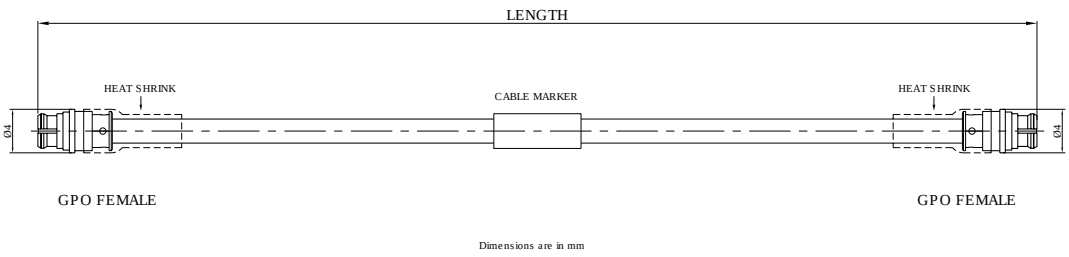
Flexi RF
*Reliable RF Components In Stock*

# Datasheet

## P/N: FR712-GPFGPF-XXX

**GPO(SMP) Female to GPO(SMP) Female Cable Assembly | 086" Semi-Flexible Coax Cable with FEP Jacket | DC - 18GHz**



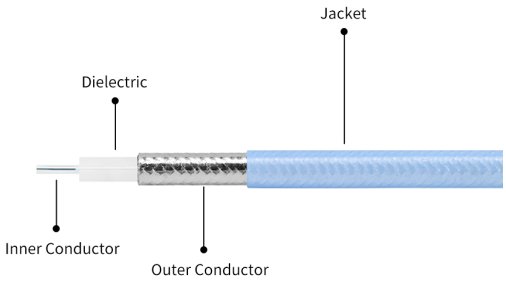



## Connectors Configuration

| | Connector 1 | Connector 2 |
|---|---|---|
| Connector Series | GPO(SMP) | GPO(SMP) |
| Connector Polarity | Standard | Standard |
| Connector Gender | Female | Female |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Body Style | Straight | Straight |
| Connector Body Material | Beryllium Copper | Beryllium Copper |
| Connector Body Plating | Gold | Gold |

## Cable Configuration

| | |
|---|---|
| Cable Type | .086" Semi-Flexible cable |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver Plated Copper Covered Steel (SCCS) |
| Dielectric Material | Solid extruded PTFE |
| Shield Layer 1 Material | Tin Plated Copper |
| Jacket Material | FEP |
| Cable Diameter (mm) | 2.54 |
| Cable Color | Blue |
| Minimum Bend Radius (mm) | 6 |
| Capacitance (pF/m) | 94 |
| Velocity of Propagation | 71% |
| Shielding Effectiveness | < -110dB @ 1GHz |





**Flexi RF Inc**

(650)880-9199

20195 Stevens Creek Blvd, Suite 220, Cupertino, CA 95014

sales@flexirf.com

www.flexirf.com

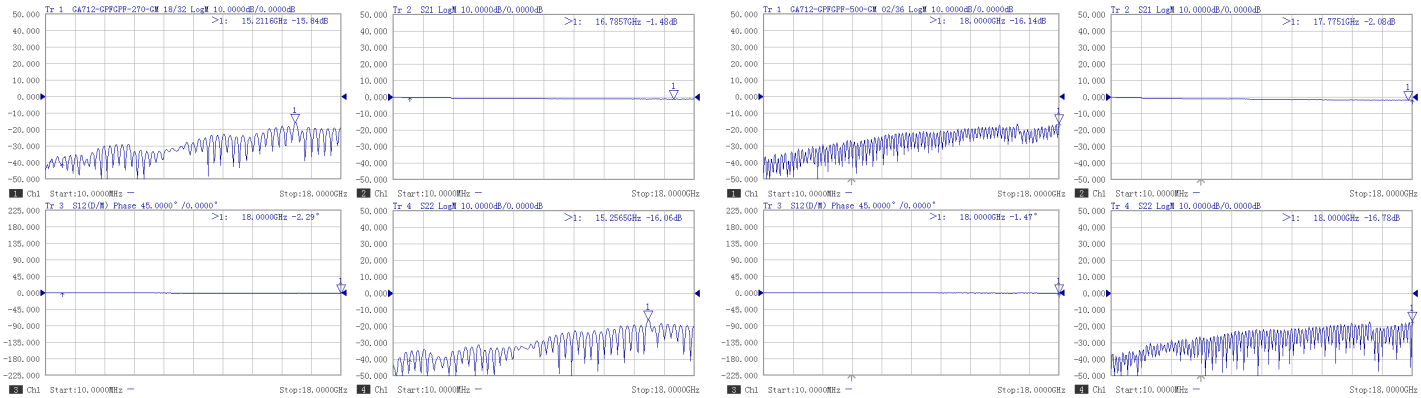
## Electrical Data

| Electrical Specifications for Different Length | | | | |
|---|---|---|---|---|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss ≤ (dB) |
| 100 | ±3 | DC - 18GHz | 12dB | 0.81 |
| 200 | ±3 | | | 1.12 |
| 300 | ±3 | | | 1.44 |
| 500 | ±5 | | | 2.05 |
| 800 | ±5 | | | 2.94 |
| 1000 | ±10 | | | 3.6 |

## Enviromental Specifications

| | |
|---|---|
| RoHS Compliant | Yes |
| Operating Temperature Range | -40°C to +125°C |

## Test Report for Cable assembly



*Note:Test Cable Assembly Length = 270 mm

*Note:Test Cable Assembly Length = 500 mm

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