

Rev:A00

## Tinned Copper Cable Assembly



Cable length, connector, cable diameter and bending mode can be customized.

Bare wire diameters include 1.2mm and 2.2mm.

### Technical requirements

Item	Specification
Frequency range	DC-12GHz, 12GHz-18GHz
Impedance	50Ω
Return loss	≥20dB@DC-12GHz(300K) ≥17dB@12-18GHz(300K) ≥18dB@DC-12GHz(77K) ≥16dB@12-18GHz(77K)
Insert loss	Insertion loss can be calculated according to the length and the attenuation of the bare wire of different diameters.
Insulation resistance	≥5000MΩ
Temperature	10mK-300K
Connector	SSMP-F & SMA-M

### Material and surface

Item	Material	Surface	
SSMP Connector	Outer conductor	Beryllium bronze	Non-magnetic gold plated
	Center conductor	Beryllium bronze	Non-magnetic gold plated
	Connector-dielectric	PTFE	/
SMA Connector	Outer conductor	Beryllium bronze	Non-magnetic gold plated
	Center conductor	Beryllium bronze	Non-magnetic gold plated
	Connector-dielectric	PTFE	/
Cable	Tinned copper	/	
Housing	Oxygen-free copper	Non-magnetic gold plated	

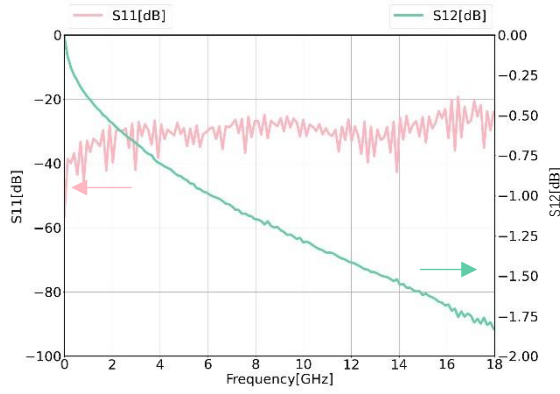
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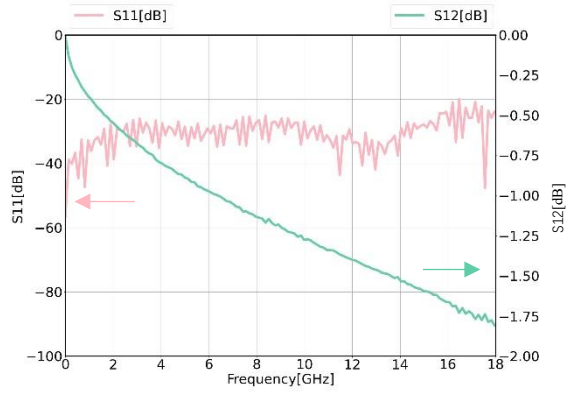
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**Test results** (GASG01812A397)

Measure data,  $T_{amb}=300K$



Measure data,  $T_{amb}=77K$



**Outline drawing (Unmarked tolerance:  $\pm 0.1mm$ )**

