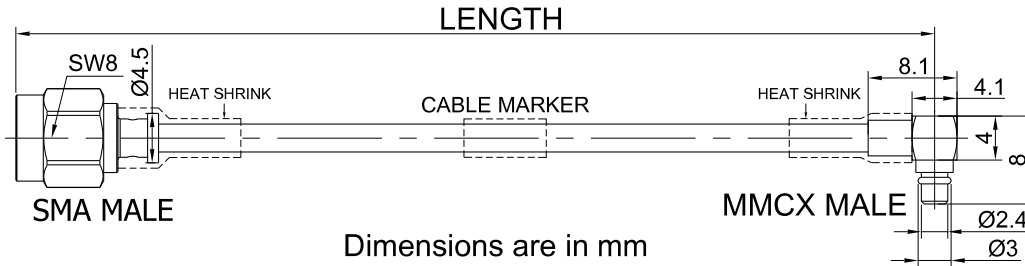


P/N: FR712-SMMMMCXWM-XXX

SMA Male to MMCX Right Angle Male Cable Assembly | .086" Semi-Flexible Coax Cable with FEP Jacket | DC - 6GHz

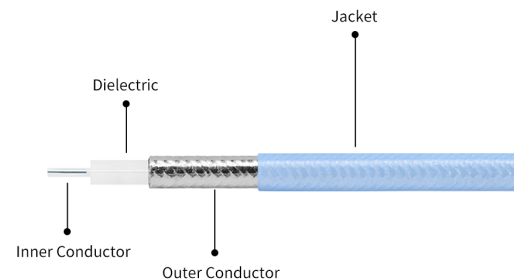


Connectors Configuration

	Connector 1	Connector 2
Connector Series	SMA	MMCX
Connector Polarity	Standard	Standard
Connector Gender	Male	Male
Connector Impedance (Ohm)	50.0	50.0
Connector Body Style	Straight	Right Angle
Connector Body Material	Stainless Steel	Brass
Connector Body Plating	Passivated	Gold

Cable Configuration

Cable Type	.086" Semi-Flexible cable
Cable Impedance (Ohm)	50
Inner Conductor Material	Silver Plated Copper Covered Steel (SCCS)
Dielectric Material	Solid extruded PTFE
Shield Layer 1 Material	Tin Plated Copper
Jacket Material	FEP
Cable Diameter (mm)	2.54
Cable Color	Blue
Minimum Bend Radius (mm)	6
Capacitance (pF/m)	94
Velocity of Propagation	71%
Shielding Effectiveness	< -110dB @ 1GHz



Electrical Data

Electrical Specifications for Different Length				
Length (mm)	Length Tolerance (mm)	Frequency	VSWR / Return Loss	Insertion Loss \leq (dB)
100	± 3	DC - 3GHz	≤ 1.3	0.27
150	± 3			0.34
200	± 3			0.41
250	± 3			0.47
300	± 5			0.53
400	± 5			0.66
500	± 5			0.79

Environmental Specifications

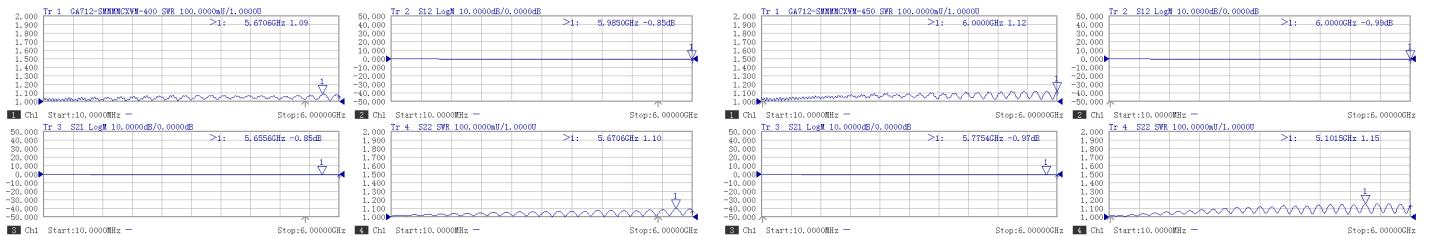
RoHS Compliant

Yes

Operating Temperature Range

-40°C to +125°C

Test Report for Cable assembly



Ch1	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
Ch1	LIN_SWEEP	0.01000000GHz	6.00000000GHz	401	1000	0.376000	-5.0, -5.0

Marker	Delta	Stimulus	Response
Win1			
Trace1--S11	1	5.67055GHz	1.088
Win2			
Trace2--S12	1	5.98500GHz	-0.853dB
Win3			
Trace3--S21	1	5.65570GHz	-0.848dB
Win4			
Trace4--S22	1	5.67055GHz	1.097

Ch1	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
Ch1	LIN_SWEEP	0.01000000GHz	6.00000000GHz	401	1000	0.376000	-5.0, -5.0

Marker	Delta	Stimulus	Response
Win1			
Trace1--S11	1	6.00000GHz	1.123
Win2			
Trace2--S12	1	6.00000GHz	-0.991dB
Win3			
Trace3--S21	1	5.77537GHz	-0.969dB
Win4			
Trace4--S22	1	5.10150GHz	1.153

*Note: Test Cable Assembly Length = 400 mm

*Note: Test Cable Assembly Length = 450 mm

Revision History

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