Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8221 Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



General Description:

22 AWG solid bare copper-covered steel conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall) Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	Solid	BCCS - Bare Copper Covered Steel	.025

Total Number of Conductors:

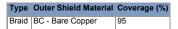
Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.146

Outer Shield

Outer Shield Material:



Outer Jacket

Outer Jacket Material:

Suitability - Aerial:

Outer Jacket Material PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:

0.242 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	34 lbs/1000 ft.
Max. Recommended Pulling Tension:	88 lbs.
Min. Bend Radius/Minor Axis:	2.500 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		
	MII Order #39 (China RoHS):	Yes		
	RG Type:	59/U		
Su	tability			
	Suitability - Indoor:	Yes		
	Suitability - Outdoor:	Yes		

Yes - When supported by a messenger wire.

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Plen	um/Non-Plenum	
	Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

VP (%)

Nominal Delay:

Delay (ns/ft) 1.3

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.44
10	.90
50	2.0
100	2.9
200	4.1
400	5.9
700	7.8
900	8.8
1000	9.9

Max. Operating Voltage - Non-UL:

300 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8221 010U1000	1,000 FT	36.000 LB	BLACK		RG59/U TYPE COAX
8221 010U500	500 FT	18.500 LB	BLACK		RG59/U TYPE COAX
8221 0101000	1,000 FT	37.000 LB	BLACK	С	RG59/U TYPE COAX
8221 010500	500 FT	18.500 LB	BLACK		RG59/U TYPE COAX

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 07-03-2012

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