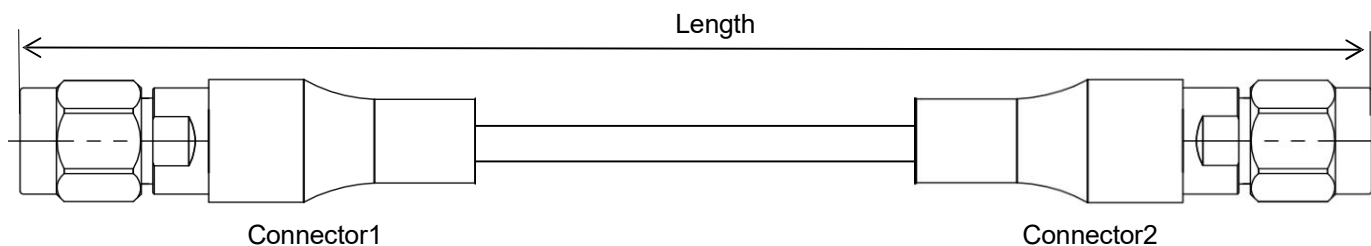


SMA Male to SMA Male Cable Assembly 1m

Model No.- SRFS-FU450-SMAMM-1



- Length can be in meter or in inch etc., e.g., SRFS-FU450-SMAMM-1 Standard length tolerance: $\pm 1.5\%$. Custom lengths and other connector types are available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin centerline.

Configuration

Connector 1	SMA male	Connector 2	SMA male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated BeCu	Center Contact	Gold plated BeCu
Cable Type	FU450		

Cable Construction

No.	Construction	Size (mm)	Materials
1	Center Conductor	0.91	Stranded silver-plated copper
2	Dielectric	2.75	LD PTFE wrapping
3	Outer Conductor	2.90	Silver plated copper strip wrapping
4	Interlayer	3.20	PTFE
5	Outer Shield	3.55	Silver plated copper wire braiding
6	Inner Jacket	4.50	PUR



Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
VSWR Max	1.1
IL Max (1 meter assembly)	2.5 dB
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.15\text{dB}$

* Wrapped 360° around an 88mm radius mandrel.

Mechanical & Environmental

Mi. Bending Radius Static	44mm
Min. Bending Radius Repeated	88mm
Velocity of Propagation	76%
Flex Life Min	15000 cycles
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	1000	2000	3000	6000	8000	10000	14000	18000
dB/100 Meter	22.3	41.3	59.1	73.1	105.6	123.2	139.1	167.3	192.4
Avg.Power kW	0.780	0.421	0.294	0.238	0.165	0.141	0.125	0.104	0.090
Attenuation at any frequency=[1.265700×SQRT(FMHz)]+[0.0012544×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 (SRFS-FU450-SMAMM-1)

