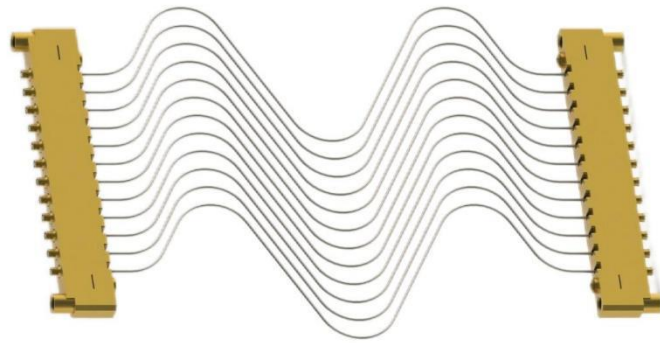


Rev:A00

SSMP-FF-L-25 Cu-Ni Cable Assembly



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

Bare wire diameters include 0.5mm, 0.86mm and 1.2mm.

Technical requirements

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

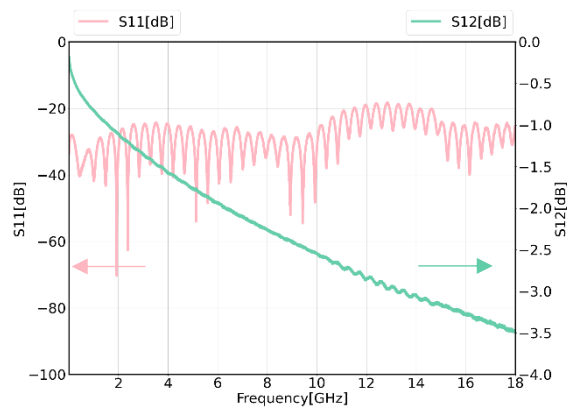
SSMP-FF-L-25 Cu-Ni Cable Assembly

Material and surface

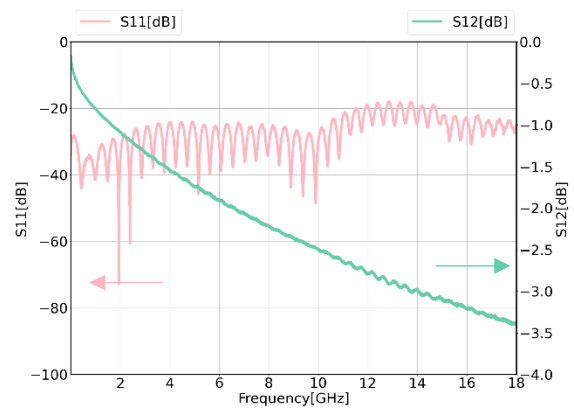
| | Item | Material | Surface |
|----------------|----------------------|--------------------|--------------------------|
| SSMP Connector | Outer conductor | Beryllium bronze | Non-magnetic gold plated |
| | Center conductor | Beryllium bronze | Non-magnetic gold plated |
| | Connector-dielectric | PTFE | / |
| | Packaging case | Oxygen-free copper | Non-magnetic gold plated |
| | Cable | Cu-Ni | / |

Test results (CASG01822A377)

Measure data, T_{amb}=300K



Measure data, T_{amb}=77K



Outline drawing (Unmarked tolerance: ±0.1mm)

