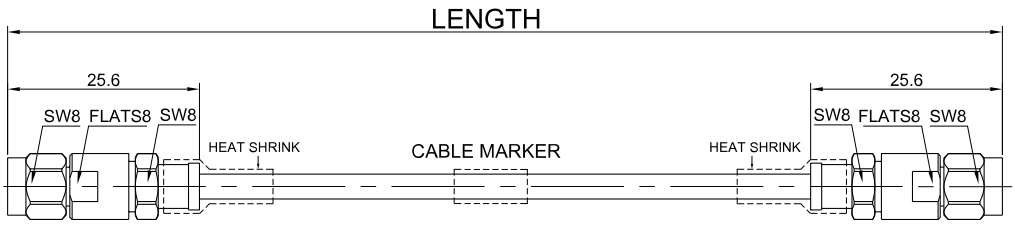
Flexi RF
*Reliable RF Components In Stock*

# Datasheet

## P/N: FRA1-292M292M-XXX

**2.92mm Male to 2.92mm Male Cable Assembly | 142A Series Low Loss Phase Stable Flexible Coax Cable | DC-40GHz | 2.2dB/m@40GHz |**




Dimensions are in mm

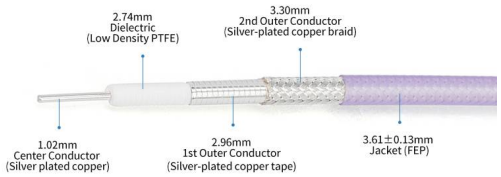


## Connectors Configuration

| | Connector 1 | Connector 2 |
|---|---|---|
| Connector Series | 2.92mm | 2.92mm |
| Connector Polarity | Standard | Standard |
| Connector Gender | Male | Male |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Body Style | Straight | Straight |
| Connector Body Material | Stainless Steel | Stainless Steel |
| Connector Body Plating | Passivated | Passivated |

## Cable Configuration

| | |
|---|---|
| Cable Type | 142A Series |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver plated copper |
| Dielectric Material | Low Density PTFE |
| Number of Shields | 2 |
| Shield Layer 1 Material | Silver-plated copper tape |
| Shield Layer 2 Material | Silver-plated copper braid |
| Jacket Material | FEP |
| Cable Diameter (mm) | 4.00 |
| Minimum Bend Radius (mm) | 18 |
| Capacitance (pF/m) | 80.38 |
| Velocity of Propagation | 83 |
| Shielding Effectiveness | <-100dB @ 1GHz |





**Flexi RF Inc**

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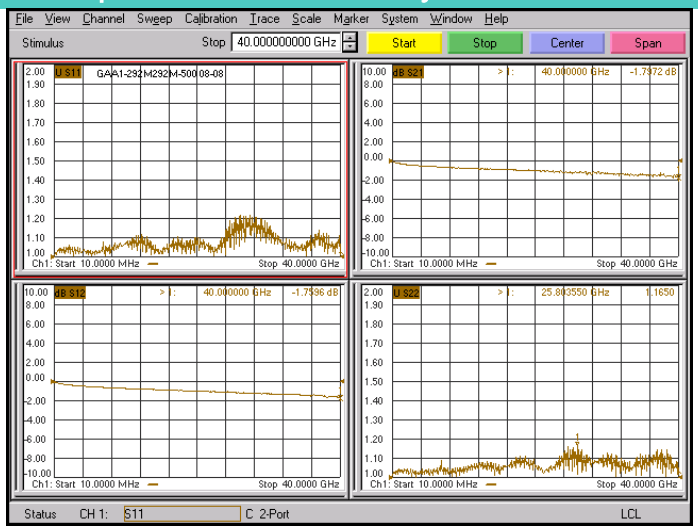
## Electrical Data

| Electrical Specifications for Different Length | | | | |
|---|---|---|---|---|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss ≤ (dB) |
| 500 | ±5 | DC to 40 GHz | 1.3 to 40 GHz | 1.70 to 40GHz |
| 600 | ±5 | | | 1.91 to 40GHz |
| 700 | ±5 | | | 2.14 to 40GHz |
| 800 | ±5 | | | 2.36 to 40GHz |
| 900 | ±5 | | | 2.58 to 40GHz |
| 1000 | ±10 | | | 2.8 to 40GHz |
| 1500 | ±15 | | | 3.9 to 40GHz |
| 2000 | ±20 | | | 5.1 to 40GHz |
| 3000 | ±30 | | | 7.3 to 40GHz |

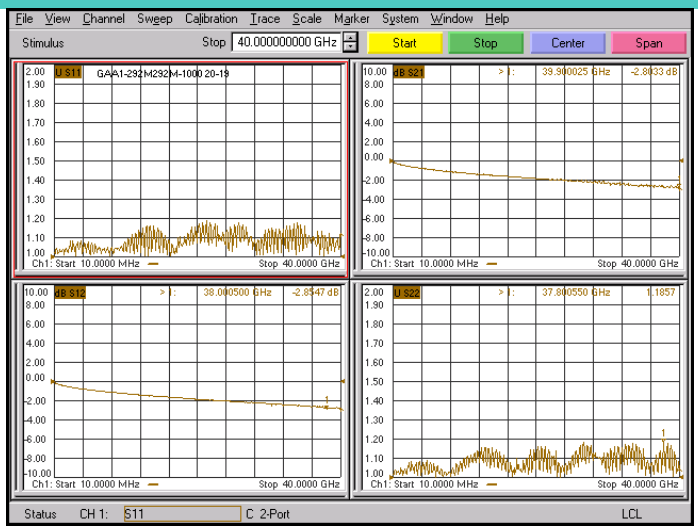
## Enviromental Specifications

| | |
|---|---|
| RoHS Compliant | Yes |
| Operating Temperature Range | -40°C to +125°C |
| MIL/STD | N/A |

## Test Report for Cable assembly




*Note:Test Cable Assembly Length = 500 mm




*Note:Test Cable Assembly Length = 1000 mm

## Revision History

| Version | Description | Prepared By | Approved By | Date |
|---|---|---|---|---|