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1-800-Belden1



## General Description:

24 AWG stranded (19x36) 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

AWG:

| # Conductors | AWG | Stranding | Conductor Material         |
|--------------|-----|-----------|----------------------------|
| 4            | 24  | 19x36     | SPC - Silver Plated Copper |

Total Number of Conductors: 4

### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material       | Wall Thickness (in.) |
|-----------------------|---------------------------|----------------------|
| Teflon®               | TFE - Tetrafluoroethylene | .010                 |

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

### Outer Shield

Outer Shield Material:

| Type  | Outer Shield Material      | Coverage (%) |
|-------|----------------------------|--------------|
| Braid | SPC - Silver Plated Copper | 85           |

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material     | Nom. Wall Thickness (in.) |
|-------------------------|---------------------------|---------------------------|
| Teflon®                 | TFE - Tetrafluoroethylene | .011                      |

### Overall Cable

Overall Cabling Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | White |
| 2      | Black |
| 3      | Red   |
| 4      | Green |

Overall Nominal Diameter: 0.149 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -65°C To +200°C

Bulk Cable Weight: 21 lbs/1000 ft.

Max. Recommended Pulling Tension: 53.400 lbs.

Min. Bend Radius/Minor Axis: 1.500 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

MIL Order #39 (China RoHS): Yes

## 83348E Multi-Conductor - MIL-W-16878/4 (Type E)

|                                |  |
|--------------------------------|--|
| <b>Military Specification:</b> | MIL-W-16878/4 (Type E, except stranding, insulated conductors) |
| <b>Other Specification:</b>    | NEMA HP3   |
| <b>Plenum/Non-Plenum</b>       |  |
| <b>Plenum (Y/N):</b>           | No   |

### Electrical Characteristics (Overall)

**Nom. Inductance:**

**Inductance (µH/ft)**  
 .12

**Nom. Capacitance Conductor to Conductor:**

**Capacitance (pF/ft)**  
 21.9

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

**Capacitance (pF/ft)**  
 36.8

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
 23.3

**Max. Operating Voltage - UL:**

**Voltage**  
 600 V RMS

**Max. Recommended Current:**

**Current**  
 4 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:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc              |
|----------------|----------|-------------|-------|-------|------------------------|
| 83348E 009100  | 100 FT   | 2.700 LB    | WHITE | E     | 4 #24 TFE BRD TFE TAPE |
| 83348E 0091000 | 1,000 FT | 22.000 LB   | WHITE | E     | 4 #24 TFE BRD TFE TAPE |
| 83348E 009500  | 500 FT   | 11.500 LB   | WHITE | E     | 4 #24 TFE BRD TFE TAPE |

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

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