



# Product Specification

## Hughes 1/4" SCF LSZH Cable 19-RF3110102

### 1. Structure:

Part number	Diameter (mm)	Material
1 Inner Conductor	1.90±0.03	copper-clad aluminum wire
2 Insulation	4.85±0.15	physical foam Polyethylene
3 Outer Conductor	6.40±0.15	helical corrugated copper tube
4 Jacket	7.50±0.20	Low Smoke Halogen-free Fire-retardant PE

### 2. Mechanical Characteristic

Minimum bending radius	Single bend (mm)	15
	Repeated bends (mm)	25
	Number of bends	15
	Mobile apply (mm)	150

### 3. Recommendation Temp.

Recommendation Temp.	Storage	-30°C ~ +80°C
	Installation	-20°C ~ +60°C
	Operation	-30°C ~ +80°C

### 4. Electrical Characteristics:

Measure Item	Electrical Characteristics
1 Impedance (ohm)	50±1
2 Normal Capacitance (pF/m)	83
3 Velocity of propagation (%)	81
4 Peak voltage (KV)	0.80
5 Peak Power Rating (KW)	6.4
6 Cut-off frequency (GHz)	20.4
7 Insulation resistance (MΩ *Km)	≥5000
8 DC Breakdown Voltage (V)	2000
9 Jacket Spark Test Voltage (Vrms)	3000
10 Inner Conductor DC-resistance	≤10.2Ω/km
11 Outer Conductor DC-resistance	≤9.0Ω/km
12 Shielding Attenuation (dB)	≥120





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### 5. Others

Attenuation 20°C dB/100m	200MHz	8.33
	450MHz	12.70
	800MHz	17.30
	900MHz	18.40
	1800MHz	26.90
	2000MHz	28.50
	2200MHz	30.10
	2400MHz	31.60
	2500MHz	32.40
	2700MHz	33.60
	3000MHz	35.80
	3400MHz	38.40
	4000MHz	42.20
	5000MHz	48.00
	6000MHz	53.40
VSWR	0.8-1.0GHz	≤1.135
	1.7-2.7GHz	≤1.15
	3.0-4.0GHz	≤1.20
PIM(3rd order, 2*20W)		≤-160dBc

### 6. Certifications:

1	RoHS 2011/65/EU
2	RoHS SJ/T 11364-2006
3	ISO9001:2020
4	UV Resistance UL1581
5	IEC 60332-1-2; IEC61034-2; IEC60754-1/-2

