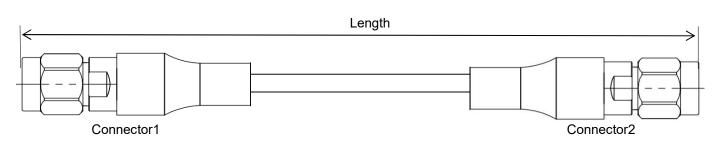


# Low Loss Flexible Cable Replacing Semi-flexible Cable Assembly, Using SP400

#### DC-18 GHz, SMA Male to SMA Male

## SP400-SMAMSMAM-L(L:Length)



• Length can be in meter or in inch etc, e.g, SP400-SMAMSMAM-1M. Standard length tolerance: ±1.5%. Custom lengths and other connector types available.

• Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

## Configuration

Connector 1	SMA male	Connector 2	SMA male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated brass	Center Contact	Gold plated brass
Cable Type	SP400		

#### **Cable Construction**

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	1	2	3	4	5	
No.	Construction			Size (mr	n)	Materials
1	Cente	Center Conductor				Silver plated copper
2	Dielectric			3.00		Solid PTFE
3	Outer Conductor			3.20		Silver plated copper tape wi
4	Outer Shield		3.60		Silver plated copper wire bra	
5	Jacke	et		4.00		FEP

DC-26.5 GHz

50 Ω 1.25 2.7dB 70%



#### **Electrical**

Frequency					
Impedance					
VSWR Max					
IL Max(1 meter assembly)					
Velocity of Propagation					

## **Mechanical & Environmental**

Min.Bending Radius Static	20mm
Min. Bending Radius Repeated	40mm
Temperature(Operation)	-50∼85 °C
Temperature(Storage)	-60∼85 °C

## Bulk Cable Attenuation(Typical@25°C) & Power(VSWR=1.0; 40°C; Sea level)

Frequency MHz	300	1500	2000	4000	6000	8000	10000	12000	14000	16000	18000	26500
dB/100 Meter	19.9	47.8	56.3	84.2	107.5	128.3	147.6	165.8	183.2	199.9	216.1	280.5
Avg.Power kW	0.512	0.213	0.181	0.121	0.095	0.080	0.069	0.062	0.056	0.051	0.047	0.036
Attenuation at any frequency=[1.082400×SQRT(FMHz)]+[0.003937×FMHz]												

#### Notes:

1) The above attenuation refers to typical loss of cable only, max loss is 1.1 times of typical loss. Insertion loss per connector is estimated as 0.03dB x SQRT Freq(GHz).

2) Power handling values are calculated based on cable properties. Power handling will vary based on connector type and actual VSWR of the cable assembly.

#### Typical Test Data (SP400-SMAMSMAM-1M)

