Belden



Product: 543945

Surveillance CCTV, RG-59 #20 BC, 90% BC Braid, CMG

Product Description

Surveillance & CCTV Cable, RG59, Rated-CMG, 20 AWG solid bare copper, foam polyolefin core, 90% bare copper braid, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Surveillance, CCTV Camera

Construction Details

RG Type:	59
Series Type:	59

Conductor

Element	No. of Elements	Size	Stranding	Nom. Diameter	Material
Coax(es)	1	20 AWG	Solid	0.032 in	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Coax(es)	PE - Polyethylene (Foam)	0.145 in (3.68 mm)	White

Insulation Table Notes:	Gas Injected

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	90%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.232 in (5.89 mm)

Overall Cable Diameter (Nominal):	0.232 in (5.89 mm)

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation	Max. Attenuation
1 MHz	0.3 dB/100ft	0.75 dB/100ft
5 MHz	0.65 dB/100ft	2.15 dB/100ft
10 MHz	0.9 dB/100ft	
50 MHz	1.9 dB/100ft	
100 MHz	2.6 dB/100ft	
200 MHz	3.6 dB/100ft	
400 MHz	5 dB/100ft	
700 MHz	7 dB/100ft	
900 MHz	8 dB/100ft	
1000 MHz	8.5 dB/100ft	

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
11.3 Ohm/1000ft	3.3 Ohm/1000ft (11 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
2.32 in (58.9 mm)	2.32 in (58.9 mm)

Max. Pull Tension:	57 lbs (26 kg)
Bulk Cable Weight:	29 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Aerial - Black only, When supported by messenger wire
Flammability / Reaction to Fire:	UL1685 FT4 loading , FT4, IEEE 1202 Vertical Tray Flame Test, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMG
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	643948

History

Update and Revision:	Revision Number: 0.595 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
543945 010500	Black	Reel	500 ft	612825162476	C
543945 010U500	Black	UnReel	500 ft	612825162469	
543945 0101000	Black	Reel	1,000 ft	612825337089	C
543945 010U1000	Black	UnReel	1,000 ft	612825162452	
543945 009500	White	Reel	500 ft	612825162445	
543945 009U500	White	UnReel	500 ft	612825162421	
543945 0091000	White	Reel	1,000 ft	612825162438	C
543945 009U1000	White	UnReel	1,000 ft	612825162414	

Footnote:	C - CRATE REEL PUT-UP.

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