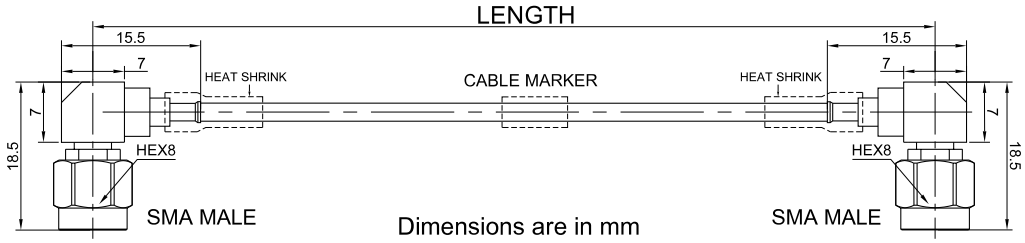
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# Datasheet

## P/N: FR712-SMWM1SMWM1-XXX

**SMA Right Angle Male to SMA Right Angle Male Cable Assembly | 086" Semi-Flexible Coax Cable with FEP Jacket | DC - 18GHz**



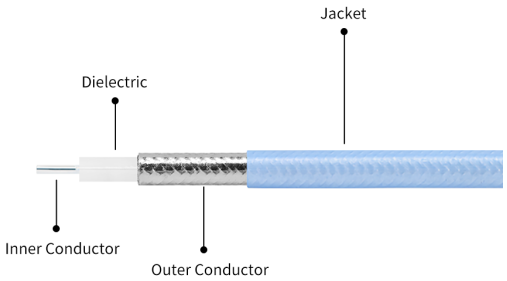



## Connectors Configuration

| | Connector 1 | Connector 2 |
|---|---|---|
| Connector Series | SMA | SMA |
| Connector Polarity | Standard | Standard |
| Connector Gender | Male | Male |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Body Style | Right Angle | Right Angle |
| 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 |
| Shield Layer 1 Material | Tin Plated Copper |
| Jacket Material | FEP |
| Cable Diameter (mm) | 2.54 |
| Cable Color | Blue |
| Minimum Bend Radius (mm) | 6 |
| Capacitance (pF/m) | 94 |
| Velocity of Propagation | 71% |
| Shielding Effectiveness | < -110dB @ 1GHz |





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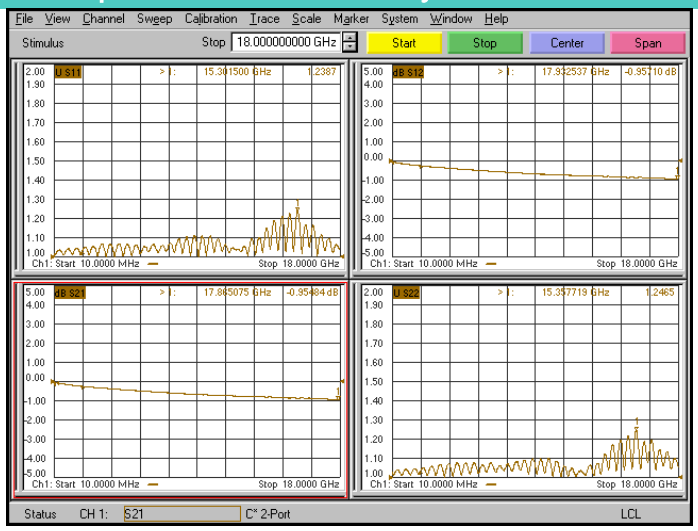
## Electrical Data

| Electrical Specifications for Different Length | | | | |
|---|---|---|---|---|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss ≤ (dB) |
| 100 | ±3 | DC - 18GHz | 1.35 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 | ±3 | | | 1.49 to 18GHz |
| 400 | ±5 | | | 1.85 to 18GHz |
| 500 | ±5 | | | 2.15 to 18GHz |

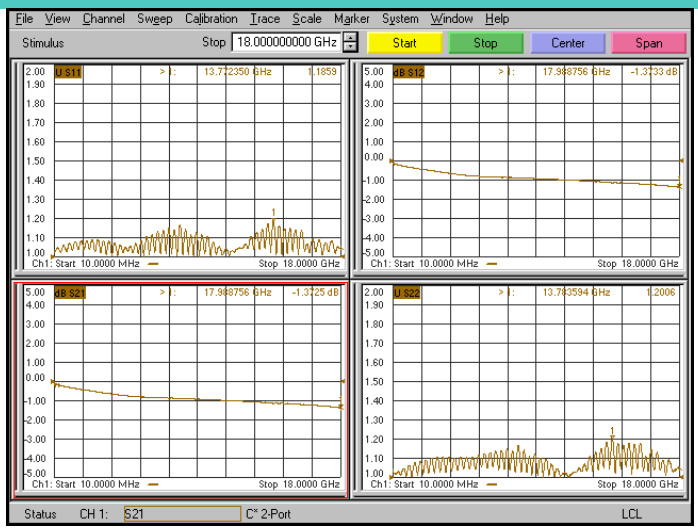
## Enviromental Specifications

| | |
|---|---|
| RoHS Compliant | Yes |
| Operating Temperature Range | -40°C to +125°C |

## Test Report for Cable assembly




*Note:Test Cable Assembly Length = 200 mm




*Note:Test Cable Assembly Length = 300 mm

## Revision History

| Version | Description | Prepared By | Approved By | Date |
|---|---|---|---|---|
| V1.0 | Initial release | Grimm | Hebe | 2024-01-01 |

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