




**Product:** [643948](#) 

Surveillance CCTV, RG-59 #20 Sol BC, FFEP Core, BC Braid, Flamarrest® Jkt CMP

## Product Description

Surveillance, CCTV, RG-59, 20 AWG solid bare copper, foam FEP core, 95% bare copper braid, Low Smoke PVC jacket, CMP

## Technical Specifications

### Product Overview

Suitable Applications:	Surveillance, CCTV Camera
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### Construction Details

RG Type:	59
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#### Conductor

Size	Stranding	Nom. Diameter	Material
20 AWG	Solid	0.032 in	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.133 in (3.38 mm)	White

#### Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	95%

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.192 in (4.88 mm)

Overall Cable Diameter (Nominal): 0.192 in (4.88 mm)

### Electrical Characteristics

#### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.29 dB/100ft
3 MHz	0.58 dB/100ft
5 MHz	0.70 dB/100ft
8 MHz	0.87 dB/100ft
10 MHz	1.05 dB/100ft
50 MHz	1.80 dB/100ft
100 MHz	2.70 dB/100ft
200 MHz	3.90 dB/100ft
400 MHz	5.90 dB/100ft
700 MHz	8.50 dB/100ft
900 MHz	10.00 dB/100ft
1000 MHz	10.70 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
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10.0 Ohm/1000ft	2.5 Ohm/1000ft (8.2 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	84%
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## Voltage

<b>UL Voltage Rating</b>
300 V (CMP)

## Mechanical Characteristics

### Temperature

<b>UL Temperature</b>	<b>Operating</b>
75°C	-20°C to +75°C

### Bend Radius

<b>Installation Min.</b>
1.75 in (44.5 mm)

Max. Pull Tension:	42 lbs (19 kg)
Bulk Cable Weight:	29 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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)

## History

Update and Revision:	Revision Number: 0.557 Revision Date: 02-20-2026
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
643948 010U500	Black	UnReel	500 ft	612825176886	
643948 0101000	Black	Reel	1,000 ft	612825176893	C
643948 010U1000	Black	UnReel	1,000 ft	612825176879	
643948 877500	Natural				
643948 877U500	Natural	UnReel	500 ft	612825176916	
643948 8771000	Natural	Reel	1,000 ft	612825176923	C
643948 877U1000	Natural	UnReel	1,000 ft	612825176909	

Footnote:	C - CRATE REEL PUT-UP.
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