



Technical Data Sheet

0.6M RF SMA(M)-SMP(F) Cable

26.5GHz low-loss RF cable

LHM-11SMA60022SMP-1961

Product Overview

The LHM-11SMA60022SMP-1961 is a 0.6 m, 50 Ohm RF coaxial cable assembly terminated with SMA male and SMP female interfaces. The assembly is specified for operation to 26.5 GHz. The supplied cable construction uses PTFE dielectric, silver-plated copper conductor/tape/braid, and a grey FEP jacket. Unless noted otherwise, cable-performance figures are source values for the underlying cable.

Key Features

- 0.6 m SMA(M)-to-SMP(F) RF cable assembly.
- 26.5 GHz low-loss assembly configuration.
- 50 Ohm characteristic impedance; 80% velocity factor.
- PTFE dielectric; silver-plated copper conductor, tape and braid shield.
- Grey FEP outer jacket.



Applications

- High-frequency RF interconnection between SMA male and SMP female interfaces.
- RF jumper and transition cabling up to the confirmed 26.5 GHz assembly rating.

Electrical Specifications

Parameter	Specification
Assembly rated frequency	26.5 GHz
Base cable operating frequency	67 GHz
Characteristic impedance	50 Ohms
Velocity factor	80%
Shielding effectiveness	90 dB
Dielectric withstand	500 VDC
Bend phase stability	±10° @ 40 GHz
Temperature phase stability	800 ppm
Amplitude stability	±0.15 dB @ 40 GHz

Mechanical & Environmental Specifications

Parameter	Specification
Minimum bend radius - installation	11 mm
Minimum bend radius - repeated flex	22 mm
Cable weight	18 g/m
Installation / use temperature	-55°C to +125°C
Storage temperature	-65°C to +125°C



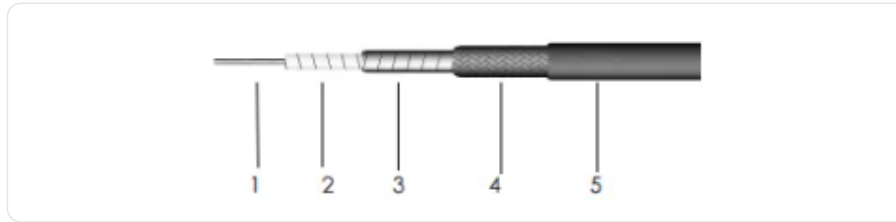
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Cable Construction



Structure	Dimension (mm)	Tolerance	Material
1. Center Conductor	0.51	±0.01	Silver-plated copper
2. Dielectric	1.43	±0.03	PTFE
3. Outer Conductor	1.55	±0.03	Silver-plated copper tape
4. Outer Shield	1.85	±0.05	Silver-plated copper wire braid
5. Jacket	2.20	±0.10	Grey FEP

Typical Base Cable Attenuation & CW Power

Attenuation: typical at 25°C, VSWR = 1.0. Average CW power: typical at 40°C, 1 standard atmosphere.

Frequency	Attenuation	Average CW Power
300 MHz	34.2 dB/100 m	0.500 kW
1 GHz	63.1 dB/100 m	0.271 kW
2 GHz	90.1 dB/100 m	0.190 kW
4 GHz	129.1 dB/100 m	0.132 kW
6 GHz	159.7 dB/100 m	0.107 kW
8 GHz	186.0 dB/100 m	0.092 kW
10 GHz	209.5 dB/100 m	0.082 kW
12 GHz	231.0 dB/100 m	0.074 kW
14 GHz	251.0 dB/100 m	0.068 kW
18 GHz	287.7 dB/100 m	0.059 kW
20 GHz	304.8 dB/100 m	0.056 kW
26.5 GHz	355.9 dB/100 m	0.048 kW
40 GHz	448.0 dB/100 m	0.038 kW

Reference 50 cm Measurement

Parameter	Marker Frequency	Measured Value	Sample
S11 VSWR	22.2616 GHz	1.15	50 cm
S22 VSWR	26.5000 GHz	1.16	50 cm
S12 Log Magnitude	25.9702 GHz	-1.92 dB	50 cm