

RG-59, RG-6 & RG-11 Coaxial Cables for CCTV and Video



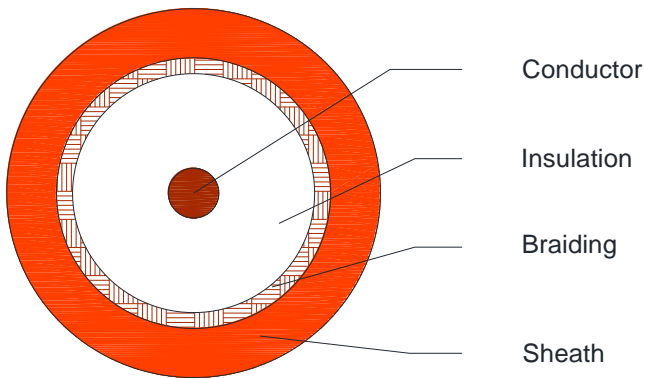
HFFR Sheath

C1428, C1429, C1430

Applications

CCTV and Video

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper (BC)
Dielectric	Foamed Polyethylene
Braid	Bare Copper wire
Sheath Material	Halogen-Free Flame Retardant (HFFR) Standard Colour: Orange
Standard Put Up Length	305 or 500 meters

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

RG-59, RG-6 & RG-11 Coaxial Cables for CCTV and Video



HFFR Sheath

C1428, C1429, C1430

Physical Characteristics

Coax Cables for CCTV and Video	RG-59 Solid Conductor	RG-6 Solid Conductor	RG-11 Solid Conductor
Part Numbers	C1428	C1429	C1430
Nom. Diameter Conductor (mm)	0.81	1.02	1.63
Nom. Diameter Dielectric (mm)	3.71	4.60	7.11
Nom. Overall Diameter (mm)	6.0	6.8	10.0
Coverage Braid (%)	95	95	90
Max. Recommended Pulling Tension (N)	220	310	640
Min. Bend Radius (Install) (mm)	60	68	100
Weight (kg/km)	48.5	58.2	120

Electrical Characteristics (at 20°C)

Coax Cables for CCTV and Video	RG-59 Solid Conductor	RG-6 Solid Conductor	RG-11 Solid Conductor
Part Numbers	C1428	C1429	C1430
Impedance (Ω)	75 \pm 3		
Max. DC Resistance Conductor (Ω /km)	33.5	21.5	8.8
Max. DC Resistance Screen (Ω /km)	10.1	10.8	6.5
Nominal Capacitance (pF/m)	53.5	53.5	52.8
Nominal Inductance (μ H/m)	0.32	0.32	0.32
Velocity of Propagation (%)	83	83	84
Nominal Time Delay (ns/m)	3.97	3.97	3.97
Min. Return Loss 1 to 1000 MHz (dB)	20		

Nominal Attenuation in dB/100m

MHz	5	10	50	100	200	300	400	450	550	700	750	870	1000
RG-59	1.9	2.95	6.23	8.53	11.81	15.3	16.41	18.92	21.03	22.97	24.8	26.84	27.89
RG-6	1.78	2.36	4.92	6.56	9.51	12.43	13.78	15.14	17.15	18.37	19.73	20.26	21.96
RG-11	0.99	1.51	2.96	4.27	6.23	8.27	9.51	10.31	11.51	13.45	13.95	14.87	17.06

Reference Standards

IEC 61196, IEC 60332-3-24 (Fire Retardant)
(BS) EN 50117, (BS) EN 50290-2
IEC 61034 (Low Smoke), IEC 60754-1&-2 (Halogen free)
RoHS directives