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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. (in.)
1	20	Solid	BC - Bare Copper	.032

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.145

#### 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: 0.236 in.

### Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 57 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

### 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

## 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/ft)

.097

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.3

### Nominal Velocity of Propagation:

VP (%)

83

### Nominal Delay:

Delay (ns/ft)

1.21

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.29
5	.63
10	.87
50	1.70
100	2.30
200	3.40
400	4.70
700	6.30
900	7.30
1000	7.80

### 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

**Notes:**

C = CRATE REEL PUT-UP.

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