

RG-59, RG-6 and RG-11 Sweep Tested Coaxial Cables for CATV & SMATV With PE Sheath

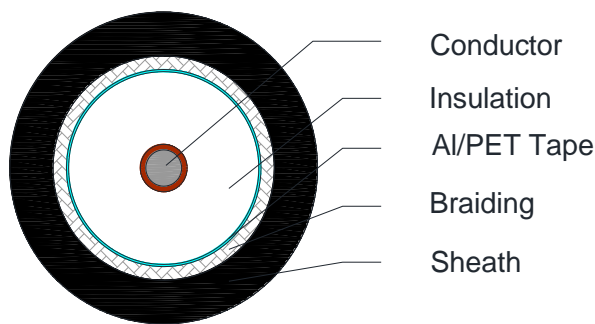


C6153, C6154, C6155

Applications

Outdoor cables used for CATV and SMATV.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Copper Covered Steel (CCS)
Dielectric	Foamed Polyethylene
Screen	Bonded Aluminium/ Polyester foil 100% coverage
Braid	Aluminium Wire
Sheath	UV Resistant Polyethylene (PE) Standard colour: Black
Standard Put Up Length	305metres

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

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With PE Sheath

C6153, C6154, C6155

Physical Characteristics

Part Number	C6153	C6154	C6155
Coaxial cable type	RG-59	RG-6	RG-11
Nom. Diameter Conductor(mm)	0.81	1.02	1.63
Nom. Diameter Dielectric	3.71	4.60	7.11
Coverage Braid (%)	54	60	61
Nom. Overall Diameter(mm)	6.0	6.8	10.0
Operating Temperature (°C)	-25 to +75		
Max. Recommended Pulling Tension (N)	350	560	1157
Min. Bend Radius (install)(mm)	60	68	100
Nominal Cable Weight (kg/km)	28.42	37.32	81.6

Electrical Characteristics at 20°C

	C6153	C6154	C6155
Impedance(Ohm)	75 ± 3		
Max. DC Resistance Conductor (Ω/km)	146.5	92.2	36.5
Max. DC Resistance Screen (Ω/km)	52	30	25
Nominal Capacitance (pF/m)	53		
Nominal Inductance (μH/m)	0.32		
Velocity of Propagation (%)	83		
Nominal Time Delay (ns/m)	3.94		
Min. Return Loss 1 to 1000 MHz (dB)	20		
Min. Return Loss 1000 to 2000 MHz (dB)	18	20	20
Min. Return Loss 1000 to 3000 MHz (dB)	16	20	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	8.10	9.65	12.6	16.66	20.28	22.93	25.12	28.08

Reference Standards

(BS) EN 50290-2	IEC 60228
IEC 61196	(BS) EN 50117
RoHS directives	