



## Belden IBDN Cabling Solutions

### Overview:

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Belden IBDN is a **standards-based, end-to-end structured cabling system** that allows users to build an information infrastructure that will evolve and constantly keep up with competitive work environments. Belden offers several Belden IBDN systems to choose from.

### These include:

- **Belden IBDN Cabling Solutions**

FiberExpress Solutions offer exceptionally quick and accessible installation due to superior technological compatibility and cost effectiveness. Our solutions allow smooth network operation and more efficient network management.

[FiberExpress Solutions: Maximum distances](#)

This pdf document is a quick visual guide of Belden IBDN FiberExpress Solutions maximum reach distances in relation with the 1 Gb and 10Gb applications. For detailed information, please contact a [CSV](#) near you.

- **FiberExpress Cabling System**

[FiberExpress Fiber-To-the-Desk Systems](#)

Whether for horizontal distribution or centralized cabling, our solutions include a wide range of products such as work area outlets and large capacity fiber management products that make the fiber-to-the-desk application a reality.

[FiberExpress Backbone Systems](#)

Belden CDT Networking's vast experience in fiber technology proves successful when adapting to different environments, whether indoor, outdoor or both. Our solutions can accommodate either small or large high-speed backbones. Due to the factors of backbone-required bandwidth (10 times the horizontal) and the fiber ports with which electronics are typically equipped, FiberExpress is also cost effective to install.

[FiberExpress Pre-connectorized System](#)

The ultimate in quick, easy and reliable optical networking is the FiberExpress Pre-connectorized System. All components are factory-connectorized and fully tested to ensure fast deployment and tremendous reliability in traditional LAN applications, and in specialized applications such as Internet Data Centers and Storage Area Networks. The FiberExpress Pre-connectorized System is also well suited for temporary situations, such as recovery installations or convention center services.

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### Cabling Solutions:

Three cable system performance options are offered by Belden to meet the varying needs of enterprises, these include:

## Structured Cabling Solution for 10 Gigabit Ethernet

- **Belden IBDN System 10GX**

The Belden IBDN System 10GX is a revolutionary end-to-end UTP cabling solution for 10 Gigabit Ethernet service. The Belden IBDN System 10GX was designed and engineered from the ground up to meet the high-speed, high-bandwidth needs of 10 Gigabit Ethernet networks today – and in the future.

The 10GX solution is not based upon the improvement, or tuning, of existing elements, but on a complete redesign of key channel components. With testing witnessed by ETL on every single, critical parameter beyond the specified 500 MHz range, the 10GX is by far the most advanced 10 Gigabit Ethernet solution available today, with guaranteed performance up to 625 MHz.

### Learn More About this Product:



### Catalogs and Brochures

- [Products](#)
- [IBDN System 10GX Brochure](#)
- [Belden IBDN System 10GX White Paper](#) - The next level of cabling performance
- [Kennedy Space Center Success Story](#)

## Cross-Connect Systems

### [Belden IBDN GigaBIX Cross-Connect System:](#)

The new GigaBIX Cross-Connect System takes advantage of the proven reliability of the BIX technology to provide a high-performance connection for data networks. The new system allows for very high termination density while maintaining ease of administration for moves, adds and changes. Moreover, the GigaBIX Cross-Connect System offers the best performance-to-price ratio for high-performance connectivity.

### Learn More About this Product:

- [GigaBIX Cross-Connect System Brochure](#)
- [GigaBIX Cross-Connect System White Paper](#) - The answer to your connectivity challenges
- [Standard Life Success Story](#)

- **Belden IBDN BIX Cross-Connect System**

The BIX Cross-Connect System uses a simple modular installation approach with a few basic components such as mounts, connectors and management accessories. Only one connecting tool is required to terminate all BIX products.

The BIX Distribution Connector stayed unchanged since it was first introduced. It had always offered unsurpassed transmission performance due to its unique symmetrical staggered clip design.

**Learn More About this Product:**

- [BIX Cross-Connect System Brochure](#)
- [Electronic Arts Success Story](#)

- **Belden IBDN 110 Cross-Connect System**

The 110 Cross-Connect System uses a simple modular approach with a few basic components such as connecting blocks, wiring blocks and management accessories. These components are all compatible with other existing 110 Cross-Connect systems and installation tools.

**Learn More About this Product:**

- [110 Cross-Connect System Brochure](#)
- [Pediatric Services of America \(PSA\) Success Story](#)

The **Belden IBDN System 4800LX** and **2400** are **Beyond Category 6™** solutions that offer the highest performance margins in the industry. Their components work together to provide a telecommunications infrastructure with enough headroom to meet the needs of the marketplace for now and years to come.

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## **Belden IBDN System 4800LX:**

The Belden IBDN System 4800LX is made up of state-of-the-art cabling and connectivity components. The 4800LX cable, included as part of the system, is a cable from Belden that offers greater signal power and signal-to-noise performance. These features provide maximum headroom and more robust transmissions for today's applications as well as a capacity for those of tomorrow's networks. Working in conjunction with the Belden IBDN 4800LX cable is the new series of Belden IBDN PS6 modular outlets and PS6 modular cords. The combination of this premium cable and connectivity hardware results in the unparalleled end-to-end performance of the Belden IBDN System 4800LX.

**Learn More About this Product:**

- [Belden IBDN System 4800LX Brochure](#)
- [Category 6 Cabling Questions and Answers White Paper](#)

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## **Belden IBDN System 2400:**

If leading-edge communication systems are part of your competitive strategy, or if information technology drives your bottom line, then you should consider the speed, reliability and

price/performance advantages of the Belden IBDN System 2400. Based on the Series 2400 UTP cables and PS6 connectivity products, System 2400 installations provide the additional throughput and enhanced error-free performance needed to support high-traffic and high-bit-rate applications. It delivers 250 MHz of user bandwidth as well as support for data rates up to 2.4 gigabits per second. System 2400 exceeds all recently published Category 6 requirements, it provides the performance, throughput and reliability to keep your response-time-critical applications operating at peak performance, and it allows your business to run at its productive and profitable best.

**Learn More About this Product:**

- [Belden IBDN Gigabit Cabling Solutions Brochure](#)
- [Category 6 Cabling Questions and Answers White Paper](#)

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## **Belden IBDN System 1200:**

The Belden IBDN System 1200 is the industry's most powerful Category 5e solution. Combining the high performance Series 1200 UTP cables and PS5 connectivity products, the Belden IBDN System 1200 substantially exceeds all requirements for Category 5e channels, and the System 1200's certified bandwidth of 160 MHz is 60% greater than the bandwidth of typical Category 5e systems. Certified to support data rates up to 1.2 Gb/s, the Belden IBDN System 1200 provides the advanced performance required to fully support today's broad spectrum of business applications and the extended bandwidth necessary to support future growth.

**Learn More About this Product:**

- [Belden IBDN Gigabit Cabling Solutions Brochure](#)
- [Enhanced Cabling Solutions for Gigabit Networks White Paper](#)

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## **Designing a Belden IBDN System:**

This section provides Design and Application information to implement the Belden IBDN networks ranging from pure copper to copper-optical fiber and total optical fiber.

### **Telecommunications Infrastructure Standards**

Standards play a major role in providing uniformity in telecommunications infrastructure design. These standards then become the foundation on which new technologies are based. They allow a building to grow and change as technology changes, with minimal disruption to existing services, reducing the costs of moves, adds and changes.

[Click here to find summary information about standards.](#)

### **Belden IBDN Certification Information**

- [Certification Program Brochure](#)
- [Certification Program Warranties](#)

Your structured cabling system provides the critical foundation for your Information Technology systems and, therefore, your business.

- Your structured cabling system should be viewed as a long term investment in the success of your business.
- Your structured cabling system should provide outstanding performance, reliability, manageability and growth; as well as compliance with domestic and international standards in order to ensure interoperability and longevity.
- Your structured cabling system should be capable of providing these benefits today; and in the years and decades to come.
- Selecting an Belden IBDN 'Certified' Structured Cabling System is your guarantee of obtaining superior quality and performance, and your assurance that your investment will continue to meet your networking needs for the lifetime of the system. We guarantee it... in writing... for life!
- Your structured cabling system should be an Belden IBDN 'Certified' Structured Cabling System from Belden CDT Networking.

### **Belden IBDN System Design Information**

To assist designers and planners of Cabling Systems, the following chapter provides [Design and Application information for Belden IBDN Systems](#) capable of supporting voice, data, LANs, imaging and video services. Implementing Belden IBDN depends on the telecommunications services to be provided, the building architecture and its dimensions.

If you require more information, contact a Belden IBDN Certified System Vendor (CSV) in your area. CSV information can be obtained by calling Belden CDT Networking at 1-800-262-9334.

In this chapter you will find:

- IBDN Design Information
- IBDN System Drawings
- IBDN System Application Drawings.