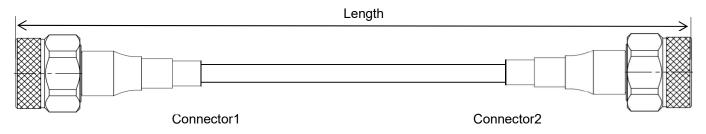


# High Flex Life Economy Test Cable Assembly, Using FL520

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

FL520-NMNM-L(L:Length)



- Length can be in meter or in inch etc, e.g, FL520-NMNM-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	N male	Connector 2	N male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated brass	Center Contact	Gold plated brass
Cable Type	FL520		

#### **Cable Construction**

	<b>†</b>	1	1	1	<b>†</b>	1			
	1	2	3	4	5	6			
No.	Cor	nstructi	on	Size	(mm)	Materials			
1	Cei	nter Co	nductor	1.2	29	Solid silver-plated copper			
2	Dielectric		3.90		Low density PTFE				
3	Outer Conductor		4.15		Silver-plated flat copper ribbon bra				
4	Inte	erlayer		4.2	28	Aluminum foil wrap			
5	Out	ter Shie	eld	4.7	73	Silver-plated copper wire braid			
6	Jacket			5.2	20	FEP			

### Electrical Mechanical & Environmental

Frequency	DC-18 GHz	Min.Bending Radius Static	25mm
Impedance	50 Ω	Min. Bending Radius Repeated	52mm
VSWR Max	1.3	Velocity of Propagation	76%
IL Max(1 meter assembly)	1.7dB	Temperature(Operation)	-50∼85 °C
*Mechanical Phase Stability	< <u>±</u> 6°	Temperature(Storage)	-60∼85 °C
Amplitude Stability vs Shaking	<±0.2dB		

<sup>\*</sup> 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	400	500	1000	1350	1500	6000	8000	10000	12400	14000	18000
dB/100 Meter	17.4	19.4	27.7	32.3	34.0	69.9	81.3	91.5	102.7	109.6	125.5
Avg.Power kW	1.201	1.072	0.754	0.646	0.612	0.298	0.256	0.228	0.203	0.190	0.166
K1=0.856233						K2=0.000591					
Attenuation at any frequency=[K1×SQRT(FMHz)]+[K2×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 (FL520-NMNM-1M)

