Low Loss 50Ohm Wireless RF Transmission Cable

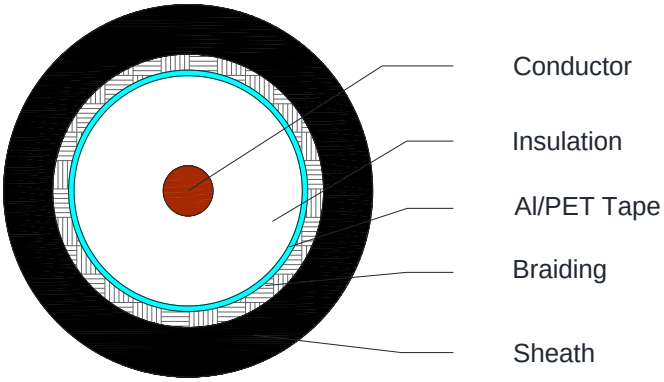
LSZH Sheath

C15021

Application

Wireless RF, ABS Type Approved, CMG-LS, IEEE 45 clause 23, IEC60092-376 clause 17, 60092-351, 60754-1, 60754-2, 61034, UL1865 FT4Loading, Limited Smoke, IEC 60332-3-22 (Category A), 60332-1, IEEE 1202

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper Covered Aluminium (BCCA)
Dielectric	Foamed Polyethylene
Screen	Bonded Aluminium/Polyester foil tape
Braid	Tinned Copper Wire
Sheath Material	Halogen Free Flame Retardancy (HFFR) 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	C15021
Conductor Configuration(AWG)	10
Nom. Diameter Conductor(mm)	2.74
Nom. Diameter Dielectric	7.24
Screen Coverage (%)	115
Coverage Braid (%)	95
Nom. Overall Diameter(mm)	10.29
Operating Temperature (°C)	-30°C to +75°C
Max. Recommended Pulling Tension (N)	667
Min. Bend Radius (install)(mm)	100
Nominal Cable Weight (kg/km)	131
Max. Operating Voltage (V RMS)	300

Electrical Characteristics 20°C

Impedance (ohms)	Nom. Conductor DC Resistance (Ω /km)	Nom. Outer shield DC Resistance (Ω /km)	Nom Capacitance Conductor to Shield (pF/m)	Nom. Velocity Of Propagation (%)	Nom. Inductance (µH/m)	Nom. Delay (ns/m)
50 ± 3	4.40	6.56	75.5	86	0.20	3.84

Nominal Attenuation in dB/100

Frequency (MHz)	Attenuation (dB/100m)
30	2.29
50	2.96
150	4.92
220	5.90
450	8.86
900	12.47
1500	16.72
1800	18.37

Frequency (MHz)	Attenuation (dB/100m)
2000	19.69
2500	21.99
3000	24.60
3500	26.90
4500	31.17
5800	36.42
6000	37.40

Max. Power Rating in W

Frequency (MHz)	Rating (W)
30	3427
50	2588
150	1428
220	1195
450	817
900	575
1500	437
1800	399

Frequency (MHz)	Rating (W)
2000	375
2500	334
3000	305
3500	282
4500	247
5800	217
6000	213

C15021

Reference Standards

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