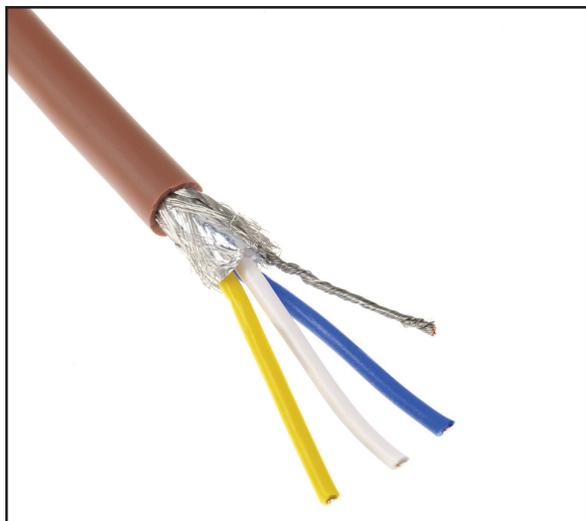


# 3M™ Round Conductor Round Cable for CC-Link

20 AWG, Stranded, PE Insulation, Shielded, Drain Wire, PVC Jacket

79100 Series



- Designed for factory automation applications
- Conforms to CC-Link Ver 1.10
- Recommended for use with 3M™ Power Clamp Connectors 35505-6000-BOM GF
- 0.50 mm<sup>2</sup> [20 AWG] conductor wire permits IDC termination
- Drain wire allows easy grounding of shield
- 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

TS-2321-C  
Sheet 1 of 2

## Physical

**Jacket Material:** Oil Resistant Polyvinyl Chloride (PVC) 0.85 mm nominal thickness

Color: Brown

**Insulator Material:** PE (Foamed Polyethylene)

Color: Yellow, White, Blue

**Marking:** 3M™ Cable 79100-110SBH 0.5 mm<sup>2</sup> x 3 for CC-Link Ver. 1.10

3M™ Cable E42769-K AWM Style 20276 I A 80C 30V VW-1 FT1

**Conductors:**

Primary: 0.50 mm<sup>2</sup> [20 AWG] x 3, 7 strands x 0.32 mm, Stranded Copper

Drain Wire: 24 x 0.18 mm, Tinned Copper

**Shield:**

Foil: Aluminum-polyester laminate tape

Braid: Tinned Copper Braid

**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

**Characteristic Impedance:** 90.83 Ω

**Capacitance:** 47.3nF/km(14.4pF/ft)@1MHz

**Inductance:** 0.12 uH/ft (0.39uH/m)

**Propagation Delay:** 1.31 ns/ft (4.30ns/m)

**Velocity of Propagation:** 77.47%

**Unbalanced Tested**

114.2 Ω@1MHz

111.4 Ω@5MHz

38.6nF/km(11.8pF/ft)@1kHz

0.16 uH/ft (0.54uH/m)

1.31 ns/ft (4.30ns/m)

77.59%

**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)

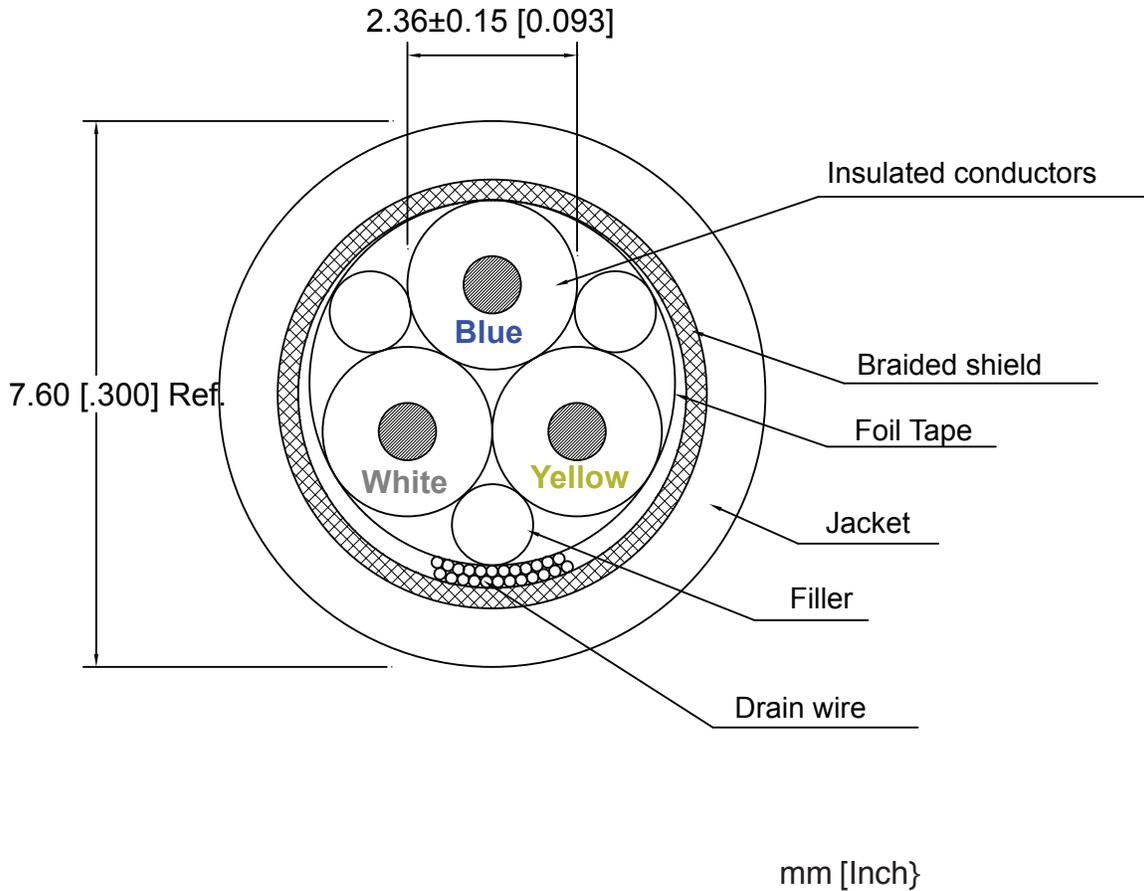
UL File No. E42769-K

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

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79100 Series

## Product Dimensions



## Ordering Information

79100 - 110SBH

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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