# 83317E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

## General Description:
26 AWG stranded (7x34) silver-plated copper conductors, cabled and color-coded, extruded TFE Teflon® insulation, silver plated copper braid shield (85% coverage), TFE teflon tape-wrapped jacket.

## Physical Characteristics (Overall)

### Conductor

<table>
<thead>
<tr>
<th># Conductors</th>
<th>AWG</th>
<th>Stranding</th>
<th>Conductor Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>26</td>
<td>7x34</td>
<td>SPC - Silver Plated Copper</td>
</tr>
</tbody>
</table>

**Total Number of Conductors:** 2

### Insulation

<table>
<thead>
<tr>
<th>Insulation Trade Name</th>
<th>Insulation Material</th>
<th>Wall Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teflon®</td>
<td>TFE - Tetrafluoroethylene</td>
<td>.010</td>
</tr>
</tbody>
</table>

**Insulation Resistance:** 100,000 Megohms/1000 ft. @ 500 V DC

### Outer Shield

<table>
<thead>
<tr>
<th>Type</th>
<th>Outer Shield Material</th>
<th>Coverage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Braid</td>
<td>SPC - Silver Plated Copper</td>
<td>85</td>
</tr>
</tbody>
</table>

### Outer Jacket

<table>
<thead>
<tr>
<th>Outer Jacket Trade Name</th>
<th>Outer Jacket Material</th>
<th>Nom. Wall Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teflon®</td>
<td>TFE - Tetrafluoroethylene</td>
<td>.011</td>
</tr>
</tbody>
</table>

### Overall Cable

**Overall Nominal Diameter:** 0.121 in.

## Mechanical Characteristics (Overall)

| Operating Temperature Range: | -65°C To +200°C |
| Bulk Cable Weight:           | 12 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 26,800 lbs. |
| Min. Bend Radius/Minor Axis: | 1.250 in. |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

- **EU Directive 2011/65/EU (ROHS II):** Yes
- **EU CE Mark:** Yes
- **EU Directive 2000/53/EC (ELV):** Yes
- **EU Directive 2002/95/EC (RoHS):** Yes
- **EU RoHS Compliance Date (mm/dd/yyyy):** 01/01/2005
- **EU Directive 2002/96/EC (WEEE):** Yes
- **EU Directive 2003/11/EC (BFR):** Yes
- **CA Prop 65 (CJ for Wire & Cable):** Yes
- **MII Order #39 (China RoHS):** Yes
- **Military Specification:** MIL-W-16878/4 (Type E insulated conductors)
83317E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

Other Specification:
NEMA HP3

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

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/ft) 14

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 35.5

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 20.8

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 39

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 7

Max. Operating Voltage - UL:
Voltage 600 V RMS

Max. Recommended Current:
Current 3 Amps per conductor @ 25°C

Notes (Overall)
Notes:
Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

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>83317E 009100</td>
<td>100 FT</td>
<td>1.300 LB</td>
<td>WHITE</td>
<td>E</td>
<td>2 #26 TFE BRD TFE TAPE</td>
</tr>
<tr>
<td>83317E 0091000</td>
<td>1,000 FT</td>
<td>13.000 LB</td>
<td>WHITE</td>
<td>E</td>
<td>2 #26 TFE BRD TFE TAPE</td>
</tr>
<tr>
<td>83317E 0095000</td>
<td>500 FT</td>
<td>6.500 LB</td>
<td>WHITE</td>
<td>E</td>
<td>2 #26 TFE BRD TFE TAPE</td>
</tr>
</tbody>
</table>

Notes:
E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'