



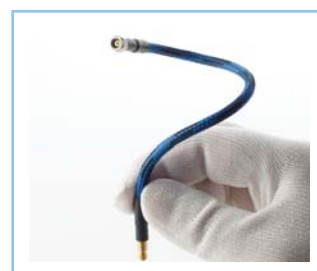
Up to 110GHz

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.
- Standard type assembled with 1.00mm (m) and (f) connector.
- 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)	14.1 dB/m
VSWR (per connector / both ends of assy)	1.197/1.43

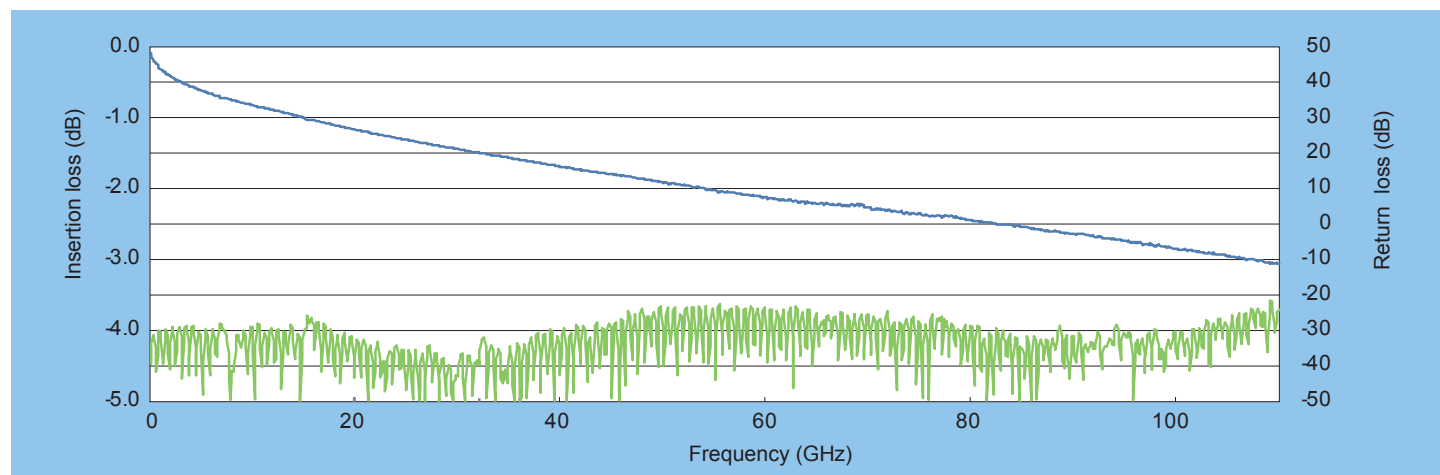
Mechanical Properties

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 °C
Assembly length	100~200 mm
Armored side pressure	157 N/cm

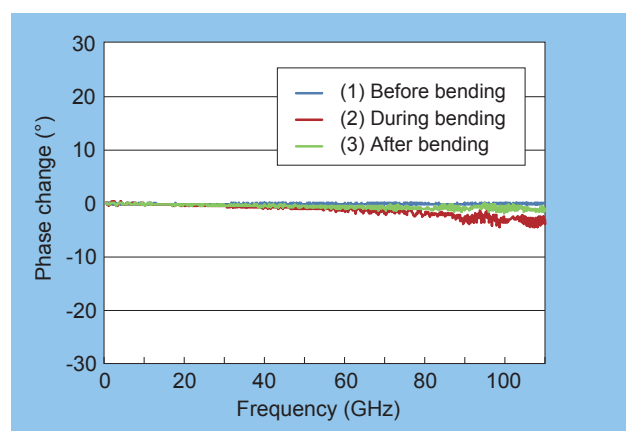
- Typical insertion loss $(1.01 \times \sqrt{f \text{ (GHz)}} + 0.032 \times f \text{ (GHz)} + 0.02) \times L \text{ (m)}$
- Maximum insertion loss $(1.01 \times \sqrt{f \text{ (GHz)}} + 0.032 \times f \text{ (GHz)} + 0.02) \times 1.12 \times L \text{ (m)}$

Insertion loss and Return loss

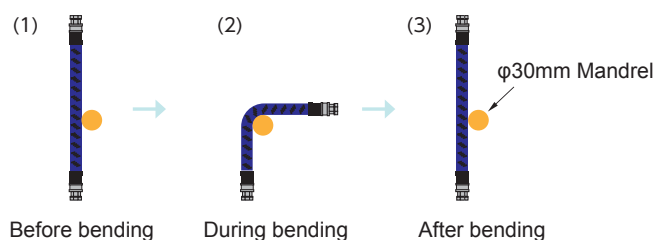
Assembly length 200mm, Connector: Both side 1.0mm(m)



Static Bending Data (Phase Change)

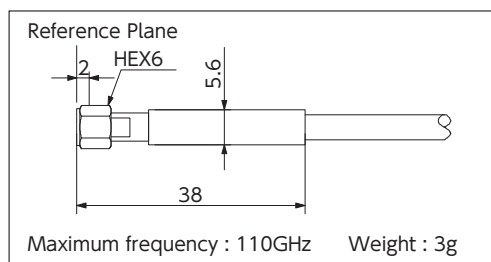


- (1) The initial phase value of the sample cable is measured.
- (2) The phase waveform is recorded while the cable is wrapped 90 degree on a mandrel of $\phi 30\text{mm}$.
- (3) The phase waveform is recorded after straightening the cable

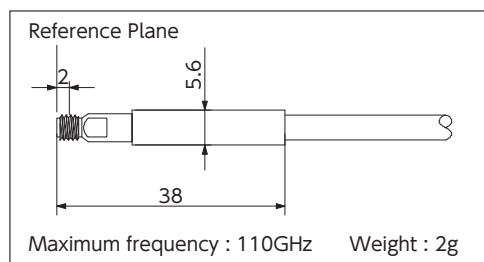


Connector Type

- 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 allow continuing product improvements, specifications are subject to change without notice.

*The data are measured, not guaranteed values. *JUNFLON, MWX are registered trademarks of Junkosha Inc.

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