


**Detailed Specifications &  
Technical Data**



**5439W5 Coax - New Generation®**

	<p><b>For more information please call</b> <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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**Description:**

Water-blocked Coax - Bare copper conductor, foam polyolefin insulation, foil plus braid shield, braid impregnated with Coreguard® flame retardant flooding compound, UV resistant PVC jacket. Sequential footage marking every two feet.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Coax	1
Total Number of Conductors	1
RG Type	59/U
AWG	20
Stranding	Solid
Conductor Diameter	.032 in.
Conductor Material	BC - Bare Copper

**INSULATION:**

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Diameter	.145 in.

**OUTER SHIELD:**

Outer Shield Material Trade Name	Duobond® II
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

Outer Shield % Coverage	100 %
Outer Shield Flooding Grease	Coreguard®

**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.236 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-30°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 (Install)	2.5 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CM
NEC Articles	800
CEC/C(UL) Specification	CM

**FLAME TEST:**

UL Flame Test	UL1581 Vertical Tray
C(UL) Flame Test	FT1

**SUITABILITY:**

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suitability - Aerial	Yes

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.097 µH/ft
Nom. Capacitance Conductor to Shield	16.3 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.21 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	10 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	2.5 Ohms/1000 ft
Nom. Attenuation :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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 300 V RMS

**NOTES:**

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

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
5439W5 0101000	#20 PE/GIFHD SH PVC	1000	36	BLACK	C
5439W5 010500	#20 PE/GIFHD SH PVC	500	17.5	BLACK	
5439W5 010U1000	#20 PE/GIFHD SH PVC	U1000	35	BLACK	
5439W5 010U500	#20 PE/GIFHD SH PVC	U500	17.5	BLACK	

C = CRATE REEL PUT-UP.

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