## **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



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.

1

### **Physical Characteristics (Overall)**

#### Conductor

### AWG:

# Coax	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
1	17	Solid	BC - Bare Copper	1.1176

Total Number of Conductors:

### Insulation

#### **Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	2.9464

#### **Outer Shield**

### **Outer Shield Material:**

Layer # Outer Shield Trade Name Typ		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: 4.953 mm

### **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	40.181 Kg/Km
Max. Recommended Pulling Tension:	112.984 N
Min. Bend Radius/Minor Axis:	50.800 mm

### **Applicable Specifications and Agency Compliance (Overall)**

### **Applicable Standards & Environmental Programs**

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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# **Detailed Specifications & Technical Data**

### **METRIC MEASUREMENT VERSION**



7807R Coax - RG-58 Type

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 200
ame Test	
UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4
itability	
Suitability - Indoor:	Yes
enum/Non-Plenum	
Plenum (Y/N):	No
	EU Directive 2002/96/EC (WEEE):  EU Directive 2003/11/EC (BFR):  CA Prop 65 (CJ for Wire & Cable):  MII Order #39 (China RoHS):  RG Type:  Series Type:  ame Test  UL Flame Test:  CSA Flame Test:  titability  Suitability - Indoor:  enum/Non-Plenum

### **Electrical Characteristics (Overall)**

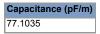
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



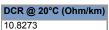
Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



**Nominal Outer Shield DC Resistance:** 



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	3.609
30.000	5.250
50.000	6.890
150.000	12.140
220.000	14.765
450.000	21.327
900.000	30.185
1500.000	39.372

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### **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



7807R Coax - RG-58 Type

1800.000	43.309
2000.000	45.934
2500.000	51.512
3000.000	57.418
4500.000	72.182
5800.000	82.681
6000.000	85.306

#### 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	С	RF200 WIRELESS 50OHM COAXFRPVC
7807R 010500	500 FT	15.000 LB	BLACK	С	RF200 WIRELESS 500HM COAXFRPVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 07-19-2013

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