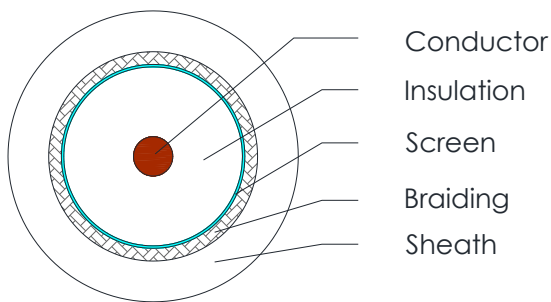


C4665

Applications

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117; Operating at frequencies between 5 MHz and 2150 MHz; The International Standard IEC 1196

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper (BC)
Dielectric	Foamed Polyethylene
Screen Tape	Al/PET/Al Tape
Braid	Tinned Copper wire
Sheath	Polyvinyl Chloride (PVC) Standard Colour: White
Standard Put Up Length	305 or 500 metres

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

C4665**Physical Characteristics**

Part Number	C4665
Nom. Diameter Conductor(mm)	1.55
Nom. Diameter Dielectric	7.25
Tape1 Al/PET/Al Coverage (%)	46
Coverage Braid (%)	46
Nom. Overall Diameter(mm)	10.1
Operating Temperature (°C)	-15 to 70
Min. Bend Radius (install)(mm)	50
Bulk Cable Weight (KG/KM)	95
Crush Resistance	Max. 1% (load of 700N) N
Adhesion Dielectric	12-120 N at 25 mm N

Electrical Characteristics at 20°C

Part Number	C4665
Impedance(Ohm)	75 ± 3
Max. DC Resistance Conductor (Ω/km)	9.4
Max. DC Resistance Screen (Ω/km)	12.8
Nominal Capacitance (pF/m)	55
Velocity of Propagation (%)	81
Min. Return Loss 5 to 470 MHz (dB)	26
Min. Return Loss 470 to 1000 MHz (dB)	23
Min. Return Loss 1000 to 2000 MHz (dB)	18
Min. Return Loss 2000 to 3000 MHz (dB)	16
Min. Screening Attenuation 30 to 1000 MHz (dB)	85
Voltage Test (KV DC)	3.0

Nominal Attenuation in dB/100m

MHz	5	50	100	200	400	600	800	1000	1350	1600	1750	2150	2400	3000
RG-11	0.9	2.9	4.1	5.9	8.6	10.7	12.5	14.2	16.8	18.5	19.5	21.9	23.4	26.7

Reference Standards

(BS) EN 50290-2	IEC 60332-1
IEC 1196	EN 50117 and EN 50117-1
RoHS directives	