

## Industrial Ethernet DataTuff® Copper Cables

Item Number	Description	Pairs/ Shielding	Features
<b>DataTuff® Cables, Category 5e</b>			
7923A	#24 AWG, Solid BC Conductors, Bonded Pairs, Polyolefin Insulation, PVC Outer Jacket, Unshielded	4-Pair UTP	CMX- Outdoor, MSHA
7958A	#24 AWG Solid BC Conductors, Bonded Pairs, Beldfoil Shield, PVC Outer Jacket,	4-Pair STP	CMX- Outdoor, MSHA, 600V AWM Rated
<b>DataTuff® Cables, Category 6</b>			
7940A	#23 AWG Solid BC Conductors, Bonded Pairs, Polyolefin Insulation, PVC Outer Jacket, Unshielded	4-Pair UTP	CMX- Outdoor
7953A	#23 AWG Solid BC Conductors, Bonded Pairs, Beldfoil Shield, Polyolefin Insulation, FRPO Inner Jacket, PVC Outer Jacket	4-Pair STP	CMX- Outdoor, 600V AWM Rated
7931A	#23 AWG Solid BC Conductors, Bonded Pairs, Plenum, FEP Insulation and Outer Jacket, Unshielded	4-Pair UTP	Gasoline Resistant, High- and low-temperature



Belden DataTuff® products are designed with heavy wall, industrial grade jackets that are resistant to oil, chemicals, rough handling, abrasion, UV, and temperature variations.

Additionally, Belden DataTuff® cables & cord sets are designed and built using patented bonded pair technology, providing the most robust electrical performance available in the market. Shielded versions of Belden's DataTuff® cable provide exceptional noise immunity in the presence of EMI and RFI Interference.

## DataTuff® Copper Cord Sets

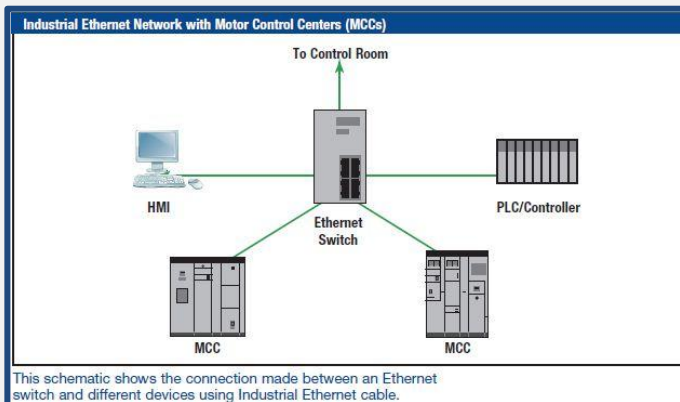


Belden's DataTuff® connectivity products are built specifically for use in mission-critical and harsh environments.

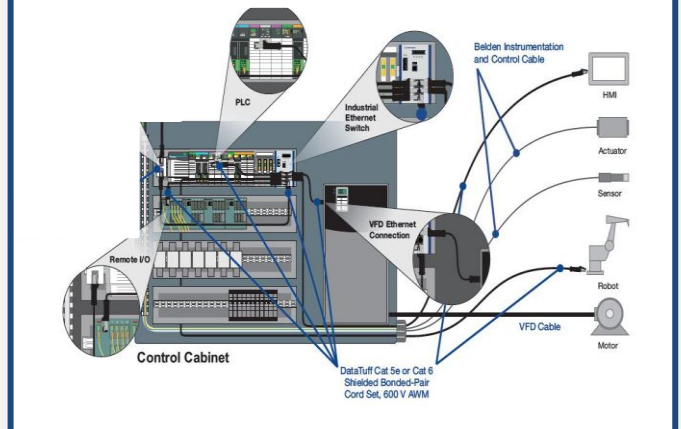
Non-sealed IP20-rated cord sets are designed for use inside protected enclosures, control rooms, etc., but may be subjected to harsh conditions such as extreme temperatures, EMI/RFI and vibration.

Item Number	Description	Length	Features
<b>Category 5e</b>			
E501002	RJ45 Unshielded solid conductor	2 meter	IP20
E503002	RJ45 Unshielded stranded conductor	2 meter	IP20
E505002	RJ45 Shielded solid conductor	2 meter	IP20
E507002	RJ45 Shielded stranded conductor	2 meter	IP20
<b>Category 6</b>			
E601002	RJ45 Unshielded solid conductor	2 meter	IP20
E605002	RJ45 Shielded solid conductor	2 meter	IP20
<b>Category 6a Connector</b>			
R301602	RJ45 field installable metal body plug.		Fits all Belden DataTuff® Industrial Ethernet cables and is compatible with Cat 5e, Cat 6, and Cat 6a cables both shielded and unshielded

## Standard Applications



## Industrial Ethernet Network Applications



## Vertical Markets

- Power Generation
- Food & Beverage
- Automotive
- Pharmaceutical
- Oil/Gas
- Transportation



## Variable Frequency Drive Cables (VFD)

Belden's Variable Frequency Drive (VFD) cables offer solutions to the four common challenges related to VFD systems:

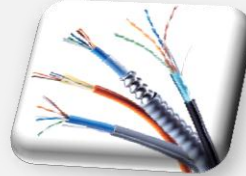
- Common mode current
- Cable charging and capacitive coupling
- Reflected wave voltage
- Installation safety and reliability



Only Belden's VFD cable series of 1000V UL flexible motor supply cables in gauge sizes from 16-4/0 provide the robust construction required to deliver superior performance and reliability, even in the most demanding industrial environments.

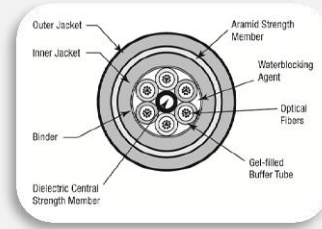
Item Number	Description	Stranding
(3) Stranded Tinned Copper Conductors with (1) Full-sized Insulated Ground Wire, Overall Duofoil +85% TC Braid Shield, XLP Insulation, PVC Jacket, MSHA Approval		
29500	#16 AWG	26 X 30
29501	#14 AWG	41 X 30
29502	#12 AWG	65 X 30
29503	#10 AWG	105 x 30
29504	#8 AWG	7 x 19 x 29
29505	#6 AWG	7 x 19 x 27
29506	#4 AWG	7 x 19 x 25
29507	#2 AWG	7 x 19 x 23
(3) Stranded Tinned Copper Circuit Conductors with (3) Symmetrical Bare Copper Ground Wires, (2) Spiral Copper Tape Shields (100% coverage), XLP Insulation, PVC Jacket, MSHA Approval		
29528	#1 AWG	7 x 19 x 22
29529	#1/0 AWG	7 x 19 x 21
29530	#2/0 AWG	7 x 19 x 20
29531	#3/0 AWG	19 x 7 x 19
29532	#4/0 AWG	19 x 7 x 18

## TrayOptic® Fiber Optic Cables



All TrayOptic® products utilize Laser Certified Fiber to handle Gigabit Ethernet light sources and any expanded bandwidth requirements, as well as water-blocking capability for moisture protection.

TrayOptic® cable passes IEEE 1202/383 flame test. CPE outer jacket option provides extra chemical or abrasion resistance. Heavy duty double jacket provides excellent crush and impact resistance.



Item Number	Fiber Type	Microns	Fiber Count	Jacket
<b>Tray Optic Fiber Cable</b>				
I100655	OM1	62.5	6	PVC
I100666	OM1	62.5	6	CPE
I601255	OM1	62.5	12	PVC
I601266	OM1	62.5	12	CPE
I1C0655	OM3	50	6	PVC
I1C0666	OM3	50	6	CPE
I6C1255	OM3	50	12	PVC
I6C1266	OM3	50	12	CPE
I1W0655	Single-Mode	-	6	PVC
I1W0666	Single-Mode	-	6	CPE
I6W1255	Single-Mode	-	12	PVC
I6W1266	Single-Mode	-	12	CPE

## Standard Applications

VFD- Drives



PLC



Hirschmann Network Design

