



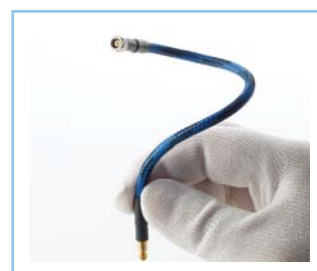
120 & 110 GHz

Flexible & Hand Formable

**High Phase Stability
MWX0 Series**

JUNFLON® MWX002

- Low insertion loss and excellent phase stability against bending up to 120GHz.
- High quality signal transmission with excellent flexibility and form-sustainability.
- Enhanced 1.0mm(m) and 1.0mm(f) connectors are available for 120GHz.
- Standard type armored with SUS spiral tube for mechanical damage reduction.



Cable Properties

Electrical Properties

Maximum operating frequency	120.0 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 (120.0GHz)	14.5 dB/m
VSWR (per connector / both ends of assy)	1.197/1.43

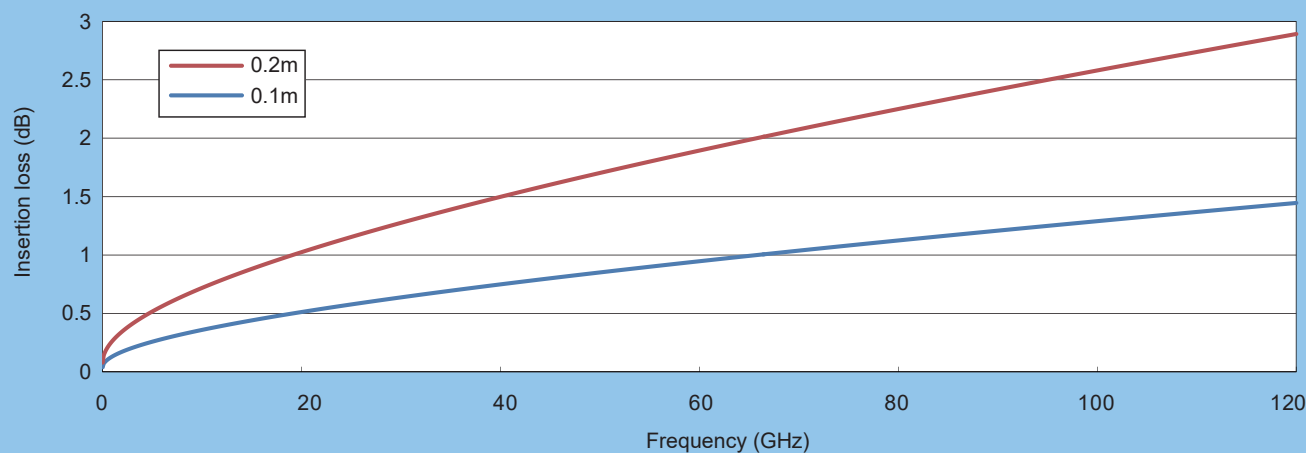
Mechanical Properties

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

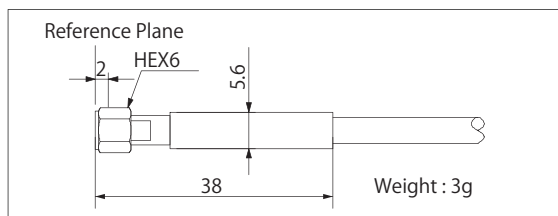
Typical Insertion

Connector: Both side 1.0mm(m)

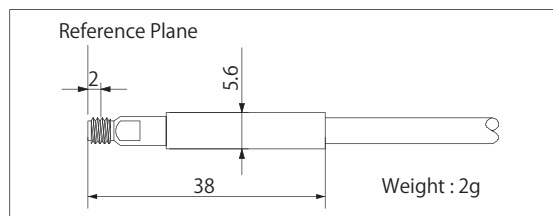


Up to 120 GHz: Enhanced 1.0mm Connector (Please contact us.)

● 1.0mm(m) straight (Code : WMS)



● 1.0mm(f) straight (Code : WFS)



Pracing orders

MWX002 - 00100 WFS WMS /B

Cable		MWX002			
Assembly length		100mm			
Connector I		1.0mm(f) straight			
Connector II		1.0mm(m) straight			
Armored type					

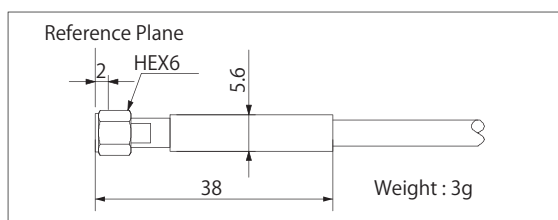
Connector Combination codes

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

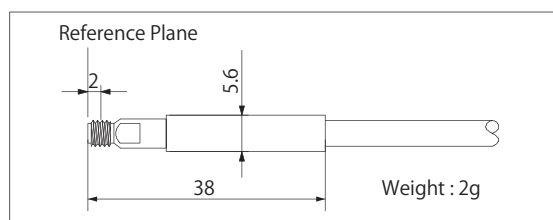
The order of connectors I and II is in alphabetical descending order.

Up to 110 GHz: Standard 1.0mm Connector (Already released)

● 1.0mm(m) straight (Code : WMS1)



● 1.0mm(f) straight (Code : WFS1)



Pracing orders

MWX002 - 00100WFS1WMS1/B

Cable		MWX002			
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) WMS1	1.0mm (f) WFS1
1.0mm (m) WMS1	WMS1WMS1	WFS1WMS1
1.0mm (f) WFS1	—	WFS1WFS1

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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