## Detailed Specifications & Technical Data

### 1040A Multi-Conductor - 600V Tray Cable

For more Information
please call

1-800-Belden1

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### Description:

16 AWG pairs stranded (7x24) bare copper conductors, twisted pairs, PVC/Nylon insulation, individually shielded plus an overall Beldfoil shield (100% coverage), 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>6</td>
<td>16</td>
<td>7x24</td>
<td>BC - Bare Copper</td>
</tr>
</tbody>
</table>

#### Insulation

Insulation Material:

- PVC/Nylon - Polyvinyl Chloride/Nylon

#### Inner Shield

Inner Shield Material:

<table>
<thead>
<tr>
<th>Inner Shield Trade Name Type</th>
<th>Inner Shield Material</th>
<th>Coverage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beldfoil® Tape</td>
<td>Aluminum Foil-Polyester Tape</td>
<td>100</td>
</tr>
</tbody>
</table>

Inner Shield Drain Wire AWG:

- AWG: 18

Inner Shield Drain Wire Stranding: 7x26

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Shield

Outer Shield Material:

<table>
<thead>
<tr>
<th>Outer Shield Trade Name Type</th>
<th>Outer Shield Material</th>
<th>Coverage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beldfoil® Tape</td>
<td>Aluminum Foil-Polyester Tape</td>
<td>100</td>
</tr>
</tbody>
</table>

Outer Shield Drain Wire AWG:

- AWG: 16

Outer Shield Drain Wire Stranding: 7x24

Outer Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

<table>
<thead>
<tr>
<th>Outer Jacket Material</th>
<th>Nom. Wall Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td>.063</td>
</tr>
</tbody>
</table>

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Cabling Lay Length & Direction:

- Length (in.): 7.0

Overall Nominal Diameter: 0.682 in.

#### Pair

Pair Color Code Chart:

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1040A Multi-Conductor - 600V Tray Cable

Pair Lay Length & Direction:

<table>
<thead>
<tr>
<th>Lay Length (in.)</th>
<th>Twists/ft (twist/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.750</td>
<td>4.360</td>
</tr>
</tbody>
</table>

Mechanical Characteristics (Overall)

- Wet Temperature Range: -30°C To +75°C
- Dry Temperature Range: -30°C To +90°C
- Bulk Cable Weight: 200 lbs/1000 ft.
- Max. Recommended Pulling Tension: 428 lbs.
- Min. Bend Radius (Install)/Minor Axis: 6.800 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

- NEC/(UL) Specification: NPLF, TC
- EU CE Mark: Yes
- EU Directive 2002/95/EC (RoHS): Yes
- EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005
- CA Prop 65 (CJ for Wire & Cable): Yes
- MII Order #39 (China RoHS): Yes
- Other Specification: ICEA S-73-532, S-61-402

Flame Test

- UL Flame Test: UL1685 UL Loading
- C(UL) Flame Test: FT4
- IEEE Flame Test: 1202

Suitability

- Suitability - Burial: Yes
- Sunlight Resistance: Yes

Plenum/Non-Plenum

- Plenum (Y/N): No

Electrical Characteristics (Overall)

- Nom. Characteristic Impedance: 50 Ohm
- Nom. Inductance: 0.182 µH/ft
- Nom. Capacitance Cond. to Other Conductor & Shield: 87 pF/ft
Nom. Mutual Capacitance:

Capacitance (pF/ft)
48

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.67

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.01

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

5.070 Ohm/1000 ft

Max. Operating Voltage - UL:

Voltage
600 V RMS (NEC Type TC)
150 V RMS (NPLF)

Notes (Overall)

Notes: Alternate color coding available upon request.

Related Documents:

No related documents are available for this product

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>1040A 0105000</td>
<td>5,000 FT</td>
<td>1,495.000 LB</td>
<td>BLACK</td>
<td>C Z</td>
<td>6 FS PR #16 PVC/NYL FS PVC</td>
</tr>
</tbody>
</table>

Notes:
C = CRATE REEL PUT-UP.
Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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