Belden



Product: 633948

Surveillance CCTV, RG-6 #18 BC, 95% BC Braid, CMP

Product Description

Surveillance & CCTV Cable, RG6, Plenum-CMP, 18 AWG solid bare copper, foam FEP core, 95% bare copper braid, Flamarrest® jacket

Technical Specifications

Product Overview

Suitable Applications:	Surveillance, CCTV Camera

Construction Details

RG Type:	6
Series Type:	6

Conductor

Element	No. of Elements	Size	Stranding	Nom. Diameter	Material
Coax(es)	1	18 AWG	Solid	0.040 in	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Coax(es)	FEP - Fluorinated Ethylene Propylene (Foam)	0.171 in (4.34 mm)	White

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.231 in (5.87 mm)

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.24 dB/100ft
3 MHz	0.45 dB/100ft
5 MHz	0.55 dB/100ft
8 MHz	0.7 dB/100ft
10 MHz	0.85 dB/100ft
50 MHz	1.5 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	3.1 dB/100ft
400 MHz	4.7 dB/100ft
700 MHz	6.8 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.
6.4 Ohm/1000ft	2.2 Ohm/1000ft (7.2 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
2.3 in (58 mm)	2.3 in (58 mm)

Max. Pull Tension:	84 lbs (38 kg)
Bulk Cable Weight:	38 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262 (UL 910), FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	PF_633948 (1)RG Type :-In Stibo series is 6 but it is not available in BPCS. (2)# Elements@Conductor1:-In Stibo it was Blank and now changed it to 1. (3)Size@Conductor1 :-In Stibo it was 18 now changed to 18 AWG (4)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White (5)Material@OuterShield1 1 - In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (Heat fusible+ Alum+ Poly+Alum) (6)Coverage@OuterShield1 2 - in stibo it was 95% Now changed to 94% (7)Cable diameter- it was blank now changed to 0.228 in

History

Update and Revision:	Revision Number: 0.626 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
633948 010U1000	Black	UnReel	1,000 ft	612825176176	
633948 008U1000	Gray	UnReel	1,000 ft	612825176152	
633948 877500	Natural	Reel	500 ft	612825176237	C
633948 877U500	Natural	UnReel	500 ft	612825176213	
633948 8771000	Natural	Reel	1,000 ft	612825176220	C
633948 877U1000	Natural	UnReel	1,000 ft	612825176206	
633948 0071000	Violet	Reel	1,000 ft	612825176145	C
633948 009U1000	White	UnReel	1,000 ft	612825176169	

Footnote:	C - CRATE REEL PUT-UP.

© 2025 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.