

 **Part Number:** 83350EMIL-W -16878/4 (Type E), (4) 20 AWG (19x32) SPC,
TFE/TFE, SPC Braid Shld

Product Description

Four 20 AWG stranded (19x32) silver-plated copper conductors, Teflon® (TFE) insulation, silver plated copper braid shield (85% coverage), Teflon® (TFE) jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | No. of Conductors |
|-----------------------------|-----------|----------------------------|-------------------|
| 20 | 19x32 | SPC - Silver Plated Copper | 4 |
| Total Number of Conductors: | | | 4 |

Insulation:

| Material | Material Trade Name | Nominal Wall Thickness |
|---------------------------|---------------------|------------------------|
| TFE - Tetrafluoroethylene | Teflon® | 0.011 in |

Color Chart 1:

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

Outershield 1:

| Type | Material | Coverage [%] |
|-------|----------------------------|--------------|
| Braid | SPC - Silver Plated Copper | 85 % |

Outerjacket 1:

| Material | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------|---------------------|------------------|------------------------|
| TFE - Tetrafluoroethylene | Teflon® | 0.183 in | 0.011 in |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 7.8 Ohm/1000ft | 4.4 Ohm/1000ft |

Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 31.7 pF/ft | 51 pF/ft |

| | |
|----------------------------|--|
| Min Insulation Resistance: | 100,000 Megaohms/1000 ft. @ 500 V DC MOhm*1000ft |
|----------------------------|--|

Current:

| Max. Recommended Current [A] |
|-------------------------------|
| 6.5 Amps per conductor @ 25°C |

Inductance:

| Nominal Inductance |
|--------------------|
| 0.145 µH/ft |

Voltage:

| UL Voltage Rating |
|-------------------|
| 600 V RMS |

Use

| | |
|----------------------------------|----------|
| Max Recommended Pulling Tension: | 94.7 lbs |
|----------------------------------|----------|

Safety

Temperature Range

| | |
|-----------------------|-----------------|
| Operating Temp Range: | -65°C To +200°C |
|-----------------------|-----------------|

Mechanical Characteristics

| | |
|-----------------------------|------|
| Min Bend Radius/Minor Axis: | 2 in |
|-----------------------------|------|

Part Number

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

Standards

| | |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| MII Order #39 (China RoHS): | MII Order #39 (China RoHS) |
| Military Specification: | Military Specification |
| Other Specification: | Other Specification |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | EU CE Mark |

History

| | |
|--------|---|
| Notes: | Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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Product Variants

| Part Number | Color | Put-Up Type | Length |
|----------------|-------|-------------|---------|
| 83350E 0091000 | WHITE | Reel | 1000 ft |
| 83350E 009100 | WHITE | Reel | 100 ft |

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