



ExpressRF 70

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). Male and female 1.85mm precision RF connector configurations are available. All assemblies are 100% tested to assure S-parameters meet or exceed their specified performance.

PART NO.	LENGTH, IN	INSERTION LOSS
400-1188-00	6.00	-1.2 dB @ 70 GHz
400-1188-01	12.00	-2.3 dB @ 70 GHz
400-1188-02	24.00	-4.7 dB @ 70 GHz
400-1188-03	36.00	-6.1 dB @ 70 GHz

400-1188-XX

1.85 MM (M) TO 1.85 MM (M) CABLE ASSEMBLY

PERFORMANCE SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	DC – 70GHz
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	±13° thru Max. Frequency
Max. Structural VSWR thru Max. Frequency (w/ connector)	1.33:1
Max. Return Loss thru 67 GHz (w/ connector), dB	-17
Max. Return Loss 67 GHz thru 70 GHz (w/ connector), dB	-16
Typical Insertion Loss at Max. Frequency, dB	See table
Typical Insertion Loss Stability, 360° loop around 4.5" diameter mandrel, dB , 36 in length	± 0.05

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	See table

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

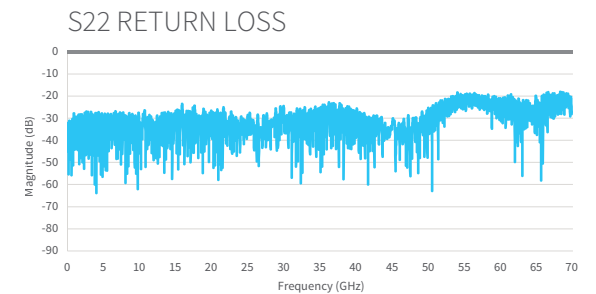
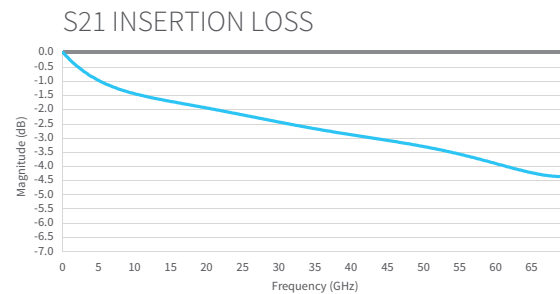
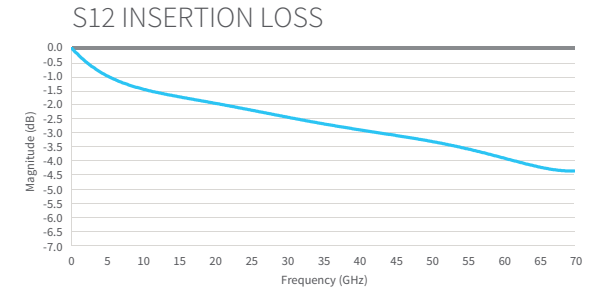
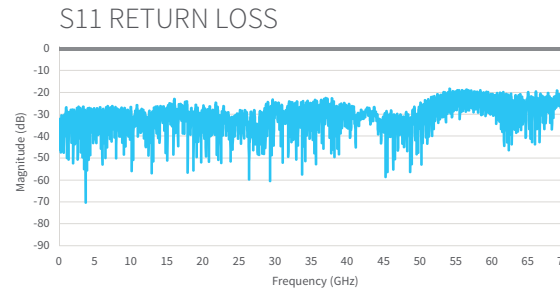
REGULATORY	All materials comply with the EU RoHS directive EU/2015/863 and published exemptions.
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400-1188-XX 1.85 MM (M) TO 1.85 MM (M) CABLE ASSEMBLY

PERFORMANCE SPECIFICATIONS

TYPICAL S-PARAMETER PERFORMANCE, 400-1188-02 (24 IN LENGTH)



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RF CABLE ASSEMBLIES

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

CONNECTOR AND HST DIMENSIONS

