Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



89108 Coax - CATV Cable

For more Information please call

1-800-Belden1



Description:

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.

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

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 +200°C
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	50.599 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:	CATVP, CMP
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

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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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