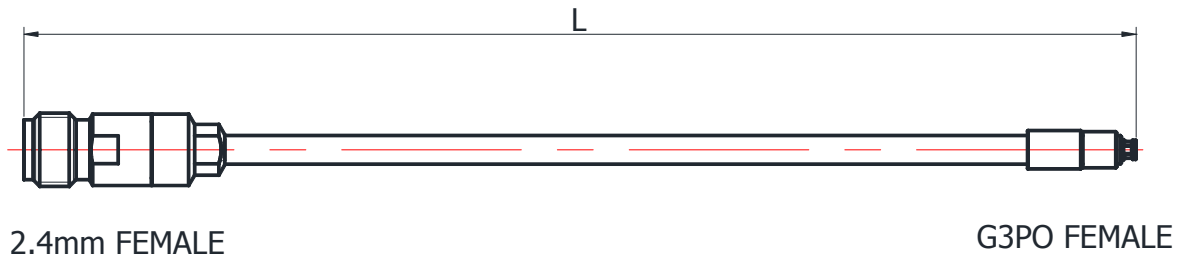


HFE100D, FLEXIBLE CABLE,  
2.4MM(FEMALE)- G3PO(SMPS)(FEMALE)

GAF71-24FG3PF-XXX



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

| <b>Configuration</b>             |                                    |
|----------------------------------|------------------------------------|
| Connector 1 Type                 | 2.4mm Female                       |
| Connector 1 Body Style           | Straight                           |
| Body Material and Plating        | Passivated Staindless Steel        |
| Connector 1 Mount Method         | None                               |
| Connector 2 Type                 | G3PO(SMPS) Female                  |
| Connector 2 Body Style           | Straight                           |
| Body Material and Plating        | CuBe Gold Plated                   |
| Connector 2 Mount Method         | None                               |
| Cable Type                       | HFED100D                           |
| <b>Electrical Specifications</b> |                                    |
| Impedance                        | 50 $\Omega$                        |
| Frequency                        | DC to 50 GHz                       |
| Return Loss/VSWR                 | 12dB to 50 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                   | 89Watt @ 1GHz at Sea Level,VSWR1.0 |
| <b>Environmental Data</b>        |                                    |
| Temperature Range                | -40°C to +125°C                    |
| RoHS                             | Compliant                          |

## Cable Specifications

|                            |            |
|----------------------------|------------|
| Center Conductor           | SPCW       |
| Dielectric                 | Solid PTFE |
| Jaket                      | FEP        |
| Capacitance(pF/m)          | 95.5       |
| Velocity of propagation(%) | 71         |
| Min. bending radius(mm)    | 6.35       |
| Jacket Diameter(mm)        | 2.54       |
| Weight(kg/100m)            | 2.13       |

## Part Number List

| Part Number        | Length [mm]   | Insertion Loss $\leq$ (dB) |       |       |       |
|--------------------|---------------|----------------------------|-------|-------|-------|
|                    |               | 5GHz                       | 10GHz | 20GHz | 40GHz |
| GAF71-24FG3PF-1000 | 1000 $\pm$ 10 | 1.7                        | 2.5   | 3.8   | 6.9   |
| GAF71-24FG3PF-800  | 800 $\pm$ 8   | 1.4                        | 2.06  | 3.14  | 5.66  |
| GAF71-24FG3PF-600  | 600 $\pm$ 6   | 1.09                       | 1.64  | 2.48  | 4.32  |
| GAF71-24FG3PF-500  | 500 $\pm$ 5   | 0.95                       | 1.42  | 2.15  | 3.82  |
| GAF71-24FG3PF-300  | 300 $\pm$ 5   | 0.65                       | 0.96  | 1.49  | 2.56  |
| GAF71-24FG3PF-260  | 260 $\pm$ 5   | 0.59                       | 0.87  | 1.35  | 2.31  |
| GAF71-24FG3PF-200  | 200 $\pm$ 5   | 0.51                       | 0.74  | 1.16  | 1.94  |
| GAF71-24FG3PF-100  | 100 $\pm$ 5   | 0.35                       | 0.52  | 0.83  | 1.32  |

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.