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please call

1-800-Belden1



Description:

RG-58 type, 19 AWG solid .037" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage) + tinned copper braid shield (90% coverage), polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 19 | Solid | BC - Bare Copper | 0.9398 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 2.794 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 90 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 4.953 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 34.229 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius/Minor Axis: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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: | 58/U |
| Series Type: | RF 195 |

Suitability

| | |
|------------------------|-----|
| Suitability - Outdoor: | Yes |
| Suitability - Burial: | Yes |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/m)

0.209984

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

79.7283

Nominal Velocity of Propagation:

VP (%)

77

Nominal Delay:

Delay (ns/m)

4.16687

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

24.9356

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.7802

Maximum VSWR:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Max. VSWR |
|-------------|-------------|-------------------|------------------|-----------|
| | | 5 | 6000 | 1.25:1 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 5.000 | 2.461 |
| 10.000 | 3.281 |
| 30.000 | 6.562 |
| 50.000 | 8.203 |
| 150.000 | 13.124 |
| 220.000 | 16.077 |
| 450.000 | 23.295 |
| 900.000 | 33.794 |
| 1500.000 | 44.950 |
| 1800.000 | 49.871 |
| 2000.000 | 52.824 |
| 2500.000 | 60.042 |
| 3000.000 | 67.261 |
| 4500.000 | 86.947 |
| 5800.000 | 102.367 |
| 6000.000 | 104.992 |

Max. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 30 | 890 |
| 50 | 694 |
| 150 | 403 |
| 220 | 336 |
| 450 | 231 |
| 900 | 162 |
| 1500 | 124 |
| 1800 | 113 |
| 2000 | 107 |
| 2500 | 95 |
| 3000 | 87 |
| 3500 | 80 |
| 4500 | 70 |
| 5800 | 62 |
| 6000 | 61 |

Max. Operating Voltage - Non-UL:

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

Sweep Test

Sweep Testing: 100% Sweep tested to 6 GHz

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|--------|-------------|-------|-------|-------------------------------|
| 7806A 0101000 | 305 MT | 11.340 KG | BLACK | C | RF195 WIRELESS 50 OHM COAX PE |
| 7806A 010500 | 152 MT | 6.577 KG | BLACK | C | RF195 WIRELESS 50 OHM COAX PE |

Notes:
C = CRATE REEL PUT-UP.

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