

Introduction

When it's time to specify cabling to meet the needs of your current or future control, power, video or data applications, Belden's wide range of industrial automation, industrial equipment and instrumentation/process control cable products offer the consistent quality, versatility and proven performance to meet your long-term requirements. They're expressly designed with multiple armoring and jacketing options to meet the harsh conditions found in the petrochemical, pharmaceutical, mining, power generation, wastewater treatment, pulp and paper, food processing and transportation industries.

To satisfy the demanding applications found in these industries, Belden employs industry-standard quality control procedures and the very latest manufacturing processes to ensure absolute cable consistency during every production run.

In addition, to further ensure you get the right cable for your needs, our staff of highly knowledgeable application and technical specialists stand ready to guide you through the cable selection process.

Innovative Technology

When shielding is required, our innovative technology delivers maximum effectiveness. Belden's exclusive patented Beldfoil® design, with its aluminum/polyester foil, was the first shield to offer 100 percent cable protection against radiated emission and ingress at audio and radio frequencies.

Intrinsically Safe Wiring

In accordance with NEC Article 504, intrinsically safe cables are colored blue for easy identification. Belden offers several industrial cables in intrinsically safe blue to meet your requirements for intrinsically safe wiring. Contact the NEC and/or your local inspector for specific guidelines.

Custom Capabilities

UL PLTC and TC Listed constructions can be produced with XLPE (cross-linked polyethylene) insulation and/or a CPE Jacket. Other alternative insulating and jacketing materials are available for various hazardous environments with UL Listing.

Plus, most of our Industrial cables are available from stock. 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, contact Technical Support at 1-800-BELDEN-1.

Armoring Capabilities

Belden also has the capability to protect electronic, instrumentation and control cables with interlocking armor and smooth or corrugated protective metal tapes.

To Specify Part Number:

1	2	3456
Overall Jacket Type	Armor Type	Core Trade Number

Overall Jacket Type Armor Type

Code	Material	Code	Material
1	PVC	2	Aluminum Interlock
3	CPE	3	Steel Interlock
4	TPE		
5	HDPE		
6	Oil Res II		
7	Haloarrest® I		

PLC/DCS Cable Cross Reference Guide

Part No.	Description
ABB/Bailey Controls	
Infinet	
9880	Network Trunk Cable
9463	Blue Hose® (Standard)
Masterpiece 200	
9880	Network Trunk Cable
9907	Thin Network Trunk Cable
MICRO-DCI	
3105A	1 Pair, RS-485
MICROLINK	
9860	Twinax, 16 AWG, 124 Ohm
Modcell	
3105A	1 Pair, RS-485
Allen-Bradley/Rockwell Automation	
ControlNet™	
See Protocol listings on page 15.4.	
DeviceNet™	
See Protocol listings on page 15.4.	
DH	
9463	Blue Hose (Standard)
9463F	Flexible Version (9463)
129463	Aluminum Armor (9463)
139463	Steel Armor (9463)
189463	Cast Aluminum (9463)
YR28826	Dual Version (9463)
9463DB	Direct Burial (9463)
YR29565	Various Color Jackets (9463)
3072F	600V TC Rated (9463)
YR41101	Low Smoke, Halogen Free
YR28764	Super Thick (PLTC)
89463	FEP* 200°C, Plenum
DH-485	
3074F	600V Tray Cable
3106A	1.5 Pair, RS-485 (PLTC)
9842	2 Pair, RS-485
YM39500	Flexible Version (3106A)
Longline Communications	
8723	Interface Cable
88723	Plenum Version
Cutler-Hammer/Westinghouse	
IMPACC System	
YR29090	Proprietary Trunk Cable
I/Q System	
9463	Blue Hose (Standard)

*Fluorinated Ethylene-propylene

ControlNet is a ControlNet International trademark.

DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.



PLC/DCS Cable Cross Reference Guide (continued)

Part No.	Description
Emerson Process Management (Fisher/Rosemount Controls)	
Fieldbus (Type SP50 ISA/IEC)	
See Protocol listings on page 15.4.	
Hart	
See Protocol listings on page 15.4.	
Provox Plus	
3094A	RG-11 Quad Shield PVC
3131A	RG-6 Quad Shield PVC
GE Fanuc	
Genius I/O System	
YR29841	PLTC Version
9182	Communications Bus
89182	Plenum Version
Honeywell	
Access 4000 System	
9248	RG-6 PVC
Fieldbus (Type SP50 ISA/IEC)	
See Protocol listings on page 15.4.	
IPC 620 System I/O	
9271	Twinax, 25 AWG, 124 Ohm
IPC 620 System Serial Interface	
9729	Up to 4,000 ft.
9182	Up to 10,000 ft.
89182	Plenum
3000 UCN & LCN	
3131A	RG-6 Quad Shield PVC
3094A	RG-11 Quad Shield PVC
Honeywell Microswitch Division	
Smart Distributed System	
3086A	Mini
3087A	Micro
Invensys/Foxboro	
Fieldbus (Type SP50 ISA/IEC)	
See Protocol listings on page 15.4.	
I/A Series Carrier Band	
8233	Small Trunk
3095A	Plenum
9290	Drop Cable
I/A Series Fieldbus	
9207	Twinax
89207	200°C, Plenum
3073F	600V Tray Cable
I/A Series Node Bus	
9880	Trunk Cable
89880	Plenum Version

Part No.	Description
Limitorque	
DCC100	
3105A	Actuator Bus Cable, 1 Pair, RS-485
Matsushita	
FP Series C-NET	
9207	Twinax, 20 AWG, Stranded, 100 Ohm
9860	Twinax, 16 AWG, Solid, 124 Ohm
FP Series MEWNET-F	
9207	Twinax, 20 AWG, Stranded, 100 Ohm
9860	Twinax, 16 AWG, Solid, 124 Ohm
FP Series MEWNET-H	
9248	RG-6, 75 Ohm, 18 AWG
FP Series MEWNET-TR	
9207	Twinax, 20 AWG, Stranded, 100 Ohm
9860	Twinax, 16 AWG, Solid, 124 Ohm
FP Series MEWNET-W	
9207	Twinax, 20 AWG, Stranded, 100 Ohm
9806	4 Pair, RS-232, RS-422
FP Series MEWNET-W2	
9207	Twinax, 20 AWG, Stranded, 100 Ohm
9860	Twinax, 16 AWG, Solid, 124 Ohm
FP Series TRNET	
9207	Twinax, 20 AWG, Stranded, 100 Ohm
9860	Twinax, 16 AWG, Solid, 124 Ohm
Modicon/Schneider AEG	
Modbus	
8777	Modem Drop Cable, 22 AWG, 3 Pair
128777	Aluminum Armor (8777)
138777	Steel Armor (8777)
88777	FEP* 200°C, Plenum
Modbus II	
3092A	RG-6 Quad Shield PVC
3132A	RG-6 Quad Shield, 150°C, Plenum
3092F	RG-6 Quad Shield PVC, Flexible Version
123092A	Aluminum Armor (3092A)
133092A	Steel Armor (3092A)
Modbus Plus	
YM29560	24 AWG, 1 Pair, RS-485
YC39000	Aluminum Armor (YM29560)
YC39222	Steel Armor (YM29560)
YQ29258	24 AWG, 1 Pair, 150°C, Plenum

Part No.	Description
Modicon/Schneider AEG (continued)	
Remote I/O	
3092A	RG-6 Quad Shield PVC
3092F	RG-6 Quad Shield PVC, Flexible Version
123092A	Aluminum Armor (3092A)
133092A	Steel Armor (3092A)
123092F	Aluminum Armor, RG-6 Quad Shield PVC
3132A	RG-6 Quad Shield, 150°C, Plenum
3094A	RG-11 Quad Shield PVC
123094A	Aluminum Armor (3094A)
133094A	Steel Armor (3094A)
3095A	RG-11 Quad Shield, 150°C, Plenum
Omron	
SYSBUS-2	
3073F	600V Tray Cable Twinax
SYSMAC LINK	
9231	Coax
Phoenix Contact	
DeviceNet™	
See Protocol listings on page 15.4.	
Interbus®-S	
See Protocol listings on page 15.4.	
Profibus DP FMS & PA	
See Protocol listings on page 15.4.	
Reliance/A-B	
Auto Max Distributed Power	
MTB6002	2 Fiber Breakout
I100255	2 Fiber Loose Tube PVC
I100266	2 Fiber Loose Tube CPE
R-Net	
9259	RG-59 PVC
89259	RG-59, 200°C, Plenum
Rotork	
Pakscan II E RS-485	
3105A	22 AWG, 1 Pair, RS-485
Siemens/Moore	
FMC (Field Mountable Controller)	
3105A	1 Pair, RS-485
3106A	1.5 Pair, RS-485
3107A	2 Pair, RS-485
3108A	3 Pair, RS-485
3109A	4 Pair, RS-485

*Fluorinated Ethylene-propylene

DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.
Interbus is a Phoenix Contact trademark.

PLC/DCS Cable Cross Reference Guide (continued)

Part No.	Description
Siemens/Moore (continued)	
Hiway	
9860	Network Trunk Cable
MODULNET	
3094A	RG-11 Quad Shield PVC
3131A	RG-6 Quad Shield PVC
Profibus DP & FMS (Purple)	
See Protocol listings on this page.	
Profibus PA (Blue)	
See Protocol listings on this page.	
SINEC Series H1	
9907	Thin Network Trunk Cable
9880	Network Trunk Cable
SINEC Series H2B	
3131A	RG-6 Quad Shield
3094A	RG-11 Quad Shield
SINEC Series L1	
3107A	2 Pair, RS-485
SINEC Series L2	
3079A	300V Twinax
Thicknet Ethernet Trunk	
9880	Network Trunk Cable
129880	Aluminum Interlocked Armor Trunk
139880	Steel Interlocked Armor Trunk
Thinnet Ethernet Trunk	
9907	Thin Network Trunk Cable
Smar	
Fieldbus (Type SP50 ISA/IEC)	
See Protocol listings on this page.	
Profibus DP, FMS & PA	
See Protocol listings on this page.	
RS-485	
See Protocol listings on this page.	
Square D/Schneider AEG	
FIP/Fieldbus	
3079A	22 AWG, 1 Pair, Shielded
123079A	Aluminum Armor (3079A)
Model 50, RS-422 Cable	
8760	18 AWG, 1 Pair, Shielded
128760	Aluminum Armor (8760)
Passport I/O — I/O Net	
3105A	22 AWG, 1 Pair, RS-485
123105A	Aluminum Armor (3105A)
3106A	22 AWG, 1.5 Pair, RS-485
123106A	Aluminum Armor (3106A)

Part No.	Description
Square D/Schneider AEG (continued)	
Seriplex®	
3124A	CBL-1822-P20
3125A	CBL-1622-P16
3126A	CBL-162212-P16
123124A	Aluminum Armor (3124A)
123125A	Aluminum Armor (3125A)
123126A	Aluminum Armor (3126A)
SY/Net Network Trunk Cable	
9463	Blue Hose® (Standard)
9463F	Flexible Version (9463)
129463	Aluminum Armor (9463)
139463	Steel Armor (9463)
189463	Cast Aluminum (9463)
YR28826	Dual Version (9463)
9463DB	Direct Burial (9463)
YR29565	Various Color Jackets (9463)

Industrial Communications Protocol

ControlNet™	
3092A	RG-6 PVC Quad Shield
3092F	RG-6 PVC Quad Shield, Flex Version, Aluminum Braid
YR28890	RG-6 PVC Flex Version, Copper Braid
3093A	RG-6 FEP* Quad Shield, Plenum
123092A	Aluminum Armor (3092A)
133092A	Steel Armor (3092A)
DeviceNet™	
3082A	PVC (Thick)
3082F	High-Flex (Thick)
3082K	CL2 (Flat)
3082KP	Auxiliary Power (Flat)
3083A	CPE (Thick)
3084A	PVC (Thin)
3084F	High-Flex (Thin)
3085A	CPE (Thin)
7895A	CL2 PVC (Cable III Mid)
7896A	CL1 PVC (Type V Trunk Cable)
7897A	CL1 PVC (Thick)
7900A	CL1 Unshielded (Drop Cable IV)
Fieldbus (Type SP50 ISA/IEC)	
3076F	Type A, H1 1900m (31.25K)
3077F	Type B, H1 1200m (31.25K)
HSE	Copper & Fiber (See <i>Cables for Industrial Ethernet</i> on page 15.5)

Part No.	Description
Square D/Schneider AEG (continued)	
SY/Net Network Trunk Cable	
3072F	600V TC Rated (9463)
YR41194	Low Smoke, Halogen Free
YR28764	Super Thick (PLTC)
89463	FEP* 200°C, Plenum
SY/Net TNIM Cable	
9272	20 AWG, 1 Pair, Shielded
89272	FEP* 200°C, Plenum
Yokogawa	
Fieldbus (Type SP50 ISA/IEC)	
See Protocol listings on this page.	
Westinghouse	
WDPF	
9292	RG-11 PVC

Hart	
3105A	1 Pair, RS-485
3106A	1.5 Pair, RS-485
3107A	2 Pair, RS-485
Interbus®-S	
3119A	18/3C, 24/3 Pair, Composite
3120A	24/3 Pair
Profibus DP & FMS (Purple)	
3079A	300V Twinax
Profibus PA (Blue)	
3076F	18 AWG, 2 Conductors, Type A
RS-485	
9841	1 Pair
82841	1 Pair, Plenum
89841	1 Pair, Plenum, High-Temperature
9842	2 Pair
82842	2 Pair, Plenum
9843	3 Pair
9844	4 Pair
3105A	1 Pair (PLTC)
3106A	1.5 Pair (PLTC)
3107A	2 Pair (PLTC)
3108A	3 Pair (PLTC)
3109A	4 Pair (PLTC)

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