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1-800-Belden1



### General Description:

22 AWG stranded (19x34) 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            | 22  | 19x34     | SPC - Silver Plated Copper |

Total Number of Conductors: 4

#### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material       | Wall Thickness (mm) |
|-----------------------|---------------------------|---------------------|
| Teflon®               | TFE - Tetrafluoroethylene | 0.254               |

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 (mm) |
|-------------------------|---------------------------|--------------------------|
| Teflon®                 | TFE - Tetrafluoroethylene | 0.2794                   |

#### Overall Cable

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 4.140 mm

### Mechanical Characteristics (Overall)

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -65°C To +200°C |
| Bulk Cable Weight:                | 38.693 Kg/Km    |
| Max. Recommended Pulling Tension: | 301.588 N       |
| Min. Bend Radius/Minor Axis:      | 44.450 mm       |

### 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        |

## METRIC MEASUREMENT VERSION

## 83349E 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                                                       |

## Plenum/Non-Plenum

|                      |    |
|----------------------|----|
| <b>Plenum (Y/N):</b> | No |
|----------------------|----|

## Electrical Characteristics (Overall)

## Nom. Inductance:

|                          |
|--------------------------|
| <b>Inductance (µH/m)</b> |
| 0.518398                 |

## Nom. Capacitance Conductor to Conductor:

|                           |
|---------------------------|
| <b>Capacitance (pF/m)</b> |
| 89.8994                   |

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

|                           |
|---------------------------|
| <b>Capacitance (pF/m)</b> |
| 149.942                   |

## Nom. Conductor DC Resistance:

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 48.2307                    |

## Nominal Outer Shield DC Resistance:

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 18.0455                    |

## Max. Operating Voltage - UL:

|                |
|----------------|
| <b>Voltage</b> |
| 600 V RMS      |

## Max. Recommended Current:

|                              |
|------------------------------|
| <b>Current</b>               |
| 5 Amps per conductor at 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              |
|----------------|----------|-------------|-------|-------|------------------------|
| 83349E 009100  | 100 FT   | 3.400 LB    | WHITE | E     | 4 #22 TFE BRD TFE TAPE |
| 83349E 0091000 | 1,000 FT | 27.000 LB   | WHITE | E     | 4 #22 TFE BRD TFE TAPE |

## Notes:

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

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