



Product: [7986LC](#)

Surveillance CCTV, RG-59 #20 BC, 95% BC Braid, CMP-FHC 25/50

Product Description

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

Technical Specifications

Product Overview

Suitable Applications:	Surveillance, CCTV Camera
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1

Conductor Count:	1
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Insulation

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	Teflon®	0.133 in

Outer Shield

Type	Layer	Material	Coverage [%]
Braid	1	Bare Copper (BC)	95%

Outer Jacket

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	Teflon®	0.193 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
10 Ohm/1000ft	10 Ohm/1000ft	2.5 Ohm/1000ft	2.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.1 pF/ft

Inductance

Nominal Inductance
0.097 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.29 dB/100ft
3 MHz	0.58 dB/100ft
5 MHz	0.7 dB/100ft
8 MHz	0.87 dB/100ft
10 MHz	1.05 dB/100ft
50 MHz	1.8 dB/100ft
100 MHz	2.7 dB/100ft
200 MHz	3.9 dB/100ft
400 MHz	5.9 dB/100ft
700 MHz	8.5 dB/100ft
900 MHz	10 dB/100ft
1000 MHz	10.7 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
84 ns/100m	1.21 ns/ft	84%

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	200°C
Operating Temperature Range:	-40°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	31 lbs/1000ft
Max. Pull Tension:	55 lbs
Min Bend Radius (Overall Cable):	1.04
Min. Bend Radius/Minor Axis:	1.9 in

Standards

NEC/(UL) Compliance:	Limited Combustible FHC 25/50 CMP
RG Type:	59
Series Type:	59

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL723 (NFPA 255)
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
7986LC 010500	Black	Reel	500 ft	612825192480
7986LC 0101000	Black	Reel	1,000 ft	612825192473

Footnote: C - CRATE REEL PUT-UP.

Product Notes

Notes: Print legend includes sequential footage marks.

History

Update and Revision: Revision Number: 0.396 Revision Date: 05-05-2023

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