

**Detailed Specifications &
Technical Data**



543945 Coax - New Generation®

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

Bare copper conductor, foam polyethylene insulation, bare copper braid shield. PVC jacket. Sequential footage marking every two feet.

SUITABLE APPLICATIONS:

Suitable Applications	Analog Video/CCTV Coax.
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
RG Type	59/U
Series Type	Series 59
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 Type	Braid
Outer Shield Material	BC - Bare Copper
Outer Shield % Coverage	95 %

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.232 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	29 lbs/1000 ft.

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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 - Black only
Suitability - Aerial	Yes - Black only

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	10.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	3.5 Ohms/1000 ft

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.30
	5			.65
	10			.90
	50			1.90
	100			2.60
	200			3.60
	400			5.00
	700			7.00
	900			8.00
	1000			8.50

Max. Operating Voltage - UL	300 V RMS
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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
543945 0091000	RG-59/U COAX	1000	32	WHITE	C
543945 009500	RG-59/U COAX	500	16	WHITE	
543945 009U1000	RG-59/U COAX	U1000	32	WHITE	
543945 009U500	RG-59/U COAX	U500	16	WHITE	
543945 0101000	RG-59/U COAX	1000	32	BLACK	C
543945 010500	RG-59/U COAX	500	16	BLACK	C
543945 010U1000	RG-59/U COAX	U1000	32	BLACK	
543945 010U500	RG-59/U COAX	U500	16	BLACK	

C = CRATE REEL PUT-UP.

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