# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 543945 Coax - Surveillance and CCTV Applications

For more Information please call

1-800-Belden1



## **Description:**

20 AWG solid bare copper conductor, foam polyethylene insulation, bare copper braid shield, PVC jacket, sequential footage marking every two feet.

## **Usage (Overall)**

Suitable Applications: Analog Video/CCTV Coax.

## **Physical Characteristics (Overall)**

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BC - Bare Copper	.032

#### Insulation

**Insulation Material:** 

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

#### **Outer Shield**

**Outer Shield Material:** 

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

#### **Outer Jacket**

**Outer Jacket Material:** 

Outer Jacket Material
PVC - Polyvinyl Chloride

## **Overall Cabling**

Overall Nominal Diameter: 0.232 in.

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	29 lbs/1000 ft.
Max. Recommended Pulling Tension:	57 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

## **Applicable Specifications and Agency Compliance (Overall)**

## **Applicable Standards & Environmental Programs**

F			
NEC/(UL) Specification:	CMG		
NEC Articles:	800		
CEC/C(UL) Specification:	CMG		
EU CE Mark:	Yes		
EU Directive 2000/53/EC (ELV):	Yes		
EU Directive 2002/95/EC (RoHS):	Yes		

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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
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
Series Type:	Series 59
Flame Test	
UL Flame Test:	UL1685 FT4/IEEE 1202 Vertical Tray Flame Test
C(UL) Flame Test:	FT4
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only.
Plenum/Non-Plenum	
Plenum (Y/N):	No

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:

Inductance (µH/ft)

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) 10.0

**Nominal Outer Shield DC Resistance:** 

DCR @ 20°C (Ohm/1000 ft) 3.300

Nom. Attenuation:

Freq. (MHz)	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

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1000 8.50

#### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)		
5.000	0.750		
50.000	2.150		

#### Max. Operating Voltage - UL:

Voltage 300 V RMS

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
543945 009U1000	1,000 FT	31.000 LB	WHITE		RG-59/U COAX
543945 009U500	500 FT	16.000 LB	WHITE		RG-59/U COAX
543945 0091000	1,000 FT	32.000 LB	WHITE	С	RG-59/U COAX
543945 009500	500 FT	16.000 LB	WHITE		RG-59/U COAX
543945 010U1000	1,000 FT	31.000 LB	BLACK		RG-59/U COAX
543945 010U500	500 FT	16.000 LB	BLACK		RG-59/U COAX
543945 0101000	1,000 FT	32.000 LB	BLACK	С	RG-59/U COAX
543945 010500	500 FT	16.000 LB	BLACK	С	RG-59/U COAX

Notes:

C = CRATE REEL PUT-UP.

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