

# Handformable Microwave Cable Assemblies

## Dc to 8 & 28 GHz



**Microwave Farm’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                          | MFSF141S                                         |
|------------|----------------------------------------|--------------------------------------------------|
| 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<br>(based on connector selection) | < 1.2 to 8 GHz (N-type)<br>< 1.3 to 28 GHz (SMA) |
|            | Attenuation<br>at 25 °C<br>(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                             |
|            | Weight (g/M)                           | 47                                               |
|            | Min. bending radius (mm)               | 8.0 (Static)<br>40.0 (Repeted)                   |
|            | Operating Temperature                  | -40 ~+85°C                                       |

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## DC to 8 & 28 GHz

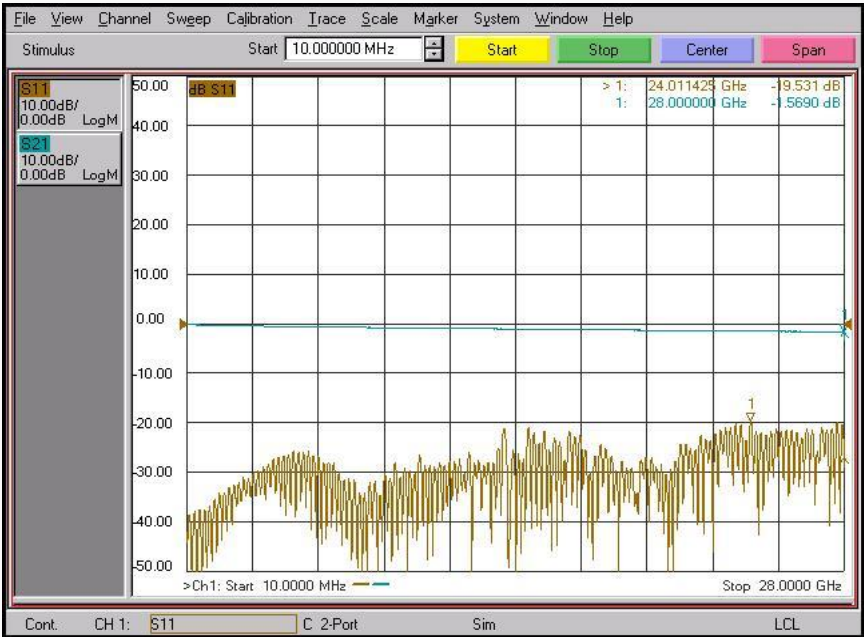


### ■ Test Result

#### MFSF141S cable assembly

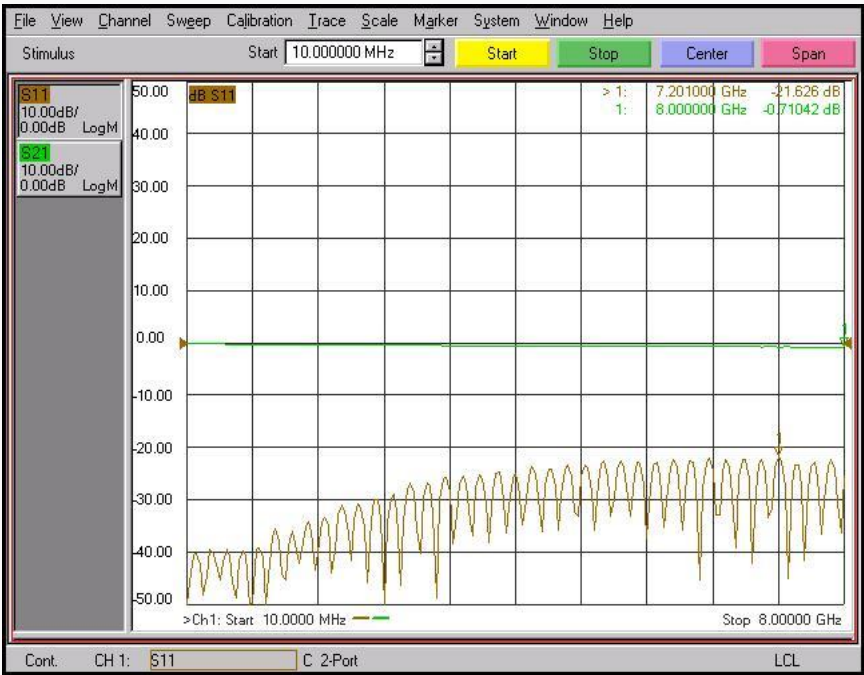
Part No. : MFSF141S-SMSM1-0.5M

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



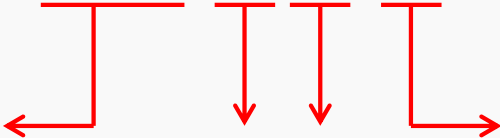
Part No. : MFSF141S-NM1NM1-0.5M

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



■ Selection Guide

MFSF141S- SM1SM1 -0.5M



Cable Type

MFSF141S

Connector Type

SM1 : SMA Male  
NM1 : N-type Male

Cable Length

Unit : Meter

