Junkosha

Creating Unsurpassed Value

Slim Phase Stable Cable

Up to 67 GHz

Junkosha MWX161

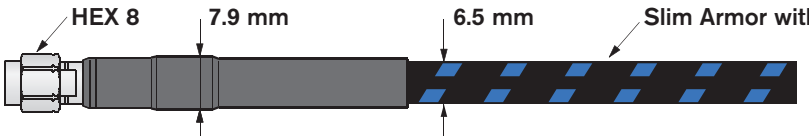
- Cable assemblies with a small diameter at the neck, making it the most suitable for a Multiport VNA.
- Torque Driver is available to mount on narrow pitch connector arrangement board.
- Cable assemblies with excellent phase stability against bending and temperature.
- Cable assemblies with excellent 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±1 Ω
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.

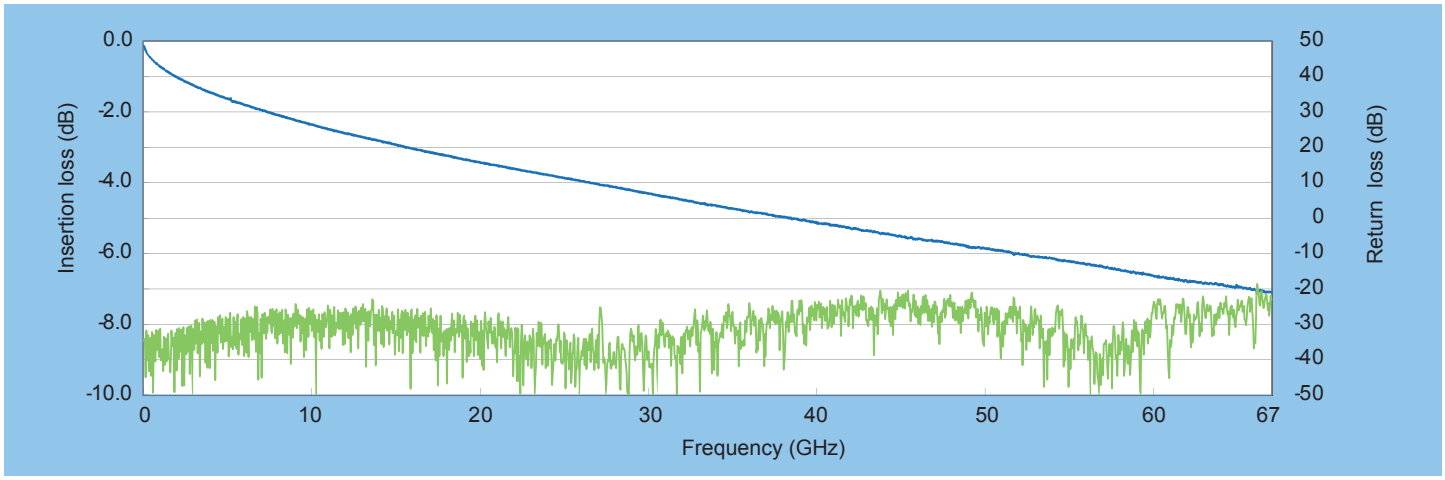


Maximum Frequency: 67 GHz

Temperature Range: -65 ~ +125 degree C

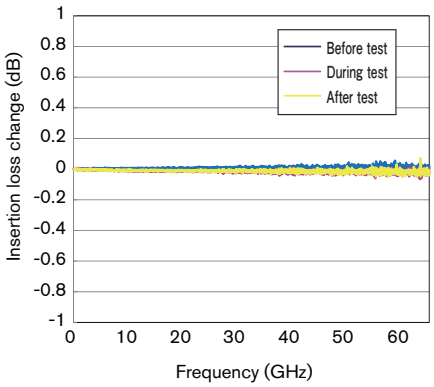
Phase Performance that Endures

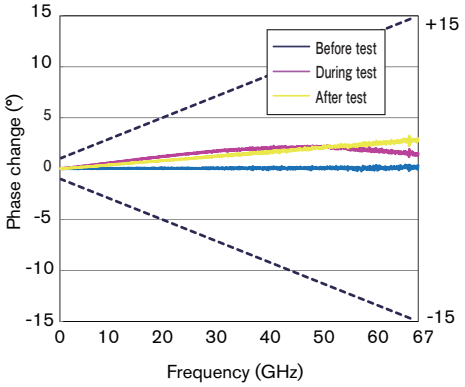
Insertion loss and Return loss [Assembly length 1000mm, Connector: Both side 1.85 mm (m)]



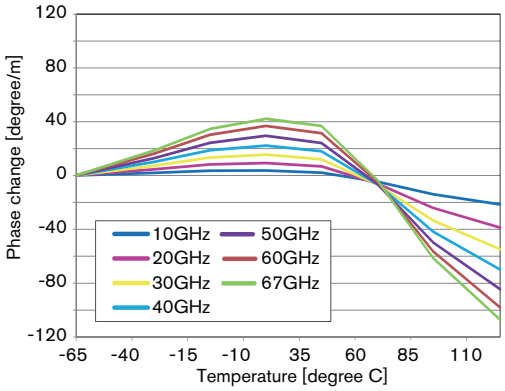
Technical Data

Static bending data (insertion loss, phase) **Bending radius: 30 mm**





Phase change vs. temperature

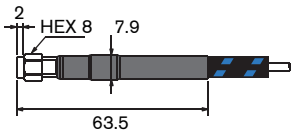


＊The above figures are measured values for reference only.
＊The cable was wrapped 360 degree around φ60 mm mandrel.

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.

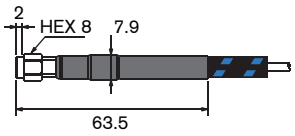
Connector Type

●3.5 mm (m) [Code：DMS]



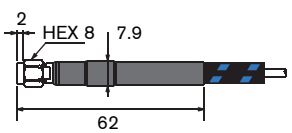
Maximum frequency: 26.5 GHz

●2.92 mm (m) [Code：KMS]



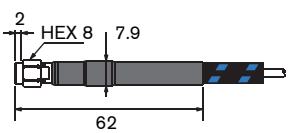
Maximum frequency: 40.0 GHz

●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 : Armor	

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.

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