Belden



Product: 533945

Surveillance CCTV, RG-6 #18 Sol BC, FPE Core, BC Braid, PVC Jkt, CMG

Product Description

Surveillance, CCTV, RG-6, 18 AWG solid bare copper, foam PE core, 92% bare copper braid, PVC jacket, CMG

Technical Specifications

Product Overview

Suitable Applications:	Surveillance, CCTV Camera

Construction Details

RG Type:	6

Conductor

Size	Stranding	Nom. Diameter	Material
18 AWG	Solid	0.040 in	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene (Foam)	0.180 in (4.57 mm)	White	Gas Injected

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	92%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.266 in (6.76 mm)

Overall Cable Diameter (Nominal):	0.266 in (6.76 mm)

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.24 dB/100ft
10 MHz	0.72 dB/100ft
50 MHz	1.50 dB/100ft
100 MHz	2.00 dB/100ft
200 MHz	2.90 dB/100ft
400 MHz	4.20 dB/100ft
700 MHz	5.60 dB/100ft
900 MHz	6.40 dB/100ft
1000 MHz	7.00 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	2.7 Ohm/1000ft (8.9 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V (CMG)

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
2.7 in (69 mm)

Max. Pull Tension:	56 lbs (25 kg)
Bulk Cable Weight:	37 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Sunlight Resistance, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL1685 FT4 Loading, Limited Smoke
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMG
CEC / C(UL) Compliance:	CMG
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)
Other Standard Compliance(s):	P-07-KA110035-MSHA

History

Update and Revision:	Revision Number: 0.553 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
533945 010500	Black	Reel	500 ft	612825161066	C
533945 0101000	Black	Reel	1,000 ft	612825161059	C
533945 010U1000	Black	UnReel	1,000 ft	612825161042	
533945 0091000	White	Reel	1,000 ft	612825161035	C
533945 009U1000	White	UnReel	1,000 ft	612825161028	

Footnote:	C - CRATE REEL PUT-UP.

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