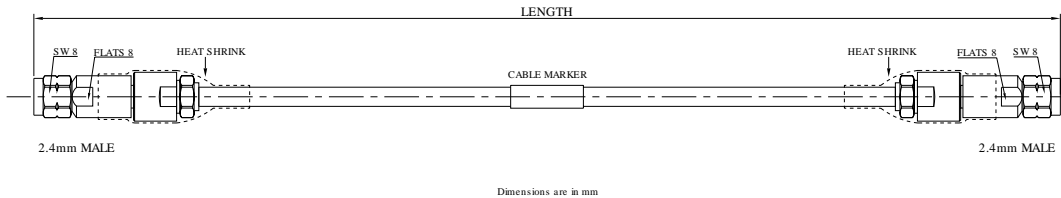


P/N: FRU3-24M24M-XXX

2.4mm Male to 2.4mm Male RF Cable Assembly | 3507 Series Low Loss Phase Stable Flexible Coax | DC-40GHz | 2.8dB/m @40GHz | Ø3.6mm

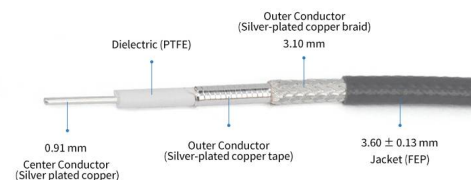


Connectors Configuration

| | Connector 1 | Connector 2 |
|---------------------------|-----------------|-----------------|
| Connector Series | 2.4mm | 2.4mm |
| 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 | 3507 Series Flexible cable |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver plated copper |
| Dielectric Material | ePTFE |
| 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) | 3.6 |
| Cable Color | Gray |
| Minimum Bend Radius (mm) | 12.7mm |
| Capacitance (pF/m) | 86 |
| Velocity of Propagation | 82% |
| Shielding Effectiveness | >100dB |



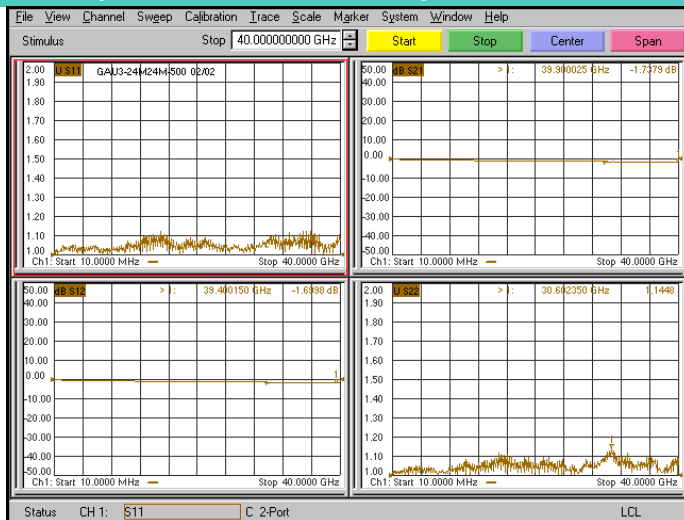
Electrical Data

| Electrical Specifications for Different Length | | | | |
|--|-----------------------|-----------|--------------------|----------------------------|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss \leq (dB) |
| 500 | ± 5 | DC-40GHz | 1.35 to 40GHz | 1.86dB to 40GHz |
| 600 | ± 5 | | | 2.12dB to 40GHz |
| 700 | ± 5 | | | 1.99dB to 40GHz |
| 800 | ± 10 | | | 2.72dB to 40GHz |
| 900 | ± 10 | | | 2.94dB to 40GHz |
| 1000 | ± 10 | | | 3.16dB to 40GHz |
| 1500 | ± 15 | | | 4.46dB to 40GHz |
| 2000 | ± 20 | | | 5.76dB to 40GHz |
| 3000 | ± 30 | | | 8.36dB to 40GHz |

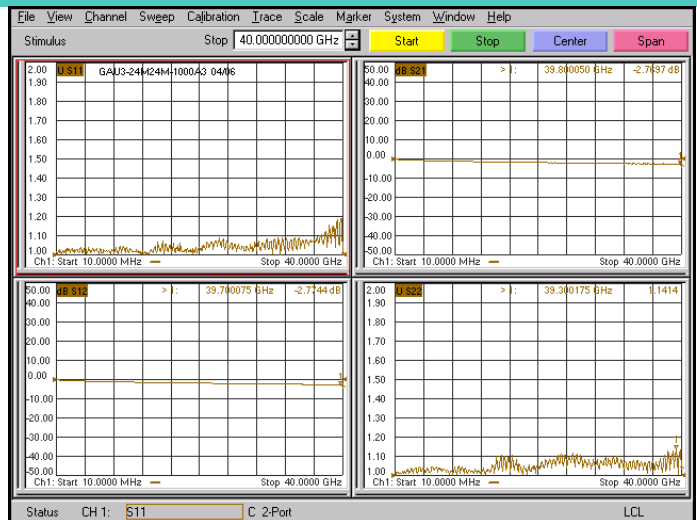
Environmental Specifications

| | |
|-----------------------------|-----------------|
| RoHS Compliant | Yes |
| Operating Temperature Range | -55°C to +125°C |

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 |
|---------|-------------|-------------|-------------|------|
|---------|-------------|-------------|-------------|------|