

# Belden IndustrialTuff® Cables

## Introduction

### Tough Cables for Tough Environments

Today, more than ever, manufacturing productivity depends upon seamless data communication and automation systems. And both depend upon high-performance cabling solutions.

#### Depend on Belden

Belden has developed the world's most comprehensive line of industrial cabling solutions for applications like yours: whether you are networking your factory floor or your process equipment and devices to their controllers...and on to the control room, or relaying data between the control room, the engineering department, and remote manufacturing sites — or, all of the above. From your petrochemical, automotive manufacturing, pharmaceutical, power generation, pulp and paper, metals, food and beverage, or general manufacturing plant to your corporate headquarters — and everywhere in between — Belden has your cabling solution.

Most importantly you can have the peace-of-mind that is inherent with the use of Belden products since all Belden cables are manufactured in ISO 9001:2000 certified facilities to the industry's highest standards of quality, utilizing the most advanced equipment, systems, controls and processes available.

Belden cables give you the performance you need day after dependable day.

### Innovative Technology

#### Bonded-Pairs

Many DataTuff® Industrial Ethernet cables feature Belden's patented bonded-pair technology. Bonded-pairs provide *Installable Performance*® — superior electrical performance even after the stresses of installation. Bonded-pairs exhibit the most robust and reliable electrical performance in the industry.

#### Shielding

The evolution of technology maintains steady demand for sophisticated cable shielding. Belden meets that demand with innovative shielding and shield effectiveness testing methods to supply you with high quality, dependable cable.

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.

#### Armoring

Belden's innovative armoring technology delivers maximum physical protection in harsh environments. Additional benefits include reduced cost of conduit, easier installation and re-routing, plus additional shielding.

Belden has the capability to protect data, electronic, instrumentation and control cables with interlocking steel or aluminum armor as well as continuous corrugated aluminum armor. Smooth or corrugated protective metal tapes are also available.

#### Insulation and Jacket

Belden formulates many of its own insulations and jacket compounds. As a result, they provide superior performance under a variety of hostile environmental conditions. See "Technical Information" at the back of this section for further details.

#### 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

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.

#### To Specify Part Number:

|                     |            |                   |
|---------------------|------------|-------------------|
| <b>1</b>            | <b>2</b>   | <b>3456</b>       |
| 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         | 8    | Continuous Corrugated Aluminum |
| 5    | HDPE        |      |                                |
| 6    | Oil Res II  |      |                                |
| 7    | Haloarrest® |      |                                |

## PLC/DCS Cable Cross Reference Guide

| PLC/DCS Manufacturer   | System Name                              | Belden Part Number  |   |  |
|--|--|---|---|--|
| <b>ABB/Bailey Controls</b>   | <b>FOUNDATION Fieldbus</b>               | See Protocol listings on page 8.6   |   |  |
|  | <b>Industrial IT 800 X A</b>             | <b>9880</b> Network Trunk Cable   |   |  |
|  | <b>Infinet</b>                           | <b>9880</b> Network Trunk Cable<br><b>9463</b> Blue Hose® (Standard)  |   |  |
|  | <b>Masterpiece 200</b>                   | <b>9880</b> Network Trunk Cable<br><b>9907</b> Thin Network Trunk Cable   |   |  |
|  | <b>MICRO-DCI</b>                         | <b>3105A</b> 1-Pair, RS-485   |   |  |
|  | <b>MICROLINK</b>                         | <b>9860</b> Twinax, 16 AWG, 124 Ohm   |   |  |
|  | <b>Modcell</b>                           | <b>3105A</b> 1-Pair, RS-485   |   |  |
|  | <b>Profibus DP &amp; PA</b>              | See Protocol listings on page 8.6   |   |  |
|  | <b>Allen-Bradley/Rockwell Automation</b> | <b>ControlNet™</b>  | See Protocol listings on page 8.6                                       |  |
|  |  | <b>DeviceNet™</b>   | See Protocol listings on page 8.6                                       |  |
| <b>DH, DH+, Remote I/O</b>   |  | <b>9463</b> Blue Hose (Standard)<br><b>9463F</b> Flexible Version (9463)<br><b>129463</b> Aluminum Armor (9463)<br><b>139463</b> Steel Armor (9463)<br><b>189463</b> Continuous Armor (9463)<br><b>YR28826</b> Dual Version (9463)<br><b>YC39151</b> Dual Armored (9463)<br><b>9463DB</b> Direct Burial (9463)<br><b>YR29565</b> Various Color Jackets (9463)<br><b>3072F</b> 600V TC Rated (9463)<br><b>YR41104</b> Low Smoke, Halogen Free<br><b>YR28764</b> Super Thick (PLTC)<br><b>89463</b> FEP 200°C, Plenum |   |  |
| <b>DH-485</b>  |  | <b>3074F</b> 600V Tray Cable<br><b>3106A</b> 1.5-Pair, RS-485 (PLTC)<br><b>9842</b> 2-Pair, RS-485<br><b>YM39500</b> Flexible Version (3106A)   |   |  |
| <b>Industrial Ethernet</b>   |  | See Protocol listings on page 8.6   |   |  |
| <b>Longline Communications</b>   |  | <b>8723</b> Interface Cable<br><b>88723</b> Plenum Version  |   |  |
| <b>Cutler-Hammer/Westinghouse</b>  |  | <b>IMPACC System</b> <b>YR29090</b> Proprietary Trunk Cable<br><b>I/O System</b> <b>9463</b> Blue Hose (Standard)   |   |  |
| <b>Emerson Process Management</b><br><br>(Fisher/Rosemont Systems) —<br><b>Delta V</b> |  | <b>DeviceNet</b>  | See Protocol listings on page 8.6                                       |  |
|  |  | <b>FOUNDATION Fieldbus</b><br>(Type SP50 ISA/IEC)   | See Protocol listings on page 8.6                                       |  |
|  |  | <b>HART</b>   | See Protocol listings on page 8.6                                       |  |
|  |  | <b>Industrial Ethernet</b>  | See Protocol listings on page 8.6                                       |  |
|  |  | <b>Modbus</b>   | See Protocol listings on page 8.6                                       |  |
|  |  | <b>Profibus DP</b>  | See Protocol listings on page 8.6                                       |  |
|  |  | <b>Provox Plus</b>  | <b>3091A</b> RG-11 Quad Shield PVC<br><b>3131A</b> RG-6 Quad Shield PVC |  |
|  |  | <b>RS-485</b>   | See Protocol listings on page 8.6                                       |  |
|  |  | <b>GE Fanuc — I/O Bus</b>   | <b>DeviceNet</b>  | See Protocol listings on page 8.6  |
|  |  |   | <b>Genius</b><br>9030, 9070<br>PAC System                               | <b>YR29841</b> PLTC Version<br><b>9182</b> Communications Bus<br><b>89182</b> Plenum Version |
| <b>Interbus®-S</b>   |  |   | See Protocol listings on page 8.6                                       |  |
| <b>Modbus®</b>   |  |   | See Protocol listings on page 8.6                                       |  |
| <b>Profibus</b>  |  |   | See Protocol listings on page 8.6                                       |  |

| PLC/DCS Manufacturer                       | System Name                                       | Belden Part Number                                       |   |
|--|---|--|---|
| <b>GE Fanuc — Sensor Device Networks</b>   | <b>DeviceNet</b>                                  | See Protocol listings on page 8.6                        |   |
|  | <b>SDS</b>  | See Protocol listings on page 8.6                        |   |
| <b>Honeywell</b>                           | <b>Access 4000 System</b>                         | <b>9248</b> RG-6 PVC                                     |   |
|  | <b>FOUNDATION Fieldbus</b><br>(Type SP50 ISA/IEC) | See Protocol listings on page 8.6                        |   |
|  | <b>IPC 620 System I/O</b>                         | <b>9271</b> Twinax, 25 AWG, 124 Ohm                      |   |
|  | <b>IPC 620 System</b>                             | <b>9729</b> Up to 4,000 ft.                              |   |
|  | <b>Serial Interface</b>                           | <b>9182</b> Up to 10,000 ft.<br><b>89182</b> Plenum      |   |
|  | <b>Series C</b>                                   | <b>RS-485</b> Foundation Fieldbus<br>Industrial Ethernet |   |
|  | <b>3000 UCN &amp; LCN</b>                         | <b>3131A</b> RG-6 Quad Shield PVC                        |   |
|  |   | <b>3094A</b> RG-11 Quad Shield PVC                       |   |
|  | <b>Honeywell Microswitch Division</b>             | <b>Smart Distributed System</b>                          | <b>3086A</b> Mini<br><b>3087A</b> Micro |
|  | <b>Invensys/Foxboro</b>                           | <b>FOUNDATION Fieldbus</b><br>(Type SP50 ISA/IEC)        | See Protocol listings on page 8.6       |
| <b>I/A Series Carrier Band</b>             |   | <b>8233</b> Small Trunk                                  |   |
|  |   | <b>3095A</b> Plenum                                      |   |
|  |   | <b>9290</b> Drop Cable                                   |   |
| <b>I/A Series Fieldbus</b>                 |   | <b>9207</b> Twinax                                       |   |
|  |   | <b>89207</b> 200°C, Plenum                               |   |
|  |   | <b>3073F</b> 600V Tray Cable                             |   |
| <b>I/A Series Node Bus</b>                 |   | <b>9880</b> Trunk Cable                                  |   |
|  |   | <b>89880</b> Plenum Version                              |   |
| <b>Industrial Ethernet</b>                 |   | See Protocol listings on page 8.6                        |   |
| <b>Limitorque</b>                          | <b>DCC100</b>                                     | <b>3105A</b> Actuator Bus Cable, 1-Pair, RS-485          |   |
| <b>Matsushita</b>                          | <b>FP Series C-NET</b>                            | <b>9207</b> Twinax, 20 AWG, Stranded, 100 Ohm            |   |
|  |   | <b>9860</b> Twinax, 16 AWG, Solid, 124 Ohm               |   |
|  | <b>FP Series MEWNET-F</b>                         | <b>9207</b> Twinax, 20 AWG, Stranded, 100 Ohm            |   |
|  |   | <b>9860</b> Twinax, 16 AWG, Solid, 124 Ohm               |   |
|  | <b>FP Series MEWNET-H</b>                         | <b>9248</b> RG-6, 75 Ohm, 18 AWG                         |   |
|  | <b>FP Series MEWNET-TR</b>                        | <b>9207</b> Twinax, 20 AWG, Stranded, 100 Ohm            |   |
|  |   | <b>9860</b> Twinax, 16 AWG, Solid, 124 Ohm               |   |
|  | <b>FP Series MEWNET-W</b>                         | <b>9207</b> Twinax, 20 AWG, Stranded, 100 Ohm            |   |
|  |   | <b>9806</b> 4-Pair, RS-232, RS-422                       |   |
|  | <b>FP Series MEWNET-W2</b>                        | <b>9207</b> Twinax, 20 AWG, Stranded, 100 Ohm            |   |
| <b>9860</b> Twinax, 16 AWG, Solid, 124 Ohm |   |  |   |
| <b>FP Series TRNET</b>                     | <b>9207</b> Twinax, 20 AWG, Stranded, 100 Ohm     |  |   |
|  | <b>9860</b> Twinax, 16 AWG, Solid, 124 Ohm        |  |   |

FEP = Fluorinated Ethylene-propylene



**PLC/DCS Cable Cross Reference Guide** *(continued)*

| PLC/DCS Manufacturer                  | System Name                  | Belden Part Number   |  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|---------------------------------------|------------------------------|--|--|--|------------------------|---------------------|--------------------------------------|---------------------------------|------------------------|---------------------|----------------------------------|--------------------------------|---|
| <b>Mitsubishi Electric Automation</b> | <b>CC-Link</b>               | See Protocol listings on page 8.6                          |  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>DeviceNet</b>             | See Protocol listings on page 8.6                          |  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Melsecnet II (10/10H)</b> | <b>1505A</b>   | Precision RG-59/U Coax                           |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>1505F</b>   | High-Flex 1505A                                  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>1506A</b>   | Plenum Precision RG-59/U, Outdoor, Direct Burial |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>8241</b>  | Standard RG-59/U Coax                            |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>8241F</b>   | High-Flex 8241F                                  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Modbus</b>                | See Protocol listings on page 8.6                          |  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Profibus DP</b>           | See Protocol listings on page 8.6                          |  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Serial Communications</b> | <b>8777</b> Control and Instrumentation Interconnect Cable |  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
| <b>Modicon/Schneider AEG</b>          | <b>Industrial Ethernet</b>   | See Protocol listings on page 8.6                          |  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Modbus</b>                | <b>8777</b>  | Modem Drop Cable, 22 AWG, 3-Pair                 |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>128777</b>  | Aluminum Armor (8777)                            |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>138777</b>  | Steel Armor (8777)                               |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>88777</b>   | FEP 200°C, Plenum                                |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Modbus II</b>             | <b>3092A</b>   | RG-6 Quad Shield PVC                             |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>3132A</b>   | RG-6 Quad Shield, 150°C, Plenum                  |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>3092F</b>   | RG-6 Quad Shield PVC, Flexible Version           |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>123092A</b>   | Aluminum Armor (3092A)                           |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Modbus Plus</b>           | <b>133092A</b>   | Steel Armor (3092A)                              |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>YM29560</b>   | 24 AWG, 1-Pair, RS-485                           |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>YC39000</b>   | Aluminum Armor (YM29560)                         |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>YC39222</b>   | Steel Armor (YM29560)                            |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       | <b>Remote I/O</b>            | <b>YQ29258</b>   | 24 AWG, 1-Pair, 150°C, Plenum                    |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              | <b>3092A</b>   | RG-6 Quad Shield PVC                             |  |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              |  | <b>3092F</b>                                     | RG-6 Quad Shield PVC, Flexible Version |                        |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              |  |  | <b>123092A</b>                         | Aluminum Armor (3092A) |                     |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              |  |  |  | <b>133092A</b>         | Steel Armor (3092A) |                                      |                                 |                        |                     |                                  |                                |   |
|                                       |                              |  |  |  |                        | <b>123092F</b>      | Aluminum Armor, RG-6 Quad Shield PVC |                                 |                        |                     |                                  |                                |   |
|                                       |                              |  |  |  |                        |                     | <b>3132A</b>                         | RG-6 Quad Shield, 150°C, Plenum |                        |                     |                                  |                                |   |
| <b>3094A</b>                          |                              |  |  |  |                        |                     |                                      | RG-11 Quad Shield PVC           |                        |                     |                                  |                                |   |
|                                       |                              |  |  |  |                        |                     |                                      | <b>123094A</b>                  | Aluminum Armor (3094A) |                     |                                  |                                |   |
|                                       |                              |  |  |  |                        |                     |                                      |                                 | <b>133094A</b>         | Steel Armor (3094A) |                                  |                                |   |
|                                       |                              |  |  |  |                        |                     |                                      |                                 |                        | <b>3095A</b>        | RG-11 Quad Shield, 150°C, Plenum |                                |   |
|                                       |                              |  |  |  |                        |                     |                                      |                                 |                        |                     | <b>Omron</b>                     | <b>ComboBus/D (DeviceNet™)</b> | See DeviceNet Protocol listings on page 8.6 |
|                                       |                              |  |  |  |                        |                     |                                      |                                 |                        |                     |                                  | <b>ComboBus/S</b>              | <b>9409</b>                                 |
|                                       |                              |  |  |  |                        |                     |                                      |                                 |                        |                     | <b>9318</b>                      |                                | 18 AWG, 1-Pair, 300V PLTC Control, Shielded |
|                                       |                              |  |  |  |                        |                     |                                      |                                 |                        |                     | <b>3073</b>                      |                                | 600V Tray Cable, Twinax                     |
|                                       |                              |  |  |  |                        |                     |                                      |                                 |                        |                     | <b>89740</b>                     |                                | 18 AWG, 1-Pair, 300V, Control               |

| PLC/DCS Manufacturer               | System Name                                    | Belden Part Number                         |
|------------------------------------|--|--|
| <b>Omron</b><br><i>(continued)</i> | <b>Controller Link</b>                         | <b>9207</b> Twinax                         |
|                                    |  | <b>89207</b> Twinax, 200°C, Plenum         |
|                                    |  | <b>9815</b> Twinax, 100 Ohm, Direct Burial |
|                                    |  | <b>3073F</b> 600V Tray Cable, Twinax       |
|                                    |  | <b>3073F</b> 600V Tray Cable, Twinax       |
|                                    | <b>SYSBUS-2</b>                                | <b>3073F</b> 600V Tray Cable, Twinax       |
|                                    | <b>SYSMAC BUS</b>                              | <b>9841</b> 22 AWG, 1-Pair, RS-485         |
|                                    |  | <b>3105A</b> 22 AWG, 1-Pair, RS-485        |
|                                    | <b>SYSMAC LINK</b>                             | <b>9231</b> RG-59U Coax                    |
|                                    | <b>Phoenix Contact</b>                         | <b>DeviceNet</b>                           |
| <b>Industrial Ethernet</b>         |  | See Protocol listings on page 8.6          |
| <b>Interbus®-S</b>                 |  | See Protocol listings on page 8.6          |
| <b>Profibus DP FMS &amp; PA</b>    |  | See Protocol listings on page 8.6          |
| <b>Reliance/A-B</b>                | <b>Auto Max Distributed Power</b>              | <b>M98021</b> 2-Fiber Breakout             |
|                                    |  | <b>I100255</b> 2-Fiber Loose Tube PVC      |
|                                    |  | <b>I100266</b> 2-Fiber Loose Tube CPE      |
|                                    | <b>R-Net</b>                                   | <b>9259</b> RG-59 PVC                      |
|                                    | <b>89259</b> RG-59, 200°C, Plenum              |  |
| <b>Rotork Siemens/Moore</b>        | <b>Pakscan II E RS-485</b>                     | <b>3105A</b> 22 AWG, 1-Pair, RS-485        |
|                                    |  | <b>3105A</b> 1-Pair, RS-485                |
|                                    |  | <b>3106A</b> 1.5-Pair, RS-485              |
|                                    |  | <b>3107A</b> 2-Pair, RS-485                |
|                                    |  | <b>3108A</b> 3-Pair, RS-485                |
|                                    |  | <b>3109A</b> 4-Pair, RS-485                |
|                                    | <b>FOUNDATION Fieldbus (Type SP50 ISA/IEC)</b> | See Protocol listings on page 8.6          |
|                                    | <b>Hiway</b>                                   | <b>9860</b> Network Trunk Cable            |
|                                    | <b>Industrial Ethernet</b>                     | See Protocol listings on page 8.6          |
|                                    | <b>MODULNET</b>                                | <b>3094A</b> RG-11 Quad Shield PVC         |
|                                    |  | <b>3131A</b> RG-6 Quad Shield PVC          |
|                                    | <b>Profibus DP &amp; FMS (Purple)</b>          | See Protocol listings on page 8.6          |
| <b>Profibus PA (Blue)</b>          | See Protocol listings on page 8.6              |  |
| <b>SINEC Series H1</b>             | <b>9907</b> Thin Network Trunk Cable           |  |
|                                    | <b>9880</b> Network Trunk Cable                |  |
| <b>SINEC Series H2B</b>            | <b>3131A</b> RG-6 Quad Shield                  |  |
|                                    | <b>3094A</b> RG-11 Quad Shield                 |  |
| <b>SINEC Series L1</b>             | <b>3107A</b> 2-Pair, RS-485                    |  |
| <b>SINEC Series L2</b>             | <b>3079A</b> 300V Twinax                       |  |
| <b>Thicknet Ethernet Trunk</b>     | <b>9880</b> Network Trunk Cable                |  |
|                                    | <b>129880</b> Aluminum Interlocked Armor Trunk |  |
|                                    | <b>139880</b> Steel Interlocked Armor Trunk    |  |
| <b>Thinnet Ethernet Trunk</b>      | <b>9907</b> Thin Network Trunk Cable           |  |

FEP = Fluorinated Ethylene-propylene



## PLC/DCS Cable Cross Reference Guide *(continued)*

| PLC/DCS Manufacturer               | System Name                                       | Belden Part Number                         |                                       |
|------------------------------------|---|--|---------------------------------------|
| <b>Smar</b>                        | <b>FOUNDATION Fieldbus</b><br>(Type SP50 ISA/IEC) | See Protocol listings on page 8.6          |                                       |
|                                    | <b>Industrial Ethernet</b>                        | See Protocol listings on page 8.6          |                                       |
|                                    | <b>Profibus DP FMS &amp; PA</b>                   | See Protocol listings on page 8.6          |                                       |
|                                    | <b>RS-485</b>                                     | See Protocol listings on page 8.6          |                                       |
| <b>Square D/<br/>Schneider AEG</b> | <b>FIP/Fieldbus</b>                               | <b>3079A</b> 22 AWG, 1-Pair, Shielded      |                                       |
|                                    |   | <b>123079A</b> Aluminum Armor (3079A)      |                                       |
|                                    | <b>Industrial Ethernet</b>                        | See Protocol listings on page 8.6          |                                       |
|                                    | <b>Model 50, RS-422<br/>Cable</b>                 | <b>8760</b> 18 AWG, 1-Pair, Shielded       |                                       |
|                                    |   | <b>128760</b> Aluminum Armor (8760)        |                                       |
|                                    |   | <b>Passport I/O – I/O Net</b>              | <b>3105A</b> 22 AWG, 1-Pair, RS-485   |
|                                    |   |  | <b>123105A</b> Aluminum Armor (3105A) |
|                                    | <b>3106A</b> 22 AWG, 1.5-Pair, RS-485             |  |                                       |
|                                    | <b>Power Logic</b>                                | <b>123106A</b> Aluminum Armor (3106A)      |                                       |
|                                    |   | <b>9841</b> 24 AWG, 1-Pair, RS-485         |                                       |
| <b>9842</b> 24 AWG, 2-Pair, RS-485 |   |  |                                       |
| <b>Square D/<br/>Schneider AEG</b> | <b>Seriplex®</b>                                  | <b>3124A</b> CBL-1822-P20                  |                                       |
|                                    |   | <b>3125A</b> CBL-1622-P16                  |                                       |
|                                    |   | <b>3126A</b> CBL-162212-P16                |                                       |
|                                    |   | <b>123124A</b> Aluminum Armor (3124A)      |                                       |
|                                    |   | <b>123125A</b> Aluminum Armor (3125A)      |                                       |
|                                    |   | <b>123126A</b> Aluminum Armor (3126A)      |                                       |
|                                    |   | <b>9463</b> Blue Hose® (Standard)          |                                       |
|                                    |   | <b>9463F</b> Flexible Version (9463)       |                                       |
|                                    |   | <b>129463</b> Aluminum Armor (9463)        |                                       |
|                                    |   | <b>139463</b> Steel Armor (9463)           |                                       |
|                                    |   | <b>189463</b> Continuous Armor (9463)      |                                       |
|                                    |   | <b>YR28826</b> Dual Version (9463)         |                                       |
|                                    |   | <b>9463DB</b> Direct Burial (9463)         |                                       |
|                                    |   | <b>YR29565</b> Various Color Jackets 9463) |                                       |
|                                    |   | <b>SY/Net Network<br/>Trunk Cable</b>      | <b>3072F</b> 600V TC Rated (9463)     |
|                                    | <b>YR41194</b> Low-Smoke, Halogen-Free            |  |                                       |
|                                    | <b>YR28764</b> Super Thick (PLTC)                 |  |                                       |
|                                    | <b>SY/Net TNIM Cable</b>                          | <b>89463</b> FEP 200°C, Plenum             |                                       |
|                                    |   | <b>9272</b> 20 AWG, 1-Pair, Shielded       |                                       |
| <b>89272</b> FEP 200°C, Plenum     |   |  |                                       |

| PLC/DCS Manufacturer          | System Name                                       | Belden Part Number                |
|-------------------------------|---|-----------------------------------|
| <b>Yokogawa —<br/>CENTUM</b>  | <b>DeviceNet™</b>                                 | See Protocol listings on page 8.6 |
|                               | <b>FOUNDATION Fieldbus</b><br>(Type SP50 ISA/IEC) | See Protocol listings on page 8.6 |
|                               | <b>HART</b>                                       | See Protocol listings on page 8.6 |
|                               | <b>Industrial Ethernet</b>                        | See Protocol listings on page 8.6 |
|                               | <b>Profibus</b>                                   | See Protocol listings on page 8.6 |
| <b>Yokogawa —<br/>FA-M3</b>   | <b>RS-485</b>                                     | See Protocol listings on page 8.6 |
|                               | <b>DeviceNet</b>                                  | See Protocol listings on page 8.6 |
|                               | <b>Industrial Ethernet</b>                        | See Protocol listings on page 8.6 |
|                               | <b>Modbus</b>                                     | See Protocol listings on page 8.6 |
|                               | <b>Profibus</b>                                   | See Protocol listings on page 8.6 |
| <b>Yokogawa —<br/>STARDOM</b> | <b>RS-485</b>                                     | See Protocol listings on page 8.6 |
|                               | <b>DeviceNet</b>                                  | See Protocol listings on page 8.6 |
|                               | <b>FOUNDATION Fieldbus</b><br>(Type SP50 ISA/IEC) | See Protocol listings on page 8.6 |
|                               | <b>HART</b>                                       | See Protocol listings on page 8.6 |
|                               | <b>Industrial Ethernet</b>                        | See Protocol listings on page 8.6 |
| <b>Westinghouse</b>           | <b>Profibus</b>                                   | See Protocol listings on page 8.6 |
|                               | <b>RS-485</b>                                     | See Protocol listings on page 8.6 |
|                               | <b>WDPF</b>                                       | <b>9292</b> RG-11 PVC             |

FEP = Fluorinated Ethylene-propylene

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