# 221

























# Property

#### Electrical properties

Maximum operating frequency	26.5 GHz
Characteristic impedance	50±1 Ω
Capacitance (typ.)	88 pF/m
Propagation delay (typ.)	4.4 ns/m
Velocity of Propagation(typ.)	76 %
Higher mode frequency (typ.)	27.5 GHz
VSWR (per connector/ both ends of assy.)	1.153/1.33
Maximum frequency insertion loss (26.5 GHz)	1.4 dB/m



## Order form example

Please provide the following information when placing an order.

\* See P.45"Connector combination codes"

Example 1	
221	

Mechanical

properties

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

Catalog No. MWX221-01000AMSDMS

# Example 2 221 Armored type

Standard type

6.0 mm

20 mm

64 g/m

-30~+85 ℃

200~5,000 mm

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

Armored type

12.5 mm

20 mm

212 g/m

-30~+85 ℃

196N/cm

700~5,000 mm

Catalog No. MWX221-01500NMSNMS/B

# 221 Lightweight Armored type

Lightweight Armored type

11 mm

30 mm

160 g/m

-30~+85 ℃

196N/cm

500~5,000 mm

( for fixed wiring )

Assembly length: 1000mm Connector | :SMA(m) straight Connector | SMA(m) straight

Catalog No. MWX221-01000AMSAMS/A

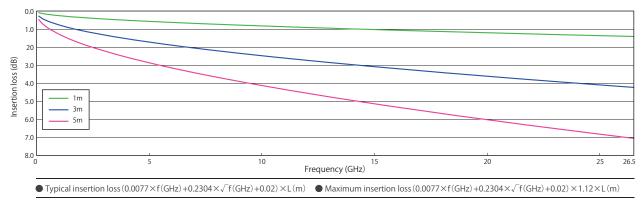
We have the capacity to deliver products with matched phases for customers who require this characteristic.

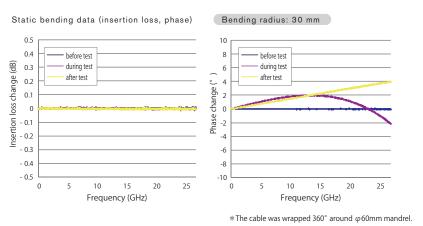


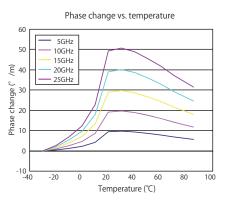
#### c:Connector b: Assembly length d: Armored

#### Technical Data

#### Cable typical insertion loss



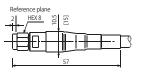


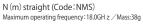


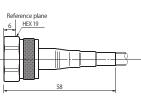
\*The cable was measured in chamber every 20 °C from -40 to 90 °C, 1 hour after the temperature changed.

#### Connector

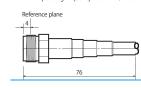
#### SMA (m) straight (Code: AMS) Maximum operating frequency: 18.5GH z / Mass:10g



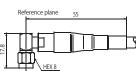




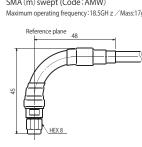
#### N(f) straight (Code: NFS) Maximum operating frequency: 18.0GH z / Mass:26g



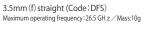
#### SMA (m) right Angle (Code: AMH) 3.5mm (m) straight (Code: DMS) Maximum operating frequency: 18.0GH z / Mass: 10g Maximum operating frequency: 26.5GH z / Mass:11g

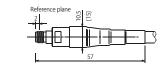




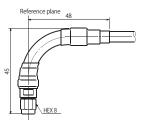


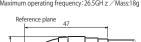
HEX 8

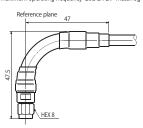




#### 3.5mm (m) swept (Code: DMW) Maximum operating frequency: 26.5GH z / Mass:18g







- Swept and right angle are not available to armored type.
- Please see P.82 about" customer-specified swept and right angle connectors".

























# Property

#### Electrical properties

Maximum operating frequency	40.0 GHz
Characteristic impedance	50±1 Ω
Capacitance (typ.)	88 pF/m
Propagation delay (typ.)	4.35 ns/m
Velocity of Propagation(typ.)	77 %
Higher mode frequency (typ.)	40.5 GHz
VSWR (per connector/ both ends of assy.)	1.197/1.43
Maximum frequency insertion loss (40.0 GHz)	3.0 dB/m



## Order form example

Please provide the following information when placing an order.

\* See P.45"Connector combination codes"

Mechanical properties	Standard type	Non-armored type custom-made	Lightweight Armored type ( for fixed wiring )
Cable outer diameter	9.5 mm	4.1 mm	8 mm
Minimum bending radius (inner side)	20 mm	20 mm	2 0 mm
Cable mass (typ.)	137 g/m	35 g/m	98 g/m
Continuous operating temperature range	-30~+85 ℃	-30~+85 ℃	-30~+85 ℃
	196N/cm	_	196N/cm
	700~5,000 mm	200~5,000 mm	500~5,000 mm

 ${\bf *Take}\ care\ when\ handling\ the\ non-armored\ type\ product\ because\ its\ outer\ diameter\ of\ the\ cable\ is\ thin.$ 

is required.

# Example 1

241Armored type (standard) Assembly length: 1000mm Connector | :2.92mm(m) straight Connector II:2.92mm(m) straight

Catalog No.

MWX241-01000KMSKMS/B

# 241Non-armored type

\*The individual specification

#### Example 3 241 Lightweight Armored type

Assembly length: 1000mm Connector | :2.92mm(m) straight Connector II:2.92mm(m) straight

Catalog No.

MWX241-01000KMSKMS/A

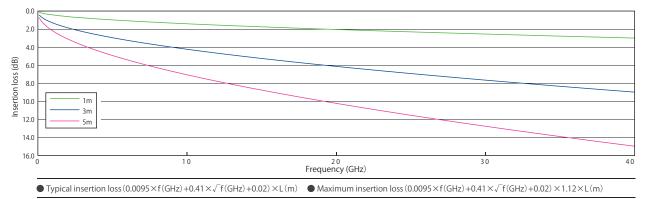
We have the capacity to deliver products with matched phases for customers who require this characteristic.

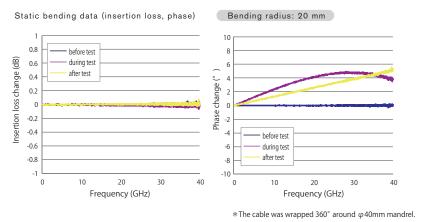


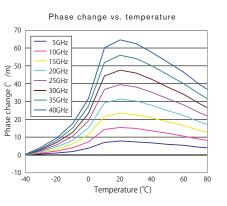
# c:Connector

#### Technical Data

#### Cable typical insertion loss



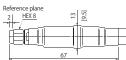




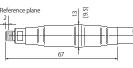
\*The cable was measured in chamber every 20 °C from -40 to 90 °C, 1 hour after the temperature changed.

#### Connector

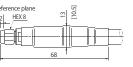
# 2.92mm (m) straight (Code: KMS)



2.92mm (f) straight (Code: KFS) Maximum operating frequency: 40.0 GH z / Mass: 10g

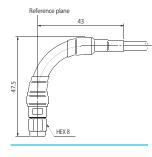


SMA (m) straight (Code: AMS) Maximum operating frequency: 18.5 GH z / Mass: 12g





# 2.92mm (m) swept (custom-made)



- ${\:\raisebox{3.5pt}{\text{\circle*{1.5}}}}$  Swept and right angle are not available to armored type.
- Please see P.82 about" customer-specified swept and right angle connectors".
- []: Non armored type size.

251





















# Property

#### Electrical properties

Maximum operating frequency	50.0 GH z
Characteristic impedance	50±1 Ω
Capacitance (typ.)	88 pF/m
	4.36 ns/m
Velocity of Propagation(typ.)	77 %
Higher mode frequency (typ.)	50.3 GHz
VSWR (per connector/ both ends of assy.)	1.197/1.43
Maximum frequency insertion loss (50.0 GHz)	3.8 dB/m

properties	Standard type	custom-made
Cable outer diameter	9.5 mm	3.7 mm
Minimum bending radius (inner side)	20 mm	6 mm
Cable mass (typ.)	129 g/m	29 g/m
Continuous operating temperature range	-30~+85 ℃	-30~+85 ℃
Armored side pressure	196N/cm	_
Assembly length	700~1.500 mm	200~1.500 mm

 ${\bf *Take\ care\ when\ handling\ the\ non-armored\ type\ product\ because\ its\ outer\ diameter\ of\ the\ cable\ is\ thin.}$ 

## Order form example

Please provide the following information when placing an order.

\* See P.45"Connector combination codes"

## 251 Armored type (standard) Assembly length: 1000mm

Connector I:2.4mm(m)straight Connector II:2.4mm (m) straight

Catalog No. MWX251-01000LMSLMS/B

Example 2 251 Non-armored type

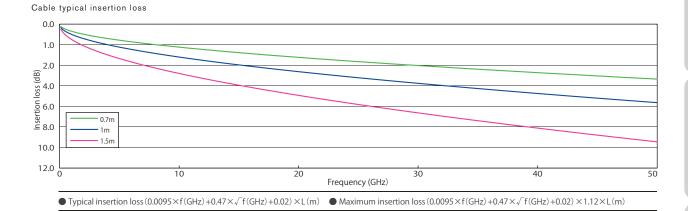
\*The individual specification is required.

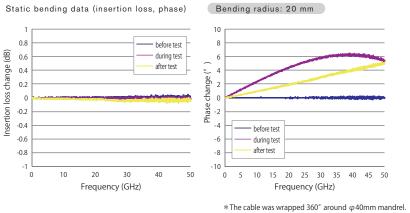
b:Assembly length c:Connector d:Armored

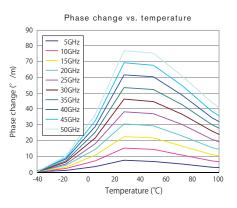
a:Cable

We have the coppadity dole bleven products with matched phase schools stooners who recourie et It hi soldararate renistic.







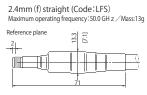


\*The cable was measured in chamber every 20 °C from -40 to 90 °C, 1 hour after the temperature changed.

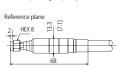
## Connector

Technical Data

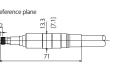
2.4mm (m) straight (Code:LMS) 2 HEX 8



2.92mm (m) straight (Code: KMS)



2.92mm (f) straight (Code: KFS) Maximum operating frequency: 40.0 GH z / Mass:13q



• []: Non - armored type size.























# Property

### Electrical properties

Maximum operating frequency	67.0 GHz
Characteristic impedance	50±1 Ω
Capacitance (typ.)	90 pF/m
Propagation delay (typ.)	4.38 ns/m
Velocity of Propagation(typ.)	76 %
Higher mode frequency (typ.)	67.0 GHz
VSWR (per connector/ both ends of assy.)	1.197/1.43
Maximum frequency insertion loss (67.0 GHz)	5.6 dB/m

 Continuous operating temperature range	-30~+85 ℃
 Armored side pressure	196N/cm
 Assembly length	700~1,500 mm
*Take care when handling	ng the non-armored type produ
 26 5 GHz	

Mechanical

properties

7.7 mm 2.6 mm 20 mm 6 mm 90 g/m 17 g/m -30~+85 ℃ -30~+85 ℃ 196N/cm

Standard type

he non-armored type product because its outer diameter of the cable is thin.

## Order form example

Please provide the following information when placing an order.

\* See P.45"Connector combination codes"

261 Armored type (standard) Assembly length: 1000 mm

Connector I:1.85 mm (m) straight Connector II: 1.85 mm (m) straight Catalog No.

MWX261-01000VMSVMS/B

261 Non-armored type

\* The individual specification is required.

a:Cable b:Assembly length c:Connector d:Armored

Non-armored type

custom-made

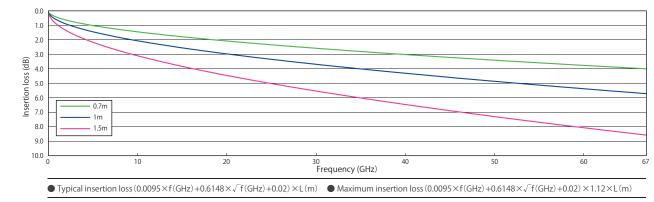
200~1,500 mm

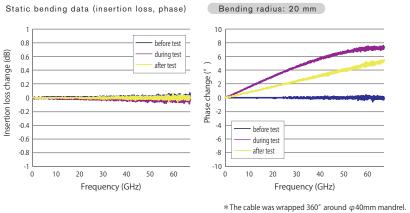
We have the capacity to deliver products with matched phases for customers who require this characteristic.

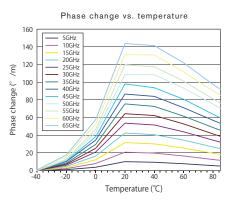


# Technical Data

#### Cable typical insertion loss



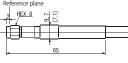


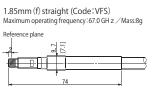


\*The cable was measured in chamber every 20 °C from -40 to 90 °C, 1 hour after the temperature changed.

#### Connector

1.85mm (m) straight (Code: VMS) Maximum operating frequency: 67.0 GH z / Mass:8g





• []: Non - armored type size.