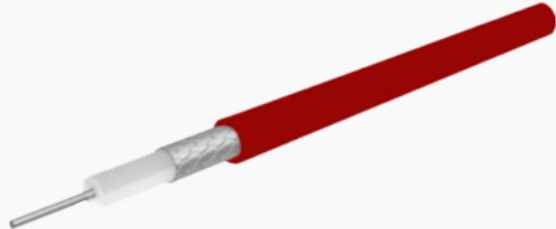


Withwave's Handformable Microwave Cable Assemblies are complete line of high performance cable assemblies and they achieve velocity propagation of **71 %**.

These series have excellent RF performance up to 8 & 28 GHz with N-type & SMA connectors, respectively.



■ Features

- Center Conductor : Steel, Copper+Silver Plated
- Insulator : PTFE (Polytetrafluoroethylene)
- Outer Conductor : Copper, Tin Plated
- Jacket : PE (Polyethylene)

■ Specification

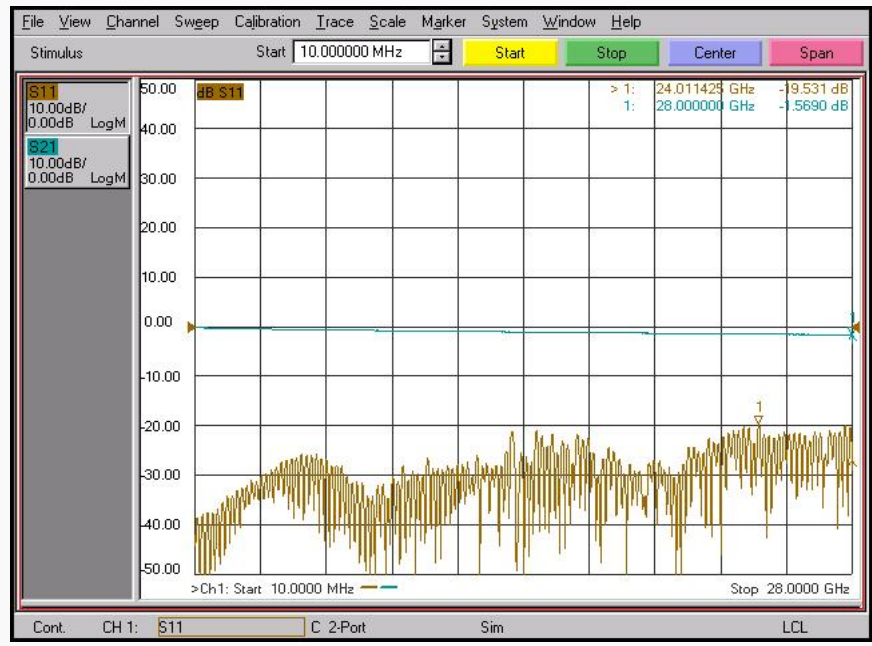
| Scope | Specification | SF141S | |
|----------------------------|--|--|------------|
| Physical | Center Conductor (mm) | 0.95 | |
| | Insulator (mm) | 2.95 | |
| | Outer Conductor (mm) | 3.58 | |
| | Jacket | 4.60 ± 0.1 | |
| Electrical | Characteristic Impedance | 50 ± 2 Ohm | |
| | Velocity of Propagation (%) | Typical 71 | |
| | Capacitance | 92 pF/m | |
| | VSWR (based on connector selection) | < 1.2 to 8 GHz (N-type) < 1.3 to 28 GHz (SMA) | |
| | Attenuation at 25 °C (Typical) | at 4.95 GHz | 0.99 dB/m |
| | | at 6.6 GHz | 1.18 dB/m |
| | | at 18 GHz | 2.24 dB/m |
| | | at 28 GHz | 3.00 dB /m |
| Mechanical & Environmental | Weight (g/M) | 47 | |
| | Min. bending radius (mm) | 8.0 (Static) 40.0 (Repeted) | |
| | Operating Temperature | -40 ~+85°C | |

Test Result

SF141S cable assembly

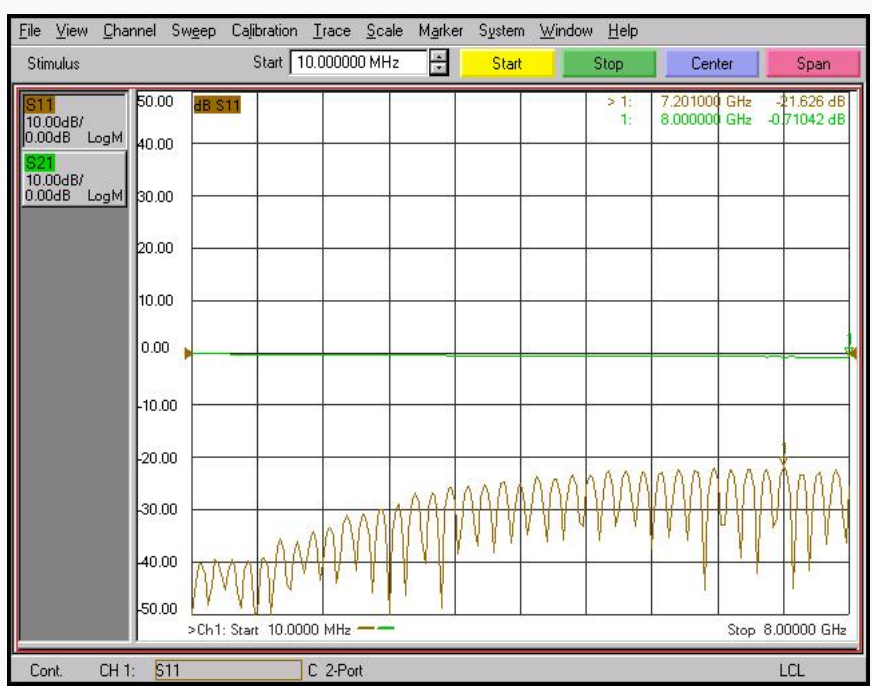
Part No. : SF141S-SMSM1-0.5M

- Frequency : 10 MHz to 28 GHz
- Connector : SMA (Male)
- Cable Length : 0.5 meter



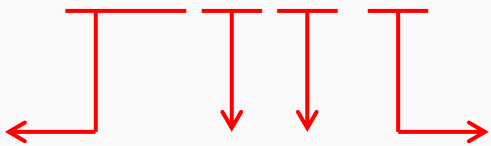
Part No. : SF141S-NM1NM1-0.5M

- Frequency : 10 MHz to 8 GHz
- Connector : N-type (Male)
- Cable Length : 0.5 meter



■ **Selection Guide**

SF141S- SM1SM1 -0.5M



| <u>Cable Type</u> | <u>Connector Type</u> | <u>Cable Length</u> |
|-------------------|-------------------------------------|---------------------|
| SF141S | SM1 : SMA Male NM1 : N-type Male | Unit : Meter |

