

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 mm²] conductor wire permits IDC termination
- 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

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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 mm² x 4 for CC-Link/LT

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

Conductors:

Description: 0.75 mm² [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 10¹⁰ Ω / 10 ft [3 m]

Withstand Voltage: 1,500 V_{AC} 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)

1.74 ns/ft (5.70ns/m)

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)

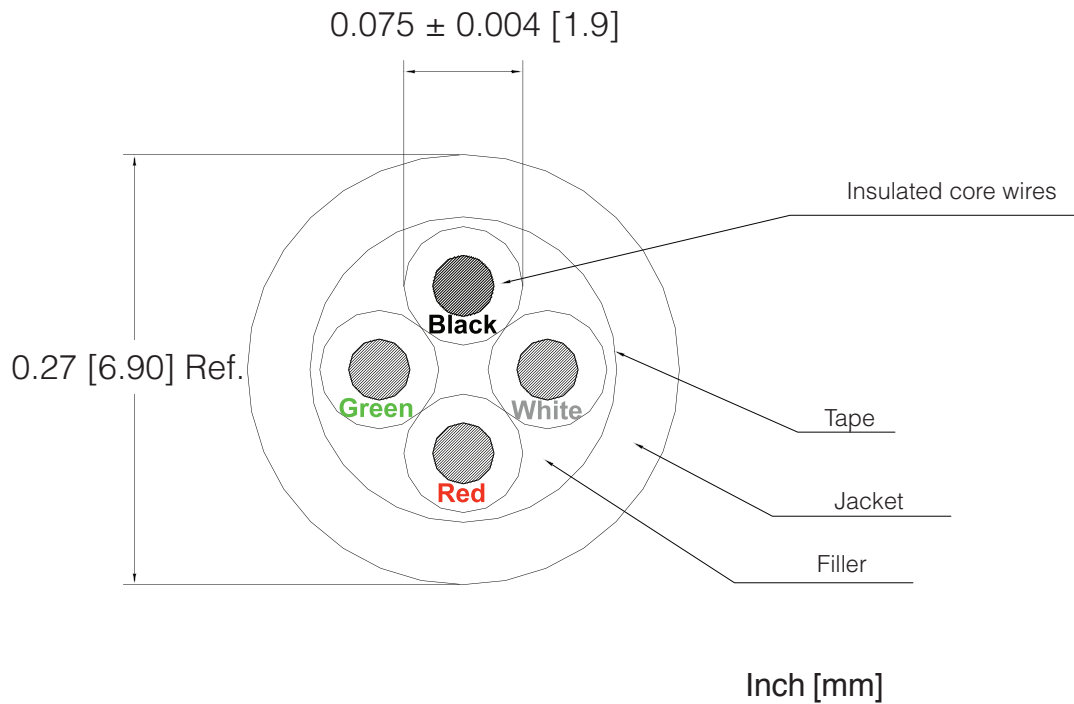
UL File No. E42769-K

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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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