

# RG-59, RG-6 and RG-11

## Sweep Tested Coaxial Cables for CATV & SMATV

### With LSZH-HFFR Sheath



C15332, C15333, C15334

#### Applications

CATV and SMATV

#### Design

Unit	Properties
Conductor	Solid Copper Covered Steel (CCS)
Dielectric	Foamed Polyethylene
First layer of Braid	Aluminium Wire
Second layer of braid	Aluminium Wire
Sheath	Flame-Retardant Halogen Free (HFFR/LSZH) 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.

#### Physical Characteristics

Part Number	C15332	C15333	C15334
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 (%)	98	98	98
Nom. Overall Diameter(mm)	6.4	7.2	10.4
Operating Temperature (°C)	-25 to +75		
Max. Recommended Pulling Tension (N)	350	560	1157
Min. Bend Radius (install)(mm)	64	72	104
Nominal Cable Weight (kg/km)	37.42	49.32	95.6

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## Electrical Characteristics at 20°C

	C15332	C15333	C15334
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
(BS) EN 50117	IEC 60754-1 & 2
IEC 61196	IEC 61034
RoHS directives	IEC 60332-1