Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION



82108 Coax - CATV Cable

For more Information please call

1-800-Belden1



General Description:

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, plenum, foam FEP insulation, Duofoil® (100% coverage) + TC braid shield (95% coverage), Flamarrest® jacket.

Duotolile (100% coverage) + 10 braid shield (95% coverage), Flamarreste jacket.			
Physical Characteristics (Overall)			
Conductor AWG:			
# Coax AWG Stranding Conductor Material Dia. (mm)			
1 20 Solid BCCS - Bare Copper Covered Steel 0.8128			
Total Number of Conductors: 1			
Insulation Insulation Material:			
Insulation Trade Name Insulation Material Dia. (mm)			
Teflon® FFEP - Foam Fluorinated Ethylene Propylene 3.556			
Outer Shield Outer Shield Material:			
Layer # Outer Shield Trade Name Type Outer Shield Material Coverage (%)			
1 Duofoil® Tape Aluminum Foil-Polyester Tape 100.000 2 Braid TC - Tinned Copper 95.000			
2 Braid TC - Tinned Copper 95.000			
Outer Jacket Outer Jacket Material:			
Outer Jacket Trade Name Outer Jacket Material			
Flamarrest® LS PVC - Low Smoke Polyvinyl Chloride			
Overall Cable			
Overall Nominal Diameter: 5.131 mm			
Mechanical Characteristics (Overall)			
Operating Temperature Range: 0°C To +75°C			
Non-UL Temperature Rating: 75°C			
Bulk Cable Weight: 47.622 Kg/Km			
Max. Recommended Pulling Tension:444.820 N			
Min. Bend Radius/Minor Axis: 50.800 mm			
Applicable Specifications and Agency Compliance (Overall)			
Applicable Standards & Environmental Programs			
NEC/(UL) Specification: CMP, CATVP			
CEC/C(UL) Specification: CMP, CXC			
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			

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EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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
Series Type:	Series 59
Flame Test	
UL Flame Test:	NFPA 262
CSA Flame Test:	FT4, FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.29529

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 54.1365

04.1000

Nominal Velocity of Propagation:

VP (%) 82

Nominal Delay:

Delay (ns/m) 4.06844

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

85.306

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.5306

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
10	2.6248
50	5.9058
100	8.5306
200	12.1397
400	17.7174
700	23.9513
900	27.5604
1000	29.2009

Max. Attenuation:

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

10	3.01852
50	6.8901
100	9.5149
200	13.7802
400	19.3579

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700	25.9199	
900	29.529	
1000	30.8414	

Max. Operating Voltage - UL:

Voltage

300 V RMS

Other Electrical Characteristic 1:

Max Attenuation 10 MHz and above = 0.2856*Freq(MHz)^0.5065

Minimum Structural Return Loss:

10 400 20	Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
10 400 20			10	400	20

Sweep Test

Sweep Testing:

10 - 400 MHz

Misc. Information (Overall)

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82108 877U1000	1,000 FT	34.000 LB	NATURAL		#20 FFEP RG 59/U FLRST
82108 8771000	1,000 FT	34.000 LB	NATURAL	С	#20 FFEP RG-59/U FLRST

Notes:

C = CRATE REEL PUT-UP.

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