

DATA SHEET



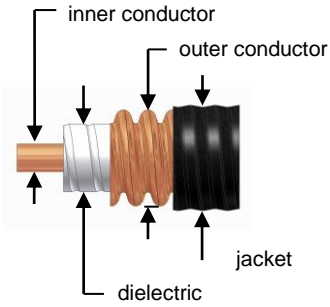
COAXIAL CABLE

SpinnerFlex® SF1/2"-50-PE

BN A73151

SpinnerFlex® SF1/2"-50-CPR

BN A73030



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DIMENSION / MATERIAL	
Inner conductor	Ø 3.60 ±0.04 mm Ø 0.141 ±0.002 in Copper clad aluminum wire
Dielectric	Ø 8.80 ±0.20 mm Ø 0.35 ±0.008 in Physically foamed PE
Outer conductor	Ø 12.20 ±0.20 mm Ø 0.48 ±0.008 in Helically corrugated Copper
Jacket	Ø 13.60 ±0.20 mm Ø 0.54 ±0.008 in PE black

MECHANICAL SPECIFICATION		
Minimum bending radius	Single Repeated	25 mm 0.98 in 30 mm 1.18 in
Max. tensile force		800 N 179.85 lbf
Crush resistance		1.9 kg/mm 106.4 lb/in
Recommended clamp spacing		800 mm 31 in
Weight		0.21 kg/m 0.141 lb/ft

ELECTRICAL SPECIFICATION	
Impedance	50 Ω ±1
Propagation velocity	81 %
Capacitance	82 pF/m 25 pF/ft
Inductance	0.205 µH/m 0.008 µH/ft
Inner conductor DC resistance	2.69 Ω/km 0.82 Ω/kft
Outer conductor DC resistance	3.54 Ω/km 1.08 Ω/kft
DC breakdown voltage	2.5 kV
Peak power	15.6 kW
Max. operating frequency	10.2 GHz
Insulation resistance	> 5 x 10 ³ MΩ·km >1.5 x 10 ³ MΩ·kft
Screening attenuation	>> 120 dB
Cut-off frequency	10.2 GHz
VSWR (selected frequency ranges)	≤ 1.13

ENVIRONMENTAL SPECIFICATION			
Recommended Temperature range	A73151	-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
	A73030	-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	A73151 A73030	F _{ca} B2 _{ca} -s1a,d0,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	1.04	0.32	10.1
108 MHz	3.55	1.08	2.97
174 MHz	4.56	1.39	2.31
512 MHz	8.15	2.48	1.29
824 MHz	10.61	3.23	0.99
894 MHz	11.10	3.38	0.94
925 MHz	11.32	3.45	0.92
960 MHz	11.56	3.52	0.91
1880 MHz	17.01	5.18	0.64
2200 MHz	18.64	5.68	0.56
2500 MHz	20.11	6.13	0.52
2700 MHz	21.06	6.42	0.49
3300 MHz	23.76	7.24	0.44
3800 MHz	25.90	7.89	0.42
5350 MHz	32.03	9.76	0.33
5825 MHz	33.79	10.30	0.31

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

Template TD-00003F