



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
------------------------	---------------------------

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1

##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.145 in

Table Notes:	Gas Injected
--------------	--------------

##### Outer Shield

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	90%

##### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.232 in

Weight:	0.675 lbs
---------	-----------

#### Construction and Dimensions

OuterJacket1, Nominal Width:	0.7 mm
------------------------------	--------

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
10 Ohm/1000ft	10 Ohm/1000ft	3.3 Ohm/1000ft	3.3 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
16.3 pF/ft

##### Inductance

Nominal Inductance
0.097 µH/ft

##### Impedance

**Nominal Characteristic Impedance**

75 Ohm

**High Frequency (Nominal/Typical)**

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
5 MHz	0.65 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

**Delay**

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
83 ns/100m	1.23 ns/ft	83%

**High Frequency**

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.75 dB/100ft
50 MHz	2.15 dB/100ft

**Voltage****UL Voltage Rating**

300 V RMS

**Temperature Range**

UL Temp Rating:	75°C
Operating Temperature Range:	-30°C To +75°C

**Mechanical Characteristics**

Bulk Cable Weight:	29 lbs/1000ft
Max. Pull Tension:	57 lbs
Min. Bend Radius/Minor Axis:	2.5 in

**Dimensions (WxHxD)**

Width	Height
0.69	0.63

**Standards**

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
CPR Euroclass:	Eca
RG Type:	59
Series Type:	59

**Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

**Suitability**

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
-----------------------	--

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

## Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL 1685 FT4
IEC Flammability:	IEC 60332-1-2
IEEE Flammability:	IEEE 1202 Vertical Tray Flame Test
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	643948

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
543945 010500	Black	Reel	500 ft	612825162476
543945 010U500	Black	UnReel	500 ft	612825162469
543945 0101000	Black	Reel	1,000 ft	612825337089
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
543945 009U1000	White	UnReel	1,000 ft	612825162414

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

## History

Update and Revision:	Revision Number: 0.418 Revision Date: 12-19-2022
----------------------	--

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.