# **Detailed Specifications & Technical Data**

### METRIC MEASUREMENT VERSION



### 5439W5 Coax - CCTV, CATV and MATV Applications

For more Information please call

1-800-Belden1



### **General Description:**

Usage (Overall)

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

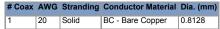
### Suitable Applications:

Low Voltage, Sunlight Resistant, Moisture Resistant, CCTV, Surveillance, CATV, MATV

### **Physical Characteristics (Overall)**

# Conductor

AWG:



**Total Number of Conductors:** 

#### Insulation

#### Insulation Material:

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

### **Outer Shield**

#### Outer Shield Material:

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

**Outer Shield Flooding Grease:** 

Corequard®

### **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:	СМ
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
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	EU Directive 2003/11/EC (BFR):	Yes
	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
	RG Type:	59/U
Fla	me Test	
	UL Flame Test:	UL1685 UL Loading
	C(UL) Flame Test:	FT1
Suitability		
	Suitability - Indoor:	Yes
	Suitability - Outdoor:	Yes
	Sunlight Resistance:	Yes
Ple	Plenum/Non-Plenum	
	Plenum (Y/N):	No

### **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 0101000	1,000 FT	34.000 LB	BLACK	С	#20 PE/GIFHD SH PVC
5439W5 010500	500 FT	17.500 LB	BLACK		#20 PE/GIFHD SH PVC

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Notes:

C = CRATE REEL PUT-UP.

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