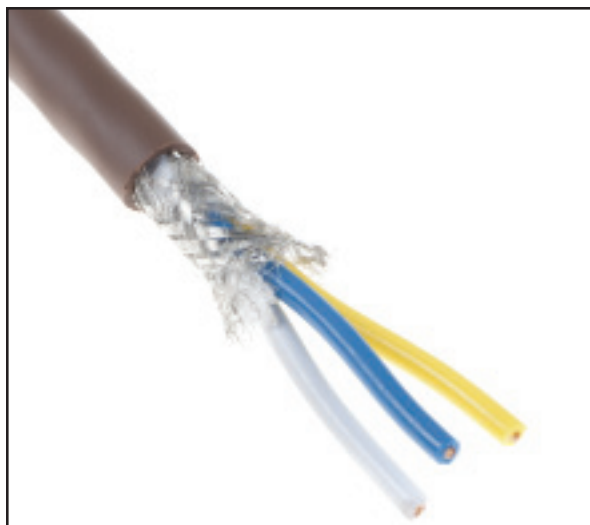


# 3M™ Round Conductor Round Cable for CC-Link

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 mm<sup>2</sup> [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](http://www.3Mconnector.com) for compliance information. (RIA E1 & C1 apply)

Date Modified: July 22, 2010

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## 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 mm<sup>2</sup> 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 mm<sup>2</sup> [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 10<sup>10</sup> Ω / 10 ft [3 m]

**Withstand Voltage:** 1,500 V<sub>AC</sub> for one minute

### Unbalanced Tested

**Characteristic Impedance:** 87.25 Ω

**Capacitance:** 60.9nF/km(18.6pF/ft)@1MHz

**Inductance:** 0.14 uH/ft (0.46uH/m)

**Propagation Delay:** 1.62 ns/ft (5.30ns/m)

**Velocity of Propagation:** 62.79%

### Balanced Tested

116.3 Ω@1MHz

112.6 Ω@5MHz

48.0nF/km(14.7pF/ft)@1kHz

0.19 uH/ft (0.64uH/m)

1.62 ns/ft (5.30ns/m)

62.86%

### Balanced-Specification

110±15Ω @1MHz

110±6Ω @5MHz

<60nF/km (18.3pF/ft)@1kHz

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**

**Interconnect Solutions**

<http://www.3Mconnector.com>

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For technical, sales or ordering information call

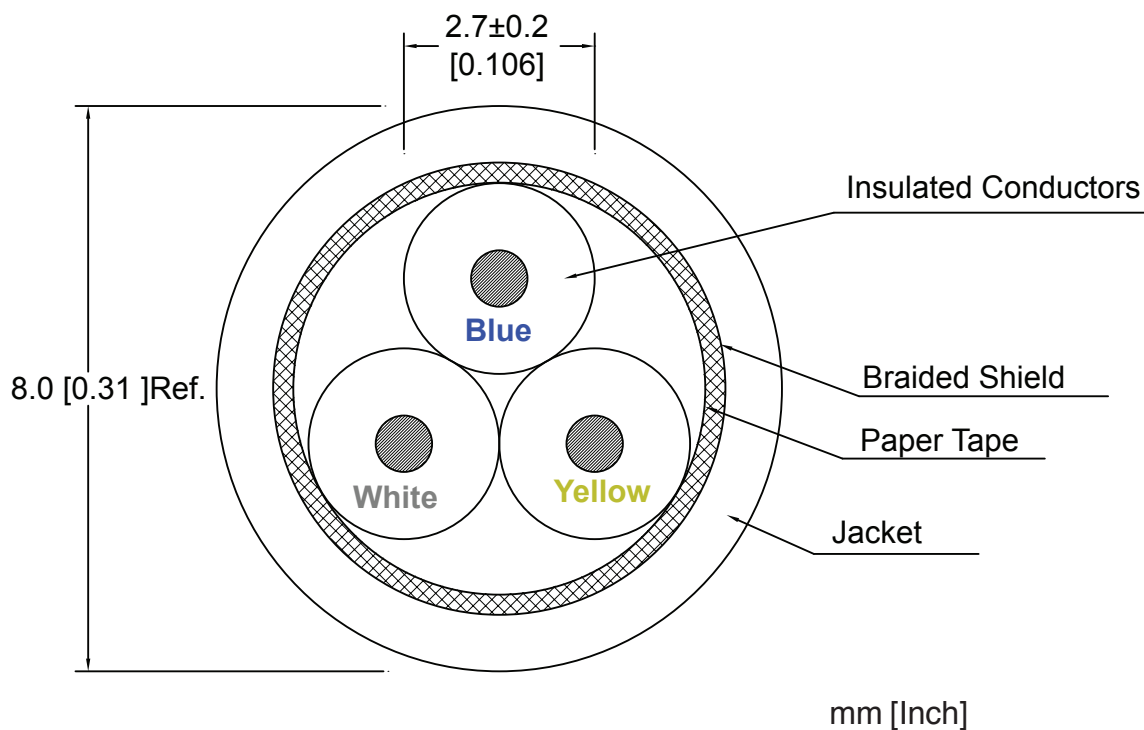
**800-225-5373**

# 3M™ Round Conductor Round Cable for CC-Link

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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.

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Sheet 2 of 2

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