Junkosha

Creating Unsurpassed Value

Up to 110GHz Flexible & Hand Formable

High Phase Stability Low Insertion Loss

JUNFLON® MWX001

- Low insertion loss and excellent phase stability against bending up to 110GHz.
- High quality signal transmission with excellent flexibility and form-sustainability.
- 1.0mm(m) and 1.0mm(f) connectors are available.
- Standard type armored with SUS spiral tube for mechanical damage reduction.

Cable Properties

Electrical Properties

Maximum operating frequency	110.0 GHz
Characteristic impedance (typ.)	50 Ω
Capacitance (typ.)	88 pF/m
Propagation delay (typ.)	4.2 nsec/m
Wavelength reduction rate (typ.)	79 %
Maximum frequency insertion loss (110.0GHz)	13.7 dB/m
VSWR (per connector / both ends of assy)	1.197/1.43

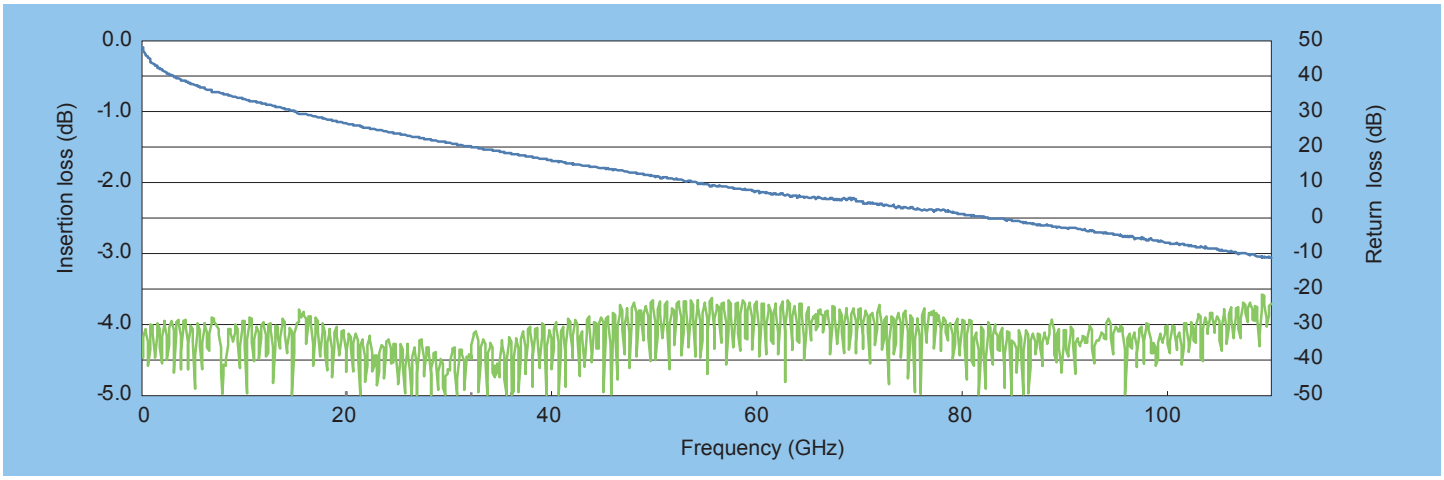
Mechanical Properties

Cable outer diameter	4.0 mm
Minimum bending radius (inner side)	15 mm
Cable mass (typ.)	50 g/m
Continuous operating temperature range	-30～+85 ℃
Assembly length	100～200 mm
Armored side pressure	157 N/cm

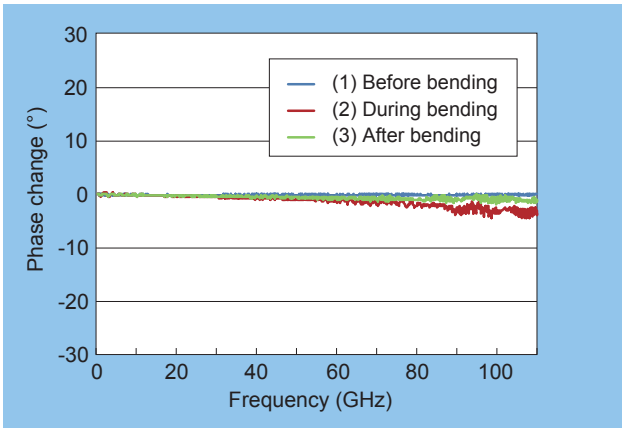
- Typical insertion loss $(0.9 \times \sqrt{f\,(GHz)} + 0.035 \times f\,(GHz) + 0.4) \times L(m)$
- Maximum insertion loss $(0.9 \times \sqrt{f\,(GHz)} + 0.035 \times f\,(GHz) + 0.4) \times 1.12 \times L(m)$

Insertion loss and Return loss

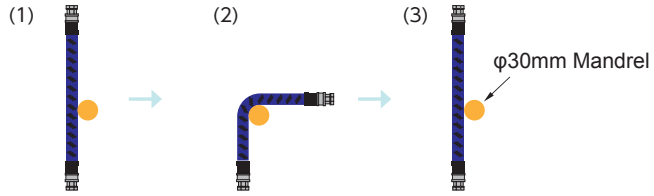
Assembly length 200mm, Connector: Both side 1.0mm(m)



Static Bending Data (Phase Change)

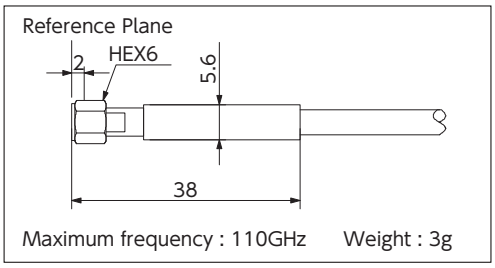


(1) The initial phase value of the sample cable is measured.
(2) The phase waveform is recorded while the cable is wrapped 90 degree on a mandrel of φ30mm.
(3) The phase waveform is recorded after straightening the cable

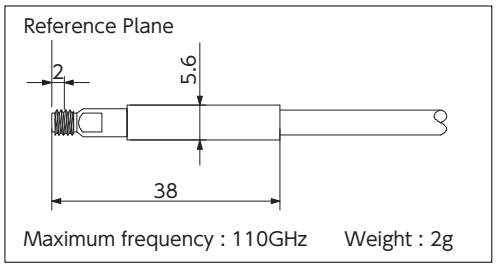


Connector Type

● 1.0mm(m) straight (Code : WMS)



● 1.0mm(f) straight (Code : WFS)



Pracing orders

MWX001 − 00100 WFS WMS /B

Cable	·····	MWX001
Assembly length	·····	100mm
Connector Ⅰ	·····	1.0mm(f) straight
Connector Ⅱ	·····	1.0mm(m) straight
Armored type		

● Connector Combination codes

Connector Ⅰ / Connector Ⅱ	1.0mm (m) WMS	1.0mm (f) WFS
1.0mm (m) WMS	WMSWMS	WFSWMS
1.0mm (f) WFS	—	WFSWFS

The order of connectors Ⅰ and Ⅱ is in alphabetical descending order.

*To allowcontinuing product improvements, specifications are subject tochange without notice.
*The data are measured, not guaranteed values. *JUNFLON, MWX are registered trademarks of Junkosha Inc.

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