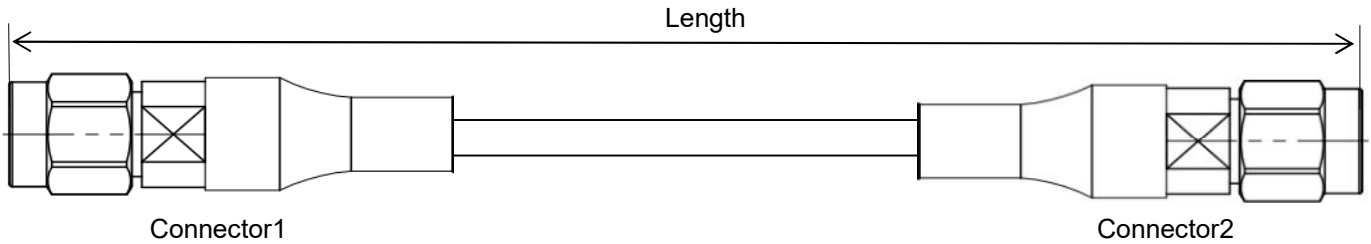


## High Flex Life Economy Test Cable Assembly, Using FL460

DC-18 GHz, SMA Male to SMA Male

FL460-SMAMSMAM-L(L:Length)

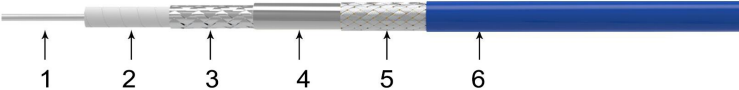


- Length can be in meter or in inch etc, e.g, FL460-SMAMSMAM-1M. Standard length tolerance:  $\pm 1.5\%$ . Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

### 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
<b>Cable Type</b>	FL460		

### Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.02	Solid silver-plated copper
2	Dielectric	3.05	Low density PTFE
3	Outer Conductor	3.25	Silver-plated flat copper ribbon braid
4	Interlayer	3.49	Aluminum foil wrap
5	Outer Shield	4.00	Silver-plated copper wire braid
6	Jacket	4.60	FEP



### Electrical

Frequency	DC-18 GHz
Impedance	50 $\Omega$
VSWR Max	1.25
IL Max(1 meter assembly)	1.9dB
*Mechanical Phase Stability	$< \pm 6^\circ$
Amplitude Stability vs Shaking	$< \pm 0.2\text{dB}$

### Mechanical & Environmental

Min. Bending Radius Static	20mm
Min. Bending Radius Repeated	46mm
Velocity of Propagation	76%
Temperature(Operation)	-50 ~ 105 $^\circ\text{C}$
Temperature(Storage)	-60 ~ 105 $^\circ\text{C}$

\* Wrap the cable 360 degree around a mandrel whose radius is ten times of the cable jacket size.

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

Frequency MHz	300	500	1500	2400	3000	6000	8000	10000	12400	16000	18000	26500
dB/100 Meter	17.8	23.0	40.1	51.0	57.2	81.7	94.9	106.6	119.3	136.4	145.2	178.4
Avg.Power kW	1.285	0.993	0.569	0.448	0.399	0.279	0.241	0.214	0.191	0.167	0.157	0.128

Attenuation at any frequency=[1.018000×SQRT(FMHz)]+[0.00048×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 0.04dB 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 (FL460-SMAMSMAM-1M)

