

# 3M™ Round Conductor Flat Cable for Link Connector

0.100", 19 AWG Stranded, PVC

79100 Series



- Designed for factory automation applications
- Recommended for use with 3M™ Link Connectors
- 19 AWG [0.75 mm<sup>2</sup>] on 0.100" [2.54 mm] centers 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

### Insulation:

Material: Heat Resistant Polyvinyl Chloride (PVC)

Color: Black, Red, White, Green

**Marking:** 3M Cable 79100-075-4F1 0.75 mm<sup>2</sup> x 4  
E118773-K (UL) CL2 4C19AWG 90C \*\*  
(\* \*\* indicates production lot code)

### Conductors:

Description: 0.75 mm<sup>2</sup> [19 AWG], 30 strands x 0.18 mm [33 AWG], Tinned Stranded Copper

**Mating Connectors:** Link Connector, 38104-0018-000 FL, TS-2098

## Electrical

**Voltage Rating:** CL2 (UL 13)

**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

**Characteristic Impedance:** 67.36 Ω

**Capacitance @1 MHz:** 23.64 pF/ft (77.56pF/m)

**Inductance:** 0.11 uH/ft (0.35uH/m)

**Propagation Delay:** 1.59 ns/ft (5.22ns/m)

**Velocity of Propagation:** 63.80%

### Balanced

114.24 Ω

13.49 pF/ft (44.27pF/m)

0.18 uH/ft (0.58uH/m)

1.54 ns/ft (5.06ns/m)

65.90%

Note: Unbalanced is measured between ground signal – ground conductors. Balanced is measured between conductors within a pair.

## Environmental

**Temperature Rating:** CL2, 90°C Max

**Flammability Rating:** CL2 (UL 13)

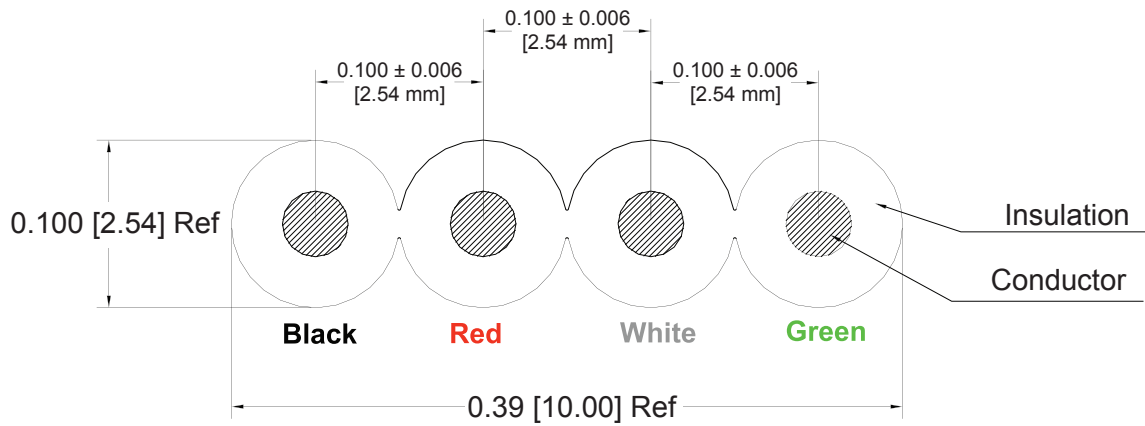
UL File No. E118773-K

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## Product Dimensions



Inch [mm]

## Ordering Information

**79100 - 075 - 4F1**

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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**3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnector.com](http://www.3Mconnector.com)

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