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1-800-Belden1



General Description:

Surveillance & CCTV Cable, RG59, Plenum-CMP-FHC 25/50, 20 AWG bare copper Foamed FEP core, 95% bare copper braid, FEP jacket

Usage (Overall)

Suitable Applications: CCTV

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BC - Bare Copper	0.8128

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	3.429

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 4.902 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +200°C
UL Temperature Rating:	200°C
Bulk Cable Weight:	46.134 Kg/Km
Max. Recommended Pulling Tension:	231.306 N
Min. Bend Radius/Minor Axis:	44.450 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	Limited Combustible FHC 25/50 CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
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
MIL Order #39 (China RoHS):	Yes
RG Type:	59/U

Series Type: Series 59

Flame Test

UL Flame Test: UL723 (NFPA 255)

Plenum/Non-Plenum

Plenum (Y/N): Yes

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

52.8241

Nominal Velocity of Propagation:

VP (%)

84

Nominal Delay:

Delay (ns/m)

3.97001

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

32.81

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.95149
3	1.90298
5	2.2967
8	2.85447
10	3.44505
50	5.9058
100	8.8587
200	12.7959
400	19.3579
700	27.8885
900	32.81
1000	35.1067

Max. Operating Voltage - UL:

Voltage

300 V RMS

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
7986LC 0101000	1,000 FT	33.000 LB	BLACK	C	#20 FFEP BRD FEP
7986LC 010500	500 FT	17.000 LB	BLACK	C	#20 FFEP BRD FEP

Notes:

C = CRATE REEL PUT-UP.

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