3M™ Round Conductor Flat Cable for Link Connector
0.100", 19 AWG Stranded, PVC

• Designed for factory automation applications
• Recommended for use with 3M™ Link Connectors
• 19 AWG [0.75 mm²] 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 for compliance information. (RIA E1 & C1 apply)

Date Modified: July 22, 2010  TS-2323-C
Sheet 1 of 2

Physical

Insulation:
Material: Heat Resistant Polyvinyl Chloride (PVC)
Color: Black, Red, White, Green
Marking: 3M Cable 79100-075-4F1 0.75 mm² x 4
         E118773-K (UL) CL2 4C19AWG 90C **
         (** indicates production lot code)

Conductors:
Description: 0.75 mm² [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 10¹⁰ Ω / 10 ft [3 m]
Withstand Voltage: 1,500 Vₘₐₓ for one minute

<table>
<thead>
<tr>
<th></th>
<th>Unbalanced</th>
<th>Balanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristic Impedance</td>
<td>67.36 Ω</td>
<td>114.24 Ω</td>
</tr>
<tr>
<td>Capacitance @ 1 MHz</td>
<td>23.64 pF/ft (77.56pF/m)</td>
<td>13.49 pF/ft (44.27pF/m)</td>
</tr>
<tr>
<td>Inductance</td>
<td>0.11 uH/ft (0.35uH/m)</td>
<td>0.18 uH/ft (0.58uH/m)</td>
</tr>
<tr>
<td>Propagation Delay</td>
<td>1.59 ns/ft (5.22ns/m)</td>
<td>1.54 ns/ft (5.06ns/m)</td>
</tr>
<tr>
<td>Velocity of Propagation</td>
<td>63.80%</td>
<td>65.90%</td>
</tr>
</tbody>
</table>

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

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

3M Interconnect Solutions
http://www.3Mconnector.com
Product Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>0.100 ± 0.006</td>
</tr>
<tr>
<td>Insulation</td>
<td>0.100 ± 0.006</td>
</tr>
<tr>
<td>Product Diameter</td>
<td>0.39 [10.00]</td>
</tr>
</tbody>
</table>

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.
Important Notice

All statements, technical information, and recommendations related to 3M’s products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M’s current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M’s option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

3M Electronics Solutions Division
6801 River Place Blvd.
Austin, TX  78726-9000
U.S.A.
1-800-225-5373
www.3Mconnector.com

© 3M 2010. All rights reserved.

3M is a trademark of 3M Company.