

# RG-6 Broadband CATV Coax Cable with HFFR/LSZH Sheath

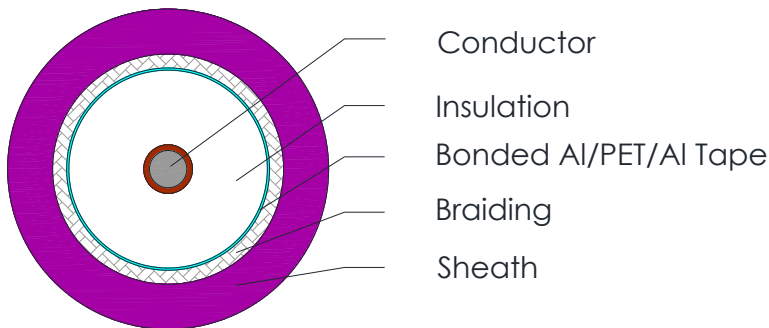


C5012, C5013

## Applications

Broadband CATV

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Solid Copper Covered Steel (CCS)
Dielectric	Foamed Polyethylene
Screen	Bonded Aluminium/ Polyester/ Aluminium foil 100% coverage
Braid	Aluminium Wire
Screen (Optional)	Aluminium/ Polyester/ Aluminium foil 100% coverage
Braid (Optional)	Aluminium Wire
Sheath	Halogen Free Flame Retardancy (HFFR/LSZH) Standard colour: Purple
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-6 Broadband CATV Coax Cable

with HFFR/LSZH Sheath



**C5012, C5013**

## Physical Characteristics

Part Number	C5012	C5013
Nom. Diameter Conductor(mm)	1.02	1.02
Nom. Diameter Dielectric	4.57	4.57
Min. Bonded Al/PET/Al Tape (%)	100	100
Min. Coverage Braid (%)	60	60
Min. Al/PET/Al Tape (%)	-	100
Min. Coverage Braid (%)	-	40
Nom. Overall Diameter(mm)	6.86	7.47
Operating Temperature (°C)	-40 to +80	
Max. Recommended Pulling Tension (N)	560	720
Min. Bend Radius (install)(mm)	69	75
Nominal Cable Weight (kg/km)	40.2	43.1

## Electrical Characteristics at 20°C

Part Number	C5012	C5013
Impedance(Ohm)	75 ± 3	
Nominal DC Resistance Conductor (Ω/km)	91.9	
Nominal DC Resistance Screen (Ω/km)	29.5	15.7
Nominal Capacitance (pF/m)	53.2	
Nominal Inductance (μH/m)	0.32	
Velocity of Propagation (%)	83	
Nominal Time Delay (ns/m)	3.94	
Min. Return Loss 950 to 2250 MHz (dB)	15	-
Min. Return Loss 2250 to 3000 MHz (dB)	10	-
Min. Return Loss 5 to 1000 MHz (dB)	-	20
Max. Operating Voltage (V rms)	350	300

## Max. Attenuation in dB/100m

MHz	5	55	211	500	750	862	1000	1450	1800	2250	3000
C5012	2.2	5.25	9.42	14.70	18.34	19.62	21.46	26.25	28.88	32.81	39.04

MHz	5	55	211	270	300	350	400	450	550	750	870	1000
C5013	2.2	5.25	9.42	10.62	11.25	12.20	13.11	13.97	15.44	18.33	19.67	21.44

## Reference Standards

(BS) EN 50290-2	IEC 60332-3-24
EN 61034-1&-2	EN 60754-1&-2
RoHS directives	