

DATA SHEET

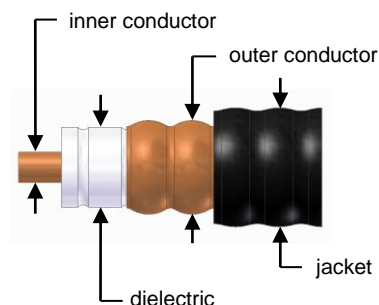
COAXIAL CABLE

SpinnerFlex® LF1/2"-50-PE

BN A73088

SpinnerFlex® LF1/2"-50-CPR

BN A73028



DIMENSION / MATERIAL	
Inner conductor	Ø 4.80 ±0.05 mm Ø 0.189 ±0.002 in Copper clad aluminum wire
Dielectric	Ø 12.20 ±0.30 mm Ø 0.48 ±0.012 in Physically foamed PE
Outer conductor	Ø 13.80 ±0.20 mm Ø 0.54 ±0.008 in Annular corrugated Copper
Jacket	Ø 15.80 ±0.20 mm Ø 0.62 ±0.008 in PE black

MECHANICAL SPECIFICATION		
Minimum bending radius	Single Repeated	70 mm 2.76 in 125 mm 4.92 in
Max. tensile force		1130 N 254 lbf
Crush resistance		2.0 kg/mm 112 lb/in
Recommended clamp spacing		1000 mm 39 in
Weight		0.23 kg/m 0.154 lb/ft

ELECTRICAL SPECIFICATION	
Impedance	50 Ω ±1
Propagation velocity	86 %
Capacitance	75.8 pF/m 23.1 pF/ft
Inductance	0.19 µH/m 0.06 µH/ft
Inner conductor DC resistance	1.60 Ω/km 0.49 Ω/kft
Outer conductor DC resistance	2.10 Ω/km 0.64 Ω/kft
DC breakdown voltage	4.0 kV
Peak power	40 kW
Max. operating frequency	8.8 GHz
Insulation resistance	> 5 x10 ³ MΩ·km >1.5 x10 ³ MΩ·kft
Screening attenuation	>> 120 dB
Cut-off frequency	8.8 GHz
VSWR (selected frequency ranges)	≤ 1.13

ENVIRONMENTAL SPECIFICATION			
Recommended Temperature range	A73088	-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
	A73028	-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	A73088 A73028	F _{ca} B2 _{ca} -s1a,d1,a1	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	0.67 0.20	11.35	
108 MHz	2.26 0.69	3.36	
174 MHz	2.89 0.88	2.62	
512 MHz	5.09 1.55	1.49	
824 MHz	6.56 2.00	1.15	
894 MHz	6.86 2.09	1.10	
925 MHz	6.98 2.13	1.09	
960 MHz	7.12 2.17	1.06	
1880 MHz	10.30 3.14	0.75	
2200 MHz	11.25 3.43	0.67	
2500 MHz	12.09 3.69	0.62	
2700 MHz	12.63 3.85	0.59	
3300 MHz	14.16 4.32	0.53	
3800 MHz	15.36 4.68	0.50	
5350 MHz	18.75 5.72	0.41	
5825 MHz	19.71 6.01	0.38	
Standard condition: Attenuation: 20°C 68°F ambient temperature Mean power: 40°C 104°F ambient temperature			