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1-800-Belden1



General Description:

19 AWG Solid .034" silver-coated copper conductor, polyethylene insulation, double silver-coated copper braid shield (95% coverage), non-contaminating PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|----------------------------|-----------|
| 1 | 19 | Solid | SCC - Silver-coated Copper | 0.8636 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PE - Polyethylene | 2.9718 |

Outer Shield

Outer Shield Material:

| Layer # | Type | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1 | Braid | Silver-coated Copper | 95 |
| 2 | Braid | Silver-coated Copper | 95 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--|
| PVCNC - Polyvinyl Chloride Non-Contaminating |

Overall Cable

Overall Nominal Diameter: 5.385 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 53.575 Kg/Km

Max. Recommended Pulling Tension: 386.993 N

Min. Bend Radius/Minor Axis: 57.150 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMX

CEC/C(UL) Specification: CMX

AWM Specification: UL Style 1354

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): | 10/01/2005 |
| 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-C-17, M17/167-00001 |
| RG Type: | 223/U |

Flame Test

| | |
|----------------|------|
| UL Flame Test: | VW-1 |
|----------------|------|

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/m)

0.252637

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

101.055

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/m)

5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

28.8728

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

| | |
|------|---------|
| 1 | 1.3124 |
| 10 | 3.9372 |
| 50 | 9.1868 |
| 100 | 13.4521 |
| 200 | 19.686 |
| 400 | 28.8728 |
| 700 | 39.372 |
| 900 | 45.2778 |
| 1000 | 47.5745 |

Max. Operating Voltage - UL:

Voltage

30 V RMS (UL AWM Style 1354)

Max. Operating Voltage - Non-UL:

| |
|----------------|
| Voltage |
| 1400 V RMS |

Notes (Overall)

Notes: Non-SWR swept version of RG-223

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|--------|-------------|-------|-------|--------------------|
| 9273 010U1000 | 305 MT | 17.690 KG | BLACK | | M17/167-00001 COAX |
| 9273 010U500 | 152 MT | 9.072 KG | BLACK | | M17/167-00001 COAX |
| 9273 010100 | 30 MT | 1.996 KG | BLACK | | M17/167-00001 COAX |
| 9273 0101000 | 305 MT | 17.237 KG | BLACK | C | M17/167-00001 COAX |
| 9273 010500 | 152 MT | 9.072 KG | BLACK | | M17/167-00001 COAX |

Notes:

C = CRATE REEL PUT-UP.

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