



For more Information
please call

1-800-Belden1



General Description:

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

Usage (Overall)

Suitable Applications: Low Voltage, Sunlight Resistant, Moisture Resistant, CCTV, Surveillance, CATV, MATV

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 Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	3.683

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duobond®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Shield Flooding Grease: Coreguard®

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 5.994 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 253.547 N

Min. Bend Radius/Minor Axis: 63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

NEC Articles: 800

CEC/C(UL) Specification: CM

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): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

METRIC MEASUREMENT VERSION

5439W5 Coax - CCTV, CATV and MATV Applications

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

Flame Test

UL Flame Test:	UL1685 UL Loading
C(UL) Flame Test:	FT1

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/m)
0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.4803

Nominal Velocity of Propagation:

VP (%)
83

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
5	2.06703
10	2.85447
50	5.5777
100	7.5463
200	11.1554
400	15.4207
700	20.6703
900	23.9513
1000	25.5918

Max. Operating Voltage - UL:

Voltage
300 V RMS

Notes (Overall)

Notes: Can be used for MATV applications. Recommend 1545A or 1546A for CATV applications.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5439W5 010U1000	1,000 FT	34.000 LB	BLACK		#20 PE/GIFHD SH PVC
5439W5 010I1000	1,000 FT	34.000 LB	BLACK	C	#20 PE/GIFHD SH PVC
5439W5 010500	500 FT	17.500 LB	BLACK		#20 PE/GIFHD SH PVC

METRIC MEASUREMENT VERSION

5439W5 Coax - CCTV, CATV and MATV Applications

Notes:

C = CRATE REEL PUT-UP.

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