



7807A

Part Number: 7807A

RG-58 Type

Product 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.

Product Specifications

Conductor

Total Number of Conductors:

1

Technical Specifications

APAC Standard

Mil Order #39 (China RoHS):

Yes

Bend Radius

Min Bend Radius/Minor Axis:

2 in

CCB-Part Number

Notes:

Belden® The Wire in Wireless®

CCB-Sub-Part Number

Plenum (Y/N):

No

Connectors

Suggested Connectors:

Mates with standard Land Mobile Radio type connectors.

Contact Information

PHONE_NUM:	1-800-Belden1
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EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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Environmental Characteristics

Operating Temp Range:	-40°C To +75°C
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EU Directive

EU CE Mark:	No
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EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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General Electrical Parameters

Sweep Testing:	100% Sweep tested to 6 GHz
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North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
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RG Type:	58/U
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Series Type:	RF 200
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Temperature Range

Non-UL Temp Rating:	80°C
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Use

Max Recommended Pulling Tension:	25.4 lbs
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Impedance:

Nominal Characteristic Impedance

50 Ohm

Inductance:

Nominal Inductance

0.061 μ H/ft

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
3.3 Ohm/1000ft	4.2 Ohm/1000ft

Power Rating:

Frequency [MHz]	Max. Power Rating [W]
30 MHz	1,070 W
50 MHz	813 W
150 MHz	450 W
220 MHz	372 W
450 MHz	256 W
900 MHz	178 W
1,500 MHz	136 W
1,800 MHz	123 W
2,000 MHz	117 W
2,500 MHz	104 W
3,000 MHz	94 W
3,500 MHz	87 W
4,500 MHz	76 W
5,800 MHz	67 W
6,000 MHz	66 W

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP)
1.19 ns/ft	85 %

Voltage:

Non-UL Voltage Rating
300V RMS

VSWR:

Frequency [MHz]	Max. VSWR
	1.25:1

5 MHz	
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6000 MHz	
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Capacitance:

Nominal Capacitance Conductor to Shield

23.5 pF/ft

High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. Insertion Loss
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5 MHz	0.75 db/100ft
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10 MHz	1.1 db/100ft
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30 MHz	1.6 db/100ft
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50 MHz	2.1 db/100ft
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150 MHz	3.7 db/100ft
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220 MHz	4.5 db/100ft
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450 MHz	6.5 db/100ft
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900 MHz	9.2 db/100ft
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1500 MHz	12 db/100ft
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1800 MHz	13.2 db/100ft
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2000 MHz	14 db/100ft
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2500 MHz	15.7 db/100ft
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3000 MHz	17.5 db/100ft
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4500 MHz	22 db/100ft
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5800 MHz	25.2 db/100ft
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6000 MHz	26 db/100ft
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Insulation:

Material	Nominal Diameter
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Gas-injected FHDPE - Foam High Density Polyethylene	0.116 in
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Outerjacket 1:

Material	Nominal Diameter
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PE - Polyethylene	0.195 in
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Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
17	Solid	BC - Bare Copper	0.044 in	1

Outersheild 1:

Type	Layer	Material	Material Trade Name	Coverage
Tape	1	Aluminum Foil- Polyester Tape- Aluminum Foil	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Product Variants

Part Number	Color	Put-Up Type	Length
7807A 0101000	BLACK	Reel	1000 ft
7807A 010500	BLACK	Reel	500 ft

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