

P/N: FRF71-292F24F-XXX

2.92mm Female to 2.4mm Female Cable Assembly | RG-405SS Flexible Coax Cable | DC - 40GHz



## Connectors Configuration

|                           | Connector 1     | Connector 2     |
|---------------------------|-----------------|-----------------|
| Connector Series          | 2.92mm          | 2.4mm           |
| Connector Polarity        | Standard        | Standard        |
| Connector Gender          | Female          | 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               | RG-405SS                   |
| Cable Impedance (Ohm)    | 50                         |
| Inner Conductor Material | Silver Plated Copper Wire  |
| Dielectric Material      | 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)      | 2.64                       |
| Cable Color              | Turquoise                  |
| Minimum Bend Radius (mm) | 6                          |
| Capacitance (pF/m)       | 96.5                       |
| Velocity of Propagation  | 70%                        |
| Shielding Effectiveness  | < -100dB @ 1GHz            |

## Electrical Data

| Electrical Specifications for Different Length |                       |            |                    |                            |
|------------------------------------------------|-----------------------|------------|--------------------|----------------------------|
| Length (mm)                                    | Length Tolerance (mm) | Frequency  | VSWR / Return Loss | Insertion Loss $\leq$ (dB) |
| 100                                            | $\pm 3$               | DC - 40GHz | 1.35               | 1.32                       |
| 150                                            | $\pm 3$               |            |                    | 1.63                       |
| 200                                            | $\pm 3$               |            |                    | 1.94                       |
| 250                                            | $\pm 3$               |            |                    | 2.25                       |
| 300                                            | $\pm 5$               |            |                    | 2.56                       |
| 400                                            | $\pm 5$               |            |                    | 3.21                       |
| 500                                            | $\pm 5$               |            |                    | 3.82                       |
| 1000                                           | $\pm 10$              |            |                    | 6.92                       |

## Environmental Specifications

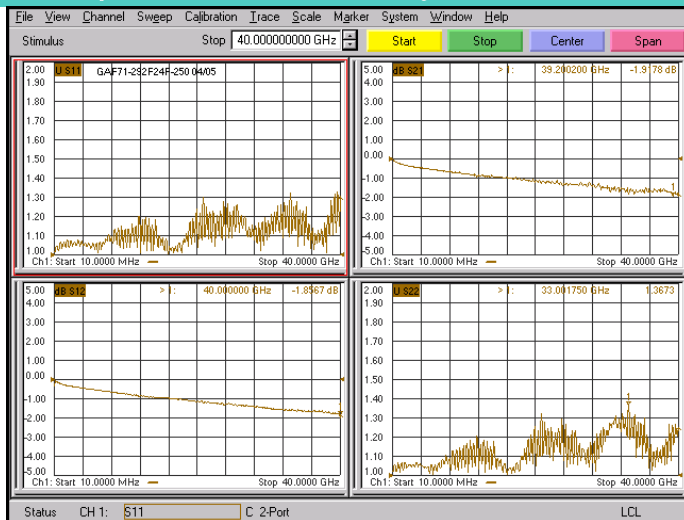
RoHS Compliant

Yes

Operating Temperature Range

-45°C to +125°C

## Test Report for Cable assembly



\*Note: Test Cable Assembly Length = 250 mm

## Revision History

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