

Communication Networks Coaxial Distribution Cable, PVC & PE Sheath

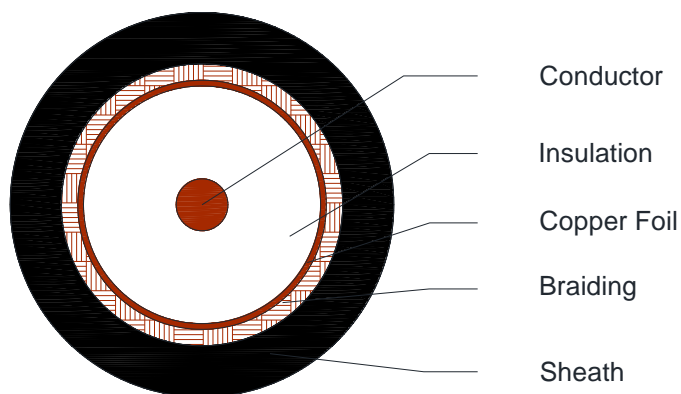


C1292, C1293

Applications

Used for cabled distribution networks designed according to European Standard EN50117-2-1 and EN50117-2-4 operating at frequencies between 5 and 3000MHz.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid annealed bare copper wires
Insulation	Foamed Polyethylene
Screen	Copper foil
Braiding	Bare copper wire
Sheath	Polyvinyl Chloride (PVC) or Polyetheyle (PE)
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.

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Physical Characteristics

Part Number	C1292	C1293
Sheath Material	PVC	PE
Nom. Diameter Conductor(mm)	1.00	1.55
Nom. Diameter Dielectric	4.80	7.25
Screen Coverage (%)	115	
Coverage Braid (%)	34	46
Nom. Overall Diameter(mm)	6.8	10.1
Operating Temperature (°C)	-40 to +70	-60 to +70
Min. Bend Radius (install)(mm)	70	100

Electrical Characteristics at 20°C

Part Number	C1292	C1293
Max. DC Inner Conductor Resistance (Ω /km)	23	9.4
Max. DC Outer Conductor Resistance (Ω /km)	18	12.3
Characteristic Impedance (Ω)	75 \pm 3	
Nom. Mutual Capacitance (pF/m)	55	
Velocity of Propagation (%)	81	
Dielectric Strength (Vdc)	2000	3000
Min. Insulation Resistance (MOhms*k m)	10000	
Min. Screen efficiency 30-1000MHz (dB)	75	85
Max. Transfer Impedance (m Ω /m)	-	15

Return loss at 20°C

Frequency (MHz)	Min. Return Loss (dB/100m)	
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5-30	23	26
30-470	23	26
470-1000	20	23
1000-2000	18	18
2000-3000	16	16

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Attenuation at 20°C

Frequency (MHz)	Nom. Attenuation (Max. attenuation =Nom.+10%)(dB/100m)	
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5	1.4	0.9
50	4.3	2.8
100	6.1	3.9
200	8.6	5.7
400	12.3	8.2
600	15.2	10.2
800	17.7	12.0
1000	19.9	13.6
1350	23.5	16.1
1600	-	17.8
1750	27.0	18.7
2150	30.2	21.1
2400	32.1	22.5
2600	-	23.6
2800	-	24.7
3000	-	25.6

Reference Standards

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