

METRIC MEASUREMENT VERSION

7810A Coax - RG-8 Type

For more Information please call

1-800-Belden1



General Description:

RG-8 type, 10 AWG solid .108" bare copper-covered aluminum conductor, gas-injected foam HDPE insulation, Duobond® II + tinned copper braid shield (95% coverage), polyethylene jacket.

Physical Characteristics (Overall)			
Conductor AWG:			
# Coax AWG Stranding Conductor Material	Dia. (mm)		
1 10 Solid BCCA - Bare Copper Covered Alu	uminum 2.7432		
Total Number of Conductors:	1		
Insulation Insulation Material:			
Insulation Material Dia	a. (mm)		
Gas-injected FHDPE - Foam High Density Polyethylene 7.2	239		
Outer Shield Outer Shield Material:			
Layer # Outer Shield Trade Name Type Outer Shield M	aterial Coverage (%)		
	um Foil-Polyester Tape-Aluminum Foil 100		
2 Braid TC - Tinned Cop	pper 95		
Outer Jacket Material: Outer Jacket Material PE - Polyethylene			
Overall Cable			
Overall Nominal Diameter:	10.236 mm		
Mechanical Characteristics (Overall)			
Operating Temperature Range:	-40°C To +75°C		
Non-UL Temperature Rating:	80°C		
Bulk Cable Weight:	104.174 Kg/Km		
Max. Recommended Pulling Tension:	667.230 N		
Min. Bend Radius/Minor Axis:	101.600 mm		
Applicable Specifications and Agency Comp	oliance (Overall)		
Applicable Standards & Environmental Program	IS		
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 & Cal	ble): Yes	
MII Order #39 (China RoHS):	Yes	
RG Type:	8/U	
Series Type:	RF 400	
Suitability Plenum/Non-Plenum		
Plenum (Y/N):	No	

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/m)

0.19686

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

75.463

Nominal Velocity of Propagation:

VP (%) 86

Nominal Delay:

Delay (ns/m) 3.83877

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

4.39654

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

6.562

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)

• • • •	· · · ·
30	2.2967
50	2.9529
150	4.9215
220	5.9058
450	8.8587
900	12.4678
1500	16.7331
1800	18.3736
2000	19.686
2500	21.9827
3000	24.6075
3500	26.9042
4500	31.1695
5800	36.4191
6000	37.4034

Max. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

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30	2.2967
50	3.05133
150	5.18398
220	6.36514
450	9.28523
900	13.3209
1500	17.4549
1800	19.6204
2000	20.8344
2500	23.2295
3000	26.1496
3500	28.8728
4500	33.5646
5800	39.372
6000	40.1266

Max. Power Rating:

Freq. (MHz)	Rating (W)
30	3427
50	2588
150	1428
220	1195
450	817
900	575
1500	437
1800	399
2000	375
2500	334
3000	305
3500	282
4500	247
5800	217
6000	213

Max. Operating Voltage - Non-UL:

Voltage

300 V RMS

Sweep Test

Sweep Testing:

100% Sweep tested to 6 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7810A 0101000	1,000 EA	79.000 LB	BLACK	С	RF400 WIRELESS 50 OHM COAX PO
7810A 010500	500 FT	39.000 LB	BLACK	С	RF400 WIRELESS 50 OHM COAX PO

Notes:

C = CRATE REEL PUT-UP.

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