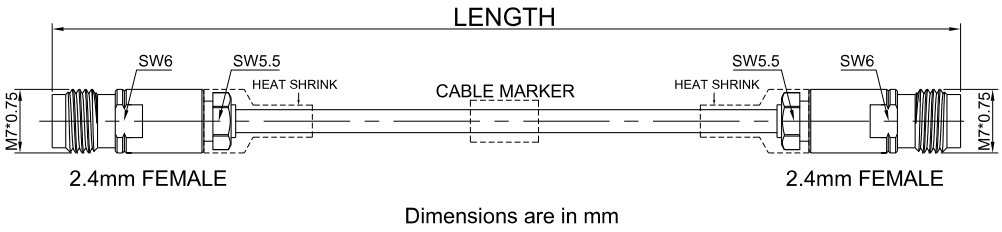
Flexi RF
Reliable RF Components In Stock

# Datasheet

## P/N: FRU2-24F24F-XXX

**2.4mm Female to 2.4mm Female Cable Assembly | 3506 Series Low Loss Phase Stable Flexible Coax Cable | Cable Dia.2.2mm | DC - 50GHz**




Dimensions are in mm

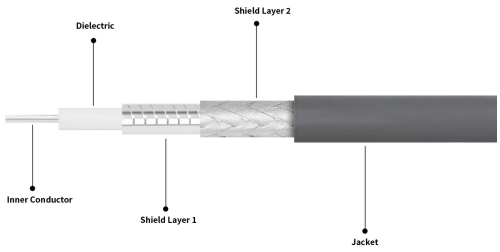


## Connectors Configuration

| | Connector 1 | Connector 2 |
|---|---|---|
| Connector Series | 2.4mm | 2.4mm |
| Connector Polarity | Standard | Standard |
| Connector Gender | Female | Female |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Mount Method | | None |
| Connector Body Style | Straight | Straight |
| Connector Body Material | Stainless Steel | Stainless Steel |
| Connector Body Plating | Passivated | Passivated |

## Cable Configuration

| | |
|---|---|
| Cable Type | GT3506 flexible cable |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver Plated Copper Wire |
| Dielectric Material | LD-PTFE |
| 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) | 2.2 |
| Cable Color | Gray |
| Minimum Bend Radius (mm) | 11 |
| Capacitance (pF/m) | 94 |
| Velocity of Propagation | 82% |
| Shielding Effectiveness | < -100dB @ 1GHz |





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## Electrical Data

| Electrical Specifications for Different Length | | | | |
|---|---|---|---|---|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss ≤ (dB) |
| 100 | ±3 | DC - 50GHz | 1.35 to 50GHz | 1.15 to 50GHz |
| 200 | ±3 | | | 1.45 to 50GHz |
| 300 | ±3 | | | 2.1 to 50GHz |
| 500 | ±5 | | | 3.32 to 50GHz |
| 800 | ±5 | | | 5.0 to 50GHz |
| 1000 | ±10 | | | 5.78 to 50GHz |
| 1500 | ±15 | | | 8.53 to 50GHz |
| 2000 | ±20 | | | 10.94 to 50GHz |

## Enviromental Specifications

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

## Revision History

| Version | Description | Prepared By | Approved By | Date |
|---|---|---|---|---|
| V1.0 | Initial release | Grimm | Hebe | 2024-01-01 |