General Description:
22 AWG stranded (19x34) tinned copper conductors, Datalene® insulation, Duofoil® (100% Coverage) plus a stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

<table>
<thead>
<tr>
<th>Conductor</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AWG:</strong></td>
<td></td>
</tr>
<tr>
<td># Pairs</td>
<td>AWG</td>
</tr>
<tr>
<td>1</td>
<td>22</td>
</tr>
<tr>
<td>Total Number of Conductors:</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insulation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Insulation Material:</strong></td>
<td></td>
</tr>
<tr>
<td>Insulation Trade Name</td>
<td>Insulation Material</td>
</tr>
<tr>
<td>Datalene®</td>
<td>FHDPE - Foam High Density Polyethylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outer Shield</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outer Shield Material:</strong></td>
<td></td>
</tr>
<tr>
<td>Outer Shield Trade Name</td>
<td>Type</td>
</tr>
<tr>
<td>Duofoil®</td>
<td>Tape</td>
</tr>
<tr>
<td>Outer Shield Drain Wire AWG:</td>
<td></td>
</tr>
<tr>
<td><strong>AWG - Stranding - Drain Wire Conductor Material</strong></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>19x34</td>
</tr>
<tr>
<td>Outer Shield Drain Wire Diameter:</td>
<td>.031</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outer Jacket</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outer Jacket Material:</strong></td>
<td></td>
</tr>
<tr>
<td>Outer Jacket Material</td>
<td></td>
</tr>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overall Cable</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall Nominal Diameter:</strong></td>
<td>0.345 in.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pair</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pair Color Code Chart:</strong></td>
<td></td>
</tr>
<tr>
<td>Number</td>
<td>Color</td>
</tr>
<tr>
<td>1</td>
<td>Black &amp; Yellow</td>
</tr>
<tr>
<td>Pair Lay Length &amp; Direction:</td>
<td></td>
</tr>
<tr>
<td>Lay Length (in.)</td>
<td>Lay Length</td>
</tr>
<tr>
<td>3.0</td>
<td>4</td>
</tr>
</tbody>
</table>

Mechanical Characteristics (Overall)

| Operating Temperature Range: | -20°C To +60°C |
| Bulk Cable Weight: | 41 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 28 lbs. |
| Min. Bend Radius/Minor Axis: | 3.500 in. |

Applicable Specifications and Agency Compliance (Overall)

<table>
<thead>
<tr>
<th>Applicable Standards &amp; Environmental Programs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NEC/UL Specification:</td>
<td>CL2X, CMX</td>
</tr>
<tr>
<td>CEC/C(UL) Specification:</td>
<td>CMX</td>
</tr>
<tr>
<td>AWM Specification:</td>
<td>UL Style 2668 (30 V 60°C)</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>
## Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

### 9182 Twinax - Twinaxial 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 |

#### Flame Test
- UL Flame Test: VW-1

#### Suitability
- Suitability - Indoor: Yes

#### Plenum/Non-Plenum
- Plenum (YN): No
- Plenum Number: 89182

#### Electrical Characteristics (Overall)

<table>
<thead>
<tr>
<th>Nom. Characteristic Impedance:</th>
<th>Impedance (Ohm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nom. Inductance:</th>
<th>Inductance (µH/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inductance</td>
<td>0.283</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nom. Capacitance Conductor to Conductor:</th>
<th>Capacitance (pF/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacitance</td>
<td>6.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nom. Capacitance Cond. to Other Conductor &amp; Shield:</th>
<th>Capacitance (pF/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacitance</td>
<td>16.5</td>
</tr>
</tbody>
</table>

#### Nominal Velocity of Propagation:
- VP (%): 78

#### Nominal Delay:
- Delay (ns/ft): 1.3

<table>
<thead>
<tr>
<th>Nom. Conductor DC Resistance:</th>
<th>DCR @ 20°C (Ohm/1000 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCR</td>
<td>17.750</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal Outer Shield DC Resistance:</th>
<th>DCR @ 20°C (Ohm/1000 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCR</td>
<td>17.750</td>
</tr>
</tbody>
</table>

#### Nom. Attenuation:

<table>
<thead>
<tr>
<th>Freq. (MHz)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.4</td>
</tr>
<tr>
<td>10</td>
<td>1.2</td>
</tr>
<tr>
<td>50</td>
<td>2.7</td>
</tr>
<tr>
<td>100</td>
<td>4.3</td>
</tr>
<tr>
<td>200</td>
<td>6.2</td>
</tr>
<tr>
<td>400</td>
<td>8.8</td>
</tr>
</tbody>
</table>

#### Max. Operating Voltage - UL:
- 300 V RMS (CMX)
- 30 V RMS (UL AWM Style 2668)
- 150 V RMS (CL2X)

#### 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>9182 0100500</td>
<td>500 FT</td>
<td>21.500 LB</td>
<td>BLACK</td>
<td></td>
<td>2 #22 FHDPE SHLD PVC</td>
</tr>
<tr>
<td>9182 0101000</td>
<td>1,000 FT</td>
<td>44.000 LB</td>
<td>BLACK</td>
<td>C</td>
<td>2 #22 FHDPE SHLD PVC</td>
</tr>
<tr>
<td>9182 0105000</td>
<td>500 FT</td>
<td>23.000 LB</td>
<td>BLACK</td>
<td>C</td>
<td>2 #22 FHDPE SHLD PVC</td>
</tr>
<tr>
<td>9182 0105000</td>
<td>5,000 FT</td>
<td>240.000 LB</td>
<td>BLACK</td>
<td>C</td>
<td>2 #22 FHDPE SHLD PVC</td>
</tr>
</tbody>
</table>
Notes:
C = CRATE REEL PUT-UP.

Revision Number: 3  Revision Date: 08-16-2012

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