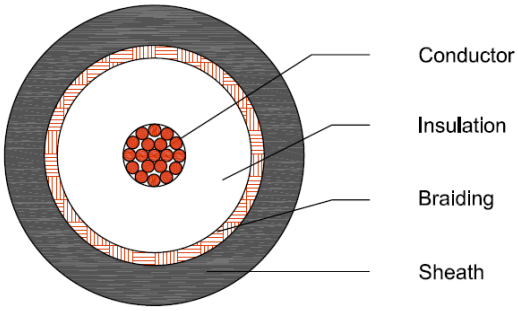
RG-59, RG-6 and RG-11, Flexible Conductor 75 Ohm Coaxial Cables for CCTV PVC Sheath

C1275, C1276, C1277

Applications

CCTV and Video

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Bare or Tinned Copper
Dielectric	Foamed Polyethylene
Braid	Bare Copper wire
Sheath Material	Polyvinyl Chloride (PVC) Standard colour: Black
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.

Physical Characteristics

Coax Cables for CCTV and Video	RG-59 Flexible Conductor	RG-6 Flexible Conductor	RG-11 Flexible Conductor
Part Number	C1275	C1276	C1277
Conductor Material	Tinned Copper	Bare Copper	Bare Copper
Conductor stranding (mm)	19 x 0.18	19 x 0.22	19 x 0.34
Nom. Diameter Dielectric (mm)	3.71	4.60	7.11
Coverage Braid (%)	95	95	90
Nom. Overall Diameter (mm)	6.0	6.8	10.0
Operating Temperature (°C)	-25 to +75		
Max. Recommended Pulling Tension (N)	220	310	640
Min. Bend Radius (Install) (mm)	60	68	100
Nom. Cable Weight (kg/km)	47.12	54.66	110.0

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Electrical Characteristics

Coax Cables for CCTV and Video	RG-59 Flexible Conductor	RG-6 Flexible Conductor	RG-11 Flexible Conductor
Part Number	C1275	C1276	C1277
Impedance	75 ± 3	75 ± 3	75 ± 3
Max. DC Resistance Conductor (Ohm)	40	30	8.8
Max. DC Resistance Screen (Ω/km)	10.1	10.8	6.2
Nominal Capacitance (pF/m)	53.5	53.5	52.8
Nominal Inductance (µH/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	20.90	22.96
RG-11	0.99	1.15	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
(BS) EN 50117
(BS) EN 50290-2
RoHS directives