Belden



Product: 533945E

Life Cycle Status: Discontinued

Replaced by: 533945

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

Product Description

Surveillance and CCTV Cable, Coax RG6/U, Solid bare copper, gas injected polyethylene, 90% bare copper braid, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Coaxial cable used in analogue video and CCTV communication networks designed according European Standard EN 50117-1; Operating at frequencies between 5 and 1000 MHz

Product Life Cycle

Life Cycle:	Discontinued - the product is no longer manufactured

Construction Details

RG Type:	6

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	1.02 mm	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	4.57 mm (0.180 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	93%

Outer Jacket

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

Electrical Characteristics

Return Loss

Frequency	Min. Return Loss
5 - 30 MHz	23 dB
30 - 470 MHz	23 dB
470 - 1000 MHz	20 dB

Return Loss Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.78 dB/100m
5 MHz	1.6 dB/100m
10 MHz	2.36 dB/100m
50 MHz	4.9 dB/100m
100 MHz	6.56 dB/100m

200 MHz	9.5 dB/100m
400 MHz	13.8 dB/100m
700 MHz	18.4 dB/100m
900 MHz	21 dB/100m
1000 MHz	23 dB/100m

Attenuation Table Notes:	Max. attenuation 10% higher

Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
21 Ohm/km (6.4 Ohm/1000ft)	53.5 pF/m (16.3 pF/ft)	75 Ohm	83%

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-30°C To +75°C	-5°C To +50°C	-30°C To +75°C

Bend Radius

Stationary Min.
68 mm (2.7 in)

Bulk Cable Weight:	53 kg/km (36 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
CENELEC Compliance:	EN 50117-1, EN 50117-9-1, EN 50290-2-20
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.320 Revision Date: 09-09-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
533945E.00152	Black	Reel	152 m	8719605008374
533945E.00305	Black	Reel	305 m	8719605008381
533945E.K1305	Black	Reel	305 m	8719605008428
533945E.001000	Black	Reel	1,000 m	8719605008367
533945E.K11000	Black	Reel	1,000 m	8719605008411

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