Gwave
Fast Delivery RF Parts.

Datasheet

P/N: GAR3-SMMSSMBF-XXX

SMA Male to SSMB Female Cable Assembly | RG316 Flexible Coax Cable | DC - 3GHz

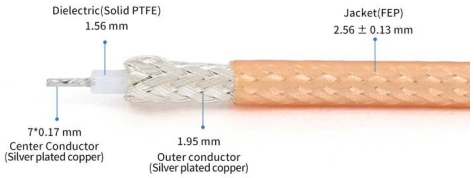


Connectors Configuration

	Connector 1	Connector 2
Connector Series	SMA	SSMB
Connector Polarity	Standard	Standard
Connector Gender	Male	Female
Connector Impedance (Ohm)	50	50
Connector Body Style	Straight	Straight
Connector Body Material	Brass	Brass
Connector Body Plating	Gold	Gold

Cable Configuration

Cable Type	RG316 Series
Cable Impedance (Ohm)	50
Inner Conductor Material	Silver-plated copper-clad steel strand
Dielectric Material	PTFE
Number of Shields	1
Shield Layer 1 Material	Silver-plated copper braiding
Jacket Material	FEP
Cable Diameter (mm)	2.56
Cable Color	Brown
Minimum Bend Radius (mm)	15
Capacitance (pF/m)	94
Velocity of Propagation	70%
Shielding Effectiveness	> 80dB @ 1GHz



Gwave Technology Inc

(888)251-2240
87 Patricia Ct, Mountain View, CA 94041
sales@gwavetech.com
www.gwavetech.com

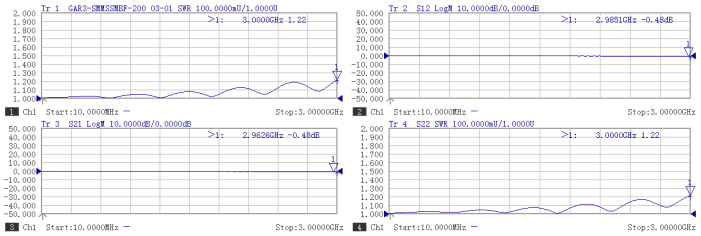
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Electrical Data

Electrical Specifications for Different Length				
Length (mm)	Length Tolerance (mm)	Frequency	VSWR / Return Loss	Insertion Loss ≤ (dB)
500	±5	DC - 3GHz	1.45	1.04
800	±10			1.53
1000	±10			1.75
1500	±15			2.55
2000	±20			3.25
3000	±30			4.80
5000	±50			7.85

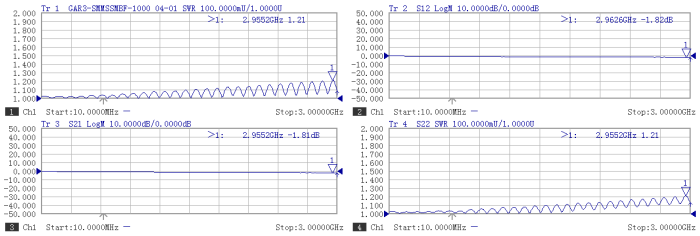
Test Report for Cable assembly



	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
Ch1	LIN_SWEEP	0.010000000GHz	3.000000000GHz	401	1000	0.373009	-5.0,-5.0

	Marker	Delta	Stimulus	Response
Win1				
Trace1—S11	1		3.00000GHz	1.220
Win2				
Trace2—S12	1		2.98505GHz	-0.484dB
Win3				
Trace3—S21	1		2.96262GHz	-0.479dB
Win4				
Trace4—S22	1		3.00000GHz	1.217

*Note:Test Cable Assembly Length = 200 mm



	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
Ch1	LIN_SWEEP	0.010000000GHz	3.000000000GHz	401	1000	0.373009	-5.0,-5.0

	Marker	Delta	Stimulus	Response
Win1				
Trace1—S11	1		2.95515GHz	1.213
Win2				
Trace2—S12	1		2.96262GHz	-1.821dB
Win3				
Trace3—S21	1		2.95515GHz	-1.814dB
Win4				
Trace4—S22	1		2.95515GHz	1.213

*Note:Test Cable Assembly Length = 1000 mm