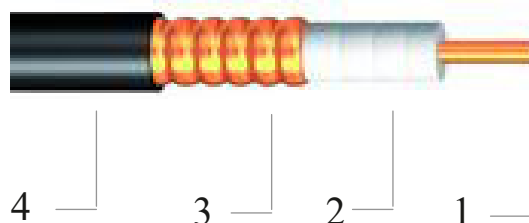




Product specification

HUGHES 1/2" LOW LOSS LLCF CABLE LSZH

19-RF3110602



- 1: Inner Conductor 2: Insulation
3: Outer conductor 4: Jacket

Description

Hughes 1/2" Low Loss LLCF coaxial cable features a copper-clad aluminum inner conductor, helically corrugated copper outer conductor, and low-loss foamed PE dielectric for reliable RF performance. Its LSZH fire-retardant jacket with B2ca CPR rating ensures enhanced safety in indoor installations while delivering excellent shielding (>120 dB) and low signal attenuation for telecom and RF applications.

Specification

Construction			
Inner Conductor	Material	Copper clad aluminum wire	
	Diameter, mm	4.80	
Insulation	Material	Physically foamed PE	
	Diameter, mm	12.30	
Outer conductor	Material	Helically corrugated copper	
	Diameter, mm	13.80	
Jacket	Material	LSZH Fire-retardant	
	Diameter, mm	15.70	
CPR Rating	Pass	B2ca s1a d0 a1	
Weight	Kg/m	0.24	
Mechanical properties			
Bending radius , mm	Single	50	
	Repeated	125	
	Moving	200	
Tensile strength, N		1100	
Recommend temperature , °C	LSZH jacket	Store	-30~+80
		Installation	-20~+60
		Operation	-30~+80

Electrical properties	
Impedance, Ω	50 ±1
Capacitance, PF/m	76
Propagation velocity, %	86
RF Peak voltage, kV	1.60
Insulation resistance, MΩ km	>5 x10 ³
Peak power, kW	40
Screening attenuation, dB	>120
Cut-off frequency, GHz	8.8
VSWR	
@DC-1.0GHz	≤1.10
@1.7-2.2GHz	≤1.13
@2.2-2.7GHz	≤1.15
@3.3-4.0GHz	≤1.20
@4.0-6.0GHz	≤1.25
Standards	
2011/65/EU	Compliant
IEC61196.1-2005	Compliant

Attenuation and average power		
Frequency MHz	Nom. attenuation @20°C,dB/100m	Power rate @20°C,kW
100	2.17	3.94
200	3.10	2.75
450	4.74	1.80
800	6.45	1.33
1000	7.28	1.18
1500	9.08	0.95
1800	10.05	0.86
2000	10.66	0.81
2200	11.24	0.77
2400	11.80	0.75
2500	12.08	0.73
3000	13.39	0.65
3400	14.40	0.60
3800	15.38	0.57
4000	15.82	0.55
Maximum attenuation value shall be 105% of the nominal attenuation value		

The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informative purposes only and are subject to change

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