

RG-11 Coaxial Cables for CCTV & Video

HFFR/LSZH Sheath

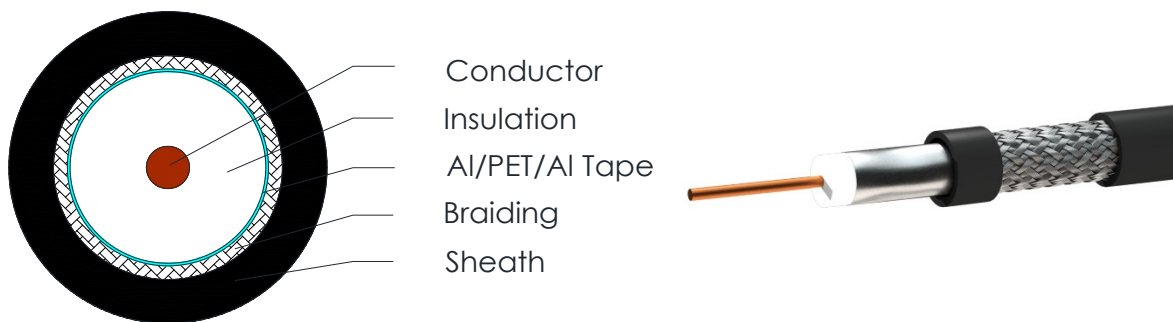


C5106

Applications

CCTV and Video

Cross Section Drawing



Conductor
Insulation
Al/PET/Al Tape
Braiding
Sheath

Design

Unit	Properties
Conductor	Solid Bare Copper (BC)
Dielectric	Foam Polyethylene (FPE)
Screen	Al-PET-Al Foil
Braid	Tinned Copper wire
Sheath	Halogen Free Fire Retardancy (HFFR/LSZH) Standard colour: Black
Standard Put Up Length	305 or 500 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C5106
Nom. Diameter Conductor(mm)	1.63
Nom. Diameter Dielectric	7.11
Coverage Braid (%)	95
Nom. Overall Diameter(mm)	10.0
Operating Temperature (°C)	-20 to +75
Max. Recommended Pulling Tension (N)	640
Min. Bend Radius (install)(mm)	100
Nominal Cable Weight (kg/km)	115.9

Electrical Characteristics at 20°C

Part Number	C5106
Impedance(Ohm)	75 ± 3
Nom. DC Resistance Conductor (Ω /km)	8.2
Max. DC Resistance Screen (Ω /km)	5.3
Nominal Capacitance (pF/m)	53.5
Nominal Inductance (μ H/m)	0.30
Velocity of Propagation (%)	83
Nominal Time Delay (ns/m)	4.0
Min. Return Loss 5 to 1600 MHz (dB)	23
Min. Return Loss 1600 to 4500 MHz (dB)	21
Max. Operating Voltage (V)	300

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Nom. Attenuation at 20°C

Frequency (MHz)	Nom. Attenuation (Max. attenuation=Nominal +10%) (dB/100m)
1	0.492
3.58	0.853
5	0.984
7	1.116
10	1.312
67.5	3.937
71.5	4.068
88.5	4.593
100	4.922
135	5.086
143	5.414
180	6.004
270	7.579
360	9.056
540	11.713
720	14.174
750	14.568
1000	17.783
1500	23.164
2000	28.118
2500	32.580
3000	36.977
4500	48.132

Reference Standards

IEC 60228	(BS) EN 50117
(BS) EN 50290-2	IEC 61196
IEC 61034	RoHS directives
IEC 60754-1&-2	