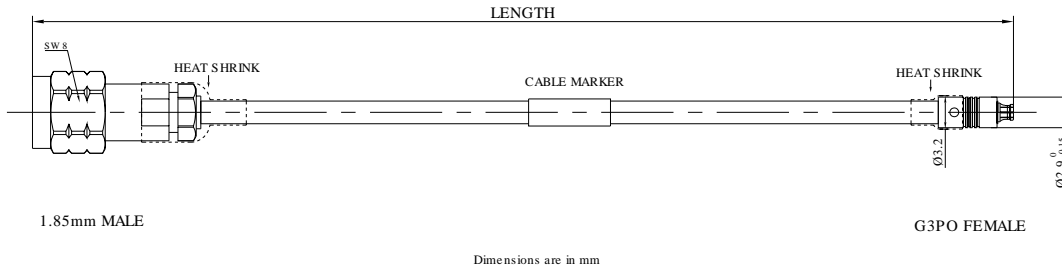


**1.85mm Male to G3PO (SMPS) Female Cable Using .086" Semi-flexible Coax with FEP Jacket, DC - 67GHz** P/N: FR712-185MG3PF-XXX



## Product Configuration

|                             |                 |
|-----------------------------|-----------------|
| Connector 1 Series          | 1.85mm          |
| Connector 1 Polarity        | Standard        |
| Connector 1 Gender          | Male            |
| Connector 1 Impedance (Ohm) | 50              |
| Connector 1 Mount Method    | None            |
| Connector 1 Body Style      | Straight        |
| Connector 2 Series          | G3PO(SMPS)      |
| Connector 2 Polarity        | Standard        |
| Connector 2 Gender          | Female          |
| Connector 2 Impedance (Ohm) | 50              |
| Connector 2 Mount Method    | None            |
| Connector 2 Body Style      | Straight        |
| Coax Cable                  | UT-085-Form-FEP |

## Mechanical Data

|                           |                  |
|---------------------------|------------------|
| Connector 1 Body Material | Stainless Steel  |
| Connector 1 Body Plating  | Passivated       |
| Connector 2 Body Material | Beryllium Copper |
| Connector 2 Body Plating  | Gold             |
| Out Diameter              | 2.54mm           |
| Min. Bending Radius       | 6mm              |
| Mating Cycles, Min        | ≥500             |

## 1.85mm Male to G3PO (SMPS) Female Cable Using .086" Semi-flexible Coax with FEP Jacket, DC - 67GHz

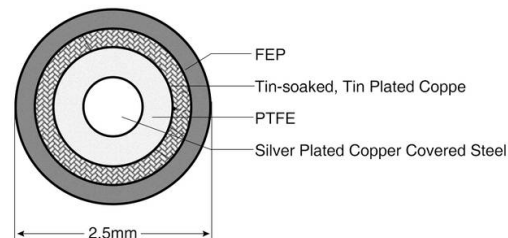
P/N: FR712-185MG3PF-XXX

### Environmental Specifications

|                             |                  |
|-----------------------------|------------------|
| RoHS Compliant              | Yes              |
| Operating Temperature Range | -40 °C to +80 °C |
| MIL/STD                     | N/A              |

### Cable Specifications

| Description                | Parameter                          |
|----------------------------|------------------------------------|
| Center Conductor           | Silver Plated Copper Covered Steel |
| Dielectric                 | PTFE                               |
| Outer Conductor            | Tin-soaked, Tin Plated Coppe       |
| Jacket                     | FEP                                |
| Jacket Diameter(mm)        | 2.5                                |
| Capacitance(pF/m)          | 94                                 |
| Velocity of propagation(%) | 71                                 |
| Min. bending radius(mm)    | 6                                  |
| Shielding Effectiveness    | > 100dB @ 1GHz                     |



### Part Number List

| Part Number         | Length(mm) | Frequency | Insertion Loss ≤ (dB) |       |       |       | VSWR         |
|---------------------|------------|-----------|-----------------------|-------|-------|-------|--------------|
|                     |            |           | 5GHz                  | 10GHz | 20GHz | 40GHz |              |
| FR712-185MG3PF-1000 | 1000±10    | DC-67GHz  | 1.7                   | 2.5   | 3.8   | 6.9   | 1.5 to 67GHz |
| FR712-185MG3PF-800  | 800±5      | DC-67GHz  | 1.4                   | 2.06  | 3.14  | 5.66  | 1.5 to 67GHz |
| FR712-185MG3PF-600  | 600±5      | DC-67GHz  | 1.09                  | 1.64  | 2.48  | 4.32  | 1.5 to 67GHz |
| FR712-185MG3PF-500  | 500±3      | DC-67GHz  | 0.95                  | 1.42  | 2.15  | 3.82  | 1.5 to 67GHz |
| FR712-185MG3PF-300  | 300±3      | DC-67GHz  | 0.65                  | 0.96  | 1.49  | 2.56  | 1.5 to 67GHz |
| FR712-185MG3PF-260  | 260±3      | DC-67GHz  | 0.59                  | 0.87  | 1.35  | 2.31  | 1.5 to 67GHz |
| FR712-185MG3PF-200  | 200±3      | DC-67GHz  | 0.51                  | 0.74  | 1.16  | 1.94  | 1.5 to 67GHz |
| FR712-185MG3PF-100  | 100±3      | DC-67GHz  | 0.35                  | 0.52  | 0.83  | 1.32  | 1.5 to 67GHz |

Note: Phase Mathching is available by request.