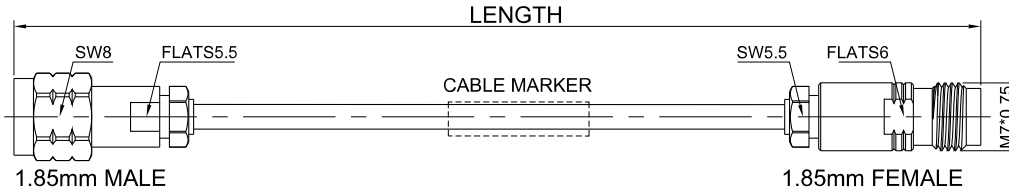


P/N: FR710-185M185F-XXX

1.85mm Male to 1.85mm Female Cable Assembly | .086" Semi-Rigid GUT-085 (Copper) Coax Cable | DC - 67GHz



Dimensions are in mm



Connectors Configuration

| | Connector 1 | Connector 2 |
|---------------------------|-----------------|-----------------|
| Connector Series | 1.85mm | 1.85mm |
| Connector Polarity | Standard | Standard |
| Connector Gender | Male | Female |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Mount Method | None | None |
| 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 (Copper) |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver plated copperweld |
| Dielectric Material | Solid PTFE |
| Shield Layer 1 Material | Copper |
| Cable Diameter (mm) | 2.2 |
| Cable Color | Cooper |
| Minimum Bend Radius (mm) | 6mm |
| Capacitance (pF/m) | 95 |
| 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 - 67GHz | 1.5 | 1.70 |
| 150 | ±3 | | | 2.20 |
| 200 | ±3 | | | 2.70 |
| 250 | ±3 | | | 3.20 |
| 300 | ±5 | | | 3.70 |
| 400 | ±5 | | | 4.70 |
| 500 | ±5 | | | 5.70 |

Environmental Specifications

RoHS Compliant

Yes

Operating Temperature Range

-45 °C to +85 °C

Revision History

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