Industrial Data Solutions® — Industrial Ethernet

DataTuff® 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.

DataTuff® Industrial Ethernet Cable Selection Guide

	Part No.	No. of Pairs	Shielding		Conductor		Installation		Environmental Issues						Industrial Grade Jacket		
			Unshielded	Shielded *	Solid	Stranded	Installation Stress Resistance [†]	Pull Tension	Oil Resistance	UV Sunlight Resistance	CMX/ Outdoor	Under- ground (burial)	Gasoline Resistance	Hi/Lo Temp	Heavy	Upjacket	Armored
	Cate	gory	5e Cabl	le													
	7932A Ether	2	•		•		•	20	•	•					•		
new	7933A Ether	2		•	•		•	20	•	•					•		
	7923A Ether	4	•		•		•	40	•	•	•				•		
	7918A	4	•		•			35	•	•	•				•		
	7924A	4	•			•	•	40	•	•	•				•		
new	7930A	4	•			•		25	•	•	•				•		
new	7922A PLTC	4	•		•		•	40	•	•	•				•		
	7934A Ether@@(/IP	4	•		•		•	40		•		•			•		
	7928A Ether@@t/IP	4	•		•		•	40	•	•			•	•	•		
	11700A Ether@@t/IP	4	•		•		•	40	•	•	•					•	
	11700A2 Oil Res 18		•		•		•	40	•	•						•	
	121700A	4	•		•		•	40	•	•							•
new	121700R	4	•		•		•	40	•	•							•
	7929A	4		•	•		•	35	•	•	•				•		
	7919A	4		•	•			25	•	•	•				•		
	7921A Ether@@/IP	4		•	•		•	75	•	•	•				•		
	Cate	gory	6 Cable														
	7927A	4	•		•		•	45	•	•					•		
	7931A	4	•		•		•	40	•	•			•	•	•		
	11872A	4	•				•	45								•	
	121872A	4	•		•		•	45	•	•							•

*Shielded products are recommended for high-noise environments. **Stranded products are recommended where more flexibility is needed.
'Products with Bonded-Pair technology provide Installable Performance® advantages — refer to Belden's Bonded-Pair Cable Bulletin #BP02

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For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com