**General Description:**
24 AWG stranded (7x32) TC conductor, Datalene® insulation, pairs individually shielded with bonded Beldfoil® with a drain wire and have numbered and color-coded PVC jackets, overall Beldfoil® shield/drain wire + overall PVC jacket w/nylon rip cord.

**Physical Characteristics (Overall)**

<table>
<thead>
<tr>
<th>Conductor</th>
<th>AWG:</th>
</tr>
</thead>
<tbody>
<tr>
<td># Pairs</td>
<td>AWG</td>
</tr>
<tr>
<td>4</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Number of Conductors: 8

<table>
<thead>
<tr>
<th>Insulation</th>
<th>Insulation Material:</th>
</tr>
</thead>
<tbody>
<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>Inner Shield</th>
<th>Inner Shield Material:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Shield Trade Name</td>
<td>Type</td>
</tr>
<tr>
<td>Beldfoil®</td>
<td>Tape</td>
</tr>
</tbody>
</table>

Inner Shield Drain Wire AWG:

<table>
<thead>
<tr>
<th>AWG</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Inner Shield Drain Wire Stranding: Stranded
Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

<table>
<thead>
<tr>
<th>Inner Jacket</th>
<th>Inner Jacket Material:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Jacket Material</td>
<td>Nom. Dia. (in.)</td>
</tr>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td>.167</td>
</tr>
</tbody>
</table>

<p>| Inner Jacket Color Code Chart: |</p>
<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brown and Numbered 1</td>
</tr>
<tr>
<td>2</td>
<td>Red and Numbered 2</td>
</tr>
<tr>
<td>3</td>
<td>Orange and Numbered 3</td>
</tr>
<tr>
<td>4</td>
<td>Yellow and Numbered 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outer Shield</th>
<th>Outer Shield Material:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Shield Trade Name</td>
<td>Type</td>
</tr>
<tr>
<td>Beldfoil®</td>
<td>Tape</td>
</tr>
</tbody>
</table>

Outer Shield Drain Wire AWG:

<table>
<thead>
<tr>
<th>AWG</th>
<th>Stranding</th>
<th>Drain Wire Conductor Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Stranded</td>
<td>TC - Tinned Copper</td>
</tr>
</tbody>
</table>

| Outer Jacket | Outer Jacket Material: |
**Outer Jacket Material**
PVC - Polyvinyl Chloride

**Outer Jacket Ripcord:** Yes

**Overall Cable**
Overall Nominal Diameter: 0.488 in.

**Pair**
Pair Color Code Chart:

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red &amp; Black</td>
</tr>
<tr>
<td>2</td>
<td>Red &amp; Black</td>
</tr>
<tr>
<td>3</td>
<td>Red &amp; Black</td>
</tr>
<tr>
<td>4</td>
<td>Red &amp; Black</td>
</tr>
</tbody>
</table>

**Mechanical Characteristics (Overall)**

- **Operating Temperature Range:** -30°C To +60°C
- **UL Temperature Rating:** 60°C
- **Bulk Cable Weight:** 100 lbs/1000 ft.
- **Max. Recommended Pulling Tension:** 82.500 lbs.
- **Min. Bend Radius/Minor Axis:** 5 in.

**Applicable Specifications and Agency Compliance (Overall)**

**Applicable Standards & Environmental Programs**

- NEC/(UL) Specification: CMG
- CEC/C(UL) Specification: CMG
- EU Directive 2011/65/EU (ROHS II): Yes
- EU CE Mark: Yes
- EU Directive 2002/95/EC (RoHS): Yes
- EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004
- CA Prop 65 (CJ for Wire & Cable): Yes
- MIL Order #39 (China RoHS): Yes
- Other Specification: AES/EBU

**Flame Test**

- UL Flame Test: UL1685 FT4 Loading
- C(UL) Flame Test: FT4

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

**Electrical Characteristics (Overall)**

- **Nom. Characteristic Impedance:**
  - Impedance (Ohm):
    - 110
- **Nom. Inductance:**
  - Inductance (µH/ft):
    - .18
- **Nom. Capacitance Conductor to Conductor:**
Capacitance (pF/ft)
12

Nom. Capacitance Cond. to Other Conductor & Shield:
Capacitance (pF/ft)
26

Nominal Velocity of Propagation:
VP (%)
76

Nom. Conductor DC Resistance:
DCR @ 20°C (Ohm/1000 ft)
23.7

Nom. Attenuation:
Freq. (MHz)  |  Attenuation (dB/100 ft.)
-------------|-------------------------
0.384        | 0.290                   
0.706        | 0.710                   
0.768        | 0.770                   
1.024        | 0.940                   
1.411        | 1.100                   
1.536        | 1.100                   
2.048        | 1.300                   
2.822        | 1.400                   
3.072        | 1.400                   
4.096        | 1.500                   
5.645        | 1.700                   
6.144        | 1.800                   
8.192        | 2.000                   
11.290       | 2.200                   
12.288       | 2.300                   
24.576       | 3.100                   

Max. Operating Voltage - UL:
Voltage
300 V RMS

Max. Recommended Current:
Current
2.75 Amps per conductor @ 25°C

Notes (Overall)
Notes: Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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>1803F B591000</td>
<td>1,000</td>
<td>111,000 LB</td>
<td>BLACK, MATTE</td>
<td></td>
<td>4 #24 FHDPE FS PR PVC FS PVC</td>
</tr>
<tr>
<td>1803F Z4B1000</td>
<td>1,000</td>
<td>111,000 LB</td>
<td>VI0 Z4B</td>
<td>C</td>
<td>4 #24 FHDPE FS PR PVC FS PVC</td>
</tr>
<tr>
<td>1803F Z4B500</td>
<td>500</td>
<td>57,500 LB</td>
<td>VI0 Z4B</td>
<td>C</td>
<td>4 #24 FHDPE FS PR PVC FS PVC</td>
</tr>
<tr>
<td>1803F Z4B5000</td>
<td>5,000</td>
<td>565,000 LB</td>
<td>VI0 Z4B</td>
<td></td>
<td>4 #24 FHDPE FS PR PVC FS PVC</td>
</tr>
</tbody>
</table>

Notes:
C = CRATE REEL PUT-UP.
1803F Multi-Conductor - Multi-Pair Snake Cable

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