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1-800-Belden1



General Description:

14 AWG solid .064" bare copper conductor, foam FEP insulation, bare copper double shields (95% and 90% coverage), PVDF jackets.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 14 | Solid | BC - Bare Copper | 1.6256 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|--|-----------|
| FFEP - Foam Fluorinated Ethylene Propylene | 7.239 |

Inner Shield

Inner Shield Material:

| Type | Inner Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 95 |

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (mm) |
|------------------------|----------------|
| PVDF - Fluorocopolymer | 8.890 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 80.000 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|------------------------|
| PVDF - Fluorocopolymer |

Overall Cable

Overall Nominal Diameter: 10.363 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +125°C

Bulk Cable Weight: 194.954 Kg/Km

Max. Recommended Pulling Tension: 756.194 N

Min. Bend Radius/Minor Axis: 107.950 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 01/01/2004

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 |
| RG Type: | 11/U |

Suitability

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

Plenum/Non-Plenum

| | |
|--------------------|-------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 8233A |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

54.137

Nominal Velocity of Propagation:

VP (%)

80.000

Nominal Delay:

Delay (ns/m)

3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.2496

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

4.5934

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000 | 0.295 |
| 3.600 | 0.919 |
| 10.000 | 1.542 |
| 71.500 | 4.364 |
| 135.000 | 6.234 |
| 270.000 | 9.646 |
| 360.000 | 11.221 |
| 540.000 | 14.633 |
| 720.000 | 17.750 |
| 750.000 | 18.078 |
| 1000.000 | 22.114 |
| 1500.000 | 29.627 |
| 2000.000 | 37.075 |
| 2250.000 | 41.144 |
| 3000.000 | 55.777 |
| 4000.000 | 90.063 |

Max. Operating Voltage - UL:

Voltage

300 V RMS

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000 | 850.000 | 21.000 |
| 850.000 | 4500.000 | 15.000 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|--------------------------|
| 8233P 0101000 | 1,000 FT | 138.000 LB | BLACK | | #14 FFEP BRD SLF BRD SLF |
| 8233P 010500 | 500 FT | 73.000 LB | BLACK | | #14 FFEP BRD SLF BRD SLF |

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