

Introduction



Tough Cables that Keep Performing.

High performance cabling solutions have changed the face of modern production facilities, manufacturing processes and the industrial infrastructure. Today, industry depends on reliability and demands long life, superb performance, often in the toughest of environments – in practice, that means peace of mind to get on with the job.

Key applications

- Programmable logic controllers
- Human machine interfaces
- Remote I/O
- 4-20 mA systems (PLTC & TC instrumentation)

IndustrialTuff™

This is the world's most comprehensive line of industrial cabling solutions – whether for networking factory floor equipment, hardware and controllers or relay-ing data between the control room, the engineering department and remote manu-facturing sites or a combination of all the above. Belden industrial cables are de-signed to provide reliable communication between corporate headquarters and the plant, management and employees and everywhere in between.

Industrial Solutions

• Industrial Ethernet: Networking Cables with Installable Performance™

The reliability of an industrial ethernet network fully depends on the cable in-frastructure. Transmission errors can result in lost production time – and even downtime or safety issues. Belden understands the critical nature and demands of each industry and has designed its industrial ethernet cables to provide top performance for different, often very demanding, industrial applications.

Belden's patented bonded-pair cable constructions are included in the range of industrial ethernet products. Bonded-pair technology means installable perfor-mance – where cables are designed to withstand the pulling, bending, kinking, coiling and crushing that routinely takes place during installation.

• Industrial Data Solutions®

Belden's full range of Industrial Data Solutions® includes cables for all types of bus applications such as Profibus, Fieldbus, DeviceNet™, ControlNet™, InterBus-S®.

Belden practically invented Blue Hose® twinax cables from the original IBM speci-fication; today these are the dominant call-out for PLC and DCS applications.

ControlBus quad shielded coax cables are for ControlNet™ applications – all Belden industrial coax cables provide the dependability for long-lasting perfor-mance. Also available is a full range of cables for Profibus and Fieldbus applica-tions, as well as DeviceBus cables for ODVA DeviceNet™ systems.

In addition, Belden offers a wide range of Variable Frequency Drive (VFD) cables, Control and Instrumentation cables and the Infinity® line of flexible automation cables.

• Diverse Manufacturing Facilities

Belden cables can have many different characteristics to meet the requirements of different industrial cabling applications. The cables are resistant to:

- Effects of temperature
- UV sunlight
- Oils
- Gasoline
- Other chemical solvents

• Belden Infinity® Flexible Automation Cable

Belden Infinity is used when the application requires highly flexible cables offer-ing exceptional life and performance.

- Reduced Cable Memory

Belden Infinity's unique design and neutralized cabling, results in cables that are relaxed, with almost no memory.

- Greater Flex Life

Belden Infinity cables offer superior flexibility and are able to handle the vigorous motions and high speeds encountered in automated equipment.

- Greater System Uptime

Belden Infinity cables combine specialized manufacturing techniques with precision copper stranding and rugged insulation and jacketing compounds to maximize flex life and reliability.

- No Talc Problems

Unlike the potentially harmful talc used in other cables, Belden's non-toxic, non-irritating slipper compound facilitates flexing and also complies with OSHA regulations. It's safer for employees and operators and is less likely to contaminate solder joints or mechanical compounds.

- CE Conformity

All Belden Infinity cables are CE marked per the Conformité Européenne low voltage directive, allowing trade of product in Europe.

- Custom Designs

Other designs available upon request.

• Armoring Capabilities

Belden offers both steel wire armor and interlocking (steel or aluminum) armor for extra protection against crushing and abrasion. Other solutions can be tai-lored to particular requirements.

To Specify Part Number:

1	2	3456
Overall Jacket Type	Armor Type	Core Trade Number

Overall Jacket Type

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest®

Armor Type

Code	Material
2	Aluminum Interlock
3	Steel Interlock
8	Continuous Corrugated Aluminum

Availability

Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find an Industrial cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Product Bulletins

CB001: Belden's instrumentation & control capabilities

NP158: Blue Hose® cables