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1-800-Belden1



General Description:

30 AWG stranded (7x38) .012" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (95% coverage), FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--|------------|
| 1 | 30 | 7x38 | SPCCS - Silver Plated Copper Covered Steel | .012 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (in.) |
|-----------------------|---------------------------|------------|
| Teflon® | TFE - Tetrafluoroethylene | .033 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|----------------------------|--------------|
| Braid | SPC - Silver Plated Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

Overall Cable

Overall Nominal Diameter: 0.071 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 90C

Bulk Cable Weight: 5 lbs/1000 ft.

Max. Recommended Pulling Tension: 12 lbs.

Min. Bend Radius/Minor Axis: 1 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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

Military Specification: MIL-C-17, M17/93-RG178

Other Specification: UL Style 1637

RG Type: 178B/U

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 50 |

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| 0.072 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 29.0 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 69.5 |

Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.46 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 244.0 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 14.6 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | 2.6 |
| 10 | 5.6 |
| 50 | 10.5 |
| 100 | 14.0 |
| 200 | 19.0 |
| 400 | 28.0 |
| 700 | 37.0 |
| 900 | 42.5 |
| 1000 | 46.0 |

Nom. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50 | 380 |
| 100 | 253 |
| 200 | 170 |
| 400 | 113 |
| 700 | 81 |
| 900 | 70 |
| 1000 | 66 |

Max. Operating Voltage - UL:

| Voltage | Description |
|----------|-------------|
| 30 V rms | AWM 1637 |

Max. Operating Voltage - Other:

| Voltage | Description |
|------------------------|-------------|
| Military Specification | 750 V RMS |

Misc. Information (Overall)

Notes (Overall)

Notes: Military Specification (M17/93) Operating Temperature: -55C to 200C. - - - 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 |
|---------------|----------|-------------|-------|-------|--------------|
| 83265 009100 | 100 FT | 0.800 LB | WHITE | E | M17/93-RG178 |
| 83265 0091000 | 1,000 FT | 6.000 LB | WHITE | E | M17/93-RG178 |
| 83265 009500 | 500 FT | 3.500 LB | WHITE | E | M17/93-RG178 |

Notes:

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

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