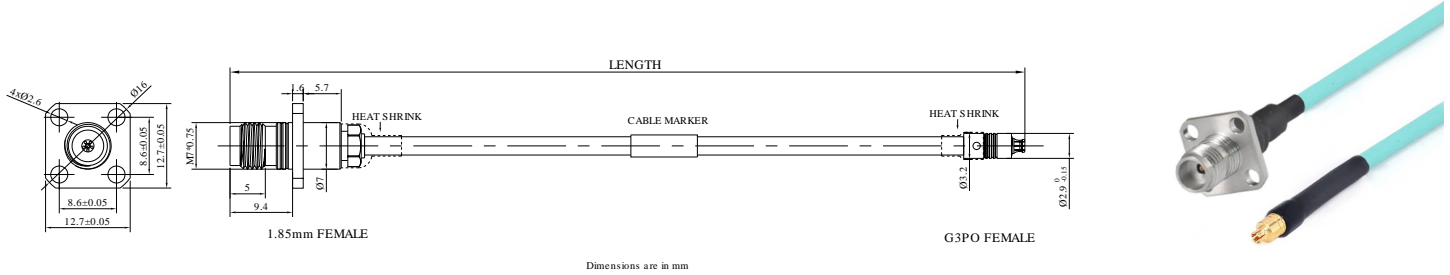


P/N: FRF71-185FFG3PF-XXX

1.85mm 4 Hole Flange Female to G3PO(SMPS) Female Cable Assembly | RG-405SS Flexible Coax Cable | DC - 67GHz

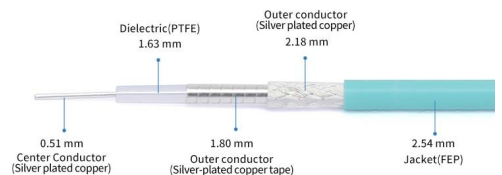


Connectors Configuration

| | Connector 1 | Connector 2 |
|---------------------------|-----------------|------------------|
| Connector Series | 1.85mm | G3PO(SMPS) |
| Connector Polarity | Standard | Standard |
| Connector Gender | Female | Female |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Mount Method | 4 Hole Flange | None |
| Connector Body Style | Straight | Straight |
| Connector Body Material | Stainless Steel | Beryllium Copper |
| Connector Body Plating | Passivated | Gold |

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 ≤ (dB) |
| 100 | ±3 | DC - 67GHz | 10dB to 67GHz | 1.79 to 67GHz |
| 200 | ±3 | | | 2.55 to 67GHz |
| 300 | ±5 | | | 3.32 to 67GHz |
| 500 | ±5 | | | 4.85 to 67GHz |
| 800 | ±10 | | | 7.18 to 67GHz |
| 1000 | ±10 | | | 8.65 to 67GHz |
| 1500 | ±15 | | | 12.45 to 67GHz |
| 2000 | ±20 | | | 16.20 to 67GHz |

Environmental Specifications

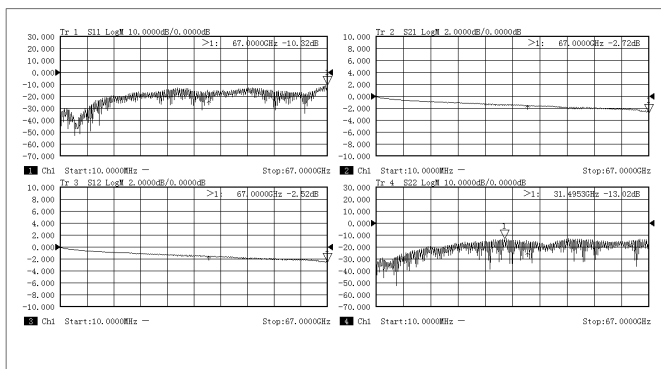
RoHS Compliant

Yes

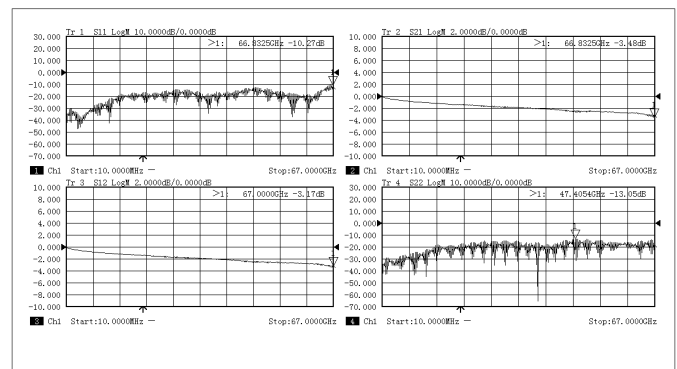
Operating Temperature Range

-45°C to +125°C

Test Report for Cable assembly



*Note: Test Cable Assembly Length = 200 mm



*Note: Test Cable Assembly Length = 300 mm

Revision History

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