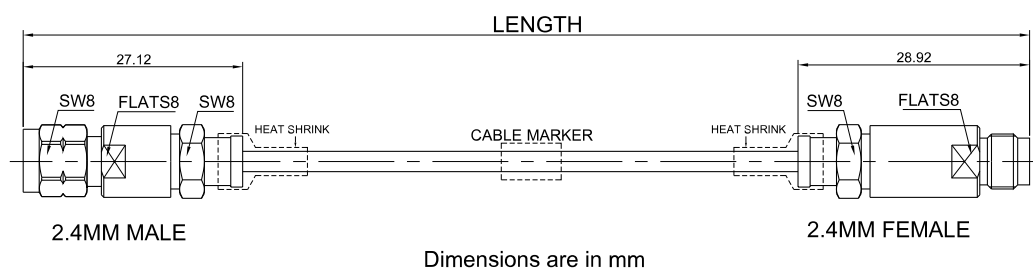


**P/N: FRU9-24M24F-XXXA3**

**2.4mm Male to 2.4mm Female Cable Using 3500 Series With Stainless Steel Wire Covered By Tin Plated Copper Wire And Nomex Braid Coax | DC-50GHz**



## Connectors Configuration

|                           | Connector 1     | Connector 2     |
|---------------------------|-----------------|-----------------|
| Connector Series          | 2.4mm           | 2.4mm           |
| Connector Polarity        | Standard        | Standard        |
| Connector Gender          | Male            | Female          |
| 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               | 3500 SERIES Coax                                                       |
| 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)      | 3.1                                                                    |
| Armor Type               | Stainless Steel Wire Covered By Tin Plated Copper Wire And Nomex Braid |
| Armored Diameter (mm)    | 7.5                                                                    |
| Minimum Bend Radius (mm) | 25.4                                                                   |
| Velocity of Propagation  | 83%                                                                    |
| Shielding Effectiveness  | >90dB@1GHz                                                             |



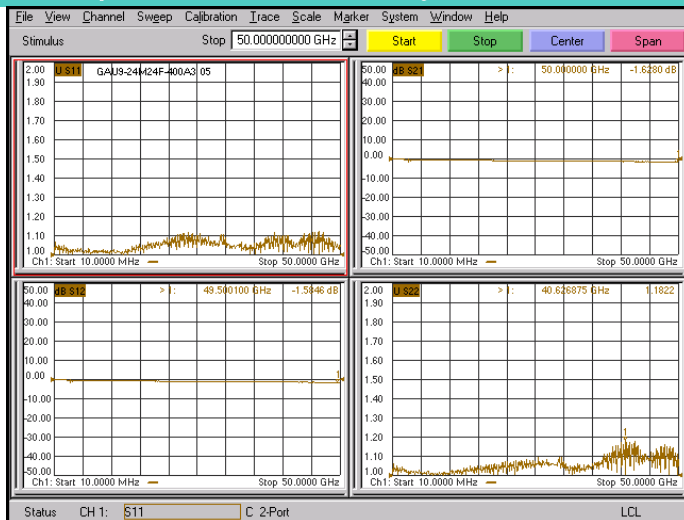
## Electrical Data

| Electrical Specifications for Different Length |                       |           |                    |                            |
|------------------------------------------------|-----------------------|-----------|--------------------|----------------------------|
| Length (mm)                                    | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss $\leq$ (dB) |
| 200                                            | $\pm 3$               | DC-50GHz  | 1.40 to 50 GHz     | 1.32                       |
| 400                                            | $\pm 5$               |           |                    | 2.05                       |
| 500                                            | $\pm 5$               |           |                    | 2.41                       |
| 1000                                           | $\pm 10$              |           |                    | 4.25                       |
| 1500                                           | $\pm 15$              |           |                    | 5.95                       |
| 2000                                           | $\pm 20$              |           |                    | 7.75                       |
| 3000                                           | $\pm 30$              |           |                    | 11.3                       |

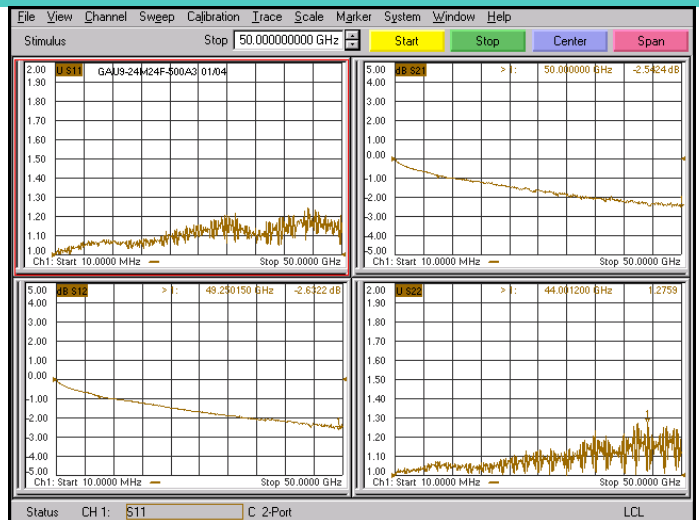
## Enviromental Specifications

|                             |                 |
|-----------------------------|-----------------|
| 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 = 400 mm



\*Note: Test Cable Assembly Length = 500 mm

## Revision History

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