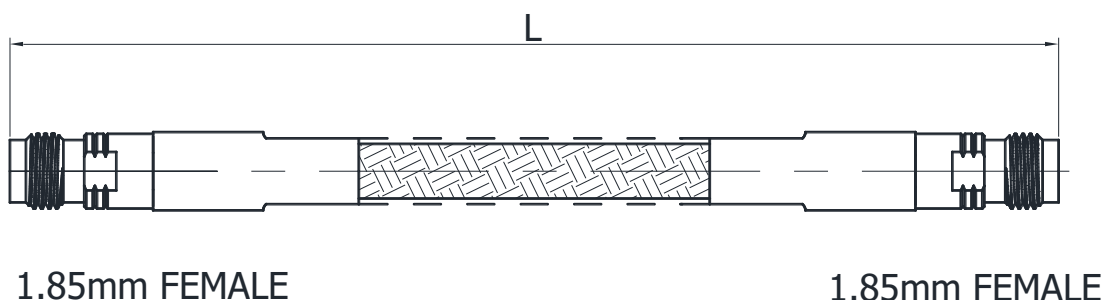


3506 SERIES, FLEXIBLE CABLE,  
1.85MM(FEMALE)- 1.85MM(FEMALE)**GAU2-185F185F-XXXA3**

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

**Configuration**

|                           |                             |
|---------------------------|-----------------------------|
| Connector 1 Type          | 1.85mm Female               |
| 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                | 3506 Series                 |

**Electrical Specifications**

|                             |                                    |
|-----------------------------|------------------------------------|
| Impedance                   | 50 Ω                               |
| Frequency                   | DC to 67 GHz                       |
| Return Loss/VSWR            | 1.50                               |
| Phase Stability vs. Flexure | $\pm 2^\circ$                      |
| Amplitude Stability         | $\pm 0.2\text{dB}$                 |
| Shielding Effectiveness     | <-100dB @ 1GHz                     |
| Phase Matching              | On request                         |
| Signal Delay                | On request                         |
| Power Handling              | 90watt @ 2GHz at sea level,VSWR1.0 |

**Environmental Data**

|                   |                 |
|-------------------|-----------------|
| Temperature Range | -40°C to +125°C |
| 2011/65/EU(RoHS)  | Compliant       |

**Cable Specifications**

|                            |                      |
|----------------------------|----------------------|
| Center Conductor           | Silver plated copper |
| Dielectric                 | ePTFE                |
| Jacket                     | FEP                  |
| Capacitance(pF/m)          | 94                   |
| Velocity of propagation(%) | 82                   |
| Min. bending radius(mm)    | 6                    |
| Jacket Diameter(mm)        | 2.2                  |

**Armor Specifications**

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| Armor Type              | Stainless steel wire covered by Tin plated copper wire and nomex braid |
| Min. bending radius(mm) | 25.4                                                                   |
| Diameter(mm)            | 6.3                                                                    |

**Part Number List**

| Part Number          | Length [mm] | Insertion Loss ≤(dB) |       |       |       |
|----------------------|-------------|----------------------|-------|-------|-------|
|                      |             | 10GHz                | 20GHz | 40GHz | 60GHz |
| GAU2-185F185F-3000A3 | 3000±10     | 6.79                 | 9.77  | 14.21 | 17.83 |
| GAU2-185F185F-2500A3 | 2500±10     | 5.74                 | 8.25  | 11.98 | 15.02 |
| GAU2-185F185F-2000A3 | 2000±10     | 4.70                 | 6.73  | 9.75  | 12.21 |
| GAU2-185F185F-1500A3 | 1500±10     | 3.65                 | 5.21  | 7.52  | 9.4   |
| GAU2-185F185F-1200A3 | 1200±10     | 3.02                 | 4.29  | 6.18  | 7.71  |
| GAU2-185F185F-1000A3 | 1000±10     | 2.61                 | 3.69  | 5.29  | 6.59  |
| GAU2-185F185F-600A3  | 600±5       | 1.77                 | 2.47  | 3.50  | 4.34  |
| GAU2-185F185F-500A3  | 500±5       | 1.56                 | 2.17  | 3.06  | 3.78  |

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.