



ExpressRF 65

RF CABLE ASSEMBLIES

ExpressRF™ is Swift Bridge Technologies' most economical RF cable product line, ideal for cost sensitive applications. These flexible and low-loss cable assemblies offer excellent overall performance to ensure accurate and repeatable measurements on the device under test (DUT). ExpressRF is available in phase matched pairs, delay matched to within 1ps, at operating frequencies of 40, 50 and 65GHz. Male and female 2.92mm, 2.4mm and 1.85mm precision RF connector configurations are available.

ExpressRF™ cable assemblies can be used in variety of applications and with instrumentation wherein accurate measurements demand low loss signal transmission. Applications may include:

- Clock Timing
- Compliance Testing
- Wireless Communication
- Probing
- Multiplexing
- Signal Routing

400-0919-02 1.85MM (M) TO 1.85MM (M) 1 PS MATCHED PAIR, 24IN

PERFORMANCE SPECIFICATIONS

| ELECTRICAL CHARACTERISTICS | DC – 65GHz |
|--|--------------------------|
| Coax Impedance, ohms | 50 ± 1.5 |
| Typical Velocity of Propagation, % | 82 |
| Shielding Effectiveness thru 20GHz, dB | >90 |
| Typical Flexure Phase Stability, 360° loop around 4.5" diameter mandrel, degrees of phase change, 36 in length | ± 9° thru Max. Frequency |
| Max. Structural VSWR thru Max. Frequency (w/ connector) | 1.33:1 |
| Max. Return Loss thru Max. Frequency (w/ connector), dB | -17 |
| Typical Insertion Loss at Max. Frequency, dB | -3.8 |
| Typical Insertion Loss Stability, 360° loop around 4.5" diameter mandrel, dB, 36 in length | ± 0.05 |
| Difference in Time Delay within Pair, ps | 1.0 |

| MECHANICAL CHARACTERISTICS | |
|---|------------|
| Inside Minimum Cable Bend Radius (static), in | 0.5 |
| Inside Minimum Cable Bend Radius (dynamic), in | 1 |
| Flexural Durability, Flex Cycles (2" Bend Radius) | >1000 |
| Temperature Range, °C | -45 to 125 |
| Assembly Length, in | 24 |

| CONSTRUCTION | |
|------------------|------------------|
| Center Conductor | SPC, Solid |
| Dielectric | Low Density PTFE |
| Inner Shield | SPC Flat Wire |
| Outer Shield | SPC Braid |
| Jacket | FEP |

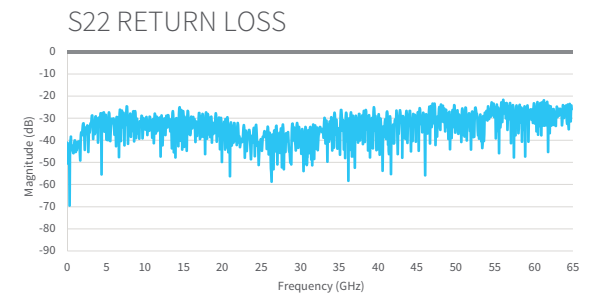
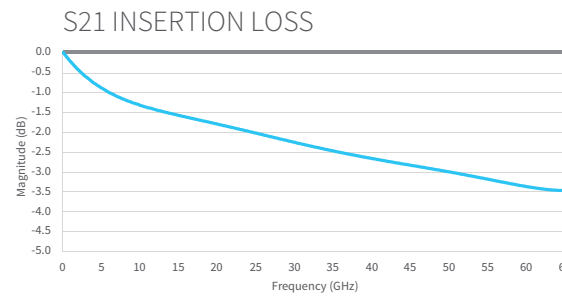
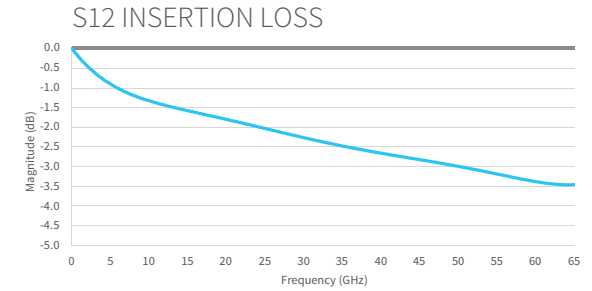
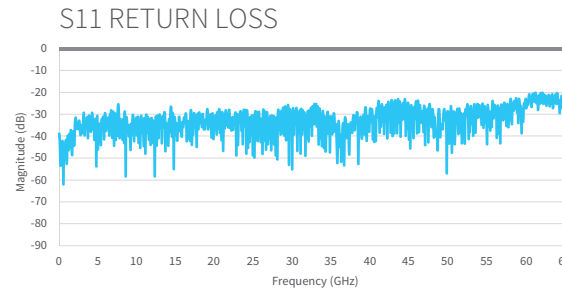
| REGULATORY | All materials comply with the EU RoHS directive EU/2015/863 and published exemptions. |
|------------|---|
|------------|---|



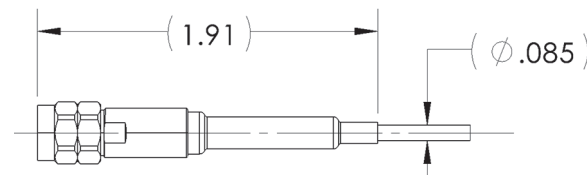
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PERFORMANCE SPECIFICATIONS

TYPICAL S-PARAMETER PERFORMANCE



CONNECTOR AND HST DIMENSIONS



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