Detailed Specifications & Technical Data





7810A Coax - RG-8 Type

For more Information please call

1-800-Belden1



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. (in.)
1 10 Solid BCCA - Bare Copper Cover	
Insulation	
Insulation Material:	
Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethyler	ne .285
Outer Shield	
Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shi	ield Material Coverage (%)
	luminum Foil-Polyester Tape-Aluminum Foil 100
2 Braid TC - Tinne	ed Copper 95
Duter Jacket	
Outer Jacket Material:	
Outer Jacket Material	
PE - Polyethylene	
Overall Cable	
Overall Nominal Diameter:	0.403 in.
lechanical Characteristics (Overall)	
Operating Temperature Range:	-40°C To +75°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	77 lbs/1000 ft.
Max. Recommended Pulling Tension:	150 lbs.
Min. Bend Radius (Install)/Minor Axis:	4 in.
pplicable Specifications and Agency C	compliance (Overall)
Applicable Standards & Environmental Prog	
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
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Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



							7810Δ	Coax - RG-8
Mil Ordor	#20 (Chin			Yes				
	*#39 (China			B/U				
RG Type:								
Series Ty	vpe:		F	RF 400				
Suitability								
Suitabilit	y - Outdoo	r:	`	Yes				
Suitabilit	y - Aerial:		Ň	Yes - When s	supported by a me	essenger		
Suitabilit	y - Burial:		Ň	Yes				
Plenum/Nor	n-Plenum							
Plenum (Y/N):		1	No				
Inductance 0.060 Nom. Capacit Capacitance 23.0	ance Cond	ductor to Shield	:					
Nominal Velo VP (%) 86	city of Pro	pagation:						
Nominal Dela Delay (ns/ft) 1.17								
Nom. Conduct DCR @ 20°C 1.34 Nominal Oute DCR @ 20°C	C (Ohm/1000 er Shield D	ft) C Resistance:						
2								
Maximum VS	WR:							
		Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR				
		5	6000	1.25:1				
Nom. Attenua	tion:							
Freq. (MHz)		(dB/100 ft.)						
30	0.7							
50	0.9							
150	1.5							
220	1.8							
450	0.7							

 4500
 9.5

 5800
 11.1

 6000
 11.4

2.7

3.8

5.1

5.6

6.0

6.7

7.5

8.2

450

900

1500

1800

2000

2500

3000

3500

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7810A Coax - RG-8 Type

Freq. (MHz)	Attenuation (dB/100 ft.)
30	0.70
50	0.93
150	1.58
220	1.94
450	2.83
900	4.06
1500	5.32
1800	5.98
2000	6.35
2500	7.08
3000	7.97
3500	8.80
4500	10.23
5800	12.00
6000	12.23

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®

Related Documents:

No related documents are available for this product

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 PE
7810A 010500	500 FT	39.000 LB	BLACK	С	RF400 WIRELESS 50 OHM COAX PE

Notes:

C = CRATE REEL PUT-UP.

ENGLISH MEASUREMENT VERSION



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