Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



83349E Multi-Conductor - MIL-W-16878/4 (Type E)



For more Information please call

1-800-Belden1



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 | | |

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 Cabling

Overall Cabling Lay Length & Direction:

| Length (mm) | Twists (m.) |
|-------------|-------------|
| 38.09985 | 2.4384 |

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: | 40.479 Kg/Km | | | | |
| Max. Recommended Pulling Tension: | 301.588 N | | | | |
| Min. Bend Radius (Install)/Minor Axis: | 41.275 mm | | | | |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark: Yes

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| 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, except stranding, insulated conductors) |
| Flame Test | |
| UL Flame Test: | UL1685 UL Loading, VW-1 |
| Plenum/Non-Plenum | |
| Plenum (Y/N): | No |

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m) 0.518398

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 89.8994

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 149.942

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 48.2307

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 18.0455

Max. Operating Voltage - UL:

Voltage 600 V RMS

Max. Recommended Current:

Current
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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|--------|-------------|-------|-------|------------------------|
| 83349E 009100 | 30 MT | 1.542 KG | WHITE | E | 4 #22 TFE BRD TFE TAPE |
| 83349E 0091000 | 305 MT | 12.247 KG | 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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Revision Number: 2 Revision Date: 09-19-2008

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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