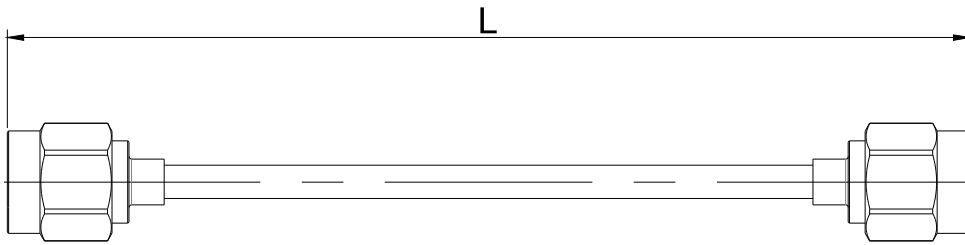


**SMA Male to SMA Male Cable Using .086" Semi-flexible Coax, DC- 26.5 GHz** P/N: **FR711-SMMSMM-XXX**



SMA MALE

SMA MALE

Dimensions are in mm



## Connectors Configuration

|                           | Connector 1     | Connector 2     |
|---------------------------|-----------------|-----------------|
| Connector Series          | SMA             | SMA             |
| Connector Polarity        | Standard        | Standard        |
| Connector Gender          | Male            | Male            |
| Connector Impedance (Ohm) | 50              | 50              |
| Connector Mount Method    | None            | None            |
| Connector Body Style      | Straight        | Straight        |
| Connector Body Material   | Stainless Steel | Stainless Steel |
| Connector Body Plating    | Passivated      | Passivated      |

## Cable Configuration

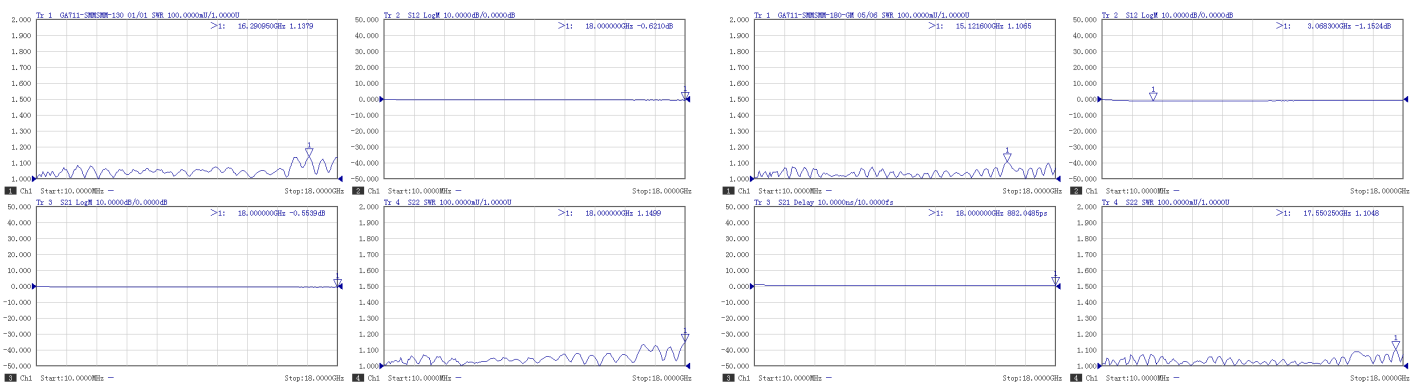
|                          |   |
|--------------------------|---|
| Cable Type               | .086" Semi-Flexible cable                 |
| Cable Impedance (Ohm)    | 50  |
| Inner Conductor Material | Silver Plated Copper Covered Steel (SCCS) |
| Dielectric Material      | Solid extruded PTFE                       |
| Number of Shields        | 1   |
| Shield Layer 1 Material  | Tin Plated Copper                         |
| Jacket Diameter (mm)     | 2.2                                       |
| Cable Color              | Silver                                    |
| Minimum Bend Radius (mm) | 6   |
| Capacitance (pF/m)       | 94  |
| Velocity of Propagation  | 71%                                       |
| Shielding Effectiveness  | > -110dB @ 1GHz                           |

## SMA Male to SMA Male Cable Using .086" Semi-flexible Coax, DC- 26.5 GHz P/N: FR711-SMMSMM-XXX

### Electrical Data

| Electrical Specifications for Different Length |                       |               |                    |                       |
|--|-----------------------|---------------|--------------------|-----------------------|
| Length (mm)                                    | Length Tolerance (mm) | Frequency     | VSWR / Return Loss | Insertion Loss ≤ (dB) |
| 100  | ±3                    | DC to 26.5GHz | 1.25 to 18GHz      | 0.83 to 18GHz         |
| 150  | ±3                    |               |                    | 0.95 to 18GHz         |
| 200  | ±3                    |               |                    | 1.16 to 18GHz         |
| 250  | ±3                    |               |                    | 1.35 to 18GHz         |
| 300  | ±5                    |               |                    | 1.49 to 18GHz         |
| 400  | ±5                    |               |                    | 1.82 to 18GHz         |
| 500  | ±5                    |               |                    | 2.15 to 18GHz         |

### Test Report for Cable assembly



\*Note: Test Cable Assembly Length = 130 mm

\*Note: Test Cable Assembly Length = 180 mm

### Environmental Specifications

|                             |                 |
|-----------------------------|-----------------|
| RoHS Compliant              | Yes             |
| Operating Temperature Range | -40°C to +155°C |
| MIL/STD                     | N/A             |