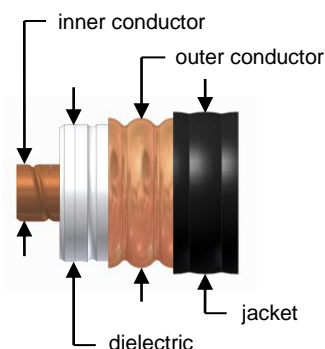


DATA SHEET

COAXIAL CABLE

SpinnerFlex® LF1 5/8"-50-PE BN A73091

SpinnerFlex® LF1 5/8"-50-CPE BN A73038



DIMENSION / MATERIAL	
Inner conductor	Ø 17.30 ±0.10 mm Ø 0.68 ±0.004 in Helically corrugated copper
Dielectric	Ø 43.50 ±0.60 mm Ø 1.71 ±0.024 in Physically foamed PE
Outer conductor	Ø 46.50 ±0.30 mm Ø 1.83 ±0.012 in Ring corrugated Copper
Jacket	Ø 49.50 ±0.40 mm Ø 1.95 ±0.016 in PE black

MECHANICAL SPECIFICATION		
Minimum bending radius	Single Repeated	300 mm 11.81 in 510 mm 20.08 in
Max. tensile force		3630 N 816.06 lbf
Crush resistance		2.1 kg/mm 117.6 lb/in
Recommended clamp spacing		1400 mm 55 in
Weight		1.23 kg/m 0.83 lb/ft

ELECTRICAL SPECIFICATION	
Impedance	50 Ω ±1
Propagation velocity	88 %
Capacitance	76 pF/m 23.17 pF/ft
Inductance	0.19 µH/m 0.06 µH/ft
Inner conductor DC resistance	1.00 Ω/km 0.30 Ω/kft
Outer conductor DC resistance	0.65 Ω/km 0.20 Ω/kft
DC breakdown voltage	11 kV
Peak power	315 kW
Max. operating frequency	2.8 GHz
Insulation resistance	>5 x10 ³ MΩ·km >1.5 x10 ³ MΩ·kft
Screening attenuation	>> 120 dB
Cut-off frequency	2.8 GHz
VSWR (selected frequency ranges)	≤ 1.13

ENVIRONMENTAL SPECIFICATION			
Recommended Temperature range	A73091	-70 °C to +85 °C -94°F to +185°F	Storage
		-40 °C to +60 °C -40°F to +140°F	Installation
		-55 °C to +85 °C -67°F to +185°F	Operation
	A73038	-30 °C to +80 °C -22°F to +176°F	Storage
		-20 °C to +60 °C -4°F to +140°F	Installation
		-30 °C to +80 °C -22°F to +176°F	Operation
CPR Class	A73091 A73038	F _{ca} D _{ca} s1,d2	DoP
RoHS 2002/95/EC	Compliant		
IEC 60754-1 IEC 60754-2	Halogen-free		

PERFORMANCE			
Frequency	Nom. attenuation db/100m dB/100ft		Mean power rating kW
10 MHz	0.202	0.062	54.3
108 MHz	0.70	0.213	15.7
174 MHz	0.91	0.277	12.1
512 MHz	1.65	0.503	6.62
824 MHz	2.17	0.661	5.03
894 MHz	2.28	0.695	4.81
925 MHz	2.33	0.710	4.69
960 MHz	2.38	0.725	4.61
1880 MHz	3.57	1.09	3.15
2200 MHz	3.94	1.20	2.75
2500 MHz	4.27	1.30	2.54
2700 MHz	4.49	1.37	2.38
2800 MHz	4.62	1.41	2.34

Standard condition:
Attenuation: 20°C | 68°F ambient temperature
Mean power: 40°C | 104°F ambient temperature