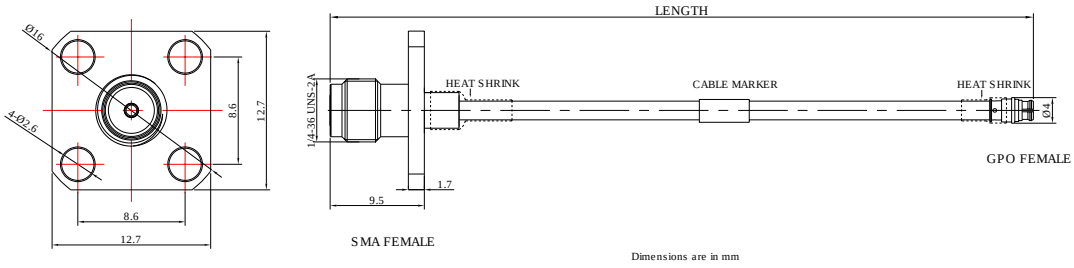
Flexi RF
Reliable RF Components In Stock

Datasheet

P/N: FRU2-SMFFGPF-XXX

SMA 4 Hole Flange Female to GPO(SMP) Female Cable Assembly | 3506 Series Low Loss Phase Stable Flexible Coax Cable | DC - 18GHz



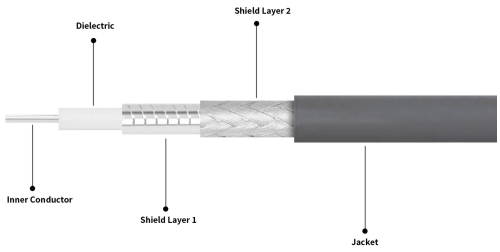


Connectors Configuration

	Connector 1	Connector 2
Connector Series	SMA	GPO(SMP)
Connector Polarity	Standard	Standard
Connector Gender	Female	Female
Connector Impedance (Ohm)	50	50
Connector Mount Method	4 Hole Flange	
Connector Body Style	Straight	Straight
Connector Body Material	Brass	Beryllium Copper
Connector Body Plating	Gold	Gold

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



Flexi RF Inc

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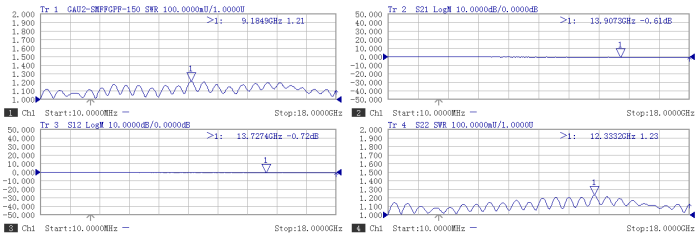
Electrical Data

Electrical Specifications for Different Length				
Length (mm)	Length Tolerance (mm)	Frequency	VSWR / Return Loss	Insertion Loss ≤ (dB)
100	±3	DC - 18GHz	16dB to 18GHz	0.75 to 18GHz
200	±3			1.06 to 18GHz
300	±3			1.36 to 18GHz
500	±5			1.94 to 18GHz
800	±5			2.83 to 18GHz
1000	±10			3.35 to 18GHz
1500	±15			4.76 to 18GHz
2000	±20			6.20 to 18GHz

Enviromental Specifications

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

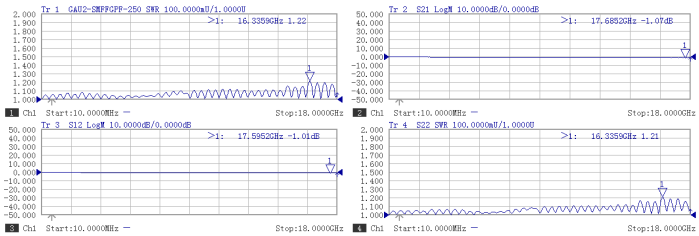
Test Report for Cable assembly



Ch	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
	LIN_SWEEP	0.010000000GHz	18.000000000GHz	401	1000	0.388009	-5.0,-5.0

	Marker	Delta	Stimulus	Response
Win1				
Trace1—S11	1		9.1849GHz	1.215
Win2				
Trace2—S21	1		13.907GHz	-0.612dB
Win3				
Trace3—S12	1		13.727GHz	-0.720dB
Win4				
Trace4—S22	1		12.333GHz	1.231

*Note:Test Cable Assembly Length = 150 mm



Ch	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
	LIN_SWEEP	0.010000000GHz	18.000000000GHz	401	1000	0.388009	-5.0,-5.0

	Marker	Delta	Stimulus	Response
Win1				
Trace1—S11	1		16.359GHz	1.218
Win2				
Trace2—S21	1		17.685GHz	-1.066dB
Win3				
Trace3—S12	1		17.595GHz	-1.011dB
Win4				
Trace4—S22	1		16.359GHz	1.210

*Note:Test Cable Assembly Length = 250 mm

Revision History

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