

7805R Coax - RG-174 Type

For more Information
please call

1-800-Belden1



Description:

RG-174 type, 24.5 AWG solid .020" bare copper conductor, foam HDPE insulation, Beldfoil® + tinned copper braid shield (93% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|------|-----------|--------------------|------------|
| 1 | 24.5 | Solid | BC - Bare Copper | .0195 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|--|------------|
| FHDPE - Foam High Density Polyethylene | .060 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 93 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cabling

Overall Nominal Diameter: 0.110 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 80°C

Bulk Cable Weight: 10 lbs/1000 ft.

Max. Recommended Pulling Tension: 20 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

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: | 174/U |
| Series Type: | RF 100 |

Flame Test

| | |
|-----------------|--------------|
| UL Flame Test: | UL1666 Riser |
| CSA Flame Test: | FT4 |

Suitability

| | |
|------------------------|-------------------------------------|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Aerial: | Yes - When supported by a messenger |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 50 |

Nom. Inductance:

| |
|--------------------|
| Inductance (µH/ft) |
| .068 |

Nom. Capacitance Conductor to Shield:

| |
|---------------------|
| Capacitance (pF/ft) |
| 26.2 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 73.5 |

Nominal Delay:

| |
|---------------|
| Delay (ns/ft) |
| 1.38 |

Nom. Conductor DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 27.3 |

Nominal Outer Shield DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 9.3 |

Maximum VSWR:

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

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 30 | 3.5 |
| 50 | 4.6 |
| 150 | 8.0 |
| 220 | 9.6 |
| 450 | 14.0 |
| 900 | 20.2 |
| 1500 | 26.6 |
| 1800 | 29.5 |
| 2000 | 31.2 |

| | |
|------|------|
| 2500 | 35.4 |
| 3000 | 39.4 |
| 3500 | 43.0 |
| 4500 | 50.0 |
| 5800 | 59.0 |
| 6000 | 60.6 |

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'

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