

RG-59, RG-6 and RG-11, Quad Screened Sweep Tested Coaxial Cables for CATV and SMATV PVC Sheath

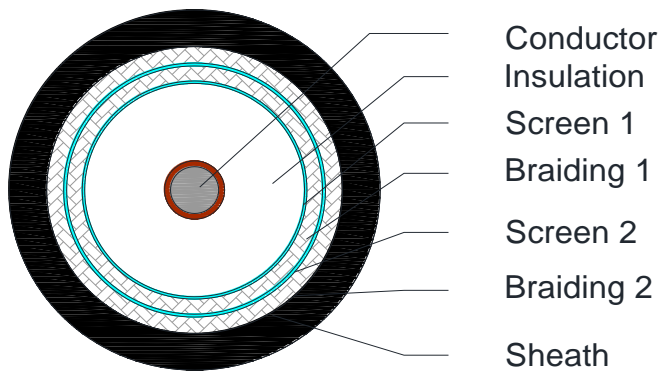


C1256, C1257, C1241

Applications

CATV and SMATV

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Copper Covered Steel (CCS)
Dielectric	Foamed Polyethylene
Screen 1	Bonded Aluminium/ Polyester foil 100% coverage
Braid 1	Aluminum wire
Screen 2	Al/Polyester/Al foil 100% coverage
Braid 2	Aluminum wire
Sheath Material	Polyvinyl Chloride (PVC) Standard color: 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.

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Physical Characteristics

Coax Cables for HDTV	RG-59 3000MHz	RG-6 3000MHz	RG-11 3000MHz
Part Number	C1256	C1257	C1241
Nom. Diameter Conductor (mm)	0.81	1.02	1.63
Nom. Diameter Dielectric (mm)	3.71	4.60	7.11
Coverage Braid 1 (%)	54	60	60
Coverage Braid 2 (%)	46	40	40
Nom. Overall Diameter (mm)	6.73	7.52	10.3
Max. Recommended Pulling Tension (N)	600	700	1300
Min. Bend Radius (Install) (mm)	67	75	103
Nom. Cable Weight (kg/km)	39.4	49.5	90.6

Electrical Characteristics

Coax Cables for HDTV	RG-59 3000MHz	RG-6 3000MHz	RG-11 3000MHz
Part Number	C1256	C1257	C1241
Impedance	75 ± 3	75 ± 3	75 ± 3
Max. DC Resistance Conductor (Ohm)	146.5	92.2	36.5
Max. DC Resistance Screen (Ω/km)	26	17	12
Nominal Capacitance (pF/m)	53	53	53
Nominal Inductance (μH/m)	0.32	0.32	0.32
Velocity of Propagation (%)	83	83	83
Nominal Time Delay (ns/m)	3.94	3.94	3.94
Min. Return Loss 1 to 1000 MHz (dB)	20		

Nominal Attenuation in dB/100m

MHz	5	10	50	100	200	400	550	870	1250	1750	2150	2500	3000
RG-59	2.92	3.45	5.40	8.21	12.56	16.01	19.36	24.74	30.62	36.71	40.82	44.72	48.64
RG-6	2.2	2.48	5.15	6.6	9.56	13.12	15.45	19.69	24.25	29.26	32.88	35.88	39.83
RG-11	1.25	2.03	3.75	5.01	6.85	8.1	9.65	12.6	16.66	20.28	22.93	25.12	28.08

Reference Standards

IEC 61196
(BS) EN 50117
(BS) EN 50290-2
RoHS directives