

## 7807R Coax - RG-58 Type

For more Information  
please call

1-800-Belden1

**General Description:**

RG-58 type, 17 AWG solid .044" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage) + tinned copper braid shield (95% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	17	Solid	BC - Bare Copper	.044

Total Number of Conductors: 1

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.116

**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	95

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.195 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	27 lbs/1000 ft.
Max. Recommended Pulling Tension:	25.400 lbs.
Min. Bend Radius/Minor Axis:	2 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:	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
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	58/U
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Series Type:	RF 200
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**Flame Test**

UL Flame Test:	UL1666 Vertical Shaft
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CSA Flame Test:	FT4
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**Suitability**

Suitability - Indoor:	Yes
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Suitability - Aerial:	Yes - When supported by a messenger
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
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50
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**Nom. Inductance:**

Inductance (μH/ft)
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.061
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**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
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23.5
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**Nominal Velocity of Propagation:**

VP (%)
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85
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**Nominal Delay:**

Delay (ns/ft)
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1.19
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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3.3
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**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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4.2
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**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.)
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5.000	0.750
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10.000	1.100
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30.000	1.600
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50.000	2.100
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150.000	3.700
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220.000	4.500
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450.000	6.500
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900.000	9.200
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1500.000	12.000
1800.000	13.200
2000.000	14.000
2500.000	15.700
3000.000	17.500
4500.000	22.000
5800.000	25.200
6000.000	26.000

**Max. Power Rating:**

Freq. (MHz)	Rating (W)
30	1070
50	813
150	450
220	372
450	256
900	178
1500	136
1800	123
2000	117
2500	104
3000	94
3500	87
4500	76
5800	67
6000	66

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Notes (Overall)**

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7807R 0101000	1,000 FT	29.000 LB	BLACK	C	RF200 WIRELESS 50OHM COAXFRPVC
7807R 010500	500 FT	15.000 LB	BLACK	C	RF200 WIRELESS 50OHM COAXFRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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