

Handy Forming Cable

▶ Product Profile

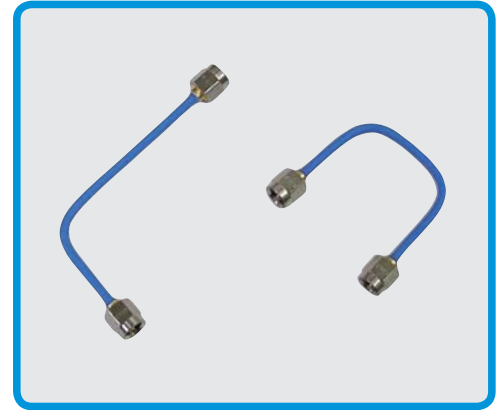
Handy Forming Cable Assembly is developed to offer an alternative to standard microwave and millimeter wave semi-rigid cables for fixed layout.

Waka Manufacturing Co., Ltd. has been developing and selling connectors and cable assemblies up to millimeter wave range with its accumulated high frequency technologies over the years.

We have just developed a totally new cable designed based on the unique low attenuation semi-rigid cable that can change the common idea of "Semi-rigid cables are not flexible and are necessary to be bent by machines and jigs" This cable assembly meets the 5 features of High Frequency Characteristics, Flexibility, No drawing for bending, Quick delivery and Economic Efficiency.

Two cable sizes (outer diameter of 3.6 and 2.7mm) are provided.

*If forming a cable is necessary, please contact our sales department or visit our inquiry section on web site.



▶ Features

1. High Frequency Characteristics
Insertion loss and V.S.W.R. are as low as semi-rigid cable (SP-22 and SP-36).
High stability of the phase versus environmental temperature and flexure.
2. Flexibility
It can be formed easily and kept.
Force to bend is half of that needed for the conventional semi-rigid cable.
(Minimum bending radius ⇒ M2B:5mm, M3B:10mm)
*Note: Repeated bending and unbending can not be done.
3. No drawing for bending is necessary
As you can bend it yourself, you can save the time to make a drawing or place an order to response to wide variety of products.
4. Quick delivery
Standard delivery time: within 3 weeks
Instant delivery from our stock may be possible if your request is standard ones, please contact us.
5. Economic Efficiency
Both cables and connectors are in-house production.
Superior cost performance is provided.

▶ Applications

Communication devices, measuring instruments, internal/ external cable layout (communication base station, semiconductor test devices, etc.)

► Products Specification

Requirement	M3B AM AM # 1000	M2B AM AM # 1000	M2B KM KM # 1000	M2B VM VM # 1000
Cable Type	M3B(SP-30M)	M2B(SP-20M)		
Characteristic Impedance	50 Ω			
Insertion Loss at 10GHz	1.1dB	1.8 dB	1.8 dB	1.8 dB
Insertion Loss at 18GHz	1.8dB	3.0 dB	3.0 dB	3.0 dB
Insertion Loss at 40GHz	-	-	3.9 dB	3.9 dB
Insertion Loss at 65GHz	-	-	-	4.9 dB
V.S.W.R.	1.2(at 18GHz)		1.35(at 40GHz)	1.35(at 65GHz)
Outer Conductor	Oxygen-free seamless copper pipe			
Inner Conductor	Silver-plated copper-clad steel wire			
Insulator	Low-loss PTFE			
Outer sheath	Polyolefin			
Operating (conservation) temperature range	-55 ~ 105°C			
Outer sheath Diameter	φ 3.6mm	φ 2.7mm		
Outer sheath Color	Blue			
Connector used	SMA/P		2.92mmK/P	1.85mmV/P
Minimum flexing radius	10mm	5mm		

► Product Name

Length of assembly: L (unit: mm)

Connector

Cable type : M □ B

A = SMA	M = Plug
K = 2.92mmK	
V = 1.85mmV	

2 = SP-20M 径 2.7
3 = SP-30M 径 3.6

A = SMA	M = Plug
K = 2.92mmK	
V = 1.85mmV	

Jack(F) of SMA, K, and V connector is available as custom request.

Example: Handy forming cable (SP-30M), both ends SMA/M, measuring 1m in length (L)

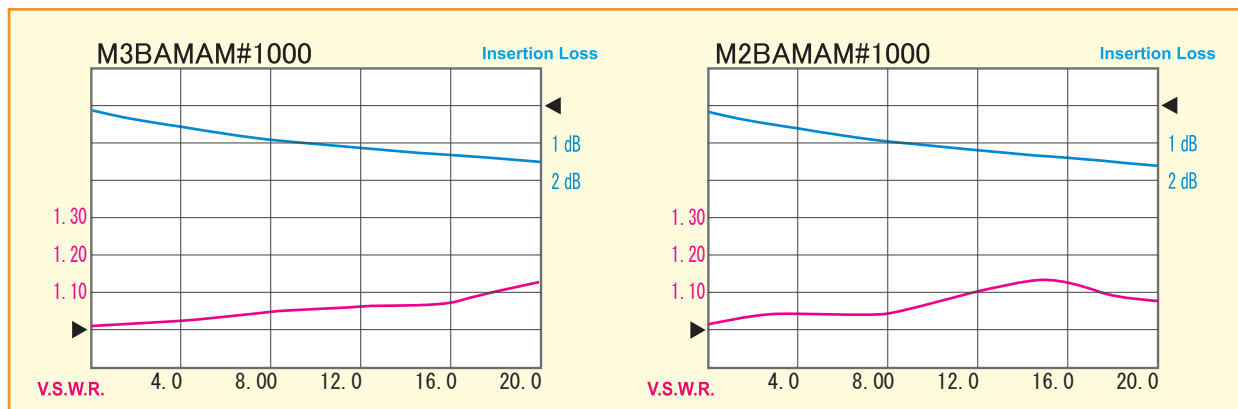
M 3 B **A M** **A M** **#** **1 0 0 0**

Cable type Connector Connector Length (mm)

※ Standard length=50 ~ 500 : by 50mm, onward=1000,1500,2000(mm)

► Data

Insertion loss (S21) and VSWR(S11) typical data for M3B AM AM#1000 / M2BAMAM#1000 (SMA connector).



The data shown in the above are in-house test results and are not guaranteed values.