Detailed Specifications & Technical Data





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.

		II)								
nysical Charact	eristics (Ove	eraii)								
onductor AWG:										
# Coax AWG Stra	Inding Conducto	or Mate	rial Dia. (in.)						
1 20 Solie	d BCCS - Ba	are Co	oper Covered Steel .032							
Total Number of	Conductors:		1							
sulation Insulation Materia	l.									
Insulation Trade N		Materia	al	Dia. (in.)						
Teflon®	FFEP - Foa	ım Fluc	rinated Ethylene Propylene	.140						
uter Shield Outer Shield Mate	rial:									
Layer # Outer Shi	ield Trade Name	Туре	Outer Shield Material	Coverage (%))					
1 Duofoil®			Aluminum Foil-Polyester Tap		_					
2		Braid	TC - Tinned Copper	95.000						
Flamarrest® verall Cable			Smoke Polyvinyl Chloride							
Flamarrest® verall Cable Overall Nominal	LS PVC	- Low S	Smoke Polyvinyl Chloride 0.202 in.						_	_
Flamarrest® vverall Cable Overall Nominal echanical Chara	LS PVC Diameter: acteristics ((- Low S	Smoke Polyvinyl Chloride 0.202 in.	'5°C						
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp	LS PVC Diameter: acteristics (f erature Range:	- Low S	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7	'5°C				_		
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera	LS PVC Diameter: acteristics (f erature Range: ature Rating:	- Low S	Smoke Polyvinyl Chloride 0.202 in.				_			
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp	LS PVC Diameter: acteristics (f erature Range: ature Rating: ht:	- Low S	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100							
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig	LS PVC Diameter: acteristics (f erature Range: ature Rating: ht: nded Pulling Te	- Low S	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100							
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig Max. Recommer Min. Bend Radiu	LS PVC Diameter: acteristics (f erature Range: ature Rating: ht: ided Pulling Te is/Minor Axis:	- Low S Over : ensior	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100 I: 100 lbs.	00 ft.						
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig Max. Recommer Min. Bend Radiu	LS PVC Diameter: acteristics (f erature Range: ature Rating: ht: hded Pulling Te s/Minor Axis: fications and	Over over	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100 i: 100 lbs. 2 in. ency Compliance (00 ft.						
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig Max. Recommen Min. Bend Radiu	LS PVC Diameter: acteristics (ferature Range: ature Rating: ature Rating	Over over	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100 i: 100 lbs. 2 in. ency Compliance (00 ft. Overall)						
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig Max. Recommer Min. Bend Radiu oplicable Specif pplicable Standa	LS PVC Diameter: acteristics (f erature Range: ature Rating: ht: nded Pulling Te s/Minor Axis: fications and rds & Environ ication:	Over over	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100 i: 100 lbs. 2 in. ency Compliance (ntal Programs	00 ft. Overall)						
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig Max. Recommen Min. Bend Radiu oplicable Specif pplicable Standa NEC/(UL) Specif	LS PVC Diameter: acteristics (ferature Range: ature Rating: ature Ature Rating: ature atur	- Low S Over ension d Ag nmer	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100 i: 100 lbs. 2 in. ency Compliance (ntal Programs CMP, CA	00 ft. Overall)						
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig Max. Recommer Min. Bend Radiu oplicable Specif pplicable Standa NEC/(UL) Specif CEC/C(UL) Specif	LS PVC Diameter: acteristics (ferature Range: ature Rating: ature Ature Rating: ature atur	- Low S Over ension d Ag nmer	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100 i: 100 lbs. 2 in. ency Compliance (ital Programs CMP, CA CMP, CA	00 ft. Overall)						
Flamarrest® overall Cable Overall Nominal echanical Chara Operating Temp Non-UL Tempera Bulk Cable Weig Max. Recommer Min. Bend Radiu oplicable Specif pplicable Standa NEC/(UL) Specif CEC/C(UL) Specif EU Directive 201	LS PVC Diameter: acteristics (ferature Range: ature Rating: ht: nded Pulling Tens s/Minor Axis: fication Axis: fications and ication: ification: 1/65/EU (ROHS	- Low S Over : ensior d Ag nmer S II):	Smoke Polyvinyl Chloride 0.202 in. all) 0°C To +7 75°C 32 lbs/100 100 lbs. 2 in. ency Compliance (ntal Programs CMP, CA CMP, CX0 Yes	00 ft. Overall)						

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ENGLISH MEASUREMENT VERSION



82108 Coax - CATV Cable

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/ft)

.09

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.5

Nominal Velocity of Propagation:

VP (%) 82

Nominal Delay:

Delay (ns/ft) 1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

26.0

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:

	RL (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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