



**Product:** [5439W5](#)

Surveillance CCTV, RG-59 #20 BC, Duobond+95% TC Braid, CM, Gel Fill

**Product Description**

Surveillance & CCTV Cable, RG59, Rated-CM, 20 AWG solid bare copper, foam polyolefin core, Duobond® + 95% tinned copper braid, CoreGuard® gel filled, PVC jacket

**Technical Specifications**

**Product Overview**

Suitable Applications:	CATV, MATV, Wet Location, Below-Grade Duct
------------------------	--

**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count:	1
------------------	---

**Insulation**

Layer	Material	Nominal Diameter
1	PE - Polyethylene (Foam)	0.145 in

Table Notes:	Gas Injected
--------------	--------------

**Outer Shield**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duobond®	100%
Braid	2	Tinned Copper (TC)		95%

Table Notes:	Coreguard®
--------------	------------

**Outer Jacket**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.236 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**

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield
1 pF/ft	16.3 pF/ft
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
5 MHz	0.63 dB/100ft
10 MHz	0.87 dB/100ft
50 MHz	1.7 dB/100ft
100 MHz	2.3 dB/100ft
200 MHz	3.4 dB/100ft
400 MHz	4.7 dB/100ft
700 MHz	6.3 dB/100ft
900 MHz	7.3 dB/100ft
1000 MHz	7.8 dB/100ft

**Delay**

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
83 ns/100m	1.22 ns/ft	83%

**High Frequency**

Frequency [MHz]
1 MHz
5 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz
700 MHz
900 MHz
1000 MHz

**Voltage****UL Voltage Rating**

300 V RMS

**Temperature Range**

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

**Mechanical Characteristics**

Bulk Cable Weight:	32 lbs/1000ft
Max. Pull Tension:	51 lbs
Min. Bend Radius/Minor Axis:	2.4 in

**Standards**

NEC Articles:	Article 800
NEC/(UL) Compliance:	CL2, 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