Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

89108 Coax - CATV Cable

For more Information please call

1-800-Belden1



Description:

BE

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

	Duololis (100% coverage) + 10 braid shield (95% coverage), FEF 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 D	ia. (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 2 Braid TC - Tinned Copper	100.000 95.000				
	93.000				
Outer Jacket Outer Jacket Material:					
Outer Jacket Trade Name Outer Jacket Material					
Teflon® FEP - Fluorinated Ethylene Propylene					
Overall Cable					
Overall Nominal Diameter: 5.156 mm					
Mechanical Characteristics (Overall)					
Operating Temperature Range: -70°C To +2	200°C				
Non-UL Temperature Rating: 200°C					
Bulk Cable Weight: 50.599 Kg/H	 (m				
Max. Recommended Pulling Tension: 444.820 N					
Min. Bend Radius/Minor Axis: 50.800 mm					
Applicable Specifications and Agency Compliance (O	verall)				
Applicable Standards & Environmental Programs					
NEC/(UL) Specification: CATVP, CM	IP				
CEC/C(UL) Specification: CMP					
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): 04/01/2005					

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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	
CSA Flame Test:	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

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	2.2967
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
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: Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Min. SRL (dB) 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
89108 0101000	305 MT	16.329 KG	BLACK	С	#20 FFEP SH FEP
89108 010500	152 MT	7.711 KG	BLACK	С	#20 FFEP SH FEP

Notes:

C = CRATE REEL PUT-UP.

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