

89108 Coax - CATV Cable



For more information please
call

1-800-Belden1

See Put-ups and Colors

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:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	59/U
Series Type	Series 59
AWG	20
Stranding	Solid
Conductor Diameter	.032 in.
Conductor Material	BCCS - Bare Copper Covered Steel

INSULATION:

Insulation Material Trade Name	Teflon®
Insulation Material	FFEP - Foam Fluorinated Ethylene Propylene
Insulation Diameter	.140 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duofoil®
Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	96

Outer Shield %Coverage	100 %
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OUTER JACKET:

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

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.203 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-70°C To +200°C
Non-UL Temperature Rating	200°C
Bulk Cable Weight	35 lbs/1000 ft.
Max. Recommended Pulling Tension	100 lbs.
Min. Bend Radius (Install)	2 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP, CATVP
CEC/C(UL) Specification	CMP
EU CE Mark (Y/N)	No
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005

FLAME TEST:

C(UL) Flame Test	FT6
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SWEEP TEST:

Sweep Testing	10 - 400 MHz
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PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.09 µH/ft
Nom. Capacitance Conductor to Shield	16.5 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	26 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	2.6 Ohms/1000 ft

Minimum Structural Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		10	400	20

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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 :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. 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 300 V RMS

Other Electrical Characteristic 1 Max Attenuation 10 MHz and above = $0.2856 * \text{Freq}(\text{MHz})^{0.5065}$

NOTES:

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	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
89108 0101000	#20 FFEP SH FEP	1000	34	BLACK	C
89108 010500	#20 FFEP SH FEP	500	17	BLACK	C

C = CRATE REEL PUT-UP.

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