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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	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
PE - Polyethylene

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

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

RG Type: 58/U

Series Type: RF 200

Suitability

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/ft)
.061

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
23.5

Nominal Velocity of Propagation:

VP (%)
85

Nominal Delay:

Delay (ns/ft)
1.19

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.2

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	0.750
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
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

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7807A Coax - RG-58 Type

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	C	RF200 WIRELESS 50 OHM COAX PO
7807A 010500	500 FT	15.000 LB	BLACK	C	RF200 WIRELESS 50 OHM COAX PO

Notes:

C = CRATE REEL PUT-UP.

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