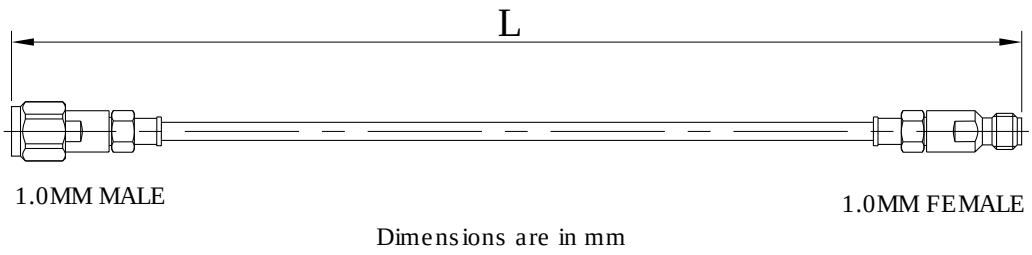
# Datasheet

## P/N: GAU20-10M10F-XXX

**1.0mm Male to 1.0mm Female Cable Assembly | U20 Series Low Loss Phase Stable Flexible Coax Cable | DC - 110GHz**




Dimensions are in mm

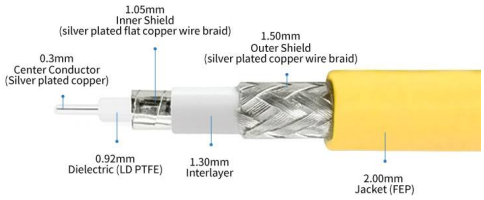


## Connectors Configuration

| | Connector 1 | Connector 2 |
|---|---|---|
| Connector Series | 1.0mm | 1.0mm |
| Connector Polarity | Standard | Standard |
| Connector Gender | Male | Female |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Body Style | Straight | Straight |
| Connector Body Material | Stainless Steel | Stainless Steel |
| Connector Body Plating | Passivated | Passivated |

## Cable Configuration

| | |
|---|---|
| Cable Type | U20 Series |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver plated copper |
| Dielectric Material | ePTFE |
| Number of Shields | 2 |
| Shield Layer 1 Material | Silver plated copper tape |
| Shield Layer 2 Material | Silver Plated Copper Braid |
| Jacket Material | FEP |
| Cable Diameter (mm) | 2 |
| Cable Color | Yellow |
| Minimum Bend Radius (mm) | 50 |
| Capacitance (pF/m) | 86 |
| Velocity of Propagation | 80% |
| Shielding Effectiveness | > 90dB @ 1GHz |
| Middle layer | ePTFE |





**Gwave Technology Inc**

(888)251-2240

87 Patricia Ct, Mountain View, CA 94041

sales@gwavetech.com

www.gwavetech.com

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**1.0mm Male to 1.0mm Female Cable Assembly | U20 Series Low Loss Phase Stable Flexible Coax Cable | DC - 110GHz**

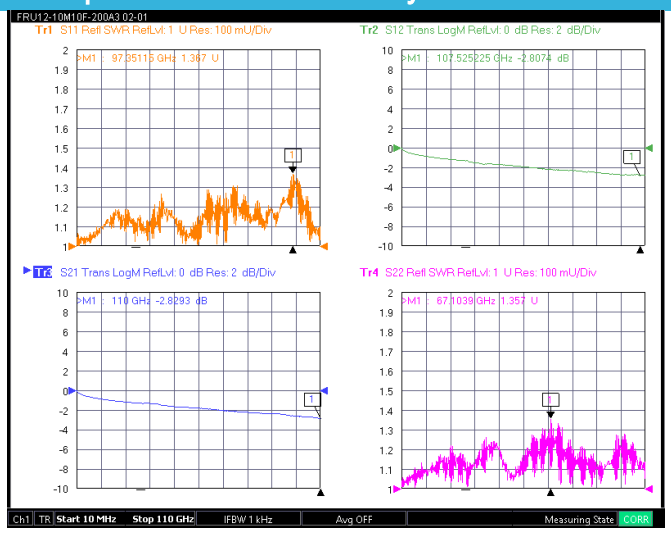
## Electrical Data

| Electrical Specifications for Different Length | | | | |
|---|---|---|---|---|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss ≤ (dB) |
| 150 | ±3 | DC - 110GHz | 1.44 to 110GHz | 2.32 to 110GHz |
| 200 | ±3 | | | 2.98 to 110GHz |
| 400 | ±5 | | | 5.61 to 110GHz |
| 500 | ±5 | | | 8.32 to 110GHz |
| 800 | ±10 | | | 10.86 to 110GHz |
| 1000 | ±10 | | | 13.49 to 110GHz |

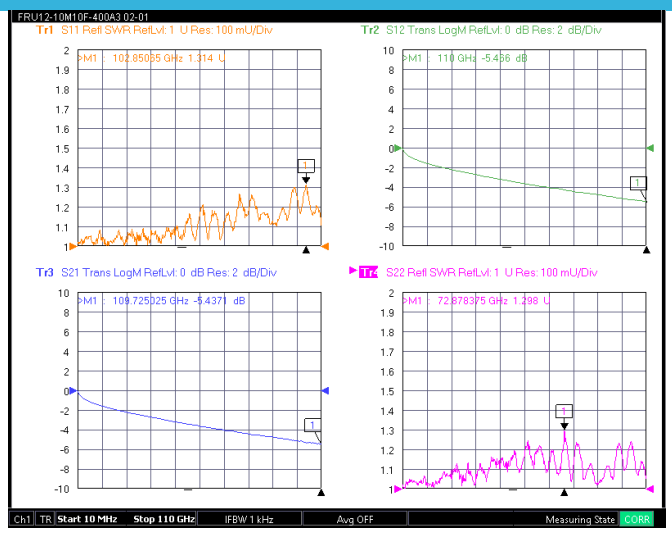
## Enviromental Specifications

| | |
|---|---|
| RoHS Compliant | Yes |
| Operating Temperature Range | -55 ºC to +125 ºC |

## Test Report for Cable assembly




*Note:Test Cable Assembly Length = 200 mm




*Note:Test Cable Assembly Length = 400 mm