8777  Paired  -  Shielded Twisted Pair Cable

For more information please call
1-800-Belden1

See Put-ups and Colors

Related Documents: No. 3 for Paired Cables (Belden Standard).pdf

**Description:**

22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, twisted pairs individually Beldfoil® Shielded (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

<table>
<thead>
<tr>
<th>Number of Pairs</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Conductors</td>
<td>6</td>
</tr>
<tr>
<td>AWG</td>
<td>22</td>
</tr>
<tr>
<td>Stranding</td>
<td>7x30</td>
</tr>
<tr>
<td>Conductor Diameter</td>
<td>.030 in.</td>
</tr>
<tr>
<td>Conductor Material</td>
<td>TC - Tinned Copper</td>
</tr>
</tbody>
</table>

**INSULATION:**

<table>
<thead>
<tr>
<th>Insulation Material</th>
<th>PP - Polypropylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation Diameter</td>
<td>.050 in.</td>
</tr>
<tr>
<td>Lay Length</td>
<td>1.75 in.</td>
</tr>
<tr>
<td>Twists/ft.</td>
<td>6.85</td>
</tr>
</tbody>
</table>

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>

**INNER SHIELD:**

<table>
<thead>
<tr>
<th>Inner Shield Material Trade Name</th>
<th>Beldfoil® (Z-Fold®)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Shield Type</td>
<td>Tape</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inner Shield Material</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
8777 Paired - Shielded Twisted Pair Cable

<table>
<thead>
<tr>
<th>Layer Number/Description</th>
<th>Material Trade Name</th>
<th>Type</th>
<th>Material</th>
<th>% Coverage (%)</th>
<th>Stranding</th>
<th>Diameter (in.)</th>
<th>Conductor Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Beldfoil®</td>
<td>Tape</td>
<td>Aluminum-Polyester</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Tape</td>
<td></td>
<td>Polyester</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Inner Shield % Coverage: 100%

- Inner Shield Drain Wire AWG: 22
- Inner Shield Drain Wire Stranding: 19x34
- Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**OUTER SHIELD:**

- Outer Shield Material: Unshielded

**OUTER JACKET:**

- Outer Jacket Material: PVC - Polyvinyl Chloride

**OVERALL NOMINAL DIAMETER:**

- Overall Nominal Diameter: .273 in.

**MECHANICAL CHARACTERISTICS:**

- Operating Temperature Range: -20°C To +80°C
- UL Temperature Rating: 80°C (UL AWM Style 2919)
- Bulk Cable Weight: 40.8 lbs/1000 ft.
- Max. Recommended Pulling Tension: 79 lbs.
- Min. Bend Radius (Install): 2.75 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

- NEC/(UL) Specification: CM
- CEC/(UL) Specification: CM
- AWM Specification: UL Style 2919 (30 V 80°C)
- EU CE Mark (Y/N): Yes
- EU RoHS Compliant (Y/N): Yes
- EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

**FLAME TEST:**

- UL Flame Test: UL1685 UL Loading

**PLENUM/NON-PLENUM:**

- Plenum (Y/N): N
- Plenum Number: 88777, 87777, 82777

**ELECTRICAL CHARACTERISTICS:**
8777  Paired  -  Shielded Twisted Pair Cable

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**Nom. Characteristic Impedance**  50 Ohms
**Nom. Inductance**  0.18 µH/ft
**Nom. Capacitance Conductor to Conductor @ 1 KHz**  30 pF/ft
**Nom. Capac. Cond. to Other Cond. & Shield @ 1 KHz**  55 pF/ft
**Nominal Velocity of Propagation**  66 %
**Nom. Conductor DC Resistance @ 20 Deg. C**  15.0 Ohms/1000 ft
**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C**  10.6 Ohms/1000 ft
**Max. Operating Voltage - UL**  30 V RMS (UL AWM Style 2919), 300 V RMS (CM)
**Max. Recommended Current**  2 Amps per conductor @ 25°C

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### PUT-UPS AND COLORS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Put-Up (ft.)</th>
<th>Ship Weight (lbs.)</th>
<th>Jacket Color</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>8777 060100</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>100</td>
<td>4.7</td>
<td>CHROME</td>
<td></td>
</tr>
<tr>
<td>8777 0601000</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>1000</td>
<td>44</td>
<td>CHROME</td>
<td>C</td>
</tr>
<tr>
<td>8777 06010000</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>10000</td>
<td>460</td>
<td>CHROME</td>
<td>C Y</td>
</tr>
<tr>
<td>8777 0601640</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>1640</td>
<td>70.52</td>
<td>CHROME</td>
<td>C</td>
</tr>
<tr>
<td>8777 060250</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>250</td>
<td>10</td>
<td>CHROME</td>
<td>C</td>
</tr>
<tr>
<td>8777 0603280</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>3280</td>
<td>141.04</td>
<td>CHROME</td>
<td>C</td>
</tr>
<tr>
<td>8777 060500</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>500</td>
<td>20</td>
<td>CHROME</td>
<td>C</td>
</tr>
<tr>
<td>8777 0605000</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>5000</td>
<td>215</td>
<td>CHROME</td>
<td>C</td>
</tr>
<tr>
<td>8777 060U1000</td>
<td>3 SH PR #22 PP PVC</td>
<td>U1000</td>
<td>41</td>
<td>CHROME</td>
<td></td>
</tr>
<tr>
<td>8777 060U500</td>
<td>3 SHLD PR #22 PP PVC</td>
<td>U500</td>
<td>21</td>
<td>CHROME</td>
<td></td>
</tr>
</tbody>
</table>

C = CRATE REEL PUT-UP.
Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Revision Number: 1     Revision Date: 09-14-2005
8777  Paired  -  Shielded Twisted Pair Cable

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