9873 Multi-Conductor - Audio, Control and Instrumentation Cable

General Description:
20 AWG stranded (7x28) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, overall PVC jacket.

Physical Characteristics (Overall)

Conductor

<table>
<thead>
<tr>
<th># Pairs</th>
<th>AWG</th>
<th>Stranding</th>
<th>Conductor Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>20</td>
<td>7x28</td>
<td>TC - Tinned Copper</td>
</tr>
</tbody>
</table>

Total Number of Conductors: 6

Insulation

Insulation Material:
- PP - Polypropylene (0.015 in.)

Inner Shield

Inner Shield Material:
- Beldfoil® (Z-Fold®) Tape
  - Aluminum Foil-Polyester Tape
  - Coverage (%): 100

Inner Shield Drain Wire AWG:
- 22

Inner Shield Drain Wire Stranding:
- 19x34

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

Outer Jacket

Outer Jacket Material:
- PVC - Polyvinyl Chloride (0.035 in.)

Overall Cable

Overall Nominal Diameter: 0.341 in.

Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

<table>
<thead>
<tr>
<th>Lay Length (in.)</th>
<th>Twists (twist/ft)</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.750</td>
<td>6.900</td>
<td>Left Hand</td>
</tr>
</tbody>
</table>

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2919)

Bulk Cable Weight: 57 lbs/1000 ft.

Max. Recommended Pulling Tension: 106 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

<table>
<thead>
<tr>
<th>NEC/(UL) Specification</th>
<th>NEC Articles</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM</td>
<td>800</td>
</tr>
</tbody>
</table>
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### Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

- **Impedance (Ohm):** 50

**Nom. Inductance:**

- **Inductance (µH/ft):** 0.18

**Nom. Capacitance Conductor to Conductor:**

- **Capacitance (pF/ft):** 30

**Nom. Capacitance Cond. to Other Conductor & Shield:**

- **Capacitance (pF/ft):** 55

**Nominal Velocity of Propagation:**

- **VP (%):** 66

**Nom. Conductor DC Resistance:**

- **DCR @ 20°C (Ohm/1000 ft):** 10.5

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:**

- **14 Ohms/1000 ft**

### Max. Operating Voltage - UL:

- **300 V RMS**
- **30 V RMS**

### Max. Recommended Current:

- **10°C Temperature Rise**
- **2.7 Amps per conductor @ 25°C ambient**

### 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>9873 000100</td>
<td>100 FT</td>
<td>6.600 LB</td>
<td>CHROME</td>
<td></td>
<td>3 FS PR #20 PP PVC</td>
</tr>
<tr>
<td>9873 000500</td>
<td>500 FT</td>
<td>32.000 LB</td>
<td>CHROME</td>
<td></td>
<td>3 FS PR #20 PP PVC</td>
</tr>
<tr>
<td>9873 000750</td>
<td>1,200 FT</td>
<td>60.500 LB</td>
<td>CHROME</td>
<td></td>
<td>3 FS PR #20 PP PVC</td>
</tr>
</tbody>
</table>

**Notes:**

- C = CRATE REEL PUT-UP.
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Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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