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1-800-Belden1



General Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% and 80% coverage), polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 20 | Solid | BC - Bare Copper | 0.8128 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 3.683 |

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) |
|-----------------------|----------------|
| PE - Polyethylene | 5.715 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 80 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| PE - Polyethylene |

Overall Cable

Overall Nominal Diameter: 8.001 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -55°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 81.851 Kg/Km

Max. Recommended Pulling Tension: 556.025 N

Min. Bend Radius/Minor Axis: 82.550 mm

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): 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 |
| MII Order #39 (China RoHS): | Yes |
| RG Type: | 59/U |

Suitability

| | |
|------------------------|--|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Aerial: | Yes - when supported by a messenger wire |
| Suitability - Burial: | Yes |

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 88232 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|------------------------|
| Impedance (Ohm) |
| 75 |

Nom. Inductance:

| |
|--------------------------|
| Inductance (µH/m) |
| 0.318257 |

Nom. Capacitance Conductor to Shield:

| |
|---------------------------|
| Capacitance (pF/m) |
| 53.1522 |

Nominal Velocity of Propagation:

| |
|---------------|
| VP (%) |
| 83 |

Nominal Delay:

| |
|---------------------|
| Delay (ns/m) |
| 4.00282 |

Nom. Conductor DC Resistance:

| |
|----------------------------|
| DCR @ 20°C (Ohm/km) |
| 32.81 |

Nom. Inner Shield DC Resistance:

| |
|----------------------------|
| DCR @ 20°C (Ohm/km) |
| 8.2025 |

Nominal Outer Shield DC Resistance:

| |
|----------------------------|
| DCR @ 20°C (Ohm/km) |
| 9.1868 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 0.9843 |
| 3.6 | 1.9686 |
| 10 | 2.9529 |
| 71.5 | 6.8901 |
| 135 | 9.843 |
| 270 | 13.7802 |
| 360 | 15.7488 |
| 540 | 19.3579 |
| 720 | 22.967 |
| 750 | 23.2951 |
| 1000 | 27.2323 |
| 1500 | 34.4505 |
| 2250 | 43.9654 |
| 3000 | 52.1679 |

Max. Operating Voltage - Non-UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Minimum Structural Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------------|------------------|---------------|
| 5 | 850 | 21 |
| 851 | 3000 | 15 |

Sweep Test

Sweep Testing: 100% sweep tested 5 MHz to 3 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-------|-------|--------------------|
| 8232 0101000 | 1,000 FT | 60.000 LB | BLACK | C | RG-59/U TYPE TRIAX |
| 8232 0102000 | 2,000 FT | 118.000 LB | BLACK | C | RG-59/U TYPE TRIAX |
| 8232 010500 | 500 FT | 31.000 LB | BLACK | | RG-59/U TYPE TRIAX |

Notes:

C = CRATE REEL PUT-UP.

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