# **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	Conductor Material	Dia. (in.)	
1	20	Solid	BCCS - Bare Copper Covered Steel	.032	
Total Nu	ımber	of Conduct	ors:	1	

#### Insulation

#### Insulation Material:

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

#### **Outer Shield**

#### Outer Shield Material:

			Type	Outer Shield Material	Coverage (%)	
			Tape	Aluminum Foil-Polyester Tape	100.000	
			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
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

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Flame Test	t				
UL Flam	ne Test:	NF	PA 262		
CSA Fla	ame Test:	FT-	4, FT6		
Plenum/No	n-Plenum				
Plenum		Yes	s		
	Charactaristics (Overal	IV.			
	Characteristics (Overal eteristic Impedance:	1)			
Impedano	ce (Ohm)				
75					
Nom. Inducta					
.09	ce (µH/ft)				
Nom. Capaci	itance Conductor to Shield:				
Capacitar	nce (pF/ft)				
16.5					
	ocity of Propagation:				
<b>VP (%)</b>					
Nominal Dela	av:				
Delay (ns.					
1.24	atas DC Basistanası				
	ctor DC Resistance: 0°C (Ohm/1000 ft)				
26.0					
Nominal Out	er Shield DC Resistance:				
	0°C (Ohm/1000 ft)				
2.6					
Nom. Attenu					
10	Attenuation (dB/100 ft.)				
50	1.8				
100	2.6				
200	3.7				
400 700	7.3				
900	8.4				
1000	8.9				
Max. Attenua					
	Iz) Attenuation (dB/100 ft.)				
10 50	2.1				
100	2.9				
200	4.2				
400 700	5.9   7.9				
900	9.0				
1000	9.4				
Max. Operati	ing Voltage - UL:				
Voltage 300 V RM	S				
Other E	lectrical Characteristic 1:	Ма	x Attenuation 10 MHz and above = 0.2856*Freq(MHz)^0.5065		
Minimum Str	Minimum Structural Return Loss:				
Description		Hz) Stop Freq. (MHz) Min. SRL (d	IB)		
	10	400 20			
Sweep Tes					
Sweep	Testing:	10	- 400 MHz		
Misc. Infor	rmation (Overall)				

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

Notes (Overall)

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### **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

C = CRATE REEL PUT-UP.

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

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