: CMR FT4	25	1000 / 304.8	144.0 / 65.4	.526 / 13.36	9.38	5.0	330	1	2.0	62.3	100±15	23.0
									10	6.5	47.3	100±15	23.0
									16	8.2	44.3	100±15	23.0
									31.25	11.7	39.9	100±15	21.1
									62.5	17.0	35.4	100±15	18.0
									100	22.0	32.3	100±15	16.0

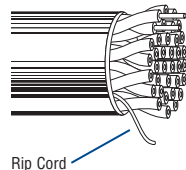


Rip Cord

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 5

**Plenum • FEP Teflon® Insulation • FEP Jacket (Available in Blue Tint or White Tint)**

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Fitted Input Imped. (Ω)	Min. SRL (dB)
<b>1871A</b>	NEC: CMP CEC: CMP	25	1000 / 304.8	131.0 / 59.5	.430 / 10.92	9.38	5.0	330	1	2.0	62.3	100±15	23.0
									10	6.5	47.3	100±15	23.0
									16	8.2	44.3	100±15	23.0
									31.25	11.7	39.9	100±15	21.1
									62.5	17.0	35.4	100±15	18.0
									100	22.0	32.3	100±15	16.0



Rip Cord

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 5

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • SRL = Structural Return Loss • UTP = Unshielded Twisted Pair(s)

### Color Codes: 1864A

Pair	Color Combination	Pair	Color Combination
1	White & Blue	14	Black & Brown
2	White & Orange	15	Black & Gray
3	White & Green	16	Yellow & Blue
4	White & Brown	17	Yellow & Orange
5	White & Gray	18	Yellow & Green
6	Red & Blue	19	Yellow & Brown
7	Red & Orange	20	Yellow & Gray
8	Red & Green	21	Purple & Blue
9	Red & Brown	22	Purple & Orange
10	Red & Gray	23	Purple & Green
11	Black & Blue	24	Purple & Brown
12	Black & Orange	25	Purple & Gray
13	Black & Green		

### Color Codes: 1871A

Pair	Color Combination	Pair	Color Combination
1	White/Blue Stripe & Blue	14	Black/Brown Stripe & Brown
2	White/Orange Stripe & Orange	15	Black/Gray Stripe & Gray
3	White/Green Stripe & Green	16	Yellow/Blue Stripe & Blue
4	White/Brown Stripe & Brown	17	Yellow/Orange Stripe & Orange
5	White/Gray Stripe & Gray	18	Yellow/Green Stripe & Green
6	Red/Blue Stripe & Blue	19	Yellow/Brown Stripe & Brown
7	Red/Orange Stripe & Orange	20	Yellow/Gray Stripe & Gray
8	Red/Green Stripe & Green	21	Purple/Blue Stripe & Blue
9	Red/Brown Stripe & Brown	22	Purple/Orange Stripe & Orange
10	Red/Gray Stripe & Gray	23	Purple/Green Stripe & Green
11	Black/Blue Stripe & Blue	24	Purple/Brown Stripe & Brown
12	Black/Orange Stripe & Orange	25	Purple/Gray Stripe & Gray
13	Black/Green Stripe & Green		

Teflon is a DuPont trademark.

# IBDN Plus UTP Cable

TIA/EIA-568-A, Category 5

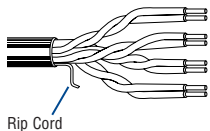
Category 5 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm									

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • PVC Jacket**

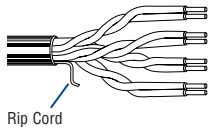
White, Box	<b>24570086</b>	NEC:	4	1000	304.8	10.9	24.0	.186	4.72	9.38	5.0	330	0.772	1.8	64.0	62.2	—	—
Blue, Box	<b>24570036</b>	CMR											1.0	2.0	62.3	60.3	100±15	23.0
		CEC:											4.0	4.1	53.3	49.2	100±15	23.0
		CMR											8.0	5.8	48.8	43.0	100±15	23.0
													10.0	6.5	47.3	40.8	100±15	23.0
													16.0	8.2	44.3	36.0	100±15	23.0
													20.0	9.3	42.8	33.5	100±15	23.0
													25.0	10.4	41.3	30.9	100±15	22.0
													31.25	11.7	39.9	28.2	100±15	21.1
													62.5	17.0	35.4	18.4	100±15	18.1
													100.0	22.0	32.3	10.3	100±15	16.0
													155.0 <sup>▶</sup>	28.1	29.5	1.4	100±15	14.1



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-A, Category 5

**Non-Plenum • Polyolefin Insulation • LSZH Polymer Alloy**

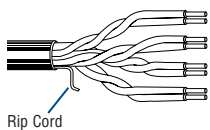
Purple, Box	<b>24570152</b>	NEC:	4	1000	304.8	11.3	25.0	.198	5.03	9.38	5.0	330	0.772	1.8	64.0	62.2	—	—
		CMR											1.0	2.0	62.3	60.3	100±15	23.0
		CEC:											4.0	4.1	53.3	49.2	100±15	23.0
		CMR											8.0	5.8	48.8	43.0	100±15	23.0
													10.0	6.5	47.3	40.8	100±15	23.0
													16.0	8.2	44.3	36.0	100±15	23.0
													20.0	9.3	42.8	33.5	100±15	23.0
													25.0	10.4	41.3	30.9	100±15	22.0
													31.25	11.7	39.9	28.2	100±15	21.1
													62.5	17.0	35.4	18.4	100±15	18.1
													100.0	22.0	32.3	10.3	100±15	16.0
													155.0 <sup>▶</sup>	28.1	29.5	1.4	100±15	14.1



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-A, Category 5

**Plenum • Dual Insulation: Polyolefin/FEP • Low-Smoke PVC Jacket**

White, Box	<b>24570700</b>	NEC:	4	1000	304.8	9.98	22.0	.188	4.78	9.38	5.0	330	0.772	1.8	64.0	62.2	—	—
Blue, Box	<b>24570750</b>	CMP											1.0	2.0	62.3	60.3	100±15	23.0
		CEC:											4.0	4.1	53.3	49.2	100±15	23.0
		CMP											8.0	5.8	48.8	43.0	100±15	23.0
													10.0	6.5	47.3	40.8	100±15	23.0
													16.0	8.2	44.3	36.0	100±15	23.0
													20.0	9.3	42.8	33.5	100±15	23.0
													25.0	10.4	41.3	30.9	100±15	22.0
													31.25	11.7	39.9	28.2	100±15	21.1
													62.5	17.0	35.4	18.4	100±15	18.1
													100.0	22.0	32.3	10.3	100±15	16.0
													155.0 <sup>▶</sup>	28.1	29.5	1.4	100±15	14.1



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-A, Category 5

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

<sup>▶</sup>Values provided for information only.

**Color Codes: IBDN Plus**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown



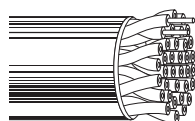
# DataTwist® 3 UTP Cable

## TIA/EIA-568-A, Category 3 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR (Cond.)	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Min. NEXT (dB)	Maximum Attenuation	
				Ft.	m	Lbs.	kg	Inch	mm			* pF/Ft.	* pF/m			(dB/1000')	(dB/100m)

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • See Color Code Chart (below)**

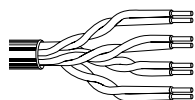
**Non-Plenum • Polyolefin Insulation • Gray PVC Jacket**



<b>1227A1</b>	NEC:	2	U-1000	U-304.8	13.0	6.0	.173	4.39	28.0Ω/M'	100	19.0	62.3	1	41.0	7.8	2.56
	CMR												4	32.0	17.0	5.58
	CEC:												10	26.0	30.0	9.71
	CMR												16	23.0	40.0	13.10
<b>1229A1</b>	NEC:	4	U-1000	U-304.8	22.0	10.0	.197	5.00								
	CMR															
	CEC:															
	CMR															
<b>1232A1</b>	NEC:	25†	1000	304.8	104.0	47.2	.399	10.14								
	CMR															
	CEC:															
	CMR															

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 3

**Plenum • Low-Smoke PVC Insulation • White Low-Smoke PVC Jacket**



<b>1243A2</b>	NEC:	2	U-1000	U-304.8	14.0	6.4	.170	4.32	28.0Ω/M'	100	19.0	62.3	1	41.0	7.8	2.56
	CMP												4	32.0	17.0	5.58
	CEC:												10	26.0	30.0	9.71
	CMP												16	23.0	40.0	13.10
<b>1245A2</b>	NEC:	4	U-1000	U-304.8	23.0	10.4	.200	5.08								
	CMP															
	CEC:															
	CMP															

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 3

DCR = DC Resistance • NEXT = Near-end Crosstalk • UTP = Unshielded Twisted Pair(s)

\*Capacitance between conductors  
† 25-pair NEXT is Power Sum tested.

Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

**Color Codes: DataTwist 3**

Pair No.	Color Combination	Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe	14	Black/Brown Stripe & Brown/Black Stripe
2	White/Orange Stripe & Orange/White Stripe	15	Black/Gray Stripe & Gray/Black Stripe
3	White/Green Stripe & Green/White Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe
4	White/Brown Stripe & Brown/White Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe
5	White/Gray Stripe & Gray/White Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe
6	Red/Blue Stripe & Blue/Red Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe
7	Red/Orange Stripe & Orange/Red Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe
8	Red/Green Stripe & Green/Red Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe
9	Red/Brown Stripe & Brown/Red Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe
10	Red/Gray Stripe & Gray/Red Stripe	23	Purple/Green Stripe & Green/Purple Stripe
11	Black/Blue Stripe & Blue/Black Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe
12	Black/Orange Stripe & Orange/Black Stripe	25	Purple/Gray Stripe & Gray/Purple Stripe
13	Black/Green Stripe & Green/Black Stripe		

## D-Inside and D-Flex Plenum UTP Cable

TIA/EIA-568-A and CSA T529-95, Category 3

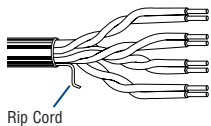
Category 3 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

**Non-Plenum • Polyvinyl Chloride Insulation • Olive Gray Low-Smoke PVC Jacket**

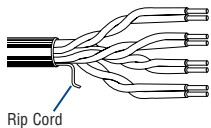
Olive Gray, Box	<b>24501922</b>	NEC:	2	2500	762.0	11.0	4.99	0.13	3.30	9.38	5.0	262	0.772	2.2	43.0	—	—
Olive Gray, Box	<b>24501934</b>	CMR	3	1500	457.2	15.0	6.80	0.15	3.90				1.0	2.6	41.0	100±15	12.0
Olive Gray, Box	<b>24501941</b>	CEC:	4	1000	304.8	18.0	8.16	0.17	4.30				4.0	5.6	32.0	100±15	12.0
Olive Gray, Box	<b>24501950</b>	CMR	4	1500	457.2	18.0	8.16	0.17	4.30				8.0	8.5	28.0	100±15	12.0
Olive Gray, Reel	<b>24501947</b>		4	1000	304.8	18.0	8.16	0.17	4.30				10.0	9.7	26.0	100±15	12.0
													16.0	13.1	23.0	100±15	10.0



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-A, Category 3

**Plenum • Low Smoke Polyvinyl Chloride Insulation • Olive Gray Low-Smoke Jacket**

Olive Gray, Box	<b>24571097</b>	NEC:	3	1500	457.2	16.0	7.26	0.16	4.06	9.38	5.0	262	0.772	2.2	43.0	—	—
Olive Gray, Box	<b>24571111</b>	CMP	4	1000	304.8	19.0	8.62	0.19	4.70				1.0	2.6	41.0	100±15	12.0
Olive Gray, Box	<b>24571112</b>	CEC:	4	1500	457.2	19.0	8.62	0.19	4.70				4.0	5.6	32.0	100±15	12.0
Olive Gray, Reel	<b>24571110</b>	CMP	4	1000	304.8	19.0	8.62	0.19	4.70				8.0	8.5	28.0	100±15	12.0
													10.0	9.7	26.0	100±15	12.0
													16.0	13.1	23.0	100±15	10.0



Jacket sequentially marked at 2 ft. intervals.  
Featuring Descending Length Marking.  
Third party verified to TIA/EIA-568-A, Category 3

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: D-Inside and D-Flex**

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe





# D-Series Multipair UTP Cable

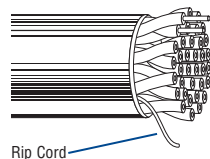
## TIA/EIA-568-A and CSA T529-95, Category 3

### Category 3 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

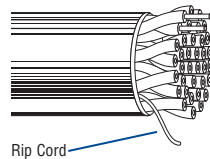
Non-Plenum • Semi-Rigid Polyvinyl Chloride Insulation • Olive Gray PVC Jacket																	
Olive Gray, Reel	<b>24501829</b>	NEC:	6	1000	304.8	28.0	12.7	0.21	5.3	—	8.8	262	0.772	2.2	43.0	100±15	12.0
Olive Gray, Reel	<b>24501837</b>	CMR	12	1000	304.8	50.0	22.7	0.28	7.1				1.0	2.6	41.0	100±15	12.0
Olive Gray, Reel	<b>24501848</b>	CEC:	16	984	300.0	64.0	29.0	0.32	8.0				4.0	5.6	32.0	100±15	12.0
Olive Gray, Reel	<b>24501858</b>	CMR	25	1000	304.8	100.0	45.4	0.39	10.0				8.0	8.5	28.0	100±15	12.0
Olive Gray, Reel	<b>24501877</b>		50	1000	304.8	194.0	87.0	0.53	13.4				10.0	9.7	26.0	100±15	12.0
Olive Gray, Reel	<b>24501887</b>		75	2083	635.0	279.0	126.6	0.63	16.0				16.0	13.1	23.0	100±15	10.0
Olive Gray, Reel	<b>24501897</b>		100	1575	480.0	365.0	165.6	0.72	18.2								
Olive Gray, Reel	<b>24501906</b>		200	900	274.3	703.0	318.9	0.99	25.1								



Rip Cord

Jacket sequentially marked at 2 ft. intervals. Featuring Descending Length Marking. Third party verified to TIA/EIA-568-A, Category 3

Plenum • Low Smoke Polyvinyl Chloride Insulation • Low-Smoke PVC Jacket (Gray or Translucent)																	
Translucent, Reel	<b>24571221</b>	NEC:	25	1500	457.2	107.0	48.5	0.42	10.7	—	8.8	262	0.772	2.2	43.0	100±15	12.0
Gray, Reel	<b>24571235</b>	CMP	50	1000	304.8	211.0	95.7	0.49	12.4				1.0	2.6	41.0	100±15	12.0
Gray, Reel	<b>24571250</b>	CEC:	100	1500	457.2	415.0	188.2	0.72	18.3				4.0	5.6	32.0	100±15	12.0
Gray, Reel	<b>24571265</b>	CMP	200	1000	304.8	874.0	396.4	1.04	26.3				8.0	8.5	28.0	100±15	12.0
Gray, Reel	<b>24571266</b>		300	1000	304.8	1234.0	559.7	1.27	32.3				10.0	9.7	26.0	100±15	12.0



Rip Cord

Jacket sequentially marked at 2 ft. intervals. Featuring Descending Length Marking. Third party verified to TIA/EIA-568-A, Category 3

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

### Color Codes: D-Series Multipair

Pair No.	Tip	Ring
1	White/Blue	Blue/White
2	White/Orange	Orange/White
3	White/Green	Green/White
4	White/Brown	Brown/White
5	White/Slate	Slate/White
6	Red/Blue	Blue/Red
7	Red/Orange	Orange/Red
8	Red/Green	Green/Red
9	Red/Brown	Brown/Red
10	Red/Slate	Slate/Red
11	Black/Blue	Blue/Black
12	Black/Orange	Orange/Black
13	Black/Green	Green/Black

Pair No.	Tip	Ring
14	Black/Brown	Brown/Black
15	Black/Slate	Slate/Black
16	Yellow/Blue	Blue/Yellow
17	Yellow/Orange	Orange/Yellow
18	Yellow/Green	Green/Yellow
19	Yellow/Brown	Brown/Yellow
20	Yellow/Slate	Slate/Yellow
21	Violet/Blue	Blue/Violet
22	Violet/Orange	Orange/Violet
23	Violet/Green	Green/Violet
24	Violet/Brown	Brown/Violet
25	Violet/Slate	Slate/Violet



# Riser Multipair Armored UTP Cable

TIA/EIA-568-A and CSA T529-95, Category 3

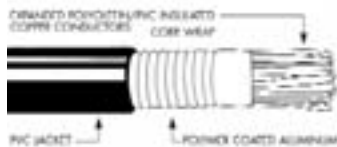
Category 3 Nonbonded-pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR ( $\Omega/100m$ )	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Input Imped. ( $\Omega$ )	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)**

**Non-Plenum • Dual Insulation: Polyolefin/PVC • ALVYAN Sheath • Gray PVC Jacket**

Gray, Reel	<b>22713010</b>	NEC:	25	Variable Length	132.0	59.9	0.47	11.9	—	8.8	262	0.772	2.2	43.0	102±15	12.0
Gray, Reel	<b>22713020</b>	CMR	50	Variable Length	239.0	108.4	0.66	16.7				1.0	2.6	41.0	102±15	12.0
Gray, Reel	<b>22713030</b>	CEC:	100	Variable Length	421.0	191.0	0.85	21.5				4.0	5.6	32.0	102±15	12.0
Gray, Reel	<b>22713035</b>	CMR	105	Variable Length	610.0	276.7	0.99	25.3				8.0	8.5	28.0	102±15	12.0
Gray, Reel	<b>22713040</b>		200	Variable Length	766.0	347.5	1.10	28.0				10.0	9.7	26.0	102±15	12.0
Gray, Reel	<b>22713045</b>		250	Variable Length	940.0	426.4	1.22	31.0				16.0	13.1	23.0	102±15	10.0
Gray, Reel	<b>22713050</b>		300	Variable Length	1111.0	503.9	1.32	33.5								
Gray, Reel	<b>22713060</b>		400	Variable Length	1453.0	659.1	1.50	38.0								
Gray, Reel	<b>22713070</b>		600	Variable Length	2146.0	973.4	1.84	46.8								
Gray, Reel	<b>22713080</b>		900	Variable Length	3204.0	1453.3	2.25	57.1								
Gray, Reel	<b>22713090</b>		1200	Variable Length	4216.0	1912.3	2.56	65.1								



Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 3

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: Riser Multipair**

Pair No.	Tip	Ring	Binder group
1	White	Blue	White/Blue
2	White	Orange	White/Orange
3	White	Green	White/Green
4	White	Brown	White/Brown
5	White	Slate	White/Slate
6	Red	Blue	Red/Blue
7	Red	Orange	Red/Orange
8	Red	Green	Red/Green
9	Red	Brown	Red/Brown
10	Red	Slate	Red/Slate
11	Black	Blue	Black/Blue
12	Black	Orange	Black/Orange
13	Black	Green	Black/Green
14	Black	Brown	Black/Brown
15	Black	Slate	Black/Slate
16	Yellow	Blue	Yellow/Blue
17	Yellow	Orange	Yellow/Orange
18	Yellow	Green	Yellow/Green
19	Yellow	Brown	Yellow/Brown
20	Yellow	Slate	Yellow/Slate
21	Violet	Blue	Violet/Blue
22	Violet	Orange	Violet/Orange
23	Violet	Green	Violet/Green
24	Violet	Brown	Violet/Brown
25	Violet	Slate	Violet/Slate



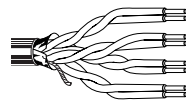
# DataTwist® 5e ScTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire\* • RJ-45 Compatible • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray or Black)**

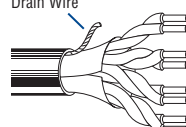
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
	<b>1533R</b>	NEC: CMR CEC: CMR CMR	4	1000	304.8	34.0	15.5	.260	6.60	9.38	3.0	330	1	2.0	62.3	60	60.8	100±15	20.0
				A-1000	A-304.8	37.0	16.8	4	4.1	53.3	49	48.7	100±15	23.0					
				1640†	500.0	57.4	26.1	8	5.8	48.8	43	42.7	100±15	24.5					
				10	6.5	47.3	41	40.8	100±15	25.0									
				16	8.2	44.3	36	36.7	100±15	25.0									
				20	9.3	42.8	34	34.7	100±15	25.0									
				25	10.4	41.3	31	32.8	100±15	24.3									
				31.25	11.7	39.9	28	30.9	100±15	23.6									
				62.5	17.0	35.4	18	24.8	100±15	21.5									
				100	22.0	32.3	10	20.8	100±15	20.1									

†1640 ft. put-up available in Gray only.

Shield is bonded to jacket inner wall for electrical stability.

Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-B.2, Category 5e

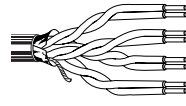
**Non-Plenum • Polypropylene Insulation (Color Code: See Chart Below) • Black Low-Smoke, Zero-Halogen Jacket**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
	<b>1300SB</b> <small>new</small>	NEC: CMG-LS CEC: CMG-LS FT4 Limited Smoke	4	1000	304.8	35.0	15.9	.260	6.60	9.3	3.0	330	1	2.0	62.3	60	60.8	100±15	20.0
				A-1000	A-304.8	37.0	16.8	4	4.1	53.3	49	48.7	100±15	23.0					
				10	6.5	47.3	41	40.8	100±15	24.5									
				16	8.2	44.3	36	36.7	100±15	25.0									
				20	9.3	42.8	34	34.7	100±15	25.0									
				25	10.4	41.3	31	32.8	100±15	24.3									
				31.25	11.7	39.9	28	30.9	100±15	23.6									
				62.5	17.0	35.4	18	24.8	100±15	21.5									
				100	22.0	32.3	10	20.8	100±15	20.1									

**LSZH and ABS Type Approved**

Jacket sequentially marked at 2 ft. intervals.

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, Black or Natural)**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										
	<b>1533P</b>	NEC: CMP CEC: CMP CMP	4	1000	304.8	35.0	15.9	.235	6.00	9.38	3.0	330	1	2.0	62.3	60	60.8	100±15	20.0
				A-1000	A-304.8	38.0	17.2	4	4.1	53.3	49	48.7	100±15	23.0					
				10	6.5	47.3	41	40.8	100±15	24.5									
				16	8.2	44.3	36	36.7	100±15	25.0									
				20	9.3	42.8	34	34.7	100±15	25.0									
				25	10.4	41.3	31	32.8	100±15	24.3									
				31.25	11.7	39.9	28	30.9	100±15	23.6									
				62.5	17.0	35.4	18	24.8	100±15	21.5									
				100	22.0	32.3	10	20.8	100±15	20.1									

Shield is bonded to jacket inner wall for electrical stability.

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss  
ScTP = Screened (Overall Foil) Twisted Pair(s)

\*Drain wire is 24 AWG stranded tinned copper.

**Color Codes: DataTwist 5e ScTP**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

# DataTwist® 5 ScTP Cable

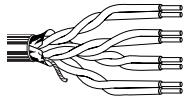
TIA/EIA-568-A, Category 5 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

**24 AWG Solid Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire\* • RJ-45 Compatible • See Color Code Chart (below)**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple or Light Gray)**

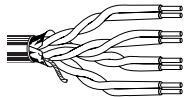
Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)				
1624R	NEC:	4	1000	304.8	33.0	15.0	.260	6.60	9.38	3.0	300	1	2.0	62.3	100±15	23.0	
	CMR		A-1000	A-304.8	36.0	16.3							4	4.1	53.3	100±15	23.0
	CEC:		1640†	500.0	54.1	24.7							8	5.8	48.8	100±15	23.0
	CMR												10	6.5	47.3	100±15	23.0
													16	8.2	44.3	100±15	23.0
													20	9.3	42.8	100±15	23.0
													25	10.4	41.3	100±15	22.0
													31.25	11.7	39.9	100±15	21.1
													65.5	17.0	35.4	100±15	18.0
													100	22.0	32.3	100±15	16.0



†1640 ft. put-up available in Gray only.  
Shield is bonded to jacket inner wall for electrical stability.  
Jacket sequentially marked at 2 ft. intervals. • Third party verified to TIA/EIA-568-A, Category 5

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray or Natural)**

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)				
1624P	NEC:	4	1000	304.8	32.0	14.5	.230	5.84	9.38	3.0	300	1	2.0	62.3	100±15	23.0	
	CMR		A-1000 ††	A-304.8	35.0	15.9							4	4.1	53.3	100±15	23.0
	CEC:												8	5.8	48.8	100±15	23.0
	CMR												10	6.5	47.3	100±15	23.0
													16	8.2	44.3	100±15	23.0
													20	9.3	42.8	100±15	23.0
													25	10.4	41.3	100±15	22.0
													31.25	11.7	39.9	100±15	21.1
													65.5	17.0	35.4	100±15	18.0
													100	22.0	32.3	100±15	16.0



††A-1000 ft. put-up available in Yellow, Blue, Gray or Natural only.  
Shield is bonded to jacket inner wall for electrical stability.  
Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 5

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

\*Drain wire is 24 AWG stranded tinned copper on 1624R and 24 AWG solid tinned copper on 1624P.

**Color Codes: DataTwist 5 ScTP**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown



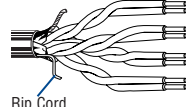
# DataTwist® 5 ScTP Cable

## TIA/EIA-568-TSB 36, Category 5 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR ( $\Omega$ / 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. NEXT (dB)	Input Imped. ( $\Omega$ )	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm								

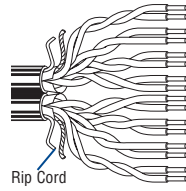
**24 AWG** Solid Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Gray or Blue)**

 <p>Rip Cord</p>	<b>1633A</b> NEC: CM CEC: CM	4	U-1000	U-304.8	30.0	13.6	.260	6.60	9.38	5.0	330	4	4.1	53.0	100±15	N/A			
			1000	304.8	32.0	14.5								10	6.5	47.0	100±15	N/A	
															16	8.2	44.0	100±15	N/A
															31.25	11.7	40.0	100±15	N/A
															62.5	17.0	35.0	100±15	N/A
															100	22.0	32.0	100±15	N/A

Not compatible with RJ-11/12/45 connectors.  
 Jacket sequentially marked at 2 ft. intervals.  
 Third party verified to TIA/EIA-568-TSB 36, Category 5

**Non-Plenum • Dual • Polyolefin Insulation • Gray PVC Jacket with Polarity Rib**

 <p>Rip Cord</p>	<b>1668A</b> NEC: CM CEC: CM	2x4	1000	304.8	70.0	31.8	.518	13.16	9.38	5.0	330	4	4.1	53.0	100±15	N/A			
			1640	500.0	109.9	49.9	x	x						10	6.5	47.0	100±15	N/A	
									.254	6.45					16	8.2	44.0	100±15	N/A
															31.25	11.7	40.0	100±15	N/A
															62.5	17.0	35.0	100±15	N/A
															100	22.0	32.0	100±15	N/A

Not compatible with RJ-11/12/45 connectors.  
 Jacket sequentially marked at 2 ft. intervals.  
 Third party verified to TIA/EIA-568-TSB 36, Category 5 (Leg 1 & 2). A polarity rib is applied to one leg.

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

**Color Codes: DataTwist 5 ScTP**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

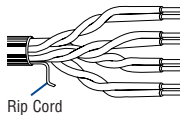
# VideoTwist® 6 UTP Cable for RGB Video

TIA/EIA-568-B.2-1, Category 6 Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

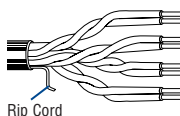
**23 AWG Bonded-Pairs** Solid BC Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polypropylene Insulation • PVC Jacket**

 <p>Rip Cord</p>	<b>7989R</b>	NEC:	4	1000	304.8	32.0	14.5	.365	9.27	9.0	3.0	49.2	1	2.0	72.3	70.3	64.8	100±15	20.0
		CMR		1640	500.0	52.5	23.8		x	x			4	3.8	63.3	59.5	52.7	100±15	23.0
		CEC:							.165	.412			10	6.0	57.3	51.3	44.8	100±15	25.0
		CMG											16	7.6	54.3	46.7	40.7	100±15	25.0
													31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.8	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.7	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 6

**Plenum • FEP Insulation • Flamarrest® Jacket**

 <p>Rip Cord</p>	<b>7989P</b>	NEC:	4	1000	304.8	38.0	17.2	.365	9.27	9.0	3.0	49.2	1	2.0	72.3	70.3	64.8	100±15	20.0
		CMP		1640	500.0	62.3	28.3		x	x			4	3.8	63.3	59.5	52.7	100±15	23.0
		CEC:							.165	.412			10	6.0	57.3	51.3	44.8	100±15	25.0
		CMP											16	7.6	54.3	46.7	40.7	100±15	25.0
													31.25	10.7	49.9	39.2	34.9	100±15	23.6
													62.5	15.4	45.4	30.0	28.8	100±15	21.5
													100	19.8	42.3	22.5	24.8	100±15	20.1
													200	29.0	37.8	8.8	18.7	100±22	18.0
													250	32.8	36.3	3.5	16.8	100±32	17.3

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: VideoTwist 6 RGB**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown



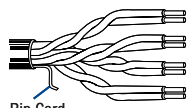
# DataTwist® 5e UTP Cable for RGB Video

TIA/EIA-568-B.2, Category 5e Bonded and Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

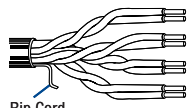
**Low Skew 24 AWG Bonded Pairs** Solid BC Conductors • Twisted Pairs • Skew 9.0ns/100m nom. • Rip Cord • See Color Code Chart

**Non-Plenum • Polyolefin Insulation • Green PVC Jacket**

 <p>Rip Cord</p>	<b>7988R</b>	NEC: CMR CEC: CMG	4	U-1000 U-1640	U-304.8 U-500.0	22.0 36.1	10.0 16.4	.204	5.18	9.0	3.0	66.0	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	65.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.0 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
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Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

**Plenum • FEP Insulation • Green Flamarrest® Jacket**

 <p>Rip Cord</p>	<b>7988P</b>	NEC: CMP CEC: CMP	4	U-1000 U-1640	U-304.8 U-500.0	23.0 37.7	10.4 17.1	.193	4.90	9.0	3.0	66.0	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	65.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.0 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
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Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: DataTwist 5e RGB**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown



# MediaTwist® and DataTwist® 6 UTP Patch Cables

TIA/EIA-568-B.2-1, Category 6

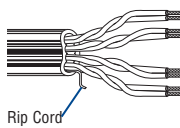
Enhanced Category 6 Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**Patch Cables • 24 AWG Bonded-Pairs Stranded (7x32) Tinned Copper Conductor • RJ-45 Compatible • See Color Code Chart (below)▲**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Yellow, Green, Blue, Purple, Light Gray, Gray, White or Black)**

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	1000†	304.8	31.0	14.1	.365	9.27	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0	
1875GB	CMR	4	A-1000††	A-304.8	32.0	14.5	x	x				4	3.7	63.3	59	52.8	100±12	23.0	
	CEC:												8	5.3	58.8	53	46.7	100±12	24.5
	CMR												10	5.9	57.3	51	44.8	100±12	25.0
													16	7.5	54.3	46	40.7	100±12	25.0
													25	9.5	51.4	42	36.8	100±15	24.3
													31.25	10.6	49.9	39	34.9	100±15	23.6
													62.5	15.4	45.4	30	28.9	100±15	21.5
													100	19.8	42.3	25	24.8	100±15	21.0
													155	25.1	39.5	14	20.9	100±15	21.0
													200	29.0	37.8	10	18.8	100±15	21.0
													250	32.8	36.3	3	16.8	100±20	18.0
											300	35.2	35.2	>0	15.2	100±20	18.0		
											350	39.8	34.2	—	13.9	100±22	17.0		
											400	43.0	—	—	—	100±32	14.0		
											500	49.0	—	—	—	100±32	14.0		

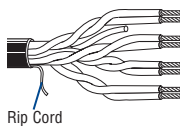


†1000 ft. put-up not available in Purple.  
 ††A-1000 ft. put-up not available in Black.  
 U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467  
 Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch

**Patch Cables • 24 AWG Solid BC Conductors • Twisted Pairs • Central Slit-Film Filler • RJ-45 Compatible\* • See Color Code Chart (below)▲**

**Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)**

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	1000	304.8	24.0	10.9	.205	5.21	9.38	5.0	330	1	2.4	72.3	69.9	64.8	100±15	20.0	
7883A	CM	4										10	7.1	57.3	50.2	44.8	100±15	25.0	
	CEC:												20	10.2	52.8	42.6	38.8	100±15	25.0
	CM												31.25	12.8	49.9	37.1	34.9	100±15	23.6
													62.5	18.5	45.4	26.9	28.9	100±15	21.5
													100	23.8	42.3	18.5	24.8	100±15	20.1
													200	34.8	37.8	3.0	18.8	100±22	18.0
													250	39.4	36.3	—	16.8	100±32	17.3



Jacket sequentially marked at 2 ft. intervals.  
 Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes: MediaTwist Patch (1875GB)**

Pair No.	Color Combination
1	White/Brown Stripe & Brown
2	White/Blue Stripe & Blue
3	White/Green Stripe & Green
4	White/Orange Stripe & Orange

\*Color rotation available for T568-A or T568-B wiring schemes.

**Color Codes: DataTwist 6 Patch (7883A)**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

\*Color rotation available for T568-A or T568-B wiring schemes.

**Handy Cable Preparation Tool for Bonded-Pairs**

See page 15.40 for details.

(Part No. 1797B)





# DataTwist® 350 UTP Patch Cable

TIA/EIA-568-B.2, Category 5e

Enhanced Category 5e Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**24 AWG Bonded-Pairs** Stranded (7x32) Tinned Copper Conductors • RJ-45 Compatible • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue, Purple, Black or Gray)

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	U-1000	U-304.8	24.0	10.9	.220	5.59	9.0	3.0	66.0	1	2.4	65.3	62.9	60.8	100±12	20.0	
1752A	NEC:	4	1000	304.8	26.0	11.8						4	4.8	56.3	51.5	48.7	100±12	23.0	
	CM												8	6.8	51.8	45.0	42.7	100±12	24.5
	CEC:												10	7.7	50.3	42.6	40.8	100±12	25.0
	CM												16	9.7	47.3	37.5	36.7	100±12	25.0
													25	12.4	44.3	31.9	32.8	100±15	24.3
													31.25	13.9	42.9	29.0	30.9	100±15	23.6
													62.5	20.2	38.4	18.3	24.9	100±15	21.5
													100	26.0	35.3	9.2	20.8	100±15	20.1
													155	33.2	32.5	—	16.9	100±18	19.0
													200	38.4	30.8	—	14.7	100±20	19.0
											250	43.7	29.3	—	12.8	100±20	18.0		
											350	53.2	27.2	—	9.9	100±22	17.0		

Jacket sequentially marked at 2 ft. intervals.  
 U.S. Patents 5,606,151; 5,734,126 and 5,763,823  
 Third party verified to TIA/EIA-568-B.2, Category 5e Patch

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

### Color Codes: DataTwist 350 Patch

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

**Get the Bonded-Pairs Cable Preparation Tool**

See page 15.40 for details.  
 (Part No. 1797B)



# IEEE 802.3 • ISO/IEC 8802.3 10Base2 and 10Base5 Trunk Cables — Thinnet and Thicknet

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

**Thinnet 10Base2 • 20 AWG Stranded (19x32) .037" Tinned Copper Conductors • Duobond® II + Tinned Copper Braid Shield (93% Coverage)**

<b>Non-Plenum • Ethernet • Foam HDPE Insulation • Gray PVC Jacket</b>																						
UL AWM Style 1354 (30V 60°C)		<b>9907</b>	NEC:	500	152.4	12.5	5.7	20 AWG (19x32)	.102	2.59	Duobond II + 93% Tinned Copper Braid	.185	4.70	50	80%	25.4	83.3	1	.43	1.4		
			CL2, CM	U-1000	U-304.8	25.0	11.4												10	1.30	4.3	
			CEC:	1000	304.8	25.0	11.4													50	2.90	9.5
			CM	1640	500.0	41.0	18.6													100	4.20	13.8
				2500	762.0	62.5	28.4													200	6.10	20.0
				3280	1000.0	82.0	37.3													400	8.90	29.2
													For Plenum versions of 9907, see 89907 or 82907.			700	12.10	39.7				
																900	13.90	45.6				
																1000	14.80	48.6				

DEC Part No. 17-01248-00

<b>Plenum Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket</b>																						
300V 75°C		<b>82907</b>	NEC:	500†	152.4	12.5	5.7	20 AWG (19x32)	.095	2.41	Duobond II + 93% Tinned Copper Braid	.160	4.06	50	80%	25.4	83.3	1	.43	1.4		
			CL2P, CMP	U-1000	U-304.8	24.0	10.9												10	1.30	4.3	
			CEC:	1000†	304.8	24.0	10.9													50	2.90	9.5
			CMP	2500†	762.0	57.5	26.1													100	4.20	13.8
																				200	6.10	20.0
																				400	9.20	30.2
																700	12.90	42.3				
																900	15.00	49.2				
																1000	16.00	52.5				

<b>Plenum Ethernet • Foam FEP Insulation • Gray Fluorocopolymer Jacket</b>																						
300V 150°C		<b>89907†</b>	NEC:	500†	152.4	12.5	5.7	20 AWG (19x32)	.095	2.41	Duobond II + 93% Tinned Copper Braid	.160	4.06	50	80%	25.4	83.3	1	.43	1.4		
			CL2P, CMP	1000†	304.8	24.0	10.9												10	1.30	4.3	
			CEC:	2500†	762.0	60.0	27.3													50	2.90	9.5
			CMP																	100	4.20	13.8
																				200	6.10	20.0
																				400	9.20	30.2
																700	12.90	42.3				
																900	15.00	49.2				
																1000	16.00	52.5				

DEC Part No. 17-01246-00

Suitable for Outdoor and Direct Burial applications.

**Thicknet 10Base5 • 12 AWG Solid .086" Bare Copper Conductor • Duobond IV\* Quad Shield (100% Coverage)**

<b>Non-Plenum • Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket</b>																						
UL AWM Style 1478 (30V 60°C)		<b>9880</b>	NEC:	500	152.4	66.0	30.0	12 AWG (solid)	.243	6.17	Duobond IV (Duobond II + 94% TC Braid + Duofoil® + 90% TC Braid)	.405	10.29	50	78%	26.0	85.0	1	.19▲	.62		
			CL2, CM	1000	304.8	131.0	59.5												5	.37▲	1.21	
			CEC:	1640	500.0	219.8	99.9													10	.52▲	1.71
			CM																	50	1.20▲	3.94
																				100	1.70▲	5.58
																				200	2.55▲	8.37
													For Plenum version of 9880, see 89880.			400	3.90▲	12.80				
																700	5.50▲	18.10				
																900	6.50▲	21.30				
																1000	6.90▲	22.60				

DEC Part No. 17-00451-00

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

<b>Plenum Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket</b>																						
150°C		<b>89880</b>	NEC:	1000†	304.8	134.0	60.9	12 AWG (solid)	.245	6.22	Duobond IV (Duobond II + 94% TC Braid + Duofoil® + 90% TC Braid)	.375	9.53	50	78%	26.0	85.0	1	.18	.59		
			CL2P, CMP	1640†	500.0	224.7	102.1												5	.37▲	1.21	
			CEC:																	10	.52▲	1.71
			CMP																	50	1.15	3.77
																				100	1.65	5.41
																				200	2.45	8.04
																400	3.80	12.50				
																700	5.60	18.40				
																900	6.80	22.30				
																1000	7.20	23.60				

DEC Part No. 17-00324-00

Suitable for Outdoor and Direct Burial applications.

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

\* Duobond IV = Duobond II (100% coverage) + tinned copper braid (90% coverage) + Duofoil® (100% coverage) + tinned copper braid (90% coverage).  
 † Plenum version is Duobond II (100% coverage) + tinned copper braid (94% coverage) + Duofoil (100% coverage) + tinned copper braid (90% coverage).  
 ‡ Spools are one piece, but length may vary ±10% from length shown.  
 ▲Maximum Attenuation

⚠ Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

# IEEE 802.3 • ISO/IEC 8802.3 10Base5

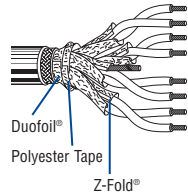
## Transceiver Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Wt.		Conductor (stranding) Nom. DCR	Shielding Materials Nom. DCR	Nominal OD		Drain Wire	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg			Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m

**28 and 24 AWG Stranded TC Conductors • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil® + TC Braid Shield (92% Coverage) • Drain Wire**

**Non-Plenum • Polypropylene Insulation • Light Gray PVC Jacket**

UL AWM Style 2919 (30V 80°C)	<b>9903</b>	NEC: CMG CEC: CMG	4	Gray/White, Yellow/Orange, Blue/Green, Black/Red	500 1000	152.4 304.8	21.5 43.0	9.8 19.5	3 Pair: 28 AWG (7x36) TC 65.0Ω/M' 213.0Ω/km 1 Pair: 24 AWG (7x32) TC 24.0Ω/M' 78.7Ω/km Each Pair Individually Beldfoil® Shielded	Polyester Isolation Tape + Duofoil + 92% Tinned Copper Braid 9.5Ω/km	.250 6.35	24 AWG Stranded Tinned Copper	78*	66%	19.7	64.6	34.8	114.2
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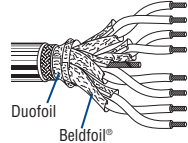


\*3 Pairs

**20 AWG Stranded (7x28) TC Conductors • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil + TC Braid Shield (95% Coverage) • Drain Wire**

**Non-Plenum • Datalene® Insulation • Light Gray PVC Jacket**

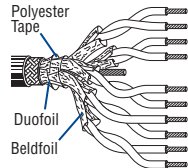
UL AWM Style 2919 (30V 80°C)	<b>9901</b>	NEC: CL2, CM CEC: CM	4	Gray/White, Yellow/Orange, Blue/Green, Black/Red	500 1000	152.4 304.8	53.5 106.0	24.3 48.2	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M' 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 6.6Ω/km	.415 10.54	22 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8
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For Plenum version of 9901, see 89901.

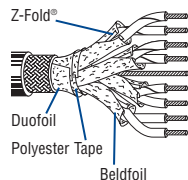
DEC Part No. 17-01320-00

UL AWM Style 2919 (30V 80°C)	<b>9902</b>	NEC: CL2, CM CEC: CM	5	Gray/White, Yellow/Orange, Blue/Green, Red/Brown, Red/Black	500 1000	152.4 304.8	76.0 145.0	34.5 65.9	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M' 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 5.4Ω/km	.495 12.58	20 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8
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**Plenum • FEP Teflon® Insulation†† • Light Gray Fluorocopolymer (PVDF) Jacket**

150°C	<b>89901</b>	NEC: CMP CEC: CMP	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	500†† 1000††	152.4 304.8	51.5 104.0	23.4 47.3	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M' 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 4.9Ω/km	.370 9.40	22 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8
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††Foam FEP (data pairs) and solid FEP (power pair).  
DEC Part No. 17-01319-00 • Suitable for Outdoor and Direct Burial applications.

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

†† Spools are one piece, but length may vary ±10% from length shown.

⚠ Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

# IEEE 802.3 • Ethernet 10Base5

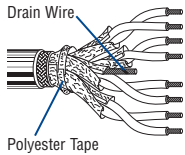
## Transceiver Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Wt.		Conductor (stranding) Nom. DCR	Shielding Materials Nom. DCR	Nominal OD		Drain Wire	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg			Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m

**20 AWG** Stranded (7x28) .038" TC Cond. • Twisted Pairs • Beldfoil® (100% Coverage) + Polyester Tape + TC Braid Shield (95% Cov.) • Drain Wire

**Non-Plenum • Ethernet • Datalene® Insulation • Light Blue PVC Jacket**

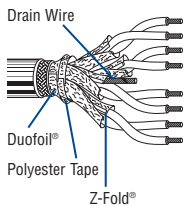
UL AWM Style 2919 (30V 80°C)	<b>9892</b>	NEC: CM, CL2 CEC: CM	4	Gray/White, Yellow/Orange, Blue/Green, Black/Red	500 1000	152.4 304.8	51.5 101.0	23.4 45.9	20 AWG (7x28) .038" Tinned Copper 9.5Ω/M' 31.2Ω/km	Polyester Isolation Tape + 95% Tinned Copper Braid 1.9Ω/M' 6.2Ω/km	.398 10.1	22 AWG (7x30) Tinned Copper	78	78%	16.7	54.8	29.5	96.8
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**20 AWG** Stranded (7x28) .038" TC Conductors • Twisted Pairs • Beldfoil® Inner + Overall Duofoil® (100% Coverage) + TC Braid Shield (95% Cov.)

**Plenum • Ethernet • Foam FEP Insulation (Data) • Solid FEP Insulation (Power) • Brown Fluorocopolymer Jacket**

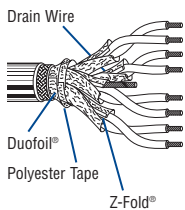
UL AWM Style 2919 (30V 80°C)	<b>89892</b>	NEC: CMP CEC: CMP	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	500 1000	152.4 304.8	50.0 101.0	22.7 45.9	20 AWG (7x28) .038" Tinned Copper 9.5Ω/M' 31.2Ω/km	Polyester Isolation Tape + Duofoil® + 95% Tinned Copper Braid 1.5Ω/M' 4.9Ω/km	.359 9.1	22 AWG (7x30) Tinned Copper	78	78%	16.7	54.8	29.5	96.8
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**20 and 22 AWG** Stranded TC Conductors • Twisted Pairs • Beldfoil® Inner Shield (100% Coverage) + Overall TC Braid Shield (95% Coverage)

**Non-Plenum • Ethernet • Foam HDPE (22 AWG) and PVC (20 AWG) Insulation • Light Blue PVC Jacket**

UL AWM Style 2919 (30V 80°C)	<b>9891</b>	NEC: CM CEC: CM	4	Black/White, Yellow/Orange, Blue/Green, Gray/Purple	100 500 1000	30.4 152.4 304.8	7.4 36.0 70.0	3.7 16.3 16.3	3 Pair: (7x28) 22 AWG (7x30) 14.7Ω/M' 48.23Ω/km Foam HDPE Insulation 1 Pair: 20 AWG (7x28) TC 9.5Ω/M' 31.1Ω/km PVC Insulation	Each Pair Individually Shielded, Overall Duofoil + 95% Tinned Copper Braid Beldfoil® TC 1.8Ω/M' 5.9Ω/km	.316 8.0	22 AWG (7x30) Tinned Copper	78*	78%*	16.7*	54.8*	29.5*	96.8*
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\*3 Pairs

DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper



\* Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

⚠ Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

# IEEE 802.4 MAP & Mini-MAP • IEEE 802.7

## Broadband Coaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation			
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m	
<b>RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel Conductor • Duobond® IV* Quad Shield (100% Coverage)</b>																				
<b>Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket</b>																				
	<b>3131A</b>	NEC:	1000 **	304.8	41.0	18.6	18 AWG	.180	4.57	Duobond IV	.300	7.62	75	82%	16.2	53.1	1	.35	1.2	
		CL2R,	2500 †	762.2	102.5	46.5	(solid)			Quad Shield								2	.38	1.3
		CMR					.040"			3.6Ω/M'								5	.45	1.5
		CEC:					BCCS			11.8Ω/km								10	.59	1.9
		CMG					28.0Ω/M'											20	.86	2.8
							91.8Ω/km											50	1.37	4.5
																		100	1.97	6.5
																		200	2.82	9.3
																		300	3.48	11.4
																		400	4.04	13.3
Tap marks every 2.6 meters to aid users in installation.																				
<b>Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket</b>																				
	<b>3132A</b>	NEC:	1000 **	304.8	36.0	16.4	18 AWG	.170	4.32	Duobond IV	.274	6.96	75	82%	16.3	53.5	1	.36	1.2	
		CMP					(solid)			Quad Shield								2	.38	1.3
		CEC:					.040"			3.6Ω/M'								5	.50	1.6
		CMP					BCCS			11.8Ω/km								10	.65	2.1
							28.0Ω/M'											20	.95	3.1
							91.8Ω/km											50	1.50	4.9
																		100	2.12	7.0
																		200	2.99	9.8
																		300	3.66	12.0
																		400	4.23	13.9
Tap marks every 2.6 meters to aid users in installation. Suitable for Outdoor and Direct Burial applications.																				

BCCS = Bare Copper Covered Steel • DCR = DC Resistance

\*Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.


†Spools are one piece, but length may vary ±10% from length shown.

\*\*1000' exact 1 pc.

 Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

# IEEE 802.4 MAP & Mini-MAP • IEEE 802.7

## Broadband Coaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m
<b>RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV* Quad Shield (100% Coverage)</b>																			
<b>Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket</b>																			
	<b>3094A</b>	NEC:	500 **	152.4	31.0	14.1	14 AWG	.280	7.11	Duobond IV	.407	10.34	75	82%	16.2	53.1	1	.16	.5
		CL2R,	1000 **	304.8	62.0	28.2	(solid)			Quad Shield							2	.18	.6
		CMR,	2000 †	609.6	122.0	55.3	.064"			1.5Ω/M'							5	.26	.9
		CEC:					BCCS			4.9Ω/km							10	.38	1.2
		CMG					11.0Ω/M'										20	.55	1.8
							36.1Ω/km										50	.83	2.7
																	100	1.17	3.8
																	200	1.60	5.3
																	300	1.99	6.6
																	400	2.30	7.6
Tap marks every 2.6 meters to aid users in installation.																			
<b>Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket</b>																			
150°C	<b>3095A</b>	NEC:	1000 **	304.8	76.0	34.5	14 AWG	.280	7.11	Duobond IV	.387	9.83	75	82%	16.5	54.1	1	.17	.6
		CMP					(solid)			Quad Shield							2	.22	.7
		CEC:					.064"			3.9Ω/M'							5	.28	.9
		CMP					BCCS			12.8Ω/km							10	.40	1.3
							11.0Ω/M'										20	.60	2.0
							36.1Ω/km										50	1.20	3.9
																	100	1.70	5.6
																	200	2.50	8.2
																	300	3.04	10.0
																	400	3.50	11.5
Tap marks every 2.6 meters to aid users in installation. Suitable for Outdoor and Direct Burial applications.																			

BCCS = Bare Copper Covered Steel • DCR = DC Resistance

\*Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.

†Spools are one piece, but length may vary ±10% from length shown.

\*\*500' & 1000' exact 1 pc.

 Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

# IEEE 802.5; ISO/IEC 8802.5

## IBM Cabling System

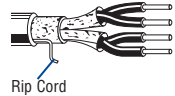
### Types 1A and 1

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Maximum Attenuation		Min. NEXT	
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m		(dB/ 1000')	(dB/ 100m)	(dB/ 3280')	(dB/ 1000m)

**IBM Type 1A • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil® Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord**

**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

<b>IBM Part No.</b> 9688	NEC:	2	500 <sup>†</sup>	152.4	26.5	12.0	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748	CMG:		1000 <sup>†</sup>	304.8	50.0	22.7	x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G2772	CEC:		2000 <sup>†</sup>	609.8	102.0	46.3	.431	10.95	BC	Each Pair				100	37.5	12.3	38.5	38.5
	CMG:		3600 <sup>†</sup>	1097.6	190.8	86.5			.026"	+ 65%				300	65.2	21.4	31.3	31.3
									16.7Ω/M'	TC Braid				100 <sup>††</sup>	40.8	13.4	—	—
									54.7Ω/km	Overall				300 <sup>††</sup>	71.0	23.3	—	—
														600 <sup>††</sup>	100.3	32.9	—	—

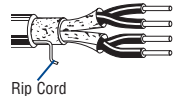


Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications. IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Non-suffix "A" Type IBM Product, see 1634A below.

**Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket**

<b>IBM Part No.</b> 82688	NEC:	2	1000 <sup>†</sup>	304.8	47.0	21.4	.248	6.30	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716749	CMP:						x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G8220	CEC:						.348	8.84	BC	Each Pair				100	37.5	12.3	38.5	38.5
	CMP:								.026"	+ 65%				300	65.2	21.4	31.3	31.3
									16.7Ω/M'	TC Braid				100 <sup>††</sup>	40.8	13.4	—	—
									54.7Ω/km	Overall				300 <sup>††</sup>	71.0	23.3	—	—
														600 <sup>††</sup>	100.3	32.9	—	—



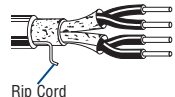
Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.

**IBM Type 1 • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord**

**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

<b>IBM Part No.</b> 1634A	NEC:	2	1000 <sup>†</sup>	304.8	50.0	22.7	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748	CMG:		2000 <sup>†</sup>	609.8	102.0	46.4	x	x	(solid)	Beldfoil				16	13.4	4.4	40.0	40.0
	CEC:		3600 <sup>†</sup>	1097.6	190.8	86.7	.431	10.95	BC	Each Pair								
	CMG:								.026"	+ 65%								
									17.4Ω/M'	TC Braid								
									57.1Ω/km	Overall								



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications. IBM qualified Type 1 Media cable for use in IBM Cabling Systems. For Suffix A counterpart see 9688 above.

DCR = DC Resistance • BC = Bare Copper • NEXT = Near-end Crosstalk • TC = Tinned Copper

\* Capacitance between conductors

† Spools are one piece, but length may vary ±10% from length shown.

†† Common mode

⚠ Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

# IEEE 802.5; ISO/IEC 8802.5

## IBM Cabling System

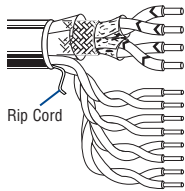
### Types 2A and 6A

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Maximum Attenuation		Min. NEXT	
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m		(dB/ 1000')	(dB/ 100m)	(dB/ 3280')	(dB/ 1000m)

**IBM Type 2A • 22 AWG Solid Bare Copper Conductors • Each Pair Individually Beldfoil® Shielded + Overall TC Braid Shield (65% Coverage)**

**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

<b>IBM Part No.</b> 9689	NEC: 6*	1000 <sup>†</sup>	304.8	80.0	36.4	.324	8.23	22	100%	150	8.5	27.9	1k**	.390	.128	—	—
4716739	CMG	3600 <sup>†</sup>	1097.6	298.8	135.8	x	x	(solid)	Beldfoil	@ 1MHz	(data)	(data)	4	6.7	2.2	58.0	58.0
33G2773	CEC: CMG					.466	11.84	BC	Each Pair	(data)			16	13.4	4.4	50.4	50.4
								.026"	+ 65%	600			100	37.5	12.3	38.5	38.5
								16.7Ω/M'	TC Braid	@ 1kHz			300	65.2	21.4	31.3	31.3
								54.7Ω/km	Overall	(voice)			100 <sup>††</sup>	40.8	13.4	—	—
									(data only)				300 <sup>††</sup>	71.0	23.3	—	—
													600 <sup>††</sup>	100.3	32.9	—	—

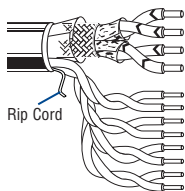


For Plenum version of 9689, see 82689.

IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

**Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket**

<b>IBM Part No.</b> 82689	NEC: 6*	1000 <sup>†</sup>	304.8	79.0	35.9	.324	8.23	22	100%	150	8.5	27.9	1k**	.390	.128	—	—
4716738	CMP					x	x	(solid)	Beldfoil	@ 1MHz	(data)	(data)	4	6.7	2.2	58.0	58.0
33G8221	CEC: CMP					.460	11.68	BC	Each Pair	(data)			16	13.4	4.4	50.4	50.4
								.026"	+ 65%	600			100	37.5	12.3	38.5	38.5
								16.7Ω/M'	TC Braid	@ 1kHz			300	65.2	21.4	31.3	31.3
								54.7Ω/km	Overall	(voice)			100 <sup>††</sup>	40.8	13.4	—	—
									(data only)				300 <sup>††</sup>	71.0	23.3	—	—
													600 <sup>††</sup>	100.3	32.9	—	—



IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

**IBM Type 6A • 26 AWG Stranded (7x34) BC Conductors • Twisted Pairs • Beldfoil Shielded Pairs + Overall TC Braid Shield (65% Coverage)**

**Non-Plenum • Datalene® Insulation • Striated Black PVC Jacket**

<b>IBM Part No.</b> 1215A	NEC: 2	1000 <sup>†</sup>	304.8	46.0	20.9	.325	8.26	26	100%	150	8.5	27.9	4	10	3.3	52.0	52.0
4716743	CL2, CM							(7x34)	Beldfoil				16	20	6.6	44.0	44.0
33G2775	CEC: CM							BC	Each Pair				100	57	18.7	33.0	33.0
								.019"	+ 65%				300	100	32.3	25.0	25.0
								38.7Ω/M'	TC Braid								
								127.0Ω/km	Overall								



IBM qualified Type 6A Office cable for use in IBM Cabling Systems.

BC = Bare Copper • DCR = DC Resistance • NEXT = Near-end Crosstalk • TC = Tinned Copper

\* Capacitance between conductors

\*\*Voice pairs (1 kHz); Data pairs (4–600 MHz)

† Spools are one piece, but length may vary ±10% from length shown.

†† Common mode

▲ (2) shielded Data-grade pairs; (4) unshielded Voice-grade media pairs

⚠ Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

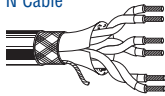
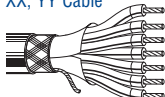
Teflon is a DuPont trademark.



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# IBM RISC System/6000

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs/ Cond.	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
<b>28 AWG Stranded (7x36) Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shielded + TC Braid Shield (65% Coverage) • TC Drain Wire</b>																
<b>Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket (See RISC Color Code Chart below)</b>																
<b>IBM Part No.</b> N Cable	<b>1538A</b>	NEC: CL2	3	U-1000 1000	U-304.8 304.8	24.0 25.0	10.9 11.4	.225	5.72	28 (7x36) Bare Copper 63.0Ω/M' 207.0Ω/km	Overall Beldfoil + 65% TC Braid 5.5Ω/M' 18.0Ω/km	120	12.0	39.4	21.5	70.5
																
RJ-45 compatible																
<b>IBM Part No.</b> XX, YY Cable	<b>1540A</b>	NEC: CL2	7/c	U-1000 1000	U-304.8 304.8	21.0 21.0	9.5 9.5	.190	4.83	28 (7x36) Bare Copper 63.0Ω/M' 207.0Ω/km	Overall Beldfoil + 65% TC Braid 7.2Ω/M' 23.6Ω/km	—	12.5	41.0	23.0	75.5
																
RJ-45 compatible																

DC = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors

\*\* Capacitance between one conductor and other conductors connected to shield

### Color Codes: IBM RISC System/6000

Cond.	Color	Pair No.	Color Combination
1st	White over Blue	1	White over Blue & Blue over White
2nd	White over Orange	2	White over Orange & Orange over White
3rd	White over Green	3	White over Green & Green over White
4th	White over Brown		
5th	White over Gray		
6th	White over Red		
7th	White over Yellow		

# SCSI 25- and 34-Pair Cable

(Small Computer System Interface)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm					* pF/Ft.	* pF/m	** pF/Ft.	** pF/m

**SCSI • 28 AWG** Stranded (7x36) TC Conductors • Twisted Pairs • Overall Beldfoil® Shield + TC Braid Shield (85% Coverage) • See Color Code Chart (below)

**Non-Plenum • Flame-retardant Polyolefin Insulation • Polypropylene Buffer Layer • Light Gray PVC Jacket**

150V	<b>1401A</b>	NEC: CL2, CMG CEC: CMG	25	500 1000	152.4 304.8	51.5 101.0	23.4 45.9	.420	10.7	28 (7x36) TC 64.9Ω/M' 212.9Ω/km	Overall Beldfoil + 85% TC Braid 2.0Ω/M' 6.6Ω/km	120† 80††	66%	12.7	41.7	30.0	98.4
150V	<b>1403A</b>	NEC: CL2, CM CEC: CM	34	500 1000	152.4 304.8	71.5 139.0	32.5 63.2	.480	12.2	28 (7x36) TC 64.9Ω/M' 212.2Ω/km	Overall Beldfoil + 85% TC Braid 1.5Ω/M' 4.9Ω/km	120† 80††	66%	12.7	41.7	30.0	98.4

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Differential mode impedance.

†† Single end mode termination impedance.

### Color Codes: Modified Western Electric Standard

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe	9	Red/Brown Stripe & Brown/Red Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe	25	Purple/Gray Stripe & Gray/Purple Stripe
2	White/Orange Stripe & Orange/White Stripe	10	Red/Gray Stripe & Gray/Red Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe	26	White & Blue
3	White/Green Stripe & Green/White Stripe	11	Black/Blue Stripe & Blue/Black Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe	27	White & Orange
4	White/Brown Stripe & Brown/White Stripe	12	Black/Orange Stripe & Orange/Black Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe	28	White & Green
5	White/Gray Stripe & Gray/White Stripe	13	Black/Green Stripe & Green/Black Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe	29	White & Brown
6	Red/Blue Stripe & Blue/Red Stripe	14	Black/Brown Stripe & Brown/Black Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe	30	White & Gray
7	Red/Orange Stripe & Orange/Red Stripe	15	Black/Gray Stripe & Gray/Black Stripe	23	Purple/Green Stripe & Green/Purple Stripe	31	Red & Blue
8	Red/Green Stripe & Green/Red Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe	32	Red & Orange
						33	Red & Green
						34	Red & Brown

