



\* Label and Shrinking tube design depend on customer's request.

## Configuration

|                           |                             |
|---------------------------|-----------------------------|
| Connector 1 Type          | 1.85mm Male                 |
| Connector 1 Body Style    | Straight                    |
| Body Material and Plating | Passivated Staindless Steel |
| Connector 1 Mount Method  | None                        |
| Connector 2 Type          | 1.85mm Female               |
| Connector 2 Body Style    | Straight                    |
| Body Material and Plating | Passivated Staindless Steel |
| Connector 2 Mount Method  | None                        |
| Cable Type                | Flexiform 405 FJ            |

## Electrical Specifications

|                             |                                     |
|-----------------------------|-------------------------------------|
| Impedance                   | 50 $\Omega$                         |
| Frequency                   | DC to 67 GHz                        |
| Return Loss/VSWR            | 1.50 to 67 GHz                      |
| Phase Stability vs. Flexure | N/A                                 |
| Amplitude Stability         | N/A                                 |
| Shielding Effectiveness     | <-100dB @ 1GHz                      |
| Phase Matching              | On request                          |
| Signal Delay                | On request                          |
| Power Handling              | 110watt @ 2GHz at sea level,VSWR1.0 |

## Environmental Data

|                   |                 |
|-------------------|-----------------|
| Temperature Range | -40°C to +165°C |
| RoHS              | Compliant       |

### Cable Specifications

|                            |                                    |
|----------------------------|------------------------------------|
| Center Conductor           | Silver plated copper covered steel |
| Dielectric                 | PTFE                               |
| Jacket                     | FEP, Blue-transparent              |
| Capacitance(pF/m)          | 94                                 |
| Velocity of propagation(%) | 71                                 |
| Min. bending radius(mm)    | 6                                  |
| Jacket Diameter(mm)        | 2.5                                |
| Weight(kg/100m)            | 2.2                                |

### Part Number List

| Part Number         | Length [mm]   | Insertion Loss $\leq$ (dB) |       |       |       |
|---------------------|---------------|----------------------------|-------|-------|-------|
|                     |               | 5GHz                       | 10GHz | 20GHz | 40GHz |
| GA712-185M185F-1000 | 1000 $\pm$ 10 | 1.7                        | 2.5   | 3.8   | 6.9   |
| GA712-185M185F-800  | 800 $\pm$ 8   | 1.4                        | 2.06  | 3.14  | 5.66  |
| GA712-185M185F-600  | 600 $\pm$ 6   | 1.09                       | 1.64  | 2.48  | 4.32  |
| GA712-185M185F-500  | 500 $\pm$ 5   | 0.95                       | 1.42  | 2.15  | 3.82  |
| GA712-185M185F-300  | 300 $\pm$ 5   | 0.65                       | 0.96  | 1.49  | 2.56  |
| GA712-185M185F-260  | 260 $\pm$ 5   | 0.59                       | 0.87  | 1.35  | 2.31  |
| GA712-185M185F-200  | 200 $\pm$ 5   | 0.51                       | 0.74  | 1.16  | 1.94  |
| GA712-185M185F-100  | 100 $\pm$ 5   | 0.35                       | 0.52  | 0.83  | 1.32  |

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