

Industrial Data Solutions® — Industrial Ethernet

DataTuff® and MediaTuff® Twisted Pair and TrayOptic® Fiber Optic Cables — Overview

The reliability of your industrial Ethernet network depends on the cable infrastructure. Data transmission errors can lead to interruptions in critical control functions resulting in lost production time and even safety issues. Belden's family of industrial Ethernet cables is designed to withstand the rigors of industrial environments. Whether it's exposure to oil and sunlight, temperature variation, abrasion and crushing, or the presence of electromagnetic interference (EMI) or radio frequency interference (RFI), turn to Belden for the solution

Belden offers an extensive line of high performance cables in both copper constructions with DataTuff cables as well as fiber optic designs with TrayOptic cables.

Performance Assurance from Blue Hose® to Industrial Ethernet

To assist you in achieving optimum network performance, Belden has built quality and reliability into each cable it manufactures. Decades of leadership and experience in supplying reliable high-end cable solutions, such as Blue Hose, to industrial networks and control systems are combined to give you industrial Ethernet cables that perform to maximum network capability.

Our dedication to quality manufacturing practices and processes assures consistent products of uncompromising quality.

Installable Performance™ with Patented Bonded-Pair Technology

Belden's Bonded-Pair versions of DataTuff cables are unique in the industry to give you an Installable Performance advantage. This patented design yields superior electrical performance even after the

effects and stresses of pulling, twisting and bending during typical installations. This performance advantage is achieved by bonding the individual insulated conductors along their longitudinal axes, resulting in uniform conductor-to-conductor spacing and the elimination of gaps between conductors that can occur during installation. This is a critical construction feature because non-uniform conductor spacing and gaps change the physical characteristics of the cable such that the electrical performance of the cable suffers. Only Bonded-Pair cables deliver the electrical integrity you demand.

TrayOptic Cables

Belden® TrayOptic cables are a line of indoor/outdoor fiber optic cables designed to meet the demanding requirements of industrial applications. When the installation demands the combination of sophisticated fiber optic technology and rugged durability, turn to Belden.

Cables for Industrial Ethernet (IEEE 802.3 and TIA/EIA-568-B)

Part No.	Jacket Material	No. of Fibers
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Fiber (62.5/125/245 Micron)
Multimode • PVC or CPE Jackets

Riser (NEC/CEC OFNR FT4)		
I100255	PVC	2
I100266	CPE	2
I100455	PVC	4
I100466	CPE	4
I100655	PVC	6
I100666	CPE	6
I400855	PVC	8
I400866	CPE	8
I601055	PVC	10
I601255	PVC	12
I601266	CPE	12

Tray (NEC/CEC OFN FT1)		
I601855	PVC	18
I601866	CPE	18
I602455	PVC	24
I602466	CPE	24

50 Micron and Single-mode fiber available upon request.

Part No.	Description	Shielding	Jacket
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Copper • Twisted Pairs • Heavy-duty Sunlight and Oil-resistant Jackets

Category 5e			
7923A	Bonded-Pairs	Unshielded	
7929A	Bonded-Pairs	Foil	
7921A	Bonded-Pairs	Foil + Braid	
11700A	Bonded-Pairs	Unshielded	Upjacketed
121700A	Bonded-Pairs	Unshielded	Armored
7924A	Bonded-Pairs	Unshielded	Flexible
7928A	Bonded-Pairs	Unshielded	Hi & Low Temp, Oil Res II, Gas Res
7918A	Unbonded	Unshielded	
7919A	Unbonded	Foil	
Category 6			
11872A	Bonded-Pairs	Unshielded	Upjacketed
121872A	Bonded-Pairs	Unshielded	Armored

