

MWX221

DC~26.5 GHz

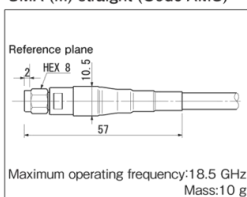
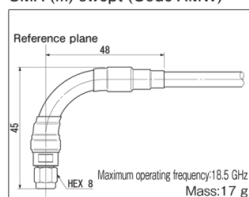


Basic Cable Properties

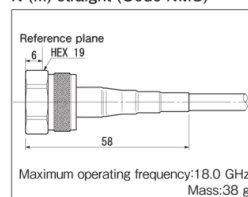
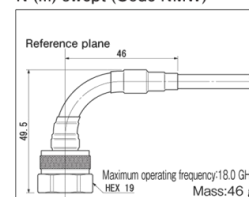
Electrical properties		Mechanical properties	Standard type	Armored type
Maximum operating frequency	26.5 GHz	Cable outer diameter	6.0 mm	12.5 mm
Characteristic impedance	50±1 Ω	Minimum bending radius (inner side)	20 mm	20 mm
Capacitance (typ.)	88 pF/m	Cable mass (typ.)	64 g/m	212 g/m
Propagation delay (typ.)	4.4 ns/m	Continuous operating temperature range	-30~+85 °C	-30~+85 °C
Shortening coefficient of wavelength (typ.)	76 %	Armored side pressure	—	196 N/cm
Higher mode frequency (typ.)	27.5 GHz			
VSWR (per connector/both ends of assy.)	1.153/1.33			

Connector

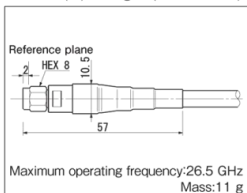
SMA (m) straight (Code:AMS)

SMA (m) swept (Code:AMW)^(*)

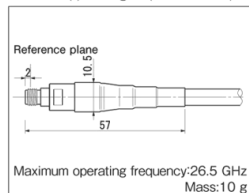
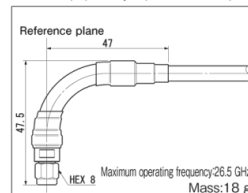
N (m) straight (Code:NMS)

N (m) swept (Code:NMW)^(*)

3.5 mm (m) straight (Code:DMS)



3.5 mm (f) straight (Code:DFS)

3.5 mm (m) swept (Code:DMW)^(*)

(*) Swept is not available to armored type.

Order form example

Example 1

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

Catalog No.:
MWX221-01000AMSDMS
(See P.32 "Connector combination codes")

Example 2 MWX221 Armored type

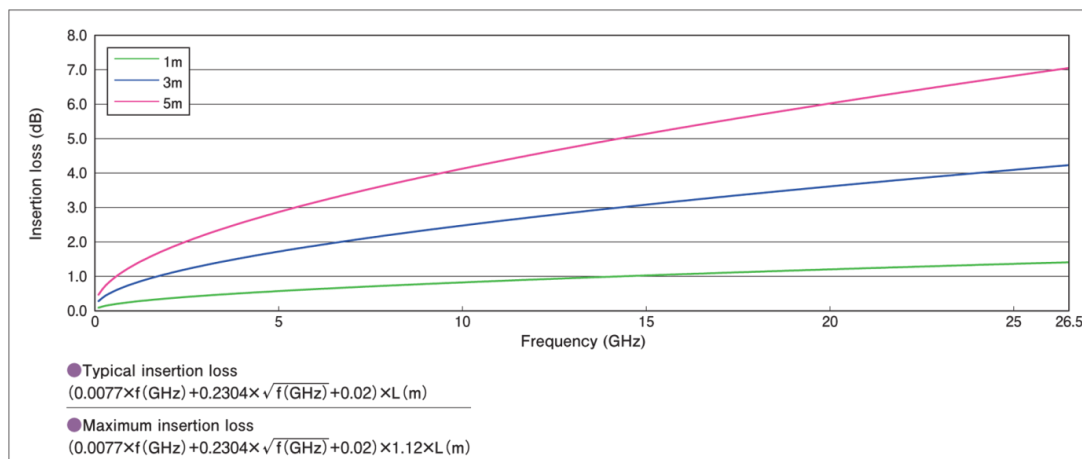
Assembly length : 1500 mm
Connector I : N (m) straight
Connector II : N (m) straight

Catalog No.:
MWX221-01500NMSNMS/B

JUNFLON® MWX series are fully complied with RoHS directive including connectors.

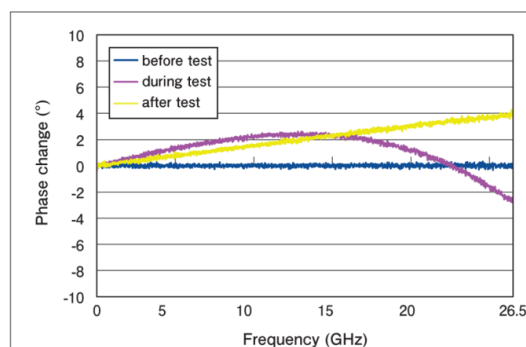
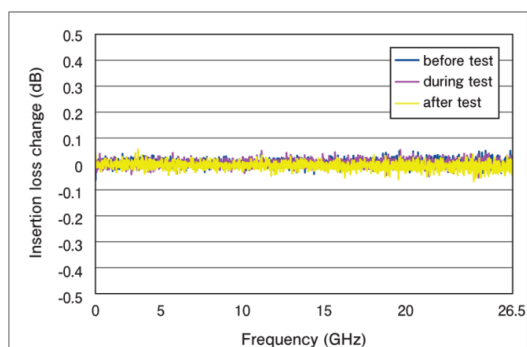
MWX221 Technical Data

Cable typical insertion loss



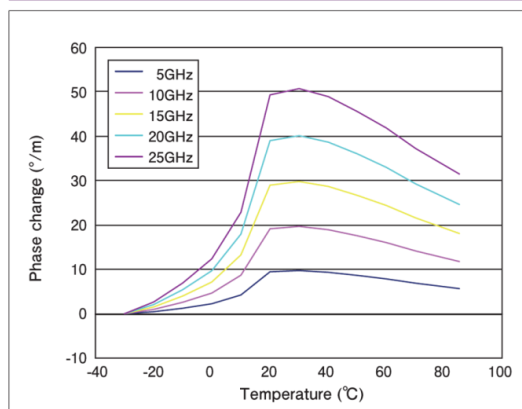
Static bending data (insertion loss, phase)

Bending radius: 20 mm



*The cable was wrapped 360° around a mandrel.

MWX221 Phase change vs. temperature



Option

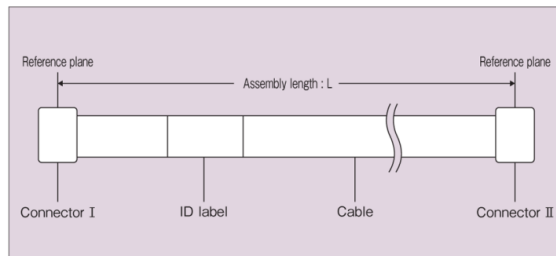
- We have the capacity to deliver products with matched phases for customers who require this characteristic.

*The above figures are measured values for reference only.

MWX2 Series

Placing orders

Catalog number



Note 1) The unit of assembly length is mm.

Shown as a five-digit number. If the number consists of fewer than five digits, remember to add zero (s) to the left of the first digit to make it five digits.

The assembly length is measured based on the reference planes, not on the connector ends, shown at the figure to the left.

Note 2) Armored-type cables will have a "/B" appended to the connector combination code.

No appended to the connector combination code when cables are not armored type.

Example 1)

MWX221-01000 DMS DMS

Cable.....MWX221

Assembly length.....1000 mm

Connector I ...3.5 mm (m) straight

Connector II ...3.5 mm (m) straight

Example 2)

MWX241-02000 KMS KMS /B

Cable.....MWX241

Assembly length.....2000 mm

Connector I ...2.92 mm (m) straight

Connector II ...2.92 mm (m) straight

Armored.....Armored-type

Connector combination codes

Connector I \ Connector II			SMA	SMA swept	N	N swept	3.5 mm	3.5 mm	3.5 mm swept	2.92 mm	2.92 mm	2.4 mm	2.4 mm	1.85 mm	1.85 mm
			m	m	m	m	m	f	m	m	f	m	f	m	f
			AMS	AMW	NMS	NMW	DMS	DFS	DMW	KMS	KFS	LMS	LFS	VMS	VFS
SMA	m	AMS	AMSAMS	AMSAMW	AMSAMS	AMSAMW	AMSAMS	AMSAMW	AMSAMS	AMSAMW	AMSAMS	AMSAMW	AMSAMS	AMSAMW	AMSAMS
SMA swept	m	AMW	—	AMWAMW	AMWNMS	AMWNMW	AMWDMS	AMWDFS	AMWDMW	—	—	—	—	—	—
N	m	NMS	—	—	NMSNMS	NMSNMW	DMSNMS	DFSNMS	DMWNMS	KMSNMS	KFSNMS	—	—	—	—
N swept	m	NMW	—	—	—	NMWNMW	NMWDMS	NMWDFS	NMWDMW	—	—	—	—	—	—
3.5 mm	m	DMS	—	—	—	—	DMSDMS	DFSMS	DMSDMW	—	—	—	—	—	—
3.5 mm	f	DFS	—	—	—	—	—	DFSDFS	DFSMS	—	—	—	—	—	—
3.5 mm swept	m	DMW	—	—	—	—	—	—	DMWDMW	—	—	—	—	—	—
2.92 mm	m	KMS	—	—	—	—	—	—	—	KMSKMS	KFSKMS	—	—	—	—
2.92 mm	f	KFS	—	—	—	—	—	—	—	—	KFSKFS	—	—	—	—
2.4 mm	m	LMS	—	—	—	—	—	—	—	—	—	LMSLMS	LFSLMS	—	—
2.4 mm	f	LFS	—	—	—	—	—	—	—	—	—	—	LFSLFS	—	—
1.85 mm	m	VMS	—	—	—	—	—	—	—	—	—	—	—	VMSVMS	VFSVMS
1.85 mm	f	VFS	—	—	—	—	—	—	—	—	—	—	—	—	VFSVFS

Please provide a catalog number when placing an order.

m : male (plug)

f : female (jack)