



BELDEN
SENDING ALL THE RIGHT SIGNALS



Solutions for Airport

Our End To End Expertise
Your End To End Solution

BELDEN
SENDING ALL THE RIGHT SIGNALS

HIRSCHMANN
A BELDEN BRAND

lumbergautomation
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TOFINO SECURITY
A BELDEN BRAND

tripwire

Hi-SCOM
A BELDEN BRAND

Belden Airport Solutions

Ready for take-off with Belden – an enviable reputation for outstanding reliability has made Belden's solutions a popular choice at airports around the world.

Be Certain. Belden.



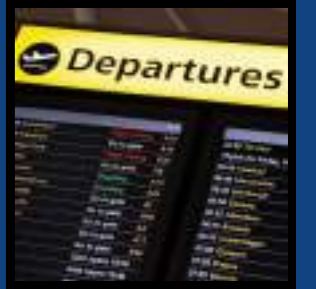


A Focus on Reliability

Ready for takeoff with Belden – an enviable reputation for outstanding reliability has made our solutions a popular choice at airports around the world. These rugged products have a proven track record in all areas of airport operations. A broad selection of redundancy mechanisms and security features make our products ideal for airport applications.

The high safety standards at airports today require highly available communication and network technology





A Focus on Reliability

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Belden Solutions for Airport Applications

Solution	Product Group	No.	Product Family	Structured Cabling - IT Network/ Passenger WiFi	IT Backbone	Disaster Recovery Site	ATC Automation & Flight Control	Signage	Baggage Handling System	Automated People Mover	Boarding Bridge	Security System (CCTV, Access Control)	Fire Alarm System	Fire Fighting System	Building Automation	Terminal Lighting Control	HVAC	PAGA	Car Park Management System	CATV	Aircraft Docking Guidance System	Fence Intrusion Detection System	Runway Lighting Control System	Runway CCTV Surveillance	Power SCADA (Low Voltage)	Power SCADA (High Voltage 10kV)	Common Services Tunnel	Water Treatment & Discharge	Fueling System	AGV for Warehousing		
				Airport Terminal													Airfield				Other Facilities											
Industrial Networking	Industrial Wireless LAN	27	Hirschmann BAT867-R			●																										
		28	Hirschmann BAT-WLC Controller			●					●																		●	●	●	●
		29	Hirschmann BAT450-F			●					●																		●	●	●	●
	IP67/IP65/IP54 Waterproof Switch & Router	30	Hirschmann OCTOPUS Series IP67									●				●						●		●	●			●	●	●	●	
		31	Hirschmann Industrial HiVision		●	●	●	●	●	●	●	●	●			●	●							●	●	●	●	●	●	●	●	
	Hi-SCOM Managed Full Gigabit POE/POE+ Switch	32	Hi-SCOM BN44/48 Series			●	●	●	●	●	●	●	●			●	●			●	●		●	●	●	●	●	●	●	●	●	
33		Hi-SCOM BN3049 Series			●	●	●	●	●	●	●	●			●	●			●	●		●	●	●	●	●	●	●	●	●		
Industrial Cyber Security	Industrial Security & Firewall	34	Tofino Xenon												●											●	●	●				
		35	Hirschmann EAGLE ONE							●	●					●						●				●	●	●	●	●		
		36	Hirschmann EAGLE20/30							●	●					●						●				●	●	●	●	●		
		37	Tripwire Enterprise (with Tripwire Data Collector)				●	●	●	●	●	●	●			●	●				●		●	●	●	●	●	●	●	●	●	
		38	Tripwire Log Center				●	●	●	●	●	●	●			●	●					●		●	●	●	●	●	●	●	●	
		39	Tripwire IP360				●	●	●	●	●	●	●			●	●					●		●	●	●	●	●	●	●	●	
Industrial Cable	Belden Fire Resistant Cable	40	EN50288-7, IEC60502-1 (FR cables)		●	●	●	●	●				●					●	●													
	Belden Industrial Ethernet Cable	41	CAT5e, CAT6, CAT6a, CAT7		●	●	●	●	●		●				●			●	●	●				●	●		●	●	●			
	Belden Electronic Wire and Cable	42	8461, 8471									●			●	●	●	●	●		●		●									
	Belden Control & Instrumentation Cable	43	MachFlex, EN 50288-7, IEC 60502-1						●		●	●	●		●	●			●	●	●	●	●	●	●	●	●	●	●	●		
	Belden Data & Protocol Cable	44	ProfiNet, Profibus, FF, RS485						●						●	●			●						●		●	●	●			
	Belden MachFlex Cable	45	Machflex High-flex Series						●		●																					
	Belden VFD Cable	46	295xx series												●													●	●			
	Belden Fiber Optic Cable	47	GUCN, GUDN							●														●								
Industrial Connectivity	Lumberg Automation M8/M12 Connector	48	RST 4-RKWT/LED P 4-225/...M RST 3-RKMV 3-224/...M 0986 EMC 600 0986 EMC 102 0985 342 500/...M 0985 S3667 500/...M RSCIS 4D/9 RSTS 8X-RSTS 8X-478/... M						●		●				●				●		●		●	●			●	●	●	●		

Belden Solutions for Airport Network

The Belden family includes some of the most trusted brands in the world: Hirschman, Tofino Security, GarrettCom, Belden Cable, Lumberg Automation and Tripwire. Our portfolio offers the breadth and depth to ensure a complete network infrastructure for a reliable Airport.

Enterprise Connectivity Solutions

Belden Copper System



Category 6A System

Belden Category 6A Copper Cable offers a wide range of options for your CAT 6A network. We are continually investing in improving our cable products to make sure that they have a simple design with maximum performance. Some options that are available include small diameter, non-bonded, and patented Bonded-Pair.

- Space savings of up to 25%
- Superior performance for PoE applications to 100W
- Full 100m channel length without derating up to 60°C
- Small Diameter (.265" plenum, .273" riser)
- Less than 10°C temperature rise in 100-cable bundle
- EquiSpline and EquiBlock technologies



Category 5e System

Belden offers several Category 5E performance levels. Our top-of-line 1583 series system cable provides headroom beyond the TIA 568-C.2 Category 5E standard and is offered with the Bonded-Pair technology option which will give you peace of mind by making your installation as robust as possible. We also offer minimum compliant versions.

- Improved signal strength
- Improved crosstalk and signal-to-noise performance
- Improved system uptime
- Less pair-to-pair coupling
- Bonded-Pair technology option



Category 6 System

Belden offers several Category 6 performance levels including our top-of-line 78** series with exceptional signal power, and signal-to-noise performance, our 3600 series with mid-range performance at a great price, and our 2400 Standards Compliant Plus system cable. Every level exceeds TIA 568-C.2's performance and are produced with Belden's superior quality. Our Bonded-Pair technology is an option which will give you peace of mind by making your installation as robust as possible. We also offer minimum compliant versions.

- Improved signal strength
- Improved crosstalk and signal-to-noise performance
- Improved system uptime
- Central X or Tape Fillers
- Bonded-Pair technology option



Workstation Outlets

Belden offers a wide variety of workstation outlet systems designed for maximum flexibility, durability, aesthetics and manageability. These systems are available using Belden KeyConnect modularity, MediaFlex flexibility and MDVO options. They come in a wide range of styles, colors and configurations, including single-gang and double-gang faceplates, stainless steel faceplates, adapters and boxes and multimedia outlets and inserts. Several innovative tools and accessories that ease termination and simplify network administration are also available.



Belden Fiber System



FiberExpress® System

The elegantly simple solution for incorporating flexibility, manageability and scalability into high-density fiber channels.

Faster

- field-termination with sliding, tilting drawers
- pre-term installation with fixed shelves and cassettes
- MACs with fewer components

Easier

- installation with tool-less removable drawers and lighter weight
- port identification with clear visible labeling
- configuration with LC, SC, ST and MPO modules

Better

- fiber protection with covered patch cord tray
- density with up to 72 LC Duplex ports per 1U
- visibility with Titanium finish options (interference or radio frequency interference)



Fiber Cable Assemblies

Patch cords, hydra patch cords, MPO trunk assemblies and multi-fiber cable assemblies are available from Belden, offering convenience, reduced complexity, versatility and robustness.



Workstation

We offer several feature-rich and compact options for pre-terminated and field-terminated applications, whether you require fiber consolidation or demarcation workstation connectivity.



Wall Mount System

Whether standard-density or high-density applications, Belden fiber wall mounts are designed for flexibility and ease of use. With added security & management features, these wall mounts allow for versatile and flexible configurations.



Optical Fiber Cable

Our extensive line of indoor and outdoor cable products are third-party tested by Electrical Testing Laboratories (ETL) or Underwriters Laboratories (UL), and approved for use by the National Electric Code (NEC).

Belden Rack & Cabinet System



Belden offers a complete selection of racking, cabinets, power distribution units, monitoring and airflow management products to meet your infrastructure needs for optimizing system performance.

- Belden provides a portfolio of enclosures and racks that meet security, availability and efficiency challenges
- The X Series (XM, XS, XN), seamlessly integrate power distribution, airflow containment and management, networking connectivity and cable management
- Belden in-enclosure mounted Power Distribution Units (PDUs) and Environment Monitors and Sensors are designed from high quality components to support all your mission critical applications

Broadcast Connectivity Solutions

Belden Audio Cable



Belden offers a large variety of products for line level audio including analog or digital cables, such as Belden 9451 or 1800B. For recording studios, radio and television stations, sound system installations, or any multi-channel audio application, Belden also offers audio snake cables up to 32 pair. Audio snakes are available in riser and plenum versions for permanent install, ultra-flexible for temporary installations, or waterblocked versions. With a variety of options, our offering will satisfy the needs of every designer and system integrator.

- With Belden's patented Banana Peel plenum audio snakes, individually shielded and jacketed pairs can be split apart at any length and connectorized directly without the need for heat shrink tubing or cost and time-consuming preparation

Belden Video Coax Cable



In 1995, Belden first launched award-winning digital precision video coax, 1694A, which is still relied upon as the world-wide broadcast cable standard today. Now that technology has expanded to even higher resolutions, requiring more bandwidth, Belden has upgraded many of those cables to 6 GHz and has introduced a full line of 4K UHD Coax Cables for 12G-SDI. Belden 75 Ohm Video Coax Cables, ranging from 12 GHz to 3 GHz, ensure reliable signal integrity and exceptional quality. No other cable manufacturer has invested in this technology like Belden has, so no other manufacturer can assure you beyond-high-definition performance like Belden.

- Specially formulated gas injected high density foam polyethylene is more crush-resistant than standard polyethylene. Even with rough handling during installation, it resists deformation and maintains impedance and return loss characteristics.
- Compared to SMPTE's return loss limit, Belden's Precision Video Coax provides significant RL headroom to account for potential losses elsewhere in the transmission line.

Belden Control Systems & Lighting Cable



Belden offers standard cables and custom combinations designed for use in a wide range of AV and control applications, such as Lutron, Crestron, and AMX. These specialized products are optimized for all aspects of building management, including the monitoring of advanced control systems and the management of AV, environmental, lighting, shade, and climate control systems. Our media automation and lighting portfolio includes products for: control systems, touch panels, relays, multiple media runs, and audio/video distribution.

- Riser and Plenum Light Dimmer Cable now available
- Convenience of data (digital audio) & power in one cable
- Handles power up to 60A, 50V, 800W, higher than PoE+

Belden Safety & Security Cable



A full complement of cables for access control, CCTV, computer interconnect, fire alarm and other security applications, with water-blocked options for installation in intermittently wet environments.

- NEC riser and plenum rated; UL and C(UL) listed as applicable
- Rip cords for easy jacket removal; sequential footage markings on the jacket to eliminate guesswork and waste
- A unique composite cable design, Access Control Banana Peel strips away installation time and labor

Belden Audio & Video Connectivity



- Connectors: Designed specifically for use with Belden broadcast and professional AV coax cables, Belden connectors maximize signal integrity and ensure quality, performance and durability.
- Cable assemblies: Whether you need HDMI, DVI and VGA assemblies, or custom-made assemblies, Belden audio and video assemblies provide the same superior quality that the rest of Belden's commercial AV product portfolio offers.

High Speed Connectivity Solutions

Belden Data Center Solution



From the demarcation point in the entrance room, to the cross connect, to the equipment rack – and all the cabling in between – Belden data center solutions seamlessly integrate functional areas while improving cooling, power and density efficiency.

Industrial Networking Solutions

Unmanaged DIN Rail Mount Switch



Hirschmann SPIDER Series

The entry-level industrial Ethernet rail switches in the SPIDER family are a cost-effective way of utilizing Ethernet technology. They are characterized by compact design and extremely simple installation (plug-and-work).



Managed DIN Rail Mount Switch



Hirschmann RS Series (OpenRail)

Configurable rail switches with management functions guarantee high availability of complex automation systems solutions and the option of network monitoring.

- Gigabit/Fast-Ethernet-Switch, managed, software Layer 2 Enhanced/Professional, for DIN rail store-and-forward-switching, fanless design
- Compact, managed OpenRail switches assure innovative redundancy solutions
- The possibility of network supervision for the highest availability of complex solutions



Hirschmann BOBCAT Series (with TSN)

The first industrial switch worldwide to provide advanced security and real-time communication through time-sensitive networking (TSN) technology on all ports for standardized Ethernet usage in event the most demanding application.

- Real-time TSN Ethernet support for precise data transmission
- Future proof – the full GE design with the capability to even support 4x 2.5 GE fiber
- Reliability – advanced security features, including wire-speed access control lists (ACL) and automatic denial-of service (DoS) prevention
- Flexibility – increased bandwidth capabilities, supporting tri-speed fiber SFP slots with 100Mb/s, 1Gigabit and 2.5 Gigabit speeds



Hirschmann MSP Series (Layer 2 & 3)

Configurable modular switches for mission critical applications with unique security features and innovative hardware redundancy methods to ensure complete protection of the network and maximum network availability.

- Industrially compatible, flexible, economical and future-proof
- Variety of port types, with up to 28 Gigabit ports
- Enables simple configuration and diagnosis using HiDiscovery, Industrial HiVision or web interface
- Comprehensive security functions such as port security, DHCP Snooping, Dynamic ARP Inspection and many more



Hirschmann RSP Series (with TSN)

RSP series offers a robust hardware and a powerful operating system optional supporting new redundancy protocols for uninterrupted data communication.

- Industrially compatible, flexible, economical and future-proof
- Variety of port types, with up to 28 Gigabit ports
- Enables simple configuration and diagnosis using HiDiscovery, Industrial HiVision or web interface
- Comprehensive security functions such as port security, DHCP Snooping, Dynamic ARP Inspection and many more

Rack Mount Switch (Workgroup/Backbone)



Hirschmann MACH100 Series

The comprehensive switching and routing functions, as well as the kettle lead power plug for the power supply make the MACH100 series workgroup switches a cost-effective alternative for layer 2/layer 3 applications with high data rates.

- Available in different full Gigabit versions
- Various redundancy methods
- Extensive management methods and diagnostic functions



Hirschmann GREYHOUND Series

The GREYHOUND Gigabit Ethernet switch series with an entry level FE/Gig version and a layer 2/layer 3 full Gigabit type is designed for use in harsh industrial environments with a need for cost-effective, entry-level devices.

- Offers different configuration options including full Gigabit combo ports and TX ports
- Provides enhanced features through Hirschmann's operating system HiOS
- Allows adjustments-even in the field through the modular port configuration features



Hirschmann MACH1000 Series

Ruggedized MACH1000 industrial backbone switches offer the maximum of reliability. The new indestructible/rugged Hirschmann switches for Fast-Ethernet applications deliver excellent performance and high port density in a compact form factor.

- Offer high port density (up to 26 ports), excellent RFI/EMI shielding under extreme conditions and great flexibility
- Dynamic layer 2 and layer 3 routing



Hirschmann MACH4000 Series

The MACH4000 backbone switch provides real all-rounder (layer 2/layer 3 switch) and suits all applications - especially large networks, with a big number of media modules, high port density and the extendable routing functionality.

- Supports data rates up to 10 Gbit/s
- Dynamic layer 2 and layer 3 routing
- Fast redundancy methods



Hirschmann DRAGON MACH4x00 Series

The DRAGON MACH4x00 series offers an innovative, technically-advanced architecture that delivers superior bandwidth (up to 10 Gigabit) for connecting OT and IT networks. It is designed for the special requirements of industrial automation.

- Meets the relevant industry standards, providing very high operational reliability, even under extreme conditions, and also long-term reliability and flexibility
- Supports data rates up to 10 Gbit/s
- 4x2.5/10GE using SFP+
- All advanced HiOS Layer 3 functions



Hirschmann BAT450-F Industrial Wireless Access Point

Dual Band Ruggedized (IP65/67) Industrial Wireless LAN Access Point/Client with IEEE 802.11n for installation in harsh environment.

- Can be customized to support a variety of wireless and wired connections
- Combined with the latest HiLCOS software, it provides extensive redundancy and security functions, as well as IPv4/6 routing
- Ethernet port 1: 8-pin, X-coded M12 plug for 10/100/1000Mbit/s, PoE port (IEEE 802.3af)
- Interface2: - V.24/ACA11: 4-pin, A-coded M12 socket
- Integrated ESD protection

IP67/IP65/IP54 Waterproof Switch & Router



Hirschmann OCTOPUS Series IP67

IP67 switches from the OCTOPUS series allow fail-safe networks to be installed in demanding cabinet-free environments.

- Compact IP67 metal housing with high port density
- Vibration-proof M12 connection technology
- Standardized redundancy mechanisms like RSTP, MRP or DLR as well as Fuse-net for redundant interconnection of networks

Industrial Wireless LAN



Hirschmann BAT867-R Industrial Wireless Access Point

The BAT867-R offers only the essential interfaces - one radio, one Ethernet port and one power supply - for applications in need of a compactly designed, cost-effective and easy-to-install wireless access point.

- Can operate at up to 867 Mbps
- 2 x 2 MIMO support
- Support of 802.11ac standard
- Version with IP40/RJ45 and IP65/M12 connectivity



Hirschmann BAT-WLC Controller

The BAT-Controller WLC provides centralized management of a large number of WLAN clients and access points, with up to a thousand access points per controller.

- Management from 25 to 1000 access points and clients
- Integrated IP router with firewall and VPN support
- Fast roaming possible across a number of subnetworks

Management, Secure Remote Access & Software



Hirschmann Industrial HiVision Network Management Software

Industrial HiVision is designed to meet the needs for maximum network visibility. It saves you time, reduces errors and provides a snapshot of network health so you can easily increase availability and enhance security.

- MultiConfig configures hundreds of devices from any manufacturer simultaneously
- Alerts are generated when unauthorized changes are made, rogue devices are added or MAC/IP address pairs change
- User roles control access to the network by granting different levels of access rights
- HiProvision - MPLS-TP Provisioning Software



Hi-SCOM Managed Full Gigabit POE/POE+ Switch



Hi-SCOM BN44/48 Series

- The BN44/BN48 Series industrial full Gigabit managed 6/10 ports Ethernet switch with up to 4/8 10/100/1000Mbps PoE (IEEE 802.3af/at) ports, and 2 1000Mbps SFP ports, 4Mbits memory, and supports static Layer 3 routing
- The BN44/BN48 Series switches can provide power and data directly through Ethernet cable, ideal for CCTV, ITS and building automation related applications



Hi-SCOM BN3049 Series

The BN3049 Series industrial full Gigabit managed 26/port Ethernet switch with up to 24 10/100/1000Mbps PoE (IEEE 802.3af/at) ports (including 4 shared SFP ports) and 2 1000Mbps SFP ports, 4Mbits memory, and supports static Layer 3 routing.

- With a total switch fabric of 58Gbps, the BN3049 can handle large amounts of data linking to an industrial backbone or high-capacity servers, and has capability of providing wire-speed throughput in the temperature range from -25 to 65 degree Celsius without any packet loss and CRC error
- It greatly simplifies the tasks of upgrading the industrial network for catering to increasing bandwidth demands



Hirschmann EAGLE One Security Router

Extensive Layer 2 and Layer 3 redundancy features, combined with other highlights such as NAT and firewall, not only guarantee maximum data security but also make it easy to integrate your production facilities into the network.

- DIN rail mounted, fanless design
- 2 ports in total, Ports Fast Ethernet: 2 x 10/100 Mbit/s
- Firewall rules (incoming/outgoing, management), DoS prevention, MAC filter, user firewall for external activation of FW rules



Hirschmann EAGLE20/30

Multi-port Firewalls offer absolute flexibility for physical deployment combined with state-of-the-art security functionality tailored to the unique requirements of industrial Ethernet networks.

- Advanced Security Features and built-in HiSecOS software eliminate the need for multiple routers and protect your production cell
- Comes with up to 8 ports, including 2 x Gigabit, 4 x Fast Ethernet and more
- Defense in Depth at Layer 3 by combining Filtering and Deep Packet Inspection
- NAT (Network Address Translation)



Tripwire Enterprise (with Tripwire Data Collector)

Tripwire® Enterprise is a security configuration management (SCM) suite that provides fully integrated solutions for policy, file integrity and remediation management. Tripwire® Data Collector, which is an extension of Tripwire® Enterprise, provides an innovative approach for industrial organizations to assess configurations, security and status in their environments – a simplified and cost-effective solution for maintaining system hardening and continual proof of compliance for standards like IEC 62443

- Increased network visibility
- Web Retriever configuration scanning
- Communication with industrial protocols
- No-touch integration with third-party software

Industrial Cyber Security Solutions

Industrial Security & Firewall



Tofino Xenon Security Appliance

The Tofino Xenon Industrial Security Appliance is a Layer 2 Industrial Firewall purpose-built to protect ICS/SCADA against cyber threats. The device now offers two deep packet inspection Loadable Security Modules (LSM) for DNP3 and IEC 104 (IEC-60870-5-104). Other LSMs include industrial protocols such as EtherNet/IP, Modbus TCP and OPC.

- Permits read-only and read/write access for Modbus TCP data
- Blocks any traffic that does not conform to the protocol specification
- Permits device restarts only from the shift operations manager's terminal



Tripwire Log Center

Tripwire® Log Center® provides secure, reliable centralized log collection, analysis and delivery. Tripwire Log Center integrates with your existing infrastructure and includes a large library of available correlation rules, empowering your team to monitor, detect and quickly respond to threats in your environment.

- Centralized Forensics Data
- Enabling Local Expertise
- Efficient Analytics
- Cost Effective Compliance



Tripwire IP360

You have more to protect, fewer resources with which to do it, and more alerts than you can handle. Tripwire® IP360™ is an enterprise-class vulnerability management solution that enables cost-effective reduction of cyber threat risk by focusing your remediation efforts on the highest risks and most critical assets.

Belden Electronic Wire & Cable



With an unmatched ability to ensure system uptime, Belden's "Classics" electronic, audio, control and instrumentation cables have been specified for rugged industrial jobs for decades. These cables meet the technical requirements of many different types of systems with proven reliability and performance that is best-in-class. Backed by a 10-year, no-cost warranty, these hardy essentials will outlast alternatives even in the most demanding environments.

- Available in wide variety of gauge sizes, insulation materials, shielding configurations and jacketing materials
- Multi-cores/pairs construction with unsurpassed quality and reliability
- Robust designs which meets or exceed UL standards
- Proven performance and installation worldwide with over 40 years in the industry
- RS-232, RS-422/423, & RS-485
- Control & Instrumentation
- Fire Alarm/Security
- Power Supply
- Audio
- Computer/P.O.S.

Industrial Cable Solutions

Belden Fire Resistant Cable



Belden's fire survival & circuit integrity cables ensures continuous operation of emergency circuits, lowest smoke and zero emission of toxic gases in critical & hazardous applications.

- Manufactured with a hybrid mica glass tape, highly engineered insulation materials and LSZH sheath
- Fire resistance with a high performance which can meet IEC60331, GB19666, BS6387, EN50200 etc
- Voltage optional 90V 300V 500V and 1kV
- Cores and Pairs, Triple or Quad optional

Belden Control & Instrumentation Cable



Belden control and instrumentation cables provide the backbone for industrial environments, delivering signal and power from controllers to devices. Reliability – even in the harshest of environments – is the hallmark of Belden C&I cable products.

- Full range of conductor sizes in metric and AWG
- Choice of various insulation material to ensure key electrical performance and jacketing material to meet rigorous installation
- Cable designed by IEC, EN, UL, AS/NZS standards
- Voltage optional 90V 300V 500V and 1kV
- Cores and Pairs, Triple or Quad optional
- High performance of Impedance and Capacity
- Used in computer and PLC systems
- Also suitable for deployment outdoor with sunlight and oil resistance

Belden Industrial Ethernet Cable



The comprehensive Industrial Ethernet cable range ensures the highest level of reliability, quality and performance.

- Covering current and future-proof applications such as PoE to PoE++, 2.5 and 10 Gbit/s
- Designed and built for harsh and mission-critical environments
- End-to-end solution offering complete suitability and meeting local expertise



Belden Data & Protocol Cable



With the broadest Data Bus portfolio in the industry, Belden is sure to have a solution for your application. These cables are tested and proven to work in extreme temperatures and demonstrate resistance to oil.

- All protocol used such as FOUNDATION Fieldbus, PROFIBUS DP and PA, ControlNet, DeviceNet, Industrial RS-485, Modbus, CANopen, Canbus, Profinet etc
- Different impedance requirement
- Fire resistant and Flame retardant optional
- Armoring optional
- Low smoke and halogen-free optional

Belden VFD Cable



As the original developer of high quality VFD cable, Belden provides superior electrical performance and reliability, for industrial environments and applications as conveyor systems and driverless transport systems.

- High-strand tinned copper circuit conductors
- High Flex variant TPE jacket rated for 10 million cycles
- Robust ground and shielding system protects equipment from disruption

Belden MachFlex Cable



Be confident in your mission-critical application installations of flexible and flexing cables. Across the entire range of MachFlex™ cables, you can decrease the total cost of ownership of your machine or device through reduced cable maintenance cost and improved uptime by specifying reliable cabling infrastructure.

In addition, you can solve the space-saving puzzle by utilizing flexible cables designed for tight spaces while maintaining the physical and mechanical requirements needed for rigorous motion.

- Various conductor sizes from 0.14mm² to 35.00mm²
- Bare or tinned copper conductors (DIN VDE 0295)
- PVC or LSZH insulation & jacket / sheath
- Optional ground wire in green / yellow color
- Optional foil & braid shield
- Optional tinned copper braid (CY)
- Optional steel wire braid (SY)
- Voltage (Uo/U) = 300/500V
- Variety of insulation & jacket color options
- Coils or drum packaging

Belden Fiber Optical Cable



Belden's loose tube cables are ideal for both outdoor & indoor/outdoor applications, including use in conduit, direct burial, lashed aerial, trucking. Their designs utilize 250µm fibers in both central & multi loose tube constructions ranging in fiber counts from 2 to 288.

- Indoor use or outdoor use
- Single module and Multi-module are available
- Armored are optional
- Fire resistance are optional
- Low smoke and halogen-free are available
- Oil and UV-resistant outer jacket
- Offers a projected lifetime > 30 years

Industrial Connectivity Solutions



Lumberg Automation Connectivity

Hirschmann and Lumberg Automation brands are synonymous with high quality connectors and innovative wiring solutions for use in virtually all areas of automation, which comprises a wide range of connectors, single and double-ended cordsets, for signal transmission to and from sensors and actuators, data communication as well as I/O modules for connection to fieldbus and Ethernet networks. Key benefits for customers include high mechanical and electrical loading capacity, excellent chemical resistance and ease of use

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