Flexible Coaxial Cable

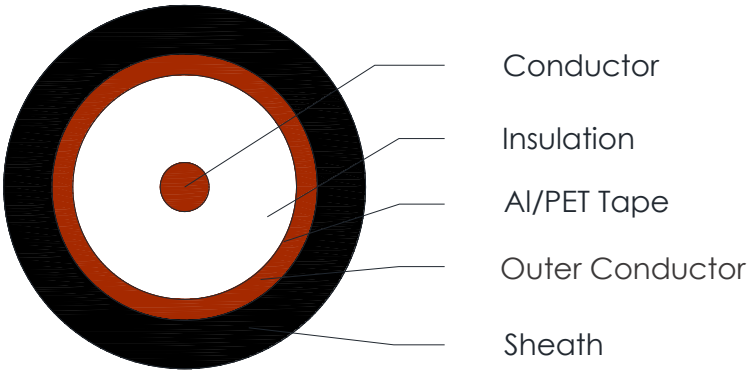
1/2in, Corrugated Copper, PE Sheath

C1905

Application

1/2'' Feeder cable

Cross Section Drawing



Design

Unit	Properties
Inner Conductor	Copper Clad Aluminium
Dielectric	Foamed Polyethylene
Outer Conductor	Corrugated Copper
Sheath Material	Polyethylene (PE) Standard Color: Black
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	C1905
Nominal Size	½ in
Nom. Diameter Conductor(mm)	3.58
Nom. Diameter Dielectric	9.4
Nom. Outer Conductor Diameter (mm)	12.0
Nom. Overall Diameter(mm)	13.4
Operating Temperature (°C)	-55°C to +85°C
Min. Bend Radius, Single Bend (mm)	25
Min. Bend Radius, Multiple Bend (mm)	55
Nominal Cable Weight (kg/km)	135
Tensile Strength (N)	750

Electrical Characteristics 20°C

Impedance (ohms)	Nom. DC Resistance, inner conductor (ohms/km)	Nom. DC Resistance, outer conductor (ohms/km)	Nom Capacitance Conductor to Shield (pF/m)	Inductance (µ H/m)	Nom. Velocity Of Propagation (%)	DC. Voltage test (VRMS)	Jacket spark test Voltage (VRMS)	Peak Power (KW)
50 ± 1	2.97	6.50	83	0.207	81	2500	5000	22.5

Nominal Return Loss/VSWR

Frequeny Band (MHz)	VSWR	Return Loss (dB)
680-800	1.20	20.8
800-960	1.20	20.8
1700-2200	1.20	20.8
2300-2700	1.20	20.8

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Nominal Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
1.0	0.327	800	10.431
1.5	0.401	824	10.605
2.0	0.463	894	11.101
10	1.044	960	11.555
20	1.485	1000	11.824
30	1.828	1218	13.226
50	2.377	1250	13.423
85	3.15	1500	14.906
88	3.188	1700	16.027
100	3.405	1800	16.57
108	3.646	2000	17.624
150	4.215	2300	19.138
174	4.559	2500	20.11
200	4.600	2700	21.056
204	4.961	3000	22.432
300	6.098	3400	24.198
400	7.122	3700	25.478
450	7.593	4000	26.727
500	8.043	5000	30.693
512	8.149	6000	34.427
600	8.892	8000	41.403
700	9.684	10000	47.914

Reference Standards

(BS) EN 50290-2
RoHS directives