

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

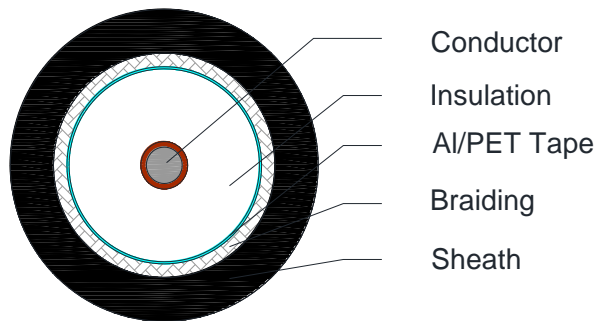


C1025, C1026, C1027

## 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.

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



## C1025, C1026, C1027

### Physical Characteristics

Coax Cables for CATV and SMATV	RG-59 3000 MHz	RG-6 3000 MHz	RG-11 3000 MHz
Part Number	C1025	C1026	C1027
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 3000 MHz	RG-6 3000 MHz	RG-11 3000MHz
Part Number	C1025	C1026	C1027
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
(BS) EN 50117
IEC 61196
RoHS directives