

Cables for Allen-Bradley PLC Systems

Belden is an approved cable supplier for Allen-Bradley programmable logic controller (PLC) systems. In fact, Belden offers the widest selection of cables available today to meet the unique needs and requirements of these systems. Each Belden® cable is

backed by years of research and development, and manufactured to some of the industry's most exacting quality standards. And as with all Belden products, complete application assistance and technical support are available whenever you need it.

Belden® Blue Hose™ Cables for A-B DH^o, DH+^o and Remote I/O^o Systems

Belden Trade No.	Description	Specifications
YQ28763	High and Low Temp Plenum Cable A plenum, 200°C grade cable that is suitable for installations where high and low temperatures, as well as corrosive environments, are encountered.	1-pair, #20 (7 x 28) AWG tinned copper, FEP insulation, (blue, clear) Beldfoil® + 55% tinned copper braid and drain wire, Blue FEP jacket. Nominal diameter: 0.205 inch.
YR28826	Dual Data Highway Cable Dual Data Highway/Remote I/O cable has two Twinax pairs individually shielded with an overall braid. Designed for use in daisy chain applications or applications requiring one Data Highway and one Remote I/O line.	2-pair, #20 (7 x 28) AWG tinned copper, polyethylene insulation, (blue, clear). Each pair Beldfoil shielded, 1 pair blue tape and 1 pair green tape, 85% tinned copper braid and drain wire, Blue PVC jacket. Nominal diameter: 0.382 inch.
YR28761	High-Flexibility Festooning Cable A highly flexible cable that is ideal for use in high-flex applications such as festoon, C-track, and robotics. The cable also has heavier braid coverage for better noise immunity.	1-pair, #20 (42 x 36) AWG tinned copper, polyethylene insulation, (blue, clear) Beldfoil + 85% tinned copper braid, Blue PVC jacket. Nominal diameter: 0.243 inch.
YR28762	Gel-Filled Direct Burial Cable A gel-filled Data Highway cable featuring a low density polyethylene (LDPE) jacket. Especially suited for high-moisture environments and burial applications. (Allen-Bradley recommends using fiber optics for outdoor applications.)	1-pair, #20 (7 x 28) AWG tinned copper, polyethylene insulation, (blue, clear) Beldfoil + 55% tinned copper braid and drain wire, Coreguard™ flooding compound, Blue low density polyethylene jacket. Nominal diameter: 0.243 inch.
YR28764	Thick-Wall, Heavy-Duty Cable — UL Type PLTC/FT4 A rugged, heavy-duty cable specially designed for abusive environments. A 0.100 inch thick jacket provides extra protection against cuts and abrasions.	1-pair, #20 (7 x 28) AWG tinned copper, polyethylene insulation, (blue, clear) Beldfoil + 55% tinned copper braid and drain wire, Blue PVC jacket with 0.100" jacket wall. Nominal diameter: 0.380 inch.
9463	Blue Hose™ Standard Data Highway Cable A standard Data Highway Cable that is sometimes referred to as Blue Hose. Designed to be used in light industrial environments, and available in custom lengths up to 5,000 ft.	1-pair, #20 (7 x 28) AWG tinned copper, polyethylene insulation, (blue, clear) Beldfoil + 55% tinned copper braid and drain wire, Blue PVC jacket. Nominal diameter: 0.243 inch.
129463	Aluminum Interlocked Armor Blue Hose Cable Features interlocked aluminum armor combined with a PVC jacket and is an ideal alternative to conduit installation. Provides both mechanical protection and electrical shielding. Up to 25 Data Highway cables can be bundled under one sheath.	1-pair, #20 (7 x 28) AWG tinned copper, polyethylene insulation, (blue, clear) Beldfoil + 55% tinned copper braid and drain wire, Blue PVC jacket, Aluminum Interlocked Armor, Blue PVC jacket. Nominal diameter: 0.560 inch.
139463	Steel Interlocked Armor Blue Hose Cable Features interlocked steel armor combined with a PVC jacket and is an ideal alternative to conduit installation. Provides both mechanical protection and electrical shielding, as well as prevention against the low-frequency 60Hz magnetic noise produced by high-voltage lines. Up to 25 Data Highway cables can be bundled under one sheath.	1-pair, #20 (7 x 28) AWG tinned copper, polyethylene insulation, (blue, clear) Beldfoil + 55% tinned copper braid and drain wire, Blue PVC jacket, Steel Interlocked Armor, Blue PVC jacket. Nominal diameter: 0.560 inch.
3072F	600V Data Highway Cable — UL Type TC A DataTray® cable designed for cable tray use in industrial applications. Cable can occupy same tray or conduit as 600 volt power cables. See Allen-Bradley Installation guide for spacing and ampacity limitations.	1-pair, #18 AWG stranded tinned copper, (blue, white) Beldfoil + 55% tinned copper braid and drain wire, Blue PVC jacket. Nominal diameter: 0.315 inch. UL-1277 600V tray cable.
YR29281	600V Data Highway Cable — UL Type TC/DIR BUR A direct burial version DataTray cable designed for use in industrial applications. Cable can occupy same tray or conduit as 600V power cables. See Allen-Bradley Installation guide for spacing and ampacity limitations.	1-pair, #18 AWG stranded tinned copper, (blue, white) Beldfoil + 55% tinned copper braid and drain wire, Blue PVC jacket. Nominal diameter: 0.315 inch. UL-1277 600V tray cable.
YR41104 	Low Smoke, Zero Halogen Cable For applications concerned with smoke emissions, toxicity and electronic component corrosion.	1-pair #20 (7 x 28) AWG tinned copper, polyethylene insulation, (blue, clear) Beldfoil + 55% tinned copper braid and drain wire, Blue Haloarrest™ I jacket. Nominal diameter: 0.259 inch.

All copper cables listed above meet or exceed electrical characteristics of Allen-Bradley Cat. No. 1770-CD.
 ° Allen-Bradley Company trademark.



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2 Wire Annunciator Interconnect Cable

Katolight Corporation recommends the following cable specifications for **2 Wire Annunciator** applications.

Specifications:

Twinaxial Shielded Computer Cable

Nominal Outside Diameter .243 in 6.17 mm
Nominal Impedance (ohms) 78
9.5 ohms/1000 ft 31.0 ohms/1000 m
Nominal Capacitance 19.7 pF/ft 64.6 pF/m
AWG 20, Stranding 7 x 28
Conductor Diameter .038" Tinned Copper
Polyethylene Insulation
300V 80°
UL 2464

For recommended cable with these specifications, please contact the our Service Department at 507-625-7973.