Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

7805R Coax - RG-174 Type

For more Information please call

1-800-Belden1



General Description:

RG-174 type, 24.5 AWG solid .020" bare copper conductor, foam HDPE insulation, Beldfoil® + tinned copper braid shield (90% coverage), PVC jacket.

| Physical Characteristics (Overall) | |
|---|---------------------|
| Conductor AWG: | |
| # Coax AWG Stranding Conductor Material Dia. (mm) | |
| 1 24.5 Solid BC - Bare Copper 0.4953 | |
| Total Number of Conductors: | 1 |
| Insulation Insulation Material: | |
| Insulation Material Dia. (mm) | |
| FHDPE - Foam High Density Polyethylene 1.524 | |
| Outer Shield Outer Shield Material: | |
| Layer # Outer Shield Trade Name Type Outer Shield Ma | terial Coverage (%) |
| 1 Beldfoil® Tape Aluminum Foil-Po | |
| 2 Braid TC - Tinned Copp | per 90.000 |
| Outer Jacket Outer Jacket Material: Outer Jacket Material PVC - Polyvinyl Chloride | |
| Overall Cable | |
| Overall Nominal Diameter: | 2.794 mm |
| Mechanical Characteristics (Overall) | |
| Operating Temperature Range: | -40°C To +80°C |
| UL Temperature Rating: | 60°C |
| Bulk Cable Weight: | 13.394 Kg/Km |
| Max. Recommended Pulling Tension: | 88.964 N |
| Min. Bend Radius/Minor Axis: | 31.750 mm |
| Applicable Specifications and Agency Comp | liance (Overall) |
| Applicable Standards & Environmental Programs | 5 |
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMG |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| | |

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| EU RoHS | S Complian | ce Date (m | ım/dd/yyyy): | 01/01/2004 | | |
|--------------|--------------|---------------|--------------------------|---------------------------|----------|------|
| | tive 2002/9 | | | Yes | | |
| | tive 2002/1 | - | - | Yes | | |
| | | - | | | | |
| CA Prop | 65 (CJ for) | Wire & Cal | ble): | Yes | | |
| MII Orde | r #39 (China | a RoHS): | | Yes | | |
| RG Type | : | | | 174/U | | |
| Series T | уре: | | | RF 100 | | |
| -lame Test | | | | | | |
| UL Flam | e Test: | | | UL1666 Vertic | al Shaft | |
| CSA Fla | me Test: | | | FT4 | | |
| Suitability | | | | | | |
| - | ty - Indoor: | | | Yes | | |
| Plenum/No | - | | | | | |
| Plenum | | | | No | | |
| | | | | | | |
| lectrical C | | | verall) | | | |
| Nom. Charac | teristic Imp | edance: | | | | |
| Impedance | (Ohm) | | | | | |
| 50 | | | | | | |
| Nom. Inducta | ance: | | | | | |
| Inductance | (µH/m) | | | | | |
| 0.223108 | | | | | | |
| Nom. Capaci | tance Cond | luctor to S | hield: | | | |
| Capacitanc | e (pF/m) | | | | | |
| 85.9622 | | | | | | |
| Nominal Velo | ocity of Pro | pagation: | | | | |
| VP (%) | | | | | | |
| 73.5 | | | | | | |
| Nominal Dela | ay: | | | | | |
| Delay (ns/m | 1) | | | | | |
| 4.52778 | | | | | | |
| Nom. Condu | ctor DC Res | sistance: | | | | |
| | C (Ohm/km) | | | | | |
| 89.5713 | | | | | | |
| Nominal Out | er Shield D | C Resistar | nce: | | | |
| | C (Ohm/km) | | | | | |
| 30.5133 | | | | | | |
| Maximum VS | | | | | | |
| Description | Freq. (MHz) | 5 Start Freq. | (MHz) Stop Freq. 6000 | (MHz) Max. VSWR 1.25:1 | | |
| L | | 0 | 0000 | 1.20.1 | | |
| Nom. Attenu | | (dD/400) | 1 | | | |
| 5.000 | Attenuation | | | | | |
| 10.000 | 6.562 | | | | | |
| 30.000 | 11.484 | | | | | |
| 50.000 | 15.093 | | | | | |
| 150.000 | 26.248 | | | | | |
| 220.000 | 31.498 | | | | | |
| 450.000 | 45.934 | | | | | |
| 900.000 | 66.276 | | | | | |
| 1500.000 | 87.275 | | | | | |
| | | | | | | |

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| 1800.000 | 96.790 |
|----------|---------|
| 2000.000 | 102.367 |
| 2500.000 | 116.147 |
| 3000.000 | 129.271 |
| 3500.000 | 141.083 |
| 4500.000 | 164.050 |
| 5800.000 | 193.579 |
| 6000.000 | 198.829 |

Nom. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 30 | 216 |
| 50 | 154 |
| 150 | 74 |
| 220 | 57 |
| 450 | 34 |
| 900 | 21 |
| 1500 | 14 |
| 1800 | 13 |
| 2000 | 12 |
| 2500 | 10 |
| 3000 | 9 |
| 3500 | 8 |
| 4500 | 7 |
| 5800 | 5 |
| 6000 | 5 |

Max. Operating Voltage - UL:

Voltage

300 V RMS

Notes (Overall)

Notes: 100% Sweep tested. 6 GHz. Max. Belden® The Wire in Wireless®

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|------------------------------|
| 7805R 008100 | 100 FT | 1.700 LB | GRAY | E | RF100LL WIRELESS 50 OHM COAX |
| 7805R 0081000 | 1,000 FT | 10.000 LB | GRAY | | RF100LL WIRELESS 50 OHM COAX |
| 7805R 008500 | 500 FT | 5.500 LB | GRAY | | RF100LL WIRELESS 50 OHM COAX |

Notes:

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

Revision Date: 08-01-2013 **Revision Number: 3**

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