



Phase Stability & Slim Cable

Up to 67 GHz

Junkosha MWX161

- Cable assemblies with small diameter at neck part and the most suitable for multi-port VNA.
- Torque Driver is available to mount on narrow pitch connector arrangement board.
- Cable assemblies with excellent phase stability against bending and temperature.
- Cable assemblies with excellent mechanical characteristics using SUS flexible tubing for protection.
- Wide range of connectors: 3.5 mm, 2.92 mm, 2.4 mm and 1.85 mm

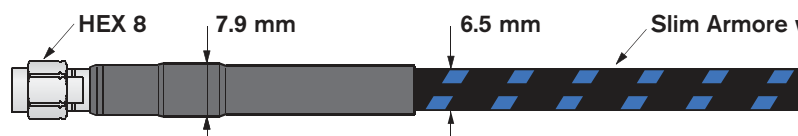
Property

Maximum operating frequency	67.0 GHz
Characteristic impedance	$50 \pm 1 \Omega$
Capacitance (typ.)	90 pF/m
Propagation delay (typ.)	4.35 ns/m
Velocity of propagation (typ.)	77 %
Higher mode frequency (typ.)	70 GHz
VSWR (typ.)	1.30
Maximum frequency insertion loss (67.0 GHz)	7.3 dB/m

Maximum outer diameter	7.9 mm (0.311 ")
Cable outer diameter	6.5 mm (0.256 ")
Minimum bending radius (inner side)	30 mm
Cable mass (typ.)	79 g/m
Continuous operating temperature range	-65 ~ +125 °C
Armored side pressure	196 N/cm
Assembly length	600~1,500 mm (24~60 ")



Image courtesy of Keysight Technologies Inc.

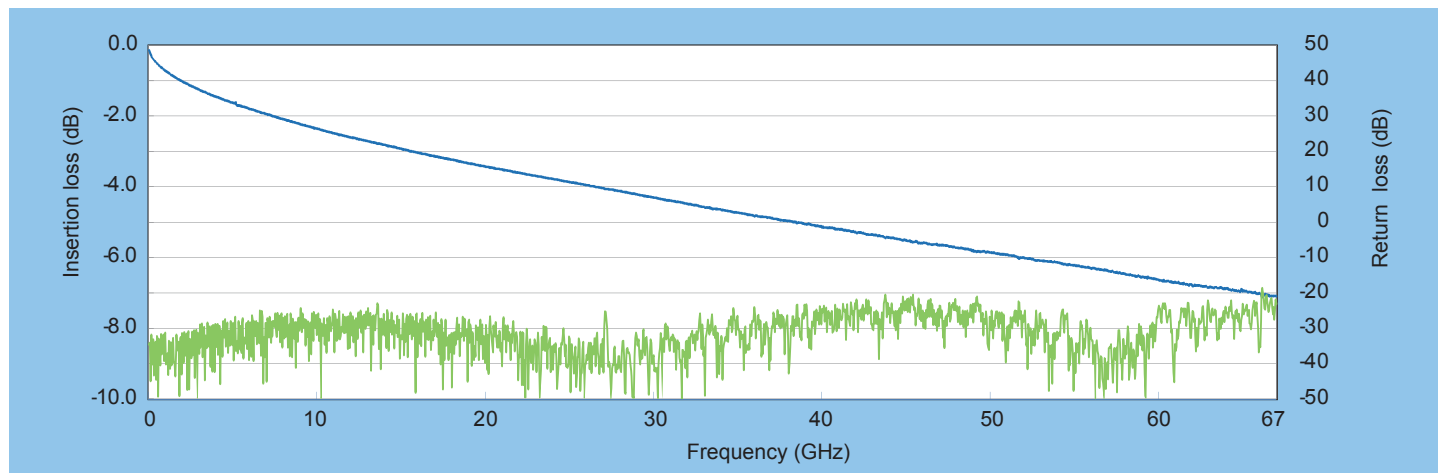


Maximum Frequency: 67 GHz

Temperature Range: -65 ~ +125 degree C

Insertion loss and Return loss

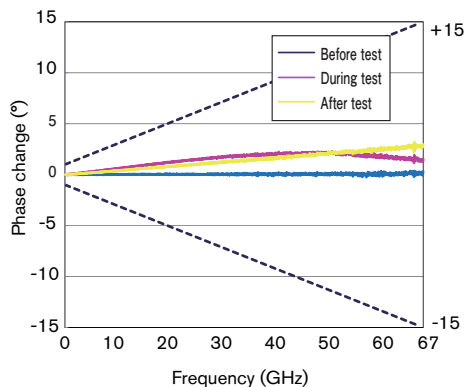
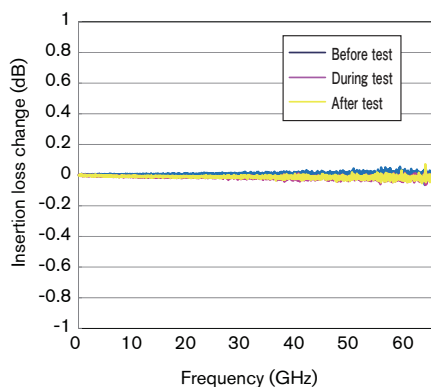
[Assembly length 1000mm, Connector: Both side 1.85 mm (m)]



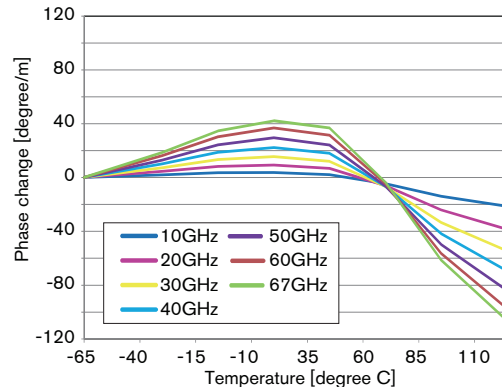
Technical Data

Static bending data (insertion loss, phase)

Bending radius: 30 mm



Phase change vs. temperature

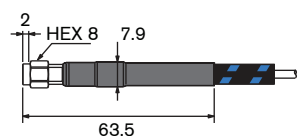


* The above figures are measured values for reference only.
* The cable was wrapped 360 degree around ϕ 60 mm mandrel.

The cable was measured in chamber every 20 ~ 30 degree C from -65 to 125 degree C, 30 minutes after the temperature changed. Figure shows the excellent phase stability over the temperature changes.

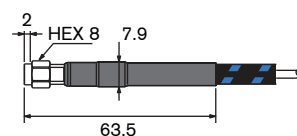
Connector Type

● 3.5 mm (m) [Code : DMS]



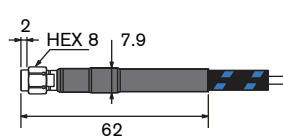
Maximum frequency: 26.5 GHz

● 2.92 mm (m) [Code : KMS]



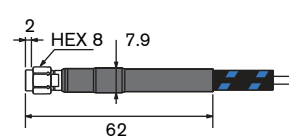
Maximum frequency: 40.0 GHz

● 2.4 mm (m) [Code : LMS]



Maximum frequency: 50.0 GHz

● 1.85 mm (m) [Code : VMS]



Maximum frequency: 67.0 GHz

Order form example

Please provide the following information when placing an order.

a : Cable b : Assembly length
c : Connector I d : Connector II
e : Armored

Example 1

Assembly length : 1000mm
Connector I : 3.5mm (m)
Connector II : 3.5mm (m)

Catalog No.

MWX161-01000 DMS DMS /B

a b c d e

Example 2

Assembly length : 610mm
Connector I : 2.4mm (m)
Connector II : 1.85mm (m)

Catalog No.

MWX161-00610 LMS VMS /B

a b c d e

*To allow continuing product improvements, specifications are subject to change without notice.
*The data are measured, not guaranteed values. *MWX is a registered trademark of Junkosha Inc.

Junkosha USA Inc.
<https://www.junkosha-mwx.com/>

● West Coast Office

18201 Von Karman Avenue
Suite 1080, Irvine, CA 92612
TEL: 949-825-6177
E-mail: info_cus5@junkosha.com



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