



Product: [543945E](#)

Surveillance CCTV, RG-59 #20 BC, 90% BC Braid, PVC, Eca

Product Description

Surveillance and CCTV Cable, Coax RG59/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
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Construction Details

RG Type:	59
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	20 AWG	Solid	0.813 mm	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	3.68 mm (0.145 in)

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	90%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	5.9 mm

Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 1000 MHz	18 dB

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

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.98 dB/100m
5 MHz	2.13 dB/100m
10 MHz	2.95 dB/100m
50 MHz	6.23 dB/100m
100 MHz	8.53 dB/100m
200 MHz	11.8 dB/100m
400 MHz	16.4 dB/100m
700 MHz	23 dB/100m

900 MHz	26.2 dB/100m
1000 MHz	27.9 dB/100m

Table Notes:	Max. attenuation 10% higher
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Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
35 Ohm/km (11 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.
63.5 mm (2.50 in)

Bulk Cable Weight:	46 kg/km
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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: 0.240 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
543945E.00152	Black	Reel	152 m	8719605008527
543945E.00305	Black	Reel	305 m	8719605008534
543945E.001000	Black	Reel	1,000 m	8719605008510

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