

# Product: <u>89108</u> ♂

# CATV Video, RG59, 20 AWG BCCS, Foil + 95% Braid, CMP



## **Product 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.

# **Technical Specifications**

## **Product Overview**

Flou	Product Overview					
Suitab	le Application	ns:	CATV, Broad	dband		
Physical Characteristics (Overall)		II)				
Condu	onductor					
AWG	Stranding	Material		Nominal Dia	meter	No. of Coax
20	Solid	BCCS - Bare Copper Co	vered Steel	0.032 in		1
Conductor Count: 1		1				
Insulat	sulation					
Material		Material	Trade Name	Nomi	nal Diameter	
FEP - Fluorinated Ethylene Propylene (Foam)		ı) Teflon®		0.14 i	n	

#### **Outer Shield Material**

Туре	Layer	Material	Material Trade Name	Coverage [%]
Таре	1	Alum / Poly	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

#### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	Teflon®	0.203 in

#### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
26 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
16.5 pF/ft

### Inductance

Nominal Inductance
0.09 µH/ft

#### Impedance

Nominal Characteristic Impedance
75 Ohm

# Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
10 MHz	20 dB
400 MHz	20 dB

# High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	0.7 dB/100ft
50 MHz	1.8 dB/100ft
100 MHz	2.6 dB/100ft
200 MHz	3.7 dB/100ft
400 MHz	5.4 dB/100ft
700 MHz	7.3 dB/100ft
900 MHz	8.4 dB/100ft
1000 MHz	8.9 dB/100ft

### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82 %

# High Freq

Max. Insertion Loss (Attenuation)
0.92 dB/100ft
2.1 dB/100ft
2.9 dB/100ft
4.2 dB/100ft
5.9 dB/100ft
7.9 dB/100ft
9 dB/100ft
9.4 dB/100ft

#### Voltage

UL Voltage Rating

300 V RMS

# **Temperature Range**

Non-UL Temp Rating:	200°C
Operating Temp Range:	-70°C To +200°C

### **Mechanical Characteristics**

Bulk Cable Weight:	34 lbs/1000ft
Max Recommended Pulling Tension:	100 lbs
Min Bend Radius/Minor Axis:	2 in

# Standards

NEC/(UL) Specification:	CATVP, CMP
CEC/C(UL) Specification:	CMP
RG Type:	59/U Type
Series Type:	Series 59

# Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	Yes
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	No

#### Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT6
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):

#### **Part Number**

#### Variants

Item #	Color	Putup Type	Length	UPC
89108 010500	Black	Reel	500 ft	612825218333
89108 0101000	Black	Reel	1,000 ft	612825218319
Footnote:			C -	CRATE REEL PU
Product Note	as			
Product Note	es		Taf	lan is a veriatore
Notes:	es		Tefl	lon« is a registere
	es		Tef	lon« is a registere

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