Detailed Specifications & Technical Data

ENGLISH 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.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax AWG Stranding		Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BCCS - Bare Copper Covered Steel	.032

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	.140

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	
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	

Overall Cable

Overall Nominal Diameter: 0.202 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	0°C To +75°C		
Non-UL Temperature Rating:	75°C		
Bulk Cable Weight:	32 lbs/1000 ft.		
Max. Recommended Pulling Tension:	100 lbs.		
Min. Bend Radius/Minor Axis:	2 in.		

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
UL Flame Test: CSA Flame Test: Plenum/Non-Plenum	FT4, FT6

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



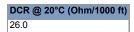
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	.8
50	1.8
100	2.6
200	3.7
400	5.4
700	7.3
900	8.4
1000	8.9

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	.92
50	2.1
100	2.9
200	4.2
400	5.9

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700	7.9	
900	9.0	
1000	9.4	

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
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.

Revision Number: 3 Revision Date: 09-24-2012

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