

RG-59, RG-6 and RG-11 Sweep Tested, Coaxial Cables for HDTV PVC Sheath

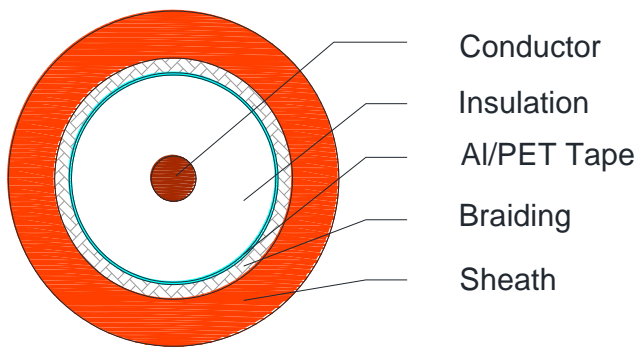


C1229, C1279, C1280

Applications

HDTV applications.

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	Polyvinyl Chloride (PVC) Colour: Orange
Standard Put Up Length	305 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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C1229, C1279, C1280 Physical Characteristics

Coax Cables for HDTV	RG-59 4.5 GHz	RG-6 4.5 GHz	RG-11 4.5 GHz
Part Number	C1229	C1279	C1280
Nom. Diameter Conductor (mm)	0.81	1.02	1.63
Nom. Diameter Dielectric (mm)	3.71	4.60	7.11
Coverage Braid (%)	95	95	95
Nom. Overall Diameter (mm)	6.0	6.8	10.0
Max. Recommended Pulling Tension (N)	210	310	640
Min. Bend Radius (Install) (mm)	60	68	100
Nom. Cable Weight (kg/km)	46.72	56.2	114.5

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	C1229	C1279	C1280
Impedance	75 ± 3	75 ± 3	75 ± 3
Max. DC Resistance Conductor (Ohm)	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

Reference Standards

(BS) EN 50290-2
IEC 61196
(BS) EN 50117
RoHS directives