

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

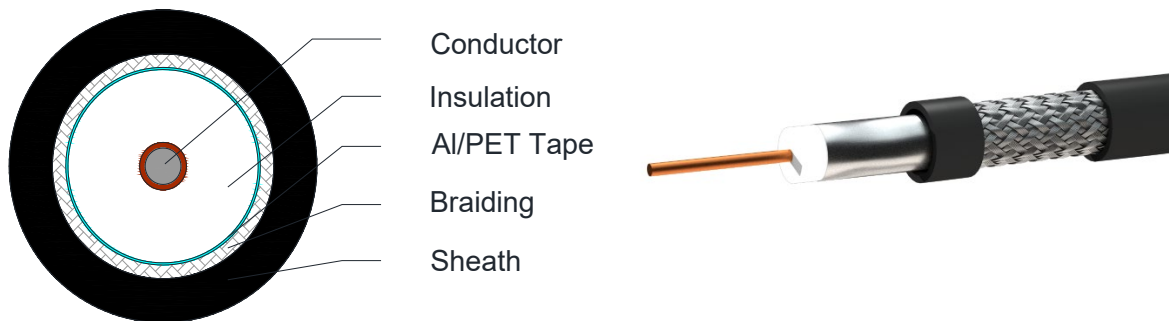


C1025, C1026, C1027, C1525, C1526, C1527, C1625, C1626, C1627

Applications

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	Polyvinyl Chloride (PVC) 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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Physical Characteristics

Coax Cables for CATV and SMATV	RG-59	RG-6	RG-11
Part Number for PVC	C1025	C1026	C1027
Part Number for PVC CM	C1525	C1526	C1527
Part Number for PVC CMR	C1625	C1626	C1627
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)	32.42	41.32	86.6

Electrical Characteristics at 20°C

Coax Cables for CATV and SMATV	RG-59	RG-6	RG-11
Part Number	C1025	C1026	C1027
Part Number for PVC CM	C1525	C1526	C1527
Part Number for PVC CMR	C1625	C1626	C1627
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	800	870	1250	1750	2150	2500	3000
RG-59	2.92	3.45	5.40	8.21	12.56	16.01	19.36	23.92	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	19.10	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	12.0	12.6	16.66	20.28	22.93	25.12	28.08

Reference Standards

(BS) EN 50290-2	UL 1685 for CM
(BS) EN 50117	UL 1666 for CMR
IEC 61196	RoHS directives