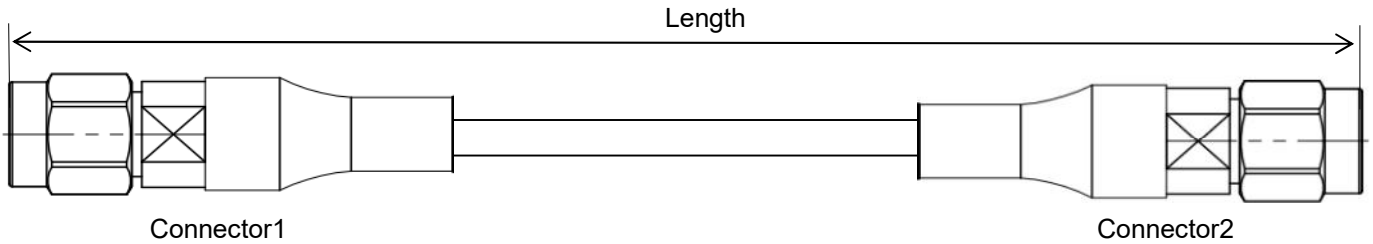


## Durable High Performance Flexible Test Cable Assembly, Using DF480

DC-26.5 GHz, SMA Male to SMA Male

DF480-SMAMSMAM-L(L:Length)

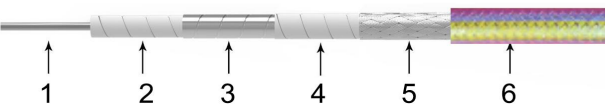


- Length can be in meter or in inch etc, e.g, DF480-SMAMSMAM-1M. Standard length tolerance:  $\pm 1.5\%$ . Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

### 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>	DF480 (Alternative to SilverLine test cable from Times Microwave)		

### Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.02	Silver-plated copper
2	Dielectric	3.00	Low density PTFE
3	Outer Conductor	3.17	Silver-plated copper tape wrap
4	Interlayer	3.17	PTFE
5	Outer Shield	3.74	Silver-Plated copper wire braid
6	Jacket	4.80	FEP

### Electrical

Frequency	DC-26.5 GHz
Impedance	50 $\Omega$
VSWR Max	1.3
IL Max(1 meter assembly)	2.5dB
*Mechanical Phase Stability	$< \pm 6^\circ$
Amplitude Stability vs Shaking	$< \pm 0.15\text{dB}$

### Mechanical & Environmental

Min.Bending Radius Static	24mm
Min. Bending Radius Repeated	48mm
Velocity of Propagation	75%
Temperature(Operation)	-50~85 °C
Temperature(Storage)	-60~85 °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	1000	2000	3000	6000	8000	10000	12400	18000	26500
dB/100 Meter	18.7	24.1	34.3	48.8	60.0	85.7	99.5	111.8	125.1	152.2	187.0
Avg.Power kW	1.046	0.808	0.569	0.400	0.325	0.228	0.196	0.175	0.156	0.128	0.104

Attenuation at any frequency=[1.069000×SQRT(FMHz)]+[0.00049×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 (DF480-SMAMSMAM-1M)

