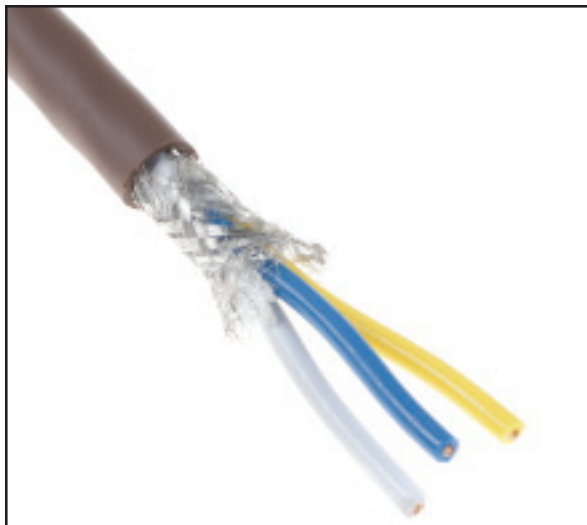


3M™ Round Conductor Round Cable for CC-Link

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)

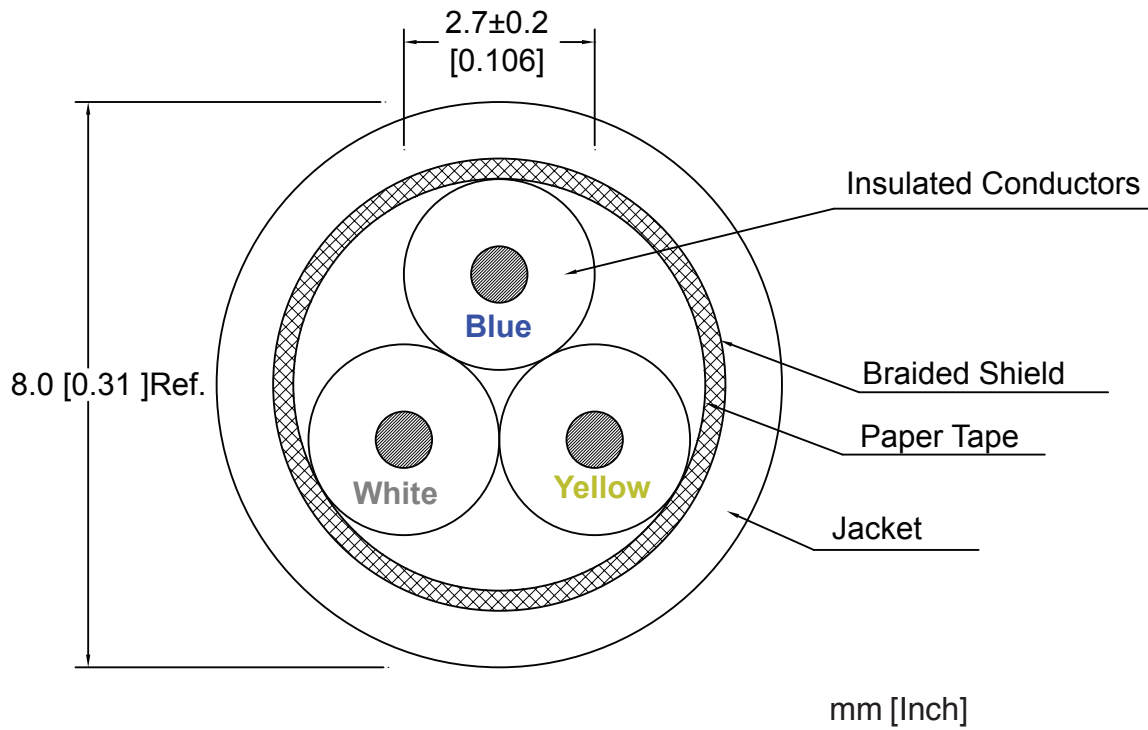
UL File No. E42769-K

3M™ Round Conductor Round Cable for CC-Link

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

79100 Series

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

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

**3M Electronics Solutions Division**

6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3Mconnector.com

Please recycle. Printed in USA.
© 3M 2010. All rights reserved.
RIA-2217B-E

3M is a trademark of 3M Company.