

3M™ Round Conductor Round Cable for CC-Link

20 AWG, Stranded, PE Insulation, Shielded, PVC Jacket, High Flex

79100 Series



- Designed for factory automation applications
- Conforms to CC-Link Ver 1.10
- Recommended for use with 3M™ Power Clamp Plug and socket connectors
- 0.50 mm² [20 AWG] conductor wire permits IDC termination
- High flex cable
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnector.com for compliance information. (RIA E1 & C1 apply)

Date Modified: July 22, 2010

TS-2324-C
Sheet 1 of 2


Physical

Jacket Material: Oil Resistant Polyvinyl Chloride (PVC) 0.8 mm nominal thickness

Color: Dark Brown

Insulator Material: PE (Polyethylene)

Color: Yellow, White, Blue

Marking: 3M Cable 79100-110SBZ-5 0.5 mm² x 3 for CC-Link Ver. 1.10 Max. Trans. Length 50%
3M Cable E42769-K  AWM Style 20276 80C 30V VW-1 FT1 **
(* ** production date code)

Conductors:

Primary: 0.50 mm² [20 AWG] x 3, 3/33 strands x 0.08 mm, Stranded Copper

Shield:

Braid: Tinned copper braid over paper tape

Mating Connectors: Power Clamp, 35505-6000-BOM GF, TS-2273

Power Clamp, 35805-6000-BOM GF, 35805-6000-BPM GF, TS-2285

Electrical

Voltage Rating: UL: 30 V AWM: 30 V

Insulation Resistance: >1 x 10¹⁰ Ω / 10 ft [3 m]

Withstand Voltage: 1,500 V_{AC} for one minute

	Unbalanced Tested	Balanced Tested	Balanced-Specification
Characteristic Impedance:	87.25 Ω	116.3 Ω@1MHz 112.6 Ω@5MHz	110±15Ω @1MHz 110±6Ω @5MHz
Capacitance:	60.9nF/km(18.6pF/ft)@1MHz	48.0nF/km(14.7pF/ft)@1kHz	<60nF/km (18.3pF/ft)@1kHz
Inductance:	0.14 uH/ft (0.46uH/m)	0.19 uH/ft (0.64uH/m)	
Propagation Delay:	1.62 ns/ft (5.30ns/m)	1.62 ns/ft (5.30ns/m)	
Velocity of Propagation:	62.79%	62.86%	

Note: Unbalanced is measured between ground signal – ground conductors. Balanced is measured between conductors within a pair.

Environmental

Temperature Rating: 80°C Max

Flammability Rating: VW-1 (UL) FT1 (CSA)

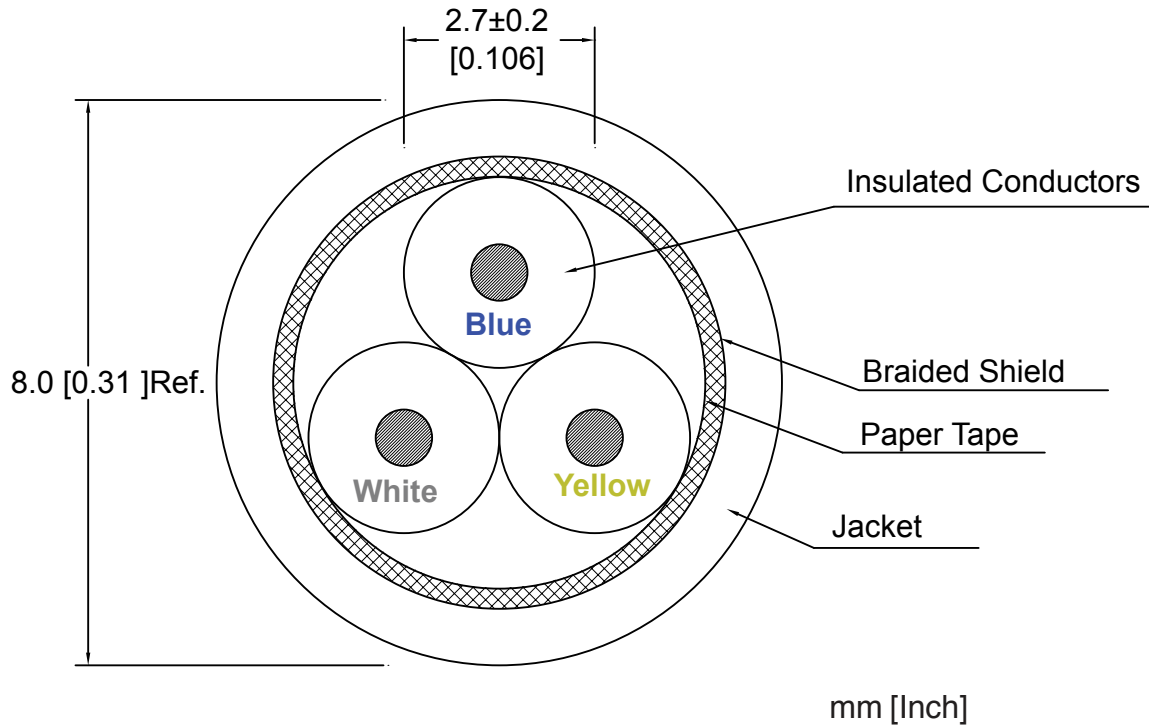
UL File No. E42769-K

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Product Dimensions



Ordering Information

79100 - 110SBZ

Note: Available in standard 200 meter rolls, please specify length when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TS-2324-C
Sheet 2 of 2

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