

# Junkosha Microwave/mmWave Coaxial Cable Assembly

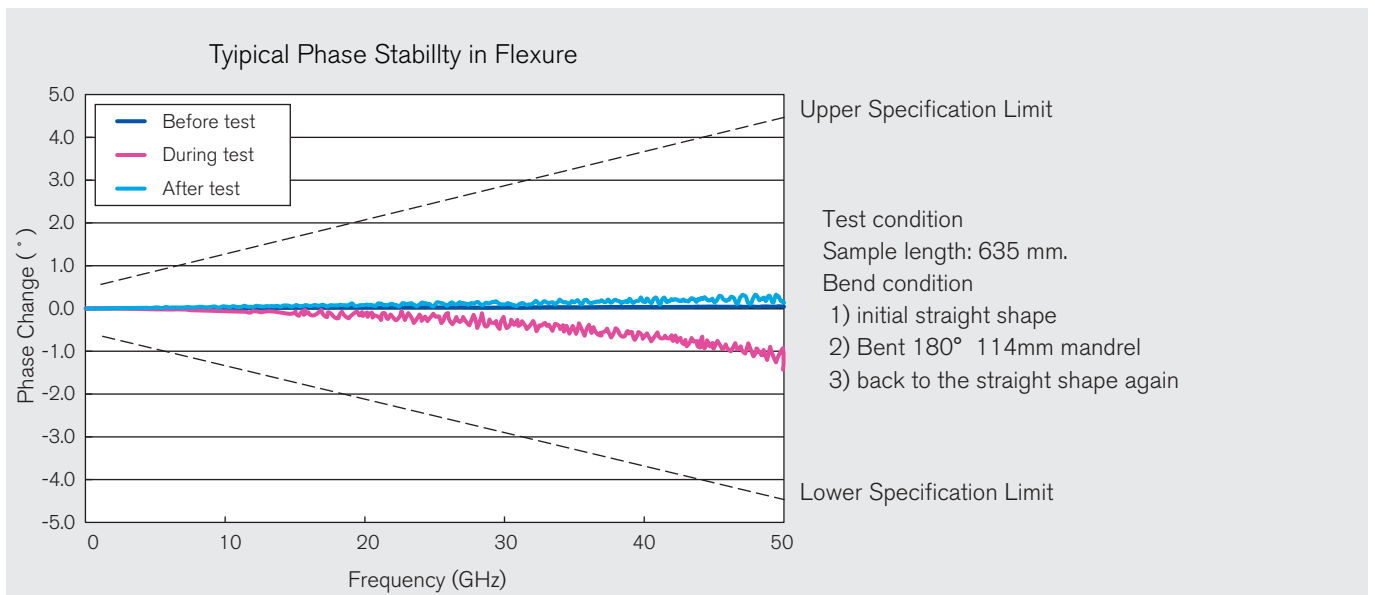
## VNA Test Assemblies



### 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 50GHz), and amplitude (within  $\pm 0.08\text{dB}$  at 50GHz) stability in flexure alongside strong phase stability in temperature through its 50GHz bandwidth, available with NMD 2.4mm connector.

The assembly also displays impressive performance durability, surpassing 50,000 tick tock cycles during testing. The cable is bent  $180^\circ$  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.



Accuracy is crucial in any test setting, but particularly so for metrology grade cabling that offers ultimate precision and therefore demands the highest reliability for testing and calibration purposes. In response, global cabling and interconnect pioneers, Junkosha, have recently launched a new microwave/mmWave VNA test cable assembly - designed as a high-quality metrology grade VNA test cable for those requiring optimum precision. This latest innovation builds on the foundations of their MWX0 Series and shares the same core principles.



## Specification

Cable Type		25"	38"
Electrical Properties	Maximum Operating Frequency (GHz)		50
	Characteristic Impedance Nom. ( $\Omega$ )		50
	Maximum Phase Stability (degree @50GHz)	4.5	9.0
	Maximum Amplitude Stability (dB @50GHz)	0.08	0.15
	Nominal Velocity of Propagation (%)		79
	Typical Insertion loss (dB @50GHz)	3.6	5.1
	Maximum Insertion loss (dB @50GHz)	4.5	6.2
	Typical VSWR		1.43:1
	Shielding Effectiveness to 18GHz (dB)		>90
Mechanical Properties	Cable Outer Diameter [ in (mm) ]		0.56(14.2)
	Minimum Bending Radius [ in (mm) ]		2.25(57)
	Typical Cable Mass [ oz/ft (g/m) ]		4.63(430)
	Operating Temperature Range ( $^{\circ}$ C)		23+/-5 $^{\circ}$

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