



**Product:** [5439X5](#)

Surveillance CCTV, RG-59 #20 BC, 95% BC Braid, CM, Water-Blocked

**Product Description**

Surveillance & CCTV Cable, RG59, Rated-CM, 20 AWG solid bare copper, foam polyolefin core, 95% bare copper braid, water resistant tape, PVC jacket

**Technical Specifications**

**Product Overview**

Suitable Applications:	CATV, MATV, Wet Location, Below-Grade Duct
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**Physical Characteristics (Overall)**

Conductor

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

Insulation

Element	Material	Nominal Diameter
Coax(es)	PE - Polyethylene (Foam)	0.145 in

Table Notes:	Gas Injected
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Outer Shield

Type	Layer	Material	Coverage [%]
Braid	1	Bare Copper (BC)	95%
	2		

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.245 in

Table Notes:	Water resistant tape (over braid, under jacket)
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**Electrical Characteristics**

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
11.3 Ohm/1000ft	10 Ohm/1000ft	3.5 Ohm/1000ft	3.5 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	1.22 ns/ft	83%

Voltage

UL Voltage Rating
300 V

Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	29 lbs/1000ft
Max. Pull Tension:	51 lbs
Min. Bend Radius During Installation:	2.45 in
Min. Bend Radius/Minor Axis:	2.5 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CM
CPR Euroclass:	Eca
RG 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 - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
5439X5 0101000	Black	Reel	1,000 ft	612825162391

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Print legend includes sequential footage marks.
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History

Update and Revision:	Revision Number: 0.379 Revision Date: 04-29-2024
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