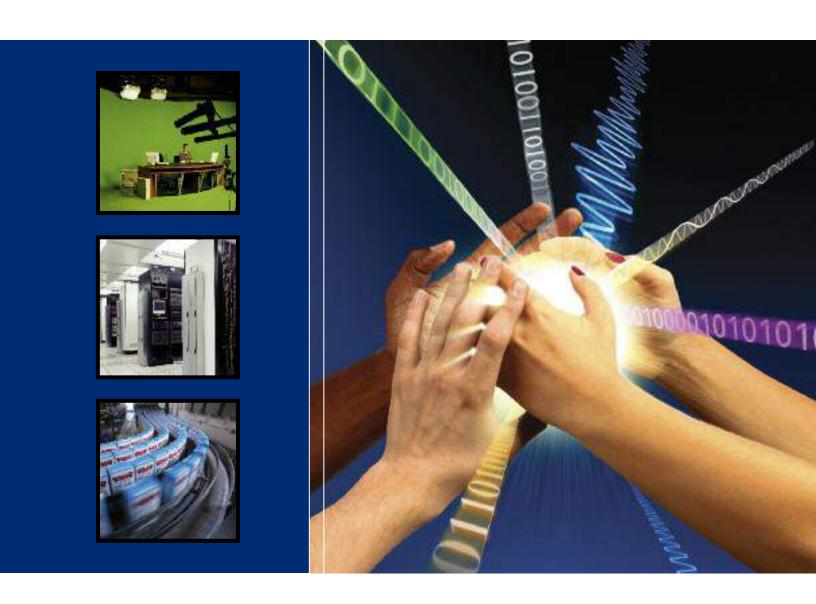


Signal Transmission Solutions



Applying Our Expertise and Solutions to Your Applications



Introducing the NEW Belden...

Sending All The Right Signals™ for Your Transmission Needs

Belden has been an industry leader in providing reliable cabling products for over a century. More recently, our direction has allowed us to add new product lines, technologies, resources, and the many combinations of these, to create specific signal transmission solutions for our customers. To illustrate this point, we have created this guide to Belden capabilities as a demonstration of the breadth of resources we have today to meet the needs of your specific applications. Belden, as an expert in signal transmission technology, has more to offer than anyone else.













Cable Copper and Optical Fiber

Connectivity Copper and Optical Fiber

Enclosures And Racks

Cable Management

Wireless Solutions

Active Networking Devices

The Belden brand is built on four pillars -

- 1- We identify customer needs.
- **2** We innovate technology solutions to meet those needs.
- **3** We draw from a very broad product resource set to identify the various products or systems for your individual application.
- **4** We provide you with local product access and support through our global networks.

This is our Solutions Process, a never-ending cycle of bringing more resources and innovation to provide reliable solutions for our customers.

More Products,
More Technologies,
More Systems...
More Belden Solutions
Than Ever.



Constant Innovation -

We're continually evolving with stateof-the-art optical fiber, copper and wireless solutions to provide the best

signal transmission performance. Our core cabling solutions have been extended to include products such as mission-critical switches, enclosures, racks, cable management and more. Belden's history of innovation continues at a stronger-than-ever pace.



Broad Product Resources -

Belden has a broader and deeper selection of signal transmission products than any other company. Our



sales, distribution and installation teams are ready to provide you with an unprecedented array of products for your facility or project. Collectively, they represent hundreds of thousands of possible combinations, ensuring we can deliver that one "right signal solution" for you.

RESOURCES

Global Availability -

Belden's global manufacturing footprint, distribution centers, networks and strong logistics combine with our worldwide sales

and customer service teams, and our vast dealer and installation resources, to provide the availability and service you need around the world. This local access to Belden products and support anywhere in the world is unequalled by any other company.



Solutions for **Our Customers -**

Belden®

SOLUTIONS

Customer-Centric Design® is more than product development. Our focus on customer needs involves ongoing



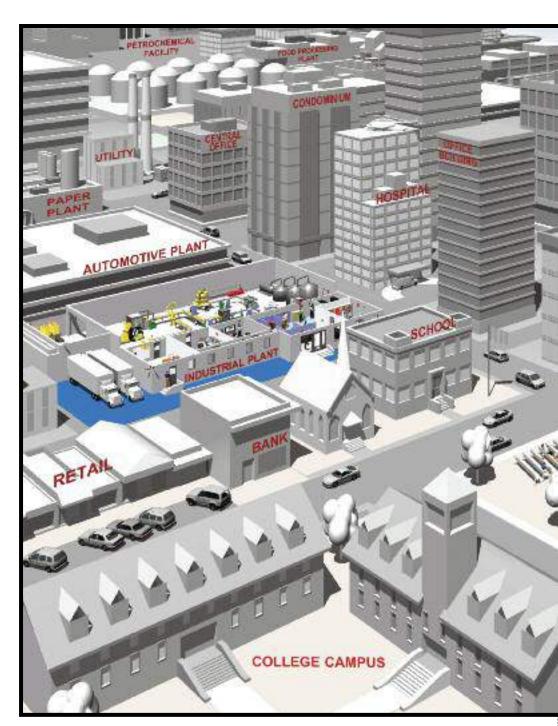
discussions, identifying customers' product or technology needs, staying at the top of our craft and providing continuous support throughout the product life cycle. As a result, innovation at Belden never rests and service is our priority.



Belden-

Meeting the Signal Transmission Needs of Industry, Commerce, Education, Healthcare and Entertainment Everywhere

With thousands of products available, Belden is uniquely positioned to meet your signal transmission needs. If we don't have what your application requires, we'll design it with you!







Providing Expert Signal Transmission Technology

Looking at this cityscape, you'll see a sea of buildings whose inhabitants have a wide range of signal transmission needs. To answer these needs, Belden offers thousands of signal transmission products — and the desire and ability to provide whatever solutions you need.

Belden's unique expertise falls within the broadcast, building networks, security, industrial and residential arenas — which extend to a whole host of markets, such as:

- Office complexes/buildings
- Universities/college campuses/schools
- Data centers
- Utilities
- Sports stadiums
- Financial institutions
- Retail outlets
- Power generation plants
- Hospitals/medical facilities
- Correctional facilities
- TV and radio broadcast studios
- Casinos
- Petrochemical facilities
- Processing plants
- Houses of worship
- Pulp and paper plants
- Government
- Audio/Video post-production facilities
- High tech industries
- Cruise ships
- Automotive plants
- Entertainment venues

To give you an idea of the range and depth of solutions Belden can provide, the following pages overview three sites: an office building, a broadcast studio and an industrial plant.



Belden Solutions for the Commercial Enterprise

Including Office Buildings and Institutional Facilities

Application **Belden Products Broadband Tower** RF cables, cable ties **Auditorium** HD video cables, audio and speaker cables, automated lighting, window and climate control cables, networking cables and connectivity, workstation outlets and faceplates, wireless mobility points, fire alarm cables, cable ties Video cables, networking cables and connectivity, Lounge workstation outlets and faceplates, wireless mobility points, audio speaker cables, fire alarm cables, cable ties A/V Conference HD video cables, audio and speaker cables, automated Room lighting, window and climate control cables networking cables and connectivity, workstation outlets and faceplates, wireless mobility points, cable ties **Data Center** Full range of copper and optical fiber structured cabling systems, enclosures

Full range of copper and optical fiber structured cabling systems, enclosures and racks, patch cord/ cable management units, power distribution units, climate monitors, adaptive enclosure heat containment systems, wireless mobility exchanges, alarm and climate control cables, cable ties

Building Entrance/ Lobby

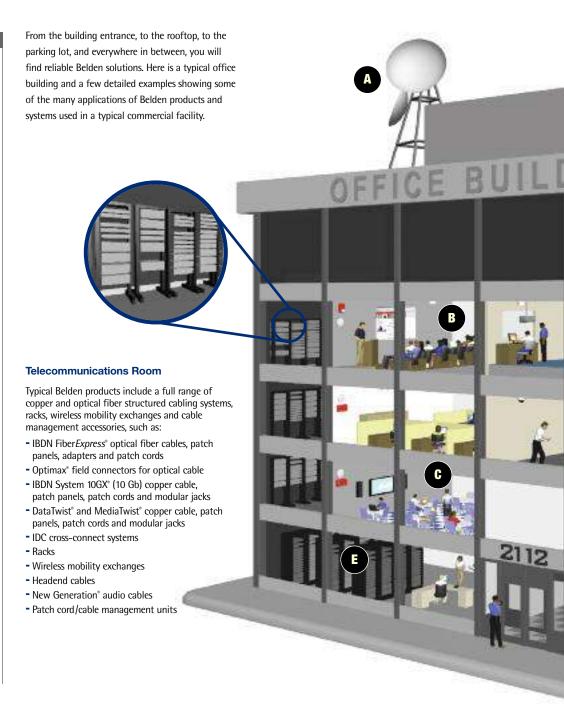
Access control cables, Pan/Tillt/Zoom CCTV camera cables, networking cables and connectivity, workstation outlets and faceplates, fire alarm cables

G Coffee Shop

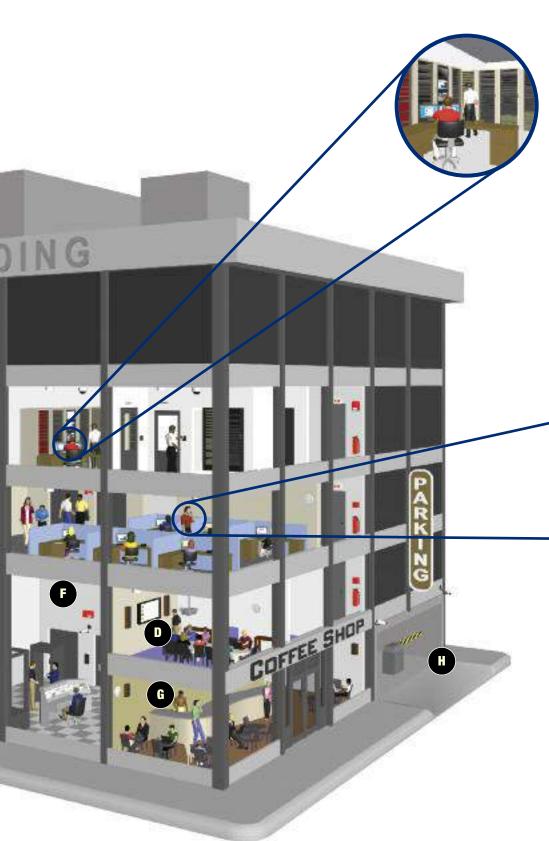
Wireless mobility points, audio/video cables, fire alarm cables, cable ties

H Parking Garage

Access control cables, CCTV camera cables, fire alarm cables, cable ties







Control Room

Belden products used in this application include access control, security and alarm cables, CCTV camera cables, cables for Emergency Voice/Alarm Communications (EVAC) systems, cabinets and enclosures, wireless mobility exchanges, Heating, Ventilating and Air Conditioning (HVAC) system cables and cable ties, including products such as:

- Secured/Keyed LC optical fiber connector system
- IBDN Fiber Express optical fiber cables, patch panels, adapters and patch cords
- IBDN System 10 GX (10Gb) copper cables, patch panels, patch cords and modular jacks
- DataTwist and MediaTwist copper cables, patch panels, patch cords and modular jacks
- Workstation outlets and faceplates
- Banana Peel® access control cables
- New Generation CCTV camera cables
- Safe-T-Line® cables for EVAC systems
- Enclosures and NEMA cabinets
- New Generation HVAC system cables
- New Generation fire alarm cables
- Cable ties



Office Areas

Belden office solutions include copper and optical fiber cables and connectivity, wireless mobility points, fire alarm cables, climate control cables, Pan/Tilt/Zoom CCTV camera cables, sound (paging) cables, surface raceway systems and cable ties or, more specifically, products such as:

- IBDN System 10GX (10 Gb) copper cables and modular jacks
- DataTwist and MediaTwist copper cables and modular jacks
- Workstation outlets and faceplates
- Wireless mobility points
- Pan/Tilt/Zoom CCTV camera cables
- New Generation fire alarm cables
- Safe-T-Line cables for EVAC systems
- New Generation HVAC control cables
- New Generation audio cables
- Surface raceway systems
- Cable ties



Belden Solutions for the Broadcast Studio

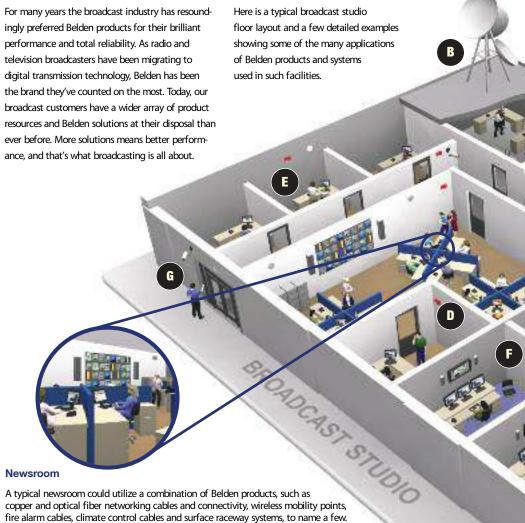
Including Network, Pre- and Post-production Facilities and Venues

Application **Belden Products Automation Room** Audio/video cables. satellite uplink cables, headend cables, fire alarm cables, wireless mobility points, networking cables and connectivity, cable ties TV Broadcast/ Satellite uplink/ Broadband downlink cables, **Transmission** RF cables Tower HD-SDI coaxial cables, **Master Control** AES/EBU audio cables, audio/video cable assemblies, networking cables and connectivity, speaker cables, fire alarm cables, wireless mobility points, cable ties Newsroom Networking cables Manager and connectivity, wireless mobility points Office Area Networking cables and connectivity, wireless mobility points, fire alarm cables, speaker cables, cable ties **Editing Bays** HDTV coaxial cables, audio cables, networking cables and connectivity, wireless mobility points, **Building Entrance** Access control cables, lighting control cables, CCTV camera cables **Broadcast Truck** HD-SDI coaxial cables, AES/EBU audio cables, audio/video composite cables, Electronic News Gathering (ENG) cables, Electronic Field Production (EFP) cables, copper and optical fiber

networking cables

and connectivity,

tactical fiber optic cables, cable ties

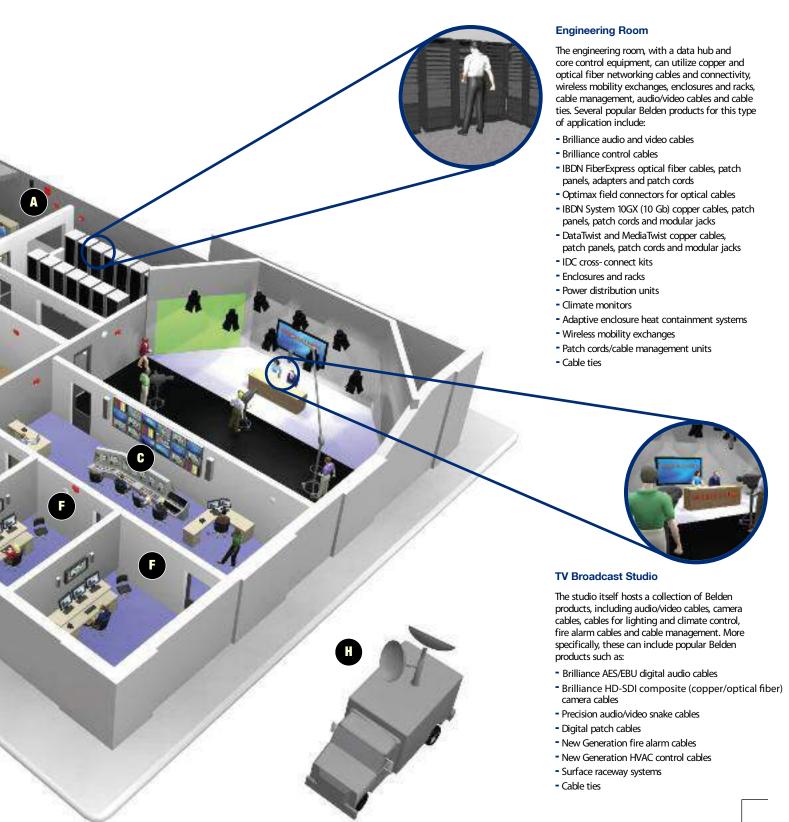


Newsroom

A typical newsroom could utilize a combination of Belden products, such as copper and optical fiber networking cables and connectivity, wireless mobility points, fire alarm cables, climate control cables and surface raceway systems, to name a few. Specific products could include:

- Brilliance[®] audio/video cables
- IBDN System 10GX (10 Gb) copper cables and modular jacks
- DataTwist and MediaTwist copper cables and modular jacks
- Workstation outlets and faceplates
- Wireless mobility points
- New Generation fire alarm cables
- New Generation HVAC control cables
- Surface raceway systems
- Cable ties







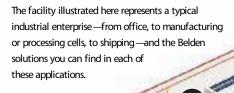
Belden Solutions for the Industrial Enterprise

Including Manufacturing and Processing Plants, Utilities and Other Harsh Environment Facilities

Belden Products Application Warehouse CCTV camera cables, access control cables, fire alarm cables, networking cables and connectivity, cable ties Manufacturing Networking cables Supervision and connectivity, Office wireless mobility points, cable ties **A/V Conference** Audio/video cables. HD-SDI video cables, speaker cables, CCTV camera cables, networking cables and connectivity, automated lighting, window and climate control cables, workstation outlets and faceplates, wireless mobility points, fire alarm cables, cable ties Office Area Networking cables and connectivity, wireless mobility points, fire alarm cables climate control cables, workstation outlets and faceplates, surface raceway systems, cable ties Lunchroom Networking cables and connectivity, video cables, speaker cables, fire alarm cables, EVAC system cables,

wireless mobility points

Belden has developed the most comprehensive line of industrial cabling solutions in the world today. Whether you are networking your factory floor and/or your process equipment and devices to their controllers and on to the control room, or relaying data between the control room, the engineering department, various office sites or remote manufacturing locations—or operating variable frequency motor drives, continuous motion equipment and other process equipment —Belden has the cabling solution you need. Since productivity depends on seamless data communications, you can rely on Belden to maximize your uptime —dependably and continuously—no matter how tough your environment might be.





Data Center

Belden's Industrial Data Solutions* network cables integrate with the data hub by incorporating a number of other Belden products, such as copper and optical fiber networking connectivity, wireless mobility exchanges, enclosures and racks, cable management, audio/video cables and cable ties. Specifically, these can include:

- TrayOptic* optical fiber backbone cables
- IBDN FiberExpress optical fiber cables, patch panels, adapters and patch cords
- Optimax field connectors for optical cables
- IBDN System 10GX (10 Gb) copper cables, patch panels, patch cords and modular jacks
- DataTwist and MediaTwist copper cables, patch panels, patch cords and modular jacks
- Enclosures and racks
- Power distribution units
- Climate monitors
- Adaptive enclosure heat containment systems
- New Generation audio cables
- Wireless mobility exchanges
- Patch cords/cable management units
- Cable ties





Security Office

Belden can outfit all cabling solutions for security applications, including CCTV camera cables, fire alarm and access control cables, and cables for EVAC systems. In addition, Belden supplies audio/video cables, climate control cables, copper networking cables and connectivity, wireless LANs, enclosures and cable management. Specific products can include:

- IBDN System 10GX (10 Gb) copper cables and modular jacks
- Workstation outlets and faceplates
- Wireless mobility points
- New Generation Pan/Tilt/Zoom CCTV camera cables
- New Generation fire alarm cables
- New Generation HVAC control cables
- New Generation audio cables
- Surface raceway systems
- Cable ties



Manufacturing/Process Area

Belden solutions can include Industrial Data Solutions supporting Industrial Ethernet and Bus networks, as well as Interconnect and EIA-485 applications, instrumentation and control cables, armored cables, flexible automation cables, Pan/Tilt/Zoom CCTV camera cables, fire alarm cables, sound (paging) cables, switches and more. Popular products can include the following:

- DataTuff, DataBus, DeviceBus, ControlBus and other industrial data cables for any industrial network application
- TrayOptic fiber cables, designed for harsh environments
- Industrial or commercial optical fiber cables for backbone applications
- Blue Hose® twinax cables for PLC/DCS signals
- Variable Frequency Drive (VFD) cables
- Belden Infinity® flexible automation cables for robotics and continuous motion systems

- 300V Power Limited Tray Cable PLTC/ITC, 600V Tray Cable (TC), and thermocouple cable products
- New Generation Pan/Tilt/Zoom CCTV cables
- New Generation fire alarm cables
- New Generation audio cables
- Cable ties
- MACH backbone switches
- LION control room switches
- MICE modular managed switches
- OpenRail compact switches
- OCTOPUS IP67 switches
- RS and Spider Series of unmanaged field level switches
- EAGLE firewall and VPN appliance
- BAT wireless LAN access points/clients
- HiVision and Industrial HiVision network management software



GLOBAL LOCATIONS

Customer Service: 800-BELDEN-1 (800-235-3361)

See www.belden.com for a complete listing of Belden locations.



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