

## 7808R Coax - RG-8X Type

For more Information  
please call

1-800-Belden1

**General Description:**

RG-8X type, 15 AWG solid .057" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II + tinned copper braid shield (95% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 15  | Solid     | BC - Bare Copper   | .057       |

Total Number of Conductors: 1

**Insulation**

Insulation Material:

| Insulation Material                                 | Dia. (in.) |
|-----------------------------------------------------|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .150       |

**Outer Shield**

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                             | Coverage (%) |
|---------|-------------------------|-------|---------------------------------------------------|--------------|
| 1       | Bonded Duofoil®         | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | TC - Tinned Copper                                | 95           |

**Outer Jacket**

Outer Jacket Material:

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

**Overall Cable**

Overall Nominal Diameter: 0.240 in.

**Mechanical Characteristics (Overall)**

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

UL Temperature Rating: 60°C

Bulk Cable Weight: 40 lbs/1000 ft.

Max. Recommended Pulling Tension: 74 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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: 8/X

Flame Test

|                 |                       |
|-----------------|-----------------------|
| UL Flame Test:  | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4                   |

Suitability

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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

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

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .060               |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 23.0                |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 86     |

Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.18          |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 3.2                      |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 2.8                      |

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.) |
|-------------|--------------------------|
| 5.000       | 0.580                    |
| 10.000      | 0.770                    |
| 30.000      | 1.300                    |
| 50.000      | 1.600                    |
| 150.000     | 2.800                    |
| 220.000     | 3.400                    |
| 450.000     | 4.900                    |
| 900.000     | 7.000                    |
| 1500.000    | 9.100                    |
| 1800.000    | 10.100                   |
| 2000.000    | 10.700                   |
| 2500.000    | 12.000                   |
| 3000.000    | 13.400                   |
| 3500.000    | 14.600                   |
| 4500.000    | 16.700                   |
| 5800.000    | 19.500                   |
| 6000.000    | 19.800                   |

Max. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 30.000      | 1526.000   |
| 50.000      | 1186.000   |
| 150.000     | 673.000    |
| 220.000     | 556.000    |
| 450.000     | 382.000    |
| 900.000     | 268.000    |
| 1500.000    | 205.000    |
| 1800.000    | 187.000    |

|          |         |
|----------|---------|
| 2000.000 | 177.000 |
| 2500.000 | 156.000 |
| 3000.000 | 143.000 |
| 3500.000 | 132.000 |
| 4500.000 | 116.000 |
| 5800.000 | 102.000 |
| 6000.000 | 100.000 |

Max. Operating Voltage - UL:

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

Sweep Test

Sweep Testing: 100&#37; Sweep tested to 6 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc                      |
|---------------|----------|-------------|-------|-------|--------------------------------|
| 7808R 0101000 | 1,000 FT | 44.000 LB   | BLACK | C     | RF240 WIRELESS 50OHM COAXFRPVC |
| 7808R 010500  | 500 FT   | 21.500 LB   | BLACK | C     | RF240 WIRELESS 50OHM COAXFRPVC |

Notes:  
C = CRATE REEL PUT-UP.

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