

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

18 AWG Stranded, ETFE / PVC

79100 Series



- Designed for factory automation applications
- Conforms to CC-Link/LT
- Recommended for use with 3M™ Link Connectors
- 18 AWG [0.75 mm<sup>2</sup>] conductor wire permits IDC termination
- 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) 1.0 mm nominal thickness

Color: Black

**Insulator Material:** ETFE (Fluorocarbon polymer)

Color: Black, Red, White, Green

**Marking:** 3M™ Cable 79100-075-4ZLT 0.75 mm<sup>2</sup> x 4 for CC-Link/LT

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

**Conductors:**

Description: 0.75 mm<sup>2</sup> [18 AWG], 7 strands x 0.08 mm [22 AWG], Tinned Stranded Copper

**Mating Connectors:** Link Connector, 38104-F018-F00 FL, 38104-B018-B0M FL, TS-2098

## 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**

**Balanced Tested**

**Balanced-Specification**

**Characteristic Impedance:** 53.49 Ω

79.8 Ω@1MHz

90±30Ω @1MHz

79.1 Ω@5MHz

90±30Ω @5MHz

**Capacitance:** 106nF/km(32pF/ft)@1MHz

88.0nF/km(26.8pF/ft)@1kHz

**Inductance:** 0.09 uH/ft (0.30uH/m)

0.14 uH/ft (0.45uH/m)

**Propagation Delay:** 1.74 ns/ft (5.70ns/m)

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**Velocity of Propagation:** 58.52%

58.74%

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)

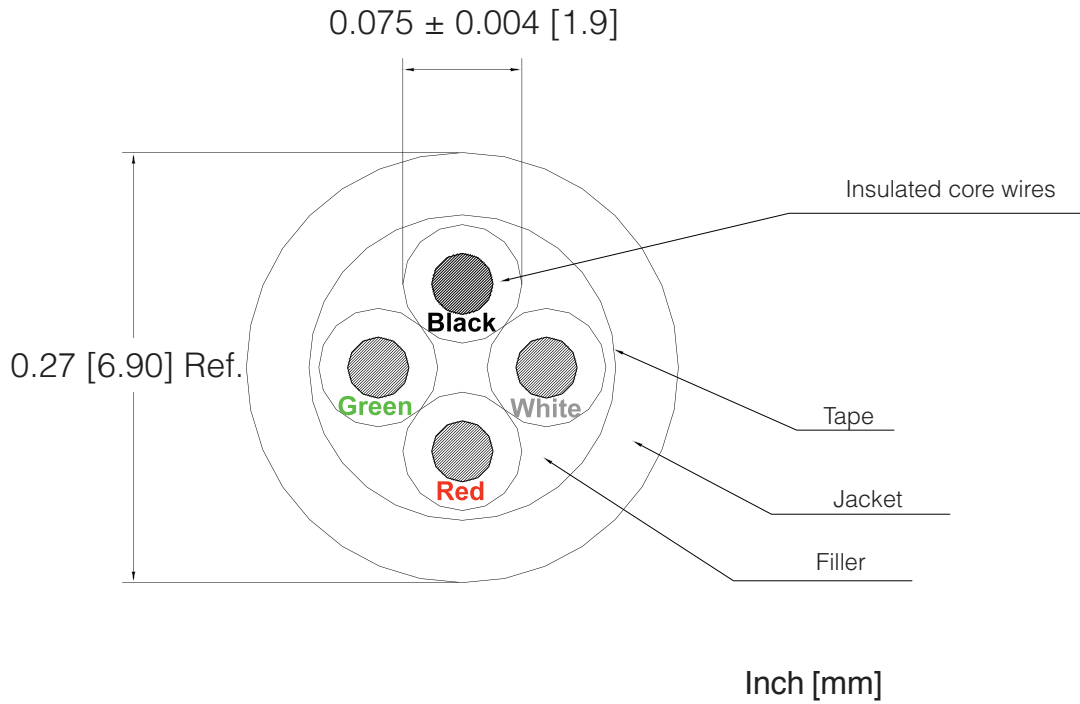
UL File No. E42769-K

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## Product Dimensions



## Ordering Information

**79100 - 075 - 4ZLT**

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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RIA-2217B-E

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