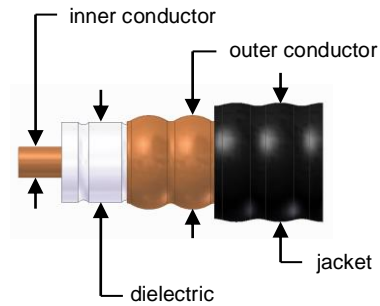


DATA SHEET

COAXIAL CABLE

SpinnerFlex® LF1 1/4"-50-PE
SpinnerFlex® LF1 1/4"-50-FR

BN A73090
BN A73037



SPINNER GmbH
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DIMENSION / MATERIAL	
Inner conductor	Ø 13.00 ±0.10 mm Ø 0.52 ±0.004 in Smooth copper tube
Dielectric	Ø 32.80 ±0.40 mm Ø 1.29 ±0.016 in Physically foamed PE
Outer conductor	Ø 35.80 ±0.30 mm Ø 1.40 ±0.012 in Ring corrugated Copper
Jacket	Ø 38.80 ±0.30 mm Ø 1.07 ±0.012 in PE black

MECHANICAL SPECIFICATION		
Minimum bending radius	Single Repeated	200 mm 7.87 in 380 mm 14.96 in
Max. tensile force		5900 N 1326.37 lbf
Crush resistance		2.2 kg/mm 123.2 lb/in
Recommended clamp spacing		1200 mm 47 in
Weight		0.98 kg/m 0.66 lb/ft

ELECTRICAL SPECIFICATION	
Impedance	50 Ω ±1
Propagation velocity	88 %
Capacitance	75 pF/m 22.87 pF/ft
Inductance	0.184 µH/m 0.056 µH/ft
Inner conductor DC resistance	0.85 Ω/km 0.26 Ω/kft
Outer conductor DC resistance	0.80 Ω/km 0.24 Ω/kft
DC breakdown voltage	9.0 kV
Peak power	205 kW
Max. operating frequency	3.3 GHz
Insulation resistance	>5 x 10 ³ MΩ·km >1.5 x 10 ³ MΩ·kft
Screening attenuation	>> 120 dB
Cut-off frequency	3.3 GHz
VSWR (selected frequency ranges)	≤ 1.13

ENVIRONMENTAL SPECIFICATION			
Recommended Temperature range	A73090	-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
	A73037	-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	A73090 A73037	F _{ca} E _{ca}	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	0.253	0.077	38.6
108 MHz	0.891	0.272	11.7
174 MHz	1.12	0.341	8.63
512 MHz	2.01	0.613	4.75
824 MHz	2.63	0.802	3.71
894 MHz	2.76	0.841	3.53
925 MHz	2.81	0.856	3.46
960 MHz	2.87	0.875	3.42
1880 MHz	4.27	1.30	2.34
2200 MHz	4.69	1.43	2.13
2500 MHz	5.07	1.55	2.00
2700 MHz	5.32	1.62	1.85
3300 MHz	6.03	1.84	1.56

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