



Product: [543945](#)

Surveillance CCTV, RG-59 #20 BC, 90% BC Braid, CMG

Product Description

Surveillance & CCTV Cable, RG59, Rated-CMG, 20 AWG solid bare copper, foam polyolefin core, 90% bare copper braid, PVC 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

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.145 in

Table Notes:	Gas Injected
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Outer Shield

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	90%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.232 in

Weight:	0.675 lbs
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Construction and Dimensions

OuterJacket1, Nominal Width:	0.7 mm
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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	3.3 Ohm/1000ft	3.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.3 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	0.3 dB/100ft
5 MHz	0.65 dB/100ft
10 MHz	0.9 dB/100ft
50 MHz	1.9 dB/100ft
100 MHz	2.6 dB/100ft
200 MHz	3.6 dB/100ft
400 MHz	5 dB/100ft
700 MHz	7 dB/100ft
900 MHz	8 dB/100ft
1000 MHz	8.5 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
83 ns/100m	1.23 ns/ft	83%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.75 dB/100ft
50 MHz	2.15 dB/100ft

Voltage**UL Voltage Rating**

300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-30°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	29 lbs/1000ft
Max. Pull Tension:	57 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Dimensions (WxHxD)

Width	Height
0.69	0.63

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
CPR Euroclass:	Eca
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 Compliance:	Yes
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
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Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 FT4
IEC Flammability:	IEC 60332-1-2
IEEE Flammability:	IEEE 1202 Vertical Tray Flame Test
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	643948

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
543945 010500	Black	Reel	500 ft	612825162476
543945 010U500	Black	UnReel	500 ft	612825162469
543945 0101000	Black	Reel	1,000 ft	612825337089
543945 010U1000	Black	UnReel	1,000 ft	612825162452
543945 009500	White	Reel	500 ft	612825162445
543945 009U500	White	UnReel	500 ft	612825162421
543945 0091000	White	Reel	1,000 ft	612825162438
543945 009U1000	White	UnReel	1,000 ft	612825162414

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.419 Revision Date: 05-05-2023
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