General Description:
1 pair 18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, polyolefin filler, Beldfoil® shield (100% coverage), tinned copper drain wire, binder, PVC jacket. Fieldbus Foundation Registered Product.

Physical Characteristics (Overall)

Conductor

<table>
<thead>
<tr>
<th># Pairs</th>
<th>AWG</th>
<th>Stranding</th>
<th>Conductor Material</th>
<th>Dia. (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>18</td>
<td>7x26</td>
<td>TC - Tinned Copper</td>
<td>0.046</td>
</tr>
</tbody>
</table>

Total Number of Conductors: 2

Insulation

Insulation Material:
- PO - Polyolefin

Outer Shield

Outer Shield Material:
- Beldfoil® Tape | Aluminum Foil-Polyester Tape | 100%

Outer Shield Drain Wire AWG:
- AWG 20 | 7x28 | TC - Tinned Copper

Outer Jacket

Outer Jacket Material:
- PVC - Polyvinyl Chloride

Outer Jacket Diameter:
- Nom. Dia. (in.) 0.280

Overall Cable

Overall Cabling Fillers: Polypropylene

Overall Cabling Lay Length & Direction:
- Length (in.) 2.250
- Twists (twist/ft) 5.300

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C to +105°C
UL Temperature Rating: 105°C
Bulk Cable Weight: 38 lbs/1000 ft.
Max. Recommended Pulling Tension: 60 lbs.
Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

<table>
<thead>
<tr>
<th>NEC/(UL) Specification</th>
<th>CM, CMX-Outdoor, PLTC-ER</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEC Articles:</td>
<td>725, 727, 800</td>
</tr>
<tr>
<td>CEC/(UL) Specification:</td>
<td>CMG</td>
</tr>
<tr>
<td>EU Directive 2011/65/EU (ROHS II):</td>
<td>Yes</td>
</tr>
<tr>
<td>EU CE Mark:</td>
<td>Yes</td>
</tr>
</tbody>
</table>
3076F  Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

EU Directive 2002/95/EC (RoHS): Yes
EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004
EU Directive 2002/96/EC (WEEE): Yes
CA Prop 65 (CJ for Wire & Cable): Yes
MII Order #39 (China RoHS): Yes
Other Specification: ITC-ER

Flame Test
UL Flame Test: UL1666 Riser
C(UL) Flame Test: FT4
IEEE Flame Test: 1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)

Suitability
Suitability - Indoor: Yes
Suitability - Outdoor: Yes
Suitability - Burial: Yes - UL
Sunlight Resistance: Yes
Oil Resistance: Yes

Plenum/Non-Plenum
Plenum (Y/N): No

Electrical Characteristics (Overall)

<table>
<thead>
<tr>
<th>Freq. (MHz)</th>
<th>Impedance (Ohm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.031</td>
<td>100.000</td>
</tr>
</tbody>
</table>

Nom. Inductance:
Inductance (µH/ft)
19

Nom. Capacitance Conductor to Shield:
Capacitance (pF/ft)
45.0

Nom. Mutual Capacitance:
Capacitance (pF/ft)
24.0

Maximum Capacitance Unbalance:
Capacitance (pF/ft)
1.200

Nominal Velocity of Propagation:
VP (%) 66

Nom. Conductor DC Resistance:
DCR @ 20°C (Ohm/1000 ft)
5.86

Nominal Outer Shield DC Resistance:
DCR @ 20°C (Ohm/1000 ft)
7.500

Nom. Attenuation:
Freq. (MHz) Attenuation (dB/100 ft.)
0.039 0.080

Max. Attenuation:
<table>
<thead>
<tr>
<th>()</th>
<th>Freq. (MHz)</th>
<th>Attenuation (dB/100 ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.091</td>
<td>0.039</td>
<td>0.091</td>
</tr>
</tbody>
</table>

Max. Operating Voltage - UL:
Voltage 300 V RMS
Max. Recommended Current: Description  Current
Per Conductor: 5.2 Amps

Other Electrical Characteristic 1: Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft

Other Electrical Characteristic 2: 31.25 KBits/sec

Notes (Overall):

Notes: Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010

Related Documents:

FieldbusCertificate-3076F.pdf - This is a Foundation H1 Cable Registration Certification for 3076F.

Put Ups and Colors:

<table>
<thead>
<tr>
<th>Item #</th>
<th>Putup</th>
<th>Ship Weight</th>
<th>Color</th>
<th>Notes</th>
<th>Item Desc</th>
</tr>
</thead>
<tbody>
<tr>
<td>3076F 0031000</td>
<td>1,000 FT</td>
<td>48.000 LB</td>
<td>ORANGE</td>
<td>C</td>
<td>TW PR #18 PP FS PVC</td>
</tr>
<tr>
<td>3076F 00310000</td>
<td>10,000 FT</td>
<td>510.000 LB</td>
<td>ORANGE</td>
<td>C N</td>
<td>TW PR #18 PP FS PVC</td>
</tr>
<tr>
<td>3076F 003250</td>
<td>250 FT</td>
<td>14.000 LB</td>
<td>ORANGE</td>
<td>C</td>
<td>TW PR #18 PP FS PVC</td>
</tr>
<tr>
<td>3076F 0032500</td>
<td>2,500 FT</td>
<td>120.000 LB</td>
<td>ORANGE</td>
<td>C</td>
<td>TW PR #18 PP FS PVC</td>
</tr>
<tr>
<td>3076F 003500</td>
<td>500 FT</td>
<td>25.500 LB</td>
<td>ORANGE</td>
<td>C</td>
<td>TW PR #18 PP FS PVC</td>
</tr>
<tr>
<td>3076F 0035000</td>
<td>5,000 FT</td>
<td>240.000 LB</td>
<td>ORANGE</td>
<td>C N</td>
<td>TW PR #18 PP FS PVC</td>
</tr>
<tr>
<td>3076F 0061000</td>
<td>1,000 FT</td>
<td>48.000 LB</td>
<td>BLUE, LIGHT</td>
<td>C</td>
<td>TW PR #18 PP FS PVC</td>
</tr>
</tbody>
</table>

Notes:
C = CRATE REEL PUT-UP.
N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 7   Revision Date: 06-18-2014

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