

**RG-59, RG-6 and RG-11,  
Sweep Tested 1 ~ 4500 MHz  
75 Ohm Coaxial Cables for HDTV, HFFR Sheath**

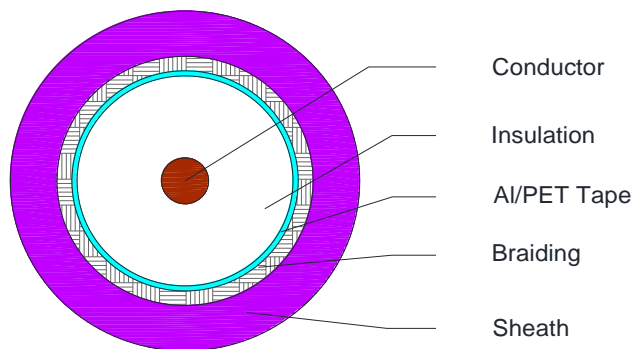


**CI378, CI379, CI380**

**Applications**

HDTV

**Cross Section Drawing**



**Design**

Unit	Properties
Conductor	Solid Bare Copper
Dielectric	Foamed Polyethylene
Screen	Bonded Aluminium/ Polyester foil 100% coverage
Braid	Tinned Copper wire
Sheath Material	Halogen-Free Flame Retardant (HFFR) Standard Colour: Purple
Standard Put Up Length	305 or 500 meters

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

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**C1378, C1379, C1380  
Physical Characteristics**

Coax Cables for HDTV	RG-59 4.5 GHz	RG-6 4.5 GHz	RG-11 4.5 GHz
Part Number	C1378	C1379	C1380
Nom. Diameter Conductor (mm)	0.81	1.02	1.63
Nom. Diameter Dielectric (mm)	3.71	4.60	7.11
Nom. Overall Diameter (mm)	6.0	6.8	10.0
Coverage Braid (%)	95	95	95
Max. Recommended Pulling Tension (N)	210	310	640
Min. Bend Radius (Install) (mm)	60	68	100
Weight (kg/km)	48.2	59	117

**Electrical Characteristics (at 20°C)**

Coax Cables for HDTV	RG-59 4.5 GHz	RG-6 4.5 GHz	RG-11 4.5 GHz
Part Number	C1378	C1379	C1380
Impedance (Ohm)	75 ± 3		
Max. DC Resistance Conductor (Ω/km)	33.5	21.5	8.8
Max. DC Resistance Screen (Ω/km)	12.5	10.6	6.6
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)	23		
Min. Return Loss 1000 to 2000 MHz (dB)	22		
Min. Return Loss 2000 to 3000 MHz (dB)	16		
Min. Return Loss 3000 to 4500 MHz (dB)	15		

**Nominal Attenuation in dB/100m**

MHz	5	10	50	100	300	550	750	1000	2000	3000	4500
RG-59	2.07	2.95	6.23	7.55	13.68	18.83	22.23	25.96	38.24	46.13	56.50
RG-6	1.71	2.33	4.57	6.40	11.96	15.76	18.05	21.36	31.44	39.76	50.46
RG-11	1.12	1.51	2.96	4.20	7.49	10.41	12.38	14.57	21.84	27.93	35.98

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Reference Standards**

IEC 61196
(BS) EN 50117
(BS) EN 50290-2
IEC 60332-3-24 (Fire Retardant)
IEC 61034 (Low Smoke), IEC 60754-1&-2
RoHS directives