

## 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 (96% coverage), FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

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

**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
2		Braid	TC - Tinned Copper	96

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material
Teflon®	FEP - Fluorinated Ethylene Propylene

**Overall Cable**

Overall Nominal Diameter: 0.203 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 34 lbs/1000 ft.

Max. Recommended Pulling Tension: 100 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP, CATVP

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

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	59/U
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Series Type:	Series 59
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**Flame Test**

C(UL) Flame Test:	FT6
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
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**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

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

2.6

**Nom. Attenuation:**

Freq. (MHz) Attenuation (dB/100 ft.)

10	.7
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
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 =  $0.2856 \cdot \text{Freq}(\text{MHz})^{0.5065}$ **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.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89108 0101000	1,000 FT	36.000 LB	BLACK	C	#20 FFEP SH FEP
89108 010500	500 FT	17.000 LB	BLACK	C	#20 FFEP SH FEP

**Notes:**

C = CRATE REEL PUT-UP.

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