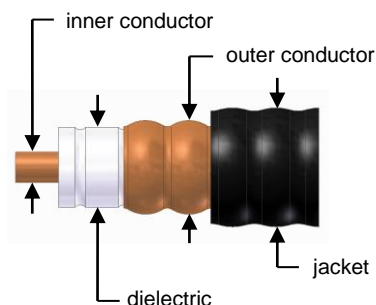


DATA SHEET

COAXIAL CABLE CLF012-50FR (BN A73092) SPINNERflex™ LF1/2"-50-FR – Hansen



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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 fire retardant

ENVIRONMENTAL SPECIFICATION	
Recommended temperature range	-30 °C to +80 °C -22°F to +176°F Storage -25 °C to +60 °C -13°F to +140°F Installation -30 °C to +80 °C -22°F to +176°F Operation
RoHS 2002/95/EC	Compliant
IEC 60754-1 IEC 60754-2	Halogen-free

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

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

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 x 10 ³ MΩ·km > 1.5 x 10 ³ MΩ·kft
Screening attenuation	>> 120 dB
Cut-off frequency	8.8 GHz
VSWR (selected frequency ranges)	≤ 1.13