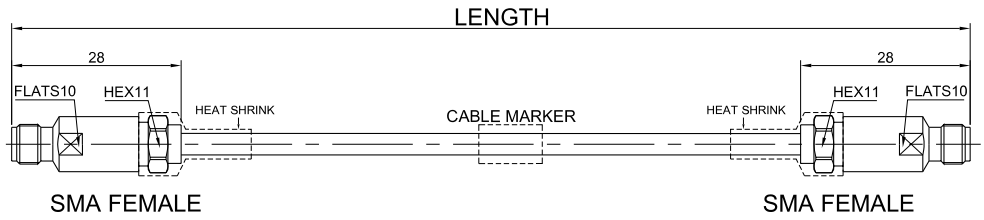
Flexi RF
Reliable RF Components In Stock

Datasheet

P/N: FRA2-SMFSMF-XXX

SMA Female to SMA Female Cable Assembly | 311A Series Low-Loss Phase-Stable Microwave Coaxial Cable | OD 7.9mm | DC - 18GHz



Dimensions are in mm

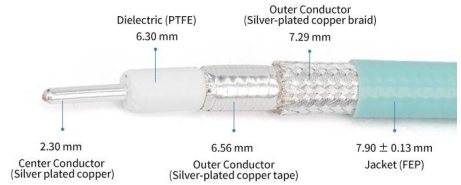


Connectors Configuration

	Connector 1	Connector 2
Connector Series	SMA	SMA
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	311A Low Loss Flexible Cable
Cable Impedance (Ohm)	50
Inner Conductor Material	Silver Plated Copper (SPC)
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)	7.9
Cable Color	Turquoise
Minimum Bend Radius (mm)	31.75
Capacitance (pF/m)	80
Velocity of Propagation	82%
Shielding Effectiveness	<-100dB



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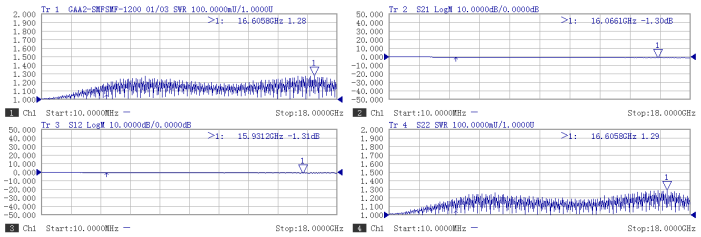
Electrical Data

Electrical Specifications for Different Length				
Length (mm)	Length Tolerance (mm)	Frequency	VSWR / Return Loss	Insertion Loss ≤ (dB)
500	±5	DC-18GHz	<1.35	0.80
600	±5			0.89
800	±5			1.07
1000	±10			1.25
1500	±15			1.65
2000	±20			2.05
3000	±30			2.75
5000	±50			4.15

Enviromental Specifications

RoHS Compliant	Yes
Operating Temperature Range	-40°C to +125°C

Test Report for Cable assembly



	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
Ch1	LIN_SWEEP	0.010000000GHz	18.000000000GHz	401	1000	0.388009	-5.0,-5.0

	Marker	Delta	Stimulus	Response
Win1				
Trace1--S11	1		16.6057GHz	1.281
Win2				
Trace2--S21	1		16.0660GHz	-1.296dB
Win3				
Trace3--S12	1		15.9311GHz	-1.308dB
Win4				
Trace4--S22	1		16.6057GHz	1.291

**Note:Test Cable Assembly Length = 1200 mm*

Revision History

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