Junkosha Ultra High frequency test cables

Phase Performance that Endures

2020

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Up to 145 GHz measurement
MWX001, 002 and 004 Millimeter wave cable

Core features

- Low insertion loss & Excellent phase stability
- Excellent flexibility & form-sustainability.
- Good phase performance + Hand formable = Junkosha

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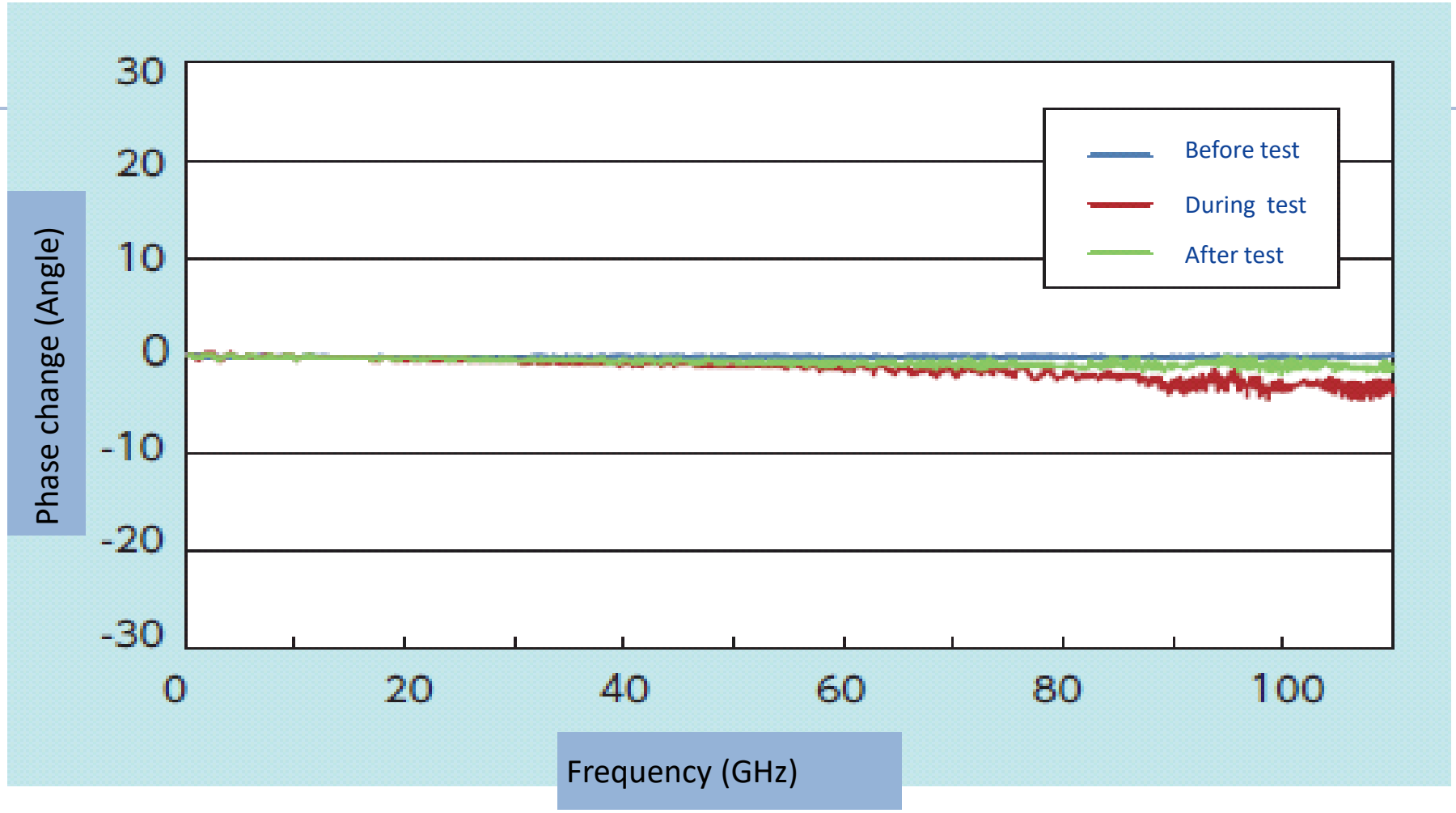
MWX002/Phase stability for bending



Mandrel dia. 30mm, 90° wound

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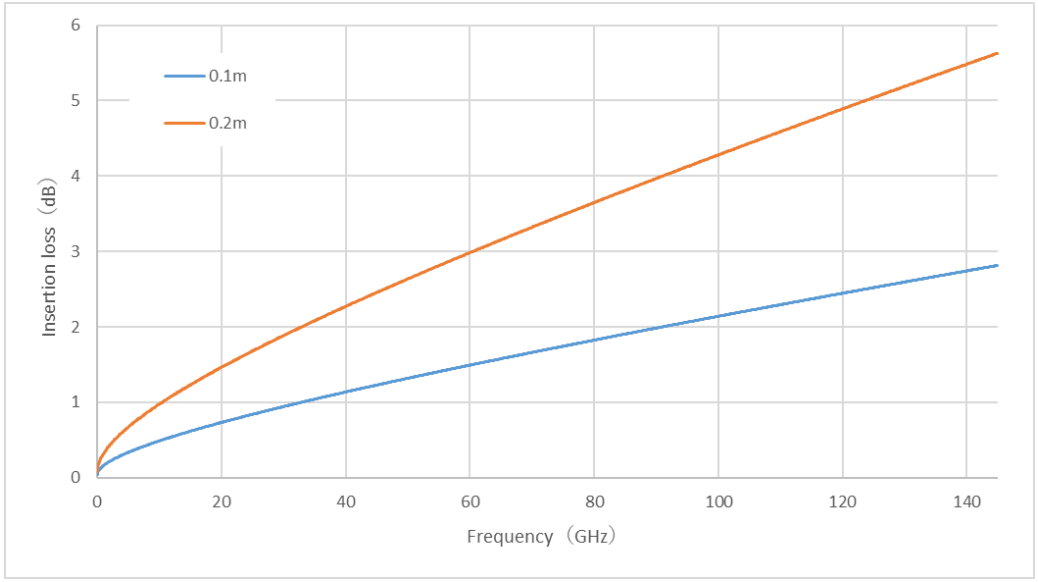
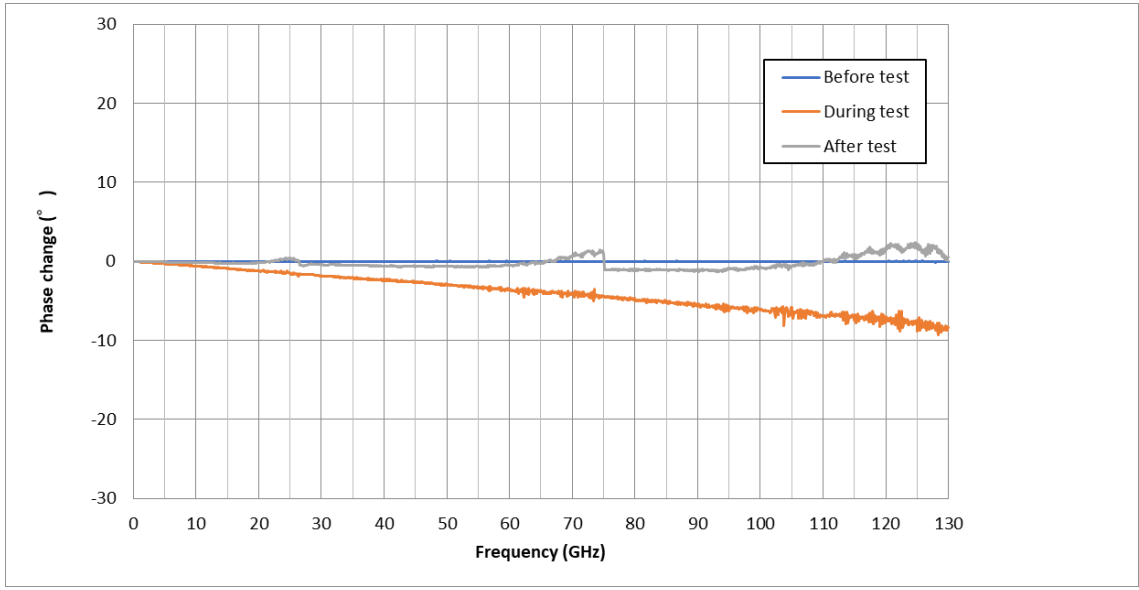
MWX004 145GHz Phase Stable Cable

- MWX004 with 0.8mm connector (safety lock) is the only one phase stable flexible cable can work for 130GHz to 145GHz frequency.
- It helps 66-71GHz band SoC development and evaluation of 2x harmonic wave spurious as the highest frequency band for 5G application is 71GHz.





Mandrel dia. 30mm, 90° wound

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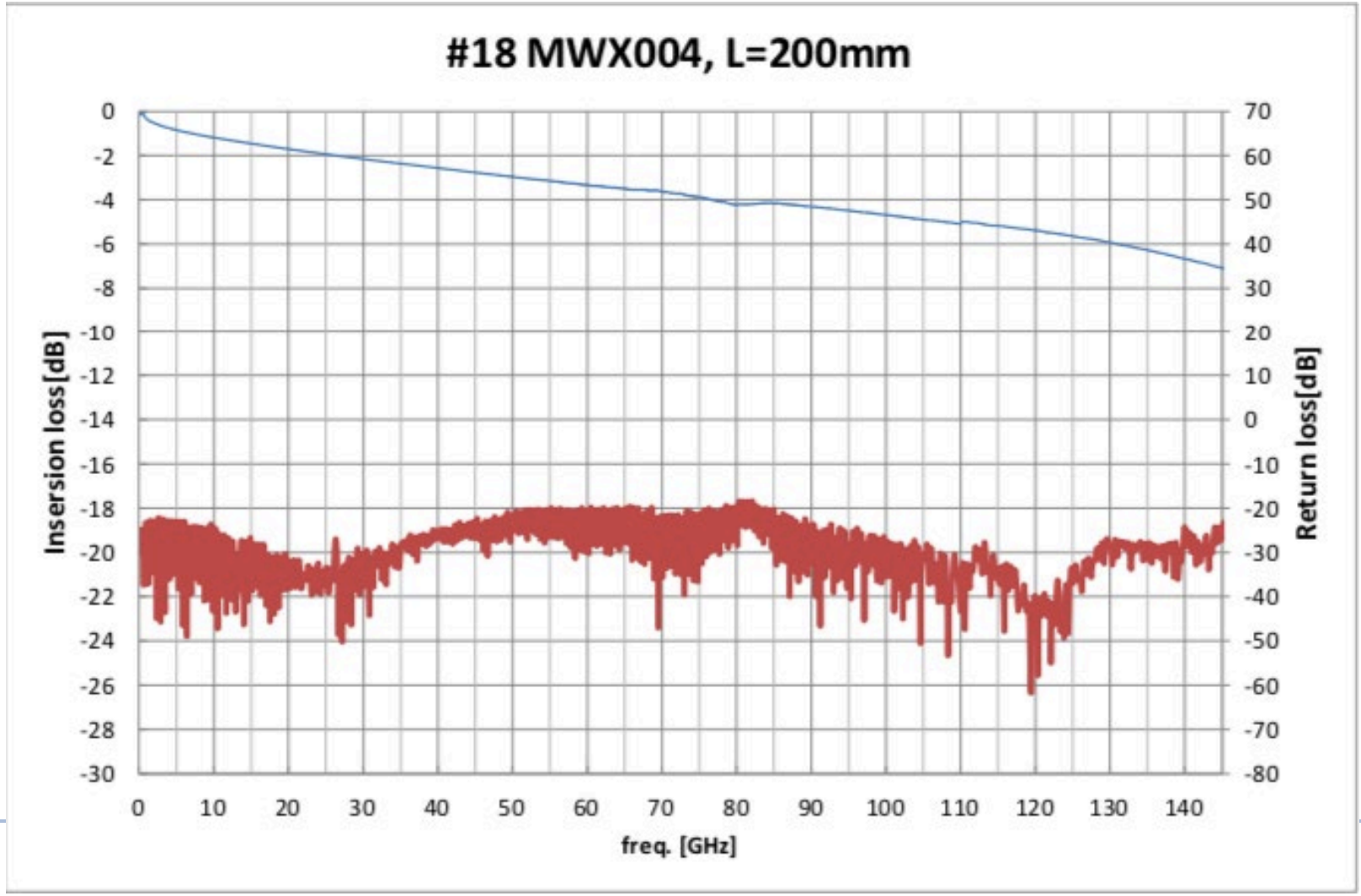
Loss performance of MWX004



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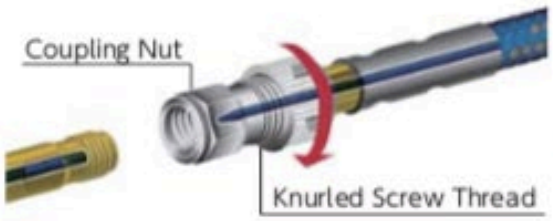
1mm “Safety lock” connector

- Patented safety lock connector for avoiding breakage of 1mm and 0.8mm pin.

How to connect the safety lock

Patent pending



Rotate the knurled parts and check the knurled screw thread. Central pin is located back side, seeing from the coupling nut side.

Same as the normal 1.0mm(m) connectors, fit the coupling nut with female connector. They will be fixed under the condition that both connector’ s central axis is matched. Central pin has not connected yet.

Rotate the knurled parts, then let the cable side central pin forward, and insert to female connector's socket. With the help of fixed coupling nut, central axis is matched. This helps not to happen pin's slanting.

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Connectors for MWX001/002/004

Cable	Code#	Type	Frequency	Remarks
MWX001	WMT	1mm(m)	110GHz	Safety lock
	WFS	1mm(f)	110GHz	
	TBD	1.35mm(m)	90GHz	Under development
MWX002	WMS	1mm(m)	120GHz	
	WFS	1mm(f)	120GHz	
	WMT	1mm (m)	120GHz	Safety lock
MWX004	WMT	1mm(m)	130GHz	Safety lock
	WFD	1mm NMD (f)	130GHz	
	MMT	0.8mm (m)	145GHz	Safety lock

（Mating test: 300times passed）

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