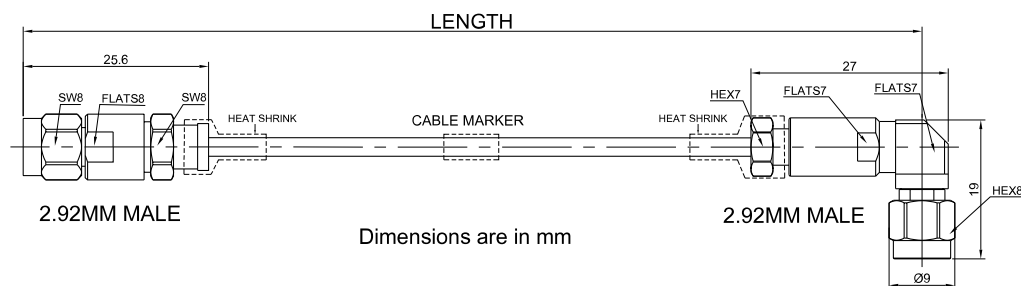


P/N: FRU3-292M292WM-XXX

2.92mm Male to 2.92mm Right Angle 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          | 2.92mm          | 2.92mm          |
| Connector Polarity        | Standard        | Standard        |
| Connector Gender          | Male            | Male            |
| Connector Impedance (Ohm) | 50              | 50              |
| Connector Body Style      | Straight        | Right Angle     |
| 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 @ 1GHz            |

## Electrical Data

| Electrical Specifications for Different Length |                       |            |                    |                            |
|------------------------------------------------|-----------------------|------------|--------------------|----------------------------|
| Length (mm)                                    | Length Tolerance (mm) | Frequency  | VSWR / Return Loss | Insertion Loss $\leq$ (dB) |
| 500                                            | $\pm 5$               | DC-40GHz   | 1.35 to 40GHz      | 1.86dB to 40GHz            |
| 600                                            | $\pm 5$               |            |                    | 2.12dB to 40GHz            |
| 700                                            | $\pm 5$               |            |                    | 1.99dB to 40GHz            |
| 800                                            | $\pm 10$              |            |                    | 2.72dB to 40GHz            |
| 900                                            | $\pm 10$              |            |                    | 2.94dB to 40GHz            |
| 1000                                           | $\pm 10$              |            |                    | 3.16dB to 40GHz            |
| 1500                                           | $\pm 15$              |            |                    | 4.46dB to 40GHz            |
| 2000                                           | $\pm 20$              |            |                    | 5.76dB to 40GHz            |
| 3000                                           | $\pm 30$              | DC - 40GHz |                    | 8.36dB to 40GHz            |
| 5000                                           | $\pm 50$              |            |                    | 14.76 to 40GHz             |

## Enviromental Specifications

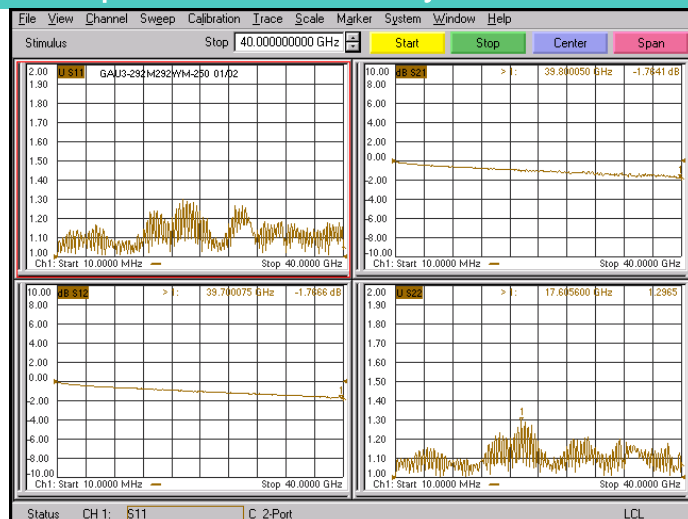
RoHS Compliant

Yes

Operating Temperature Range

-55°C to +125°C

## Test Report for Cable assembly



\*Note: Test Cable Assembly Length = 250 mm



\*Note: Test Cable Assembly Length = 3200 mm

## Revision History

| Version | Description     | Prepared By | Approved By | Date       |
|---------|-----------------|-------------|-------------|------------|
| V1.0    | Initial release | Grimm       | Hebe        | 2026-07-26 |