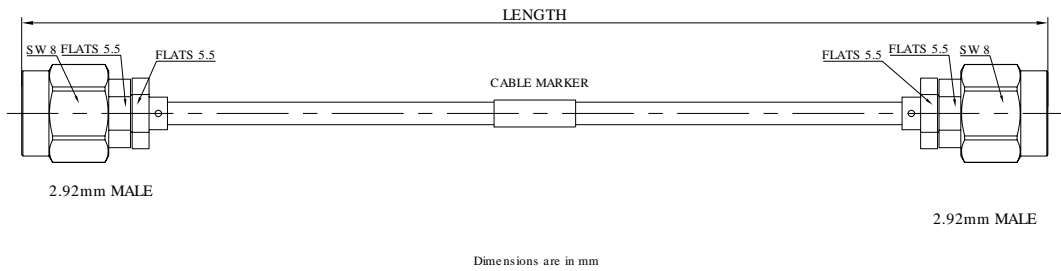


P/N: FR710C2-292M292M-XXX

2.92mm Male to 2.92mm Male Cable Assembly | .086" Semi-Rigid Stainless Steel Coax Cable | Cryogenic | DC - 40GHz



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 | Straight |
| Connector Body Material | Stainless Steel | Stainless Steel |
| Connector Body Plating | Passivated | Passivated |

Cable Configuration

| | |
|--------------------------|--|
| Cable Type | .086" Semi-rigid Cable (Stainless Steel) |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver plated copperweld |
| Dielectric Material | Solid PTFE |
| Shield Layer 1 Material | 304 Stainless Steel |
| Cable Diameter (mm) | 2.2 |
| Cable Color | Steel color |
| Minimum Bend Radius (mm) | 6mm |
| Capacitance (pF/m) | 95.2 |
| Velocity of Propagation | 70% |
| Shielding Effectiveness | <-120dB @ 1GHz |

Electrical Data

| Electrical Specifications for Different Length | | | | |
|--|-----------------------|------------|--------------------|-----------------------|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss ≤ (dB) |
| 100 | ±3 | DC - 40GHz | 1.35 to 40GHz | 1.32 |
| 150 | ±3 | | | 1.63 |
| 200 | ±3 | | | 1.94 |
| 250 | ±3 | | | 2.3 |
| 300 | ±5 | | | 2.56 |
| 400 | ±5 | | | 3.21 |
| 500 | ±5 | | | 3.82 |
| 800 | ±10 | | | |
| 1000 | ±10 | | | |

Environmental Specifications

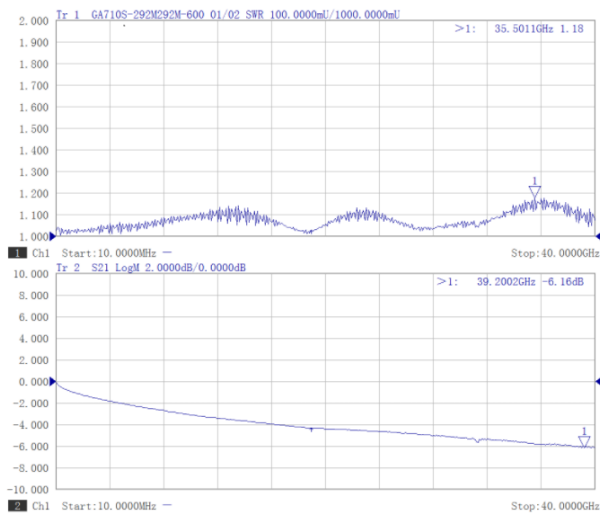
RoHS Compliant

Yes

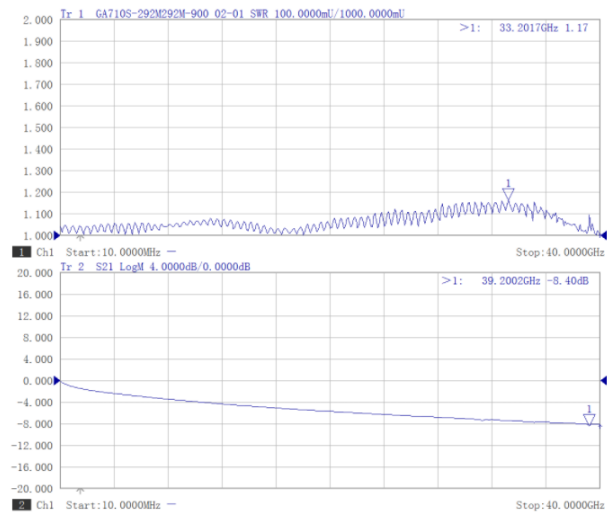
Operating Temperature Range

-65°C to +165°C

Test Report for Cable assembly



*Note: Test Cable Assembly Length = 600 mm



*Note: Test Cable Assembly Length = 900 mm

Revision History

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