




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

Construction Details

RG Type:	59
----------	----

Conductor

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

Insulation

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

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.
10.0 Ohm/1000ft (32.8 Ohm/km)	2.5 Ohm/1000ft (8.2 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	84%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	0°C to +75°C

Bend Radius

Installation Min.
1.75 in

Max. Pull Tension:	42 lbs (19 kg)
Bulk Cable Weight:	26 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, FT6
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.381 Revision Date: 12-15-2021
----------------------	--

Variants

Item #	Color	Putup Type	Length	UPC
643948 010U500	Black	UnReel	500 ft	612825176886
643948 0101000	Black	Reel	1,000 ft	612825176893
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
643948 877U1000	Natural	UnReel	1,000 ft	612825176909

© 2022 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.