Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7807A 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), polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax AWG Stranding		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

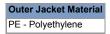
Outer Shield

Outer Shield Material:

Layer # Outer Shield Trade Name Ty		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:



Overall Cable

Overall Nominal Diameter: 0.195 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Non-UL Temperature Rating:	80°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

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

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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			
Su	itability				
	Suitability - Outdoor:	Yes			
	Suitability - Aerial:	Yes - When supported by a messenger			
	Suitability - Burial:	Yes			
Ple	enum/Non-Plenum				
	Plenum (Y/N):	No			

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:

Freg. (MHz) Attenuation (dB/100 ft.)				
* * * *	` '			
5.000	0.750			
10.000	1.100			
30.000	1.600			
50.000	2.100			
150.000	3.700			
220.000	4.500			
450.000	6.500			
900.000	9.200			
1500.000	12.000			
1800.000	13.200			
2000.000	14.000			
2500.000	15.700			
3000.000	17.500			

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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 - Non-UL:

Voltage 300 V RMS

Sweep Test

Sweep Testing: 100% Sweep tested to 6 GHz

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7807A 0101000	1,000 FT	26.000 LB	BLACK	С	RF200 WIRELESS 50 OHM COAX PE
7807A 010500	500 FT	15.000 LB	BLACK	С	RF200 WIRELESS 50 OHM COAX PE

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 09-11-2012

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