

Junkosha Microwave/mmWave Coaxial Cable Assembly

8 Series

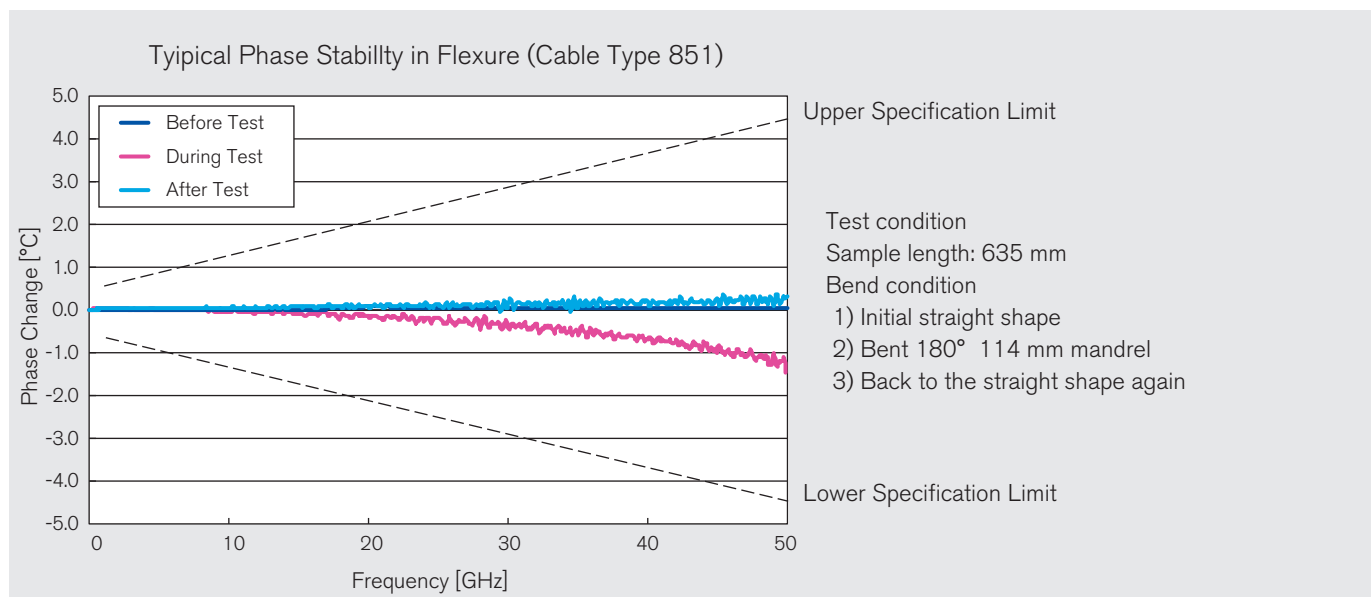
VNA Test Assemblies



Junkosha Launches Metrology Grade mmWave VNA Test Cable Assembly

Junkosha's new mmWave VNA Test Cable Assembly exhibits excellent phase (within $\pm 4.5^\circ$ at 50 GHz), and amplitude (within ± 0.08 dB at 50 GHz) stability in flexure alongside strong phase stability in temperature through its 50 GHz bandwidth, available with NMD connector.

The assembly also displays impressive performance durability, surpassing 40,000 tick tock cycles during testing. The cable is bent 180° on a 2.25" radius mandrel with ease, demonstrating superior flexibility and no spring back. A ruggedized port side NMD connector is also available to ensure reliable connections to the VNA.

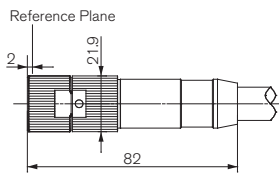


Cable Property

Cable Type	821		851	
	Frequency [GHz]	26.5	26.5	50.0
Assembly Length [inch (mm)]	25 (635)	38 (965)	25 (635)	38 (965)
Maximum Operating Frequency [GHz]	26.5	26.5	50	50
Characteristic Impedance Nom. [Ω]	50	50	50	50
Maximum Phase Stability [degree] (@Max Freq.)	3.9	7.1	4.5	9.0
Maximum Amplitude Stability [dB] (@Max Freq.)	0.08	0.15	0.08	0.15
Nominal Velocity of Propagation [%]	79	79	79	79
Typical Insertion loss [dB] (@Max Freq.)	1.75	2.45	3.6	5.1
Maximum Insertion loss [dB] (@Max Freq.)	2.1	2.8	4.5	6.2
Typical VSWR	1.29:1		1.43:1	
Shielding Effectiveness to 18GHz [dB]	> 90		> 90	
Cable Outer Diameter [inch (mm)]	0.56 (14.2)		0.56 (14.2)	
Minimum Bending Radius [inch (mm)]	2.25 (57)		2.25 (57)	
Typical Cable Mass [oz/ft (g/m)]	2.58 (240)		2.15 (200)	
Operating Temperature Range [$^{\circ}\text{C}$]	23+/-5		23+/-5	

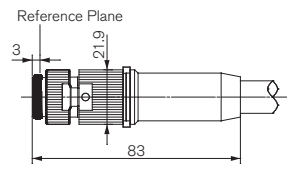
Connector

821
NMD 3.5mm (f) (Code:DFD)



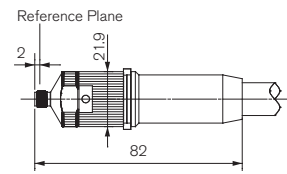
Maximum Operating Frequency: 26.5 GHz
Mass: 51 g

821
NMD 3.5mm (m) (Code:DMD)



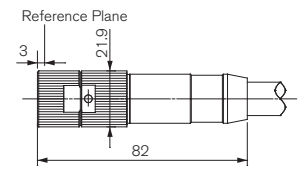
Maximum Operating Frequency: 26.5 GHz
Mass: 50 g

821
3.5mm (f) Straight (Code:DFS)



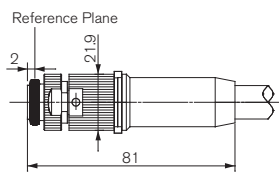
Maximum Operating Frequency: 26.5 GHz
Mass: 37 g

851
NMD 2.4mm (f) (Code:LFD)



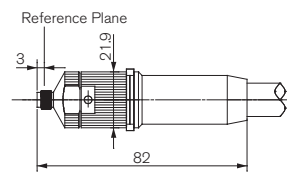
Maximum Operating Frequency: 50.0 GHz
Mass: 51 g

851
NMD 2.4mm (m) (Code:LMD)



Maximum Operating Frequency: 50.0 GHz
Mass: 43 g

851
2.4mm (f) Straight (Code:LFS)



Maximum Operating Frequency: 50.0 GHz
Mass: 37 g

Order Form Example

Please provide the following information when placing an order.

a : Cable b : Assembly Length
c : Connector I d : Connector II
e : Armor

Example

Cable: 821
Assembly Length: 635mm
Connector I: NMD 3.5mm (f)
Connector II: NMD 3.5mm (m)

Catalogue Number

MWX821-00635 DFDDMD/B

a b c d e

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