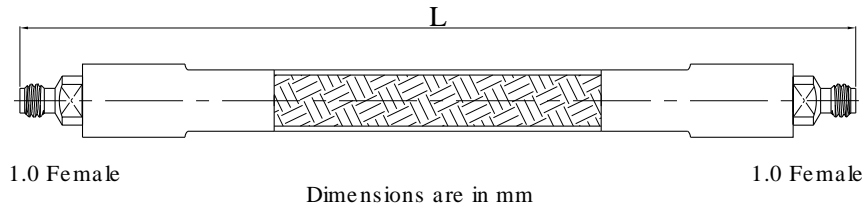


P/N: FRU20-10F10F-XXXA3

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

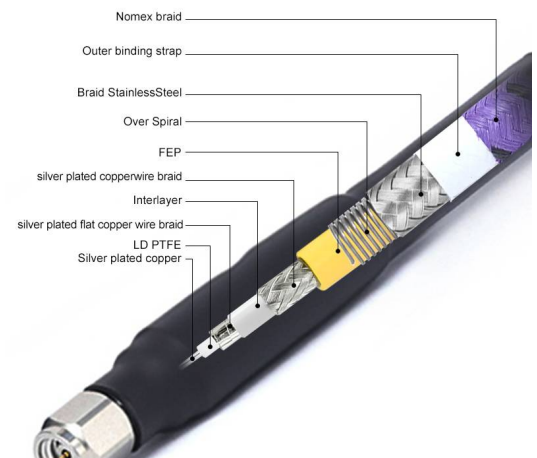


Connectors Configuration

| | Connector 1 | Connector 2 |
|---------------------------|-----------------|-----------------|
| Connector Series | 1.0mm | 1.0mm |
| Connector Polarity | Standard | Standard |
| Connector Gender | Female | 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 |
| Middle layer | ePTFE |
| Shield Layer 2 Material | Silver Plated Copper Braid |
| Jacket Material | FEP |
| Armor Type | Stainless Steel Wire Covered By Tin Plated Copper Wire And Nomex Braid |
| Armored Diameter (mm) | 5 |
| Cable Color | Violet |
| Minimum Bend Radius (mm) | 50 |
| Capacitance (pF/m) | 86 |
| Velocity of Propagation | 80% |
| Shielding Effectiveness | > 90dB @ 1GHz |



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1.0mm Female to 1.0mm Female Cable Assembly | U20 Series Low Loss Phase Stable Flexible Coax Cable | With Armor | 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 |

Environmental Specifications

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