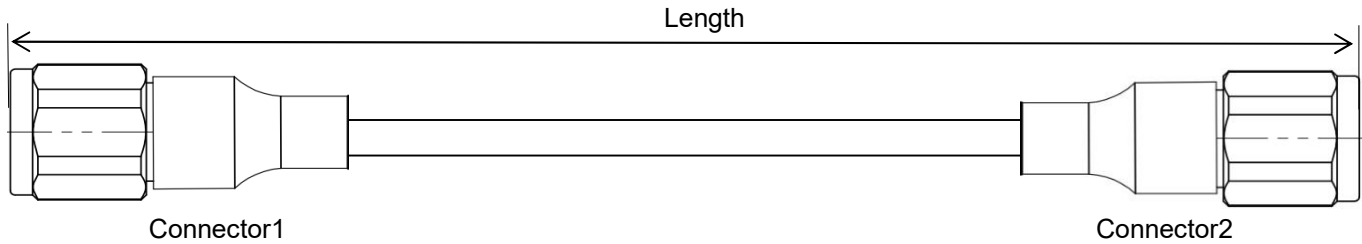


High Flex Life Economy Test Cable Assembly, Using FL620

DC-18 GHz, TNC Male to TNC Male

FL620-TNCMTNCM-L(L:Length)

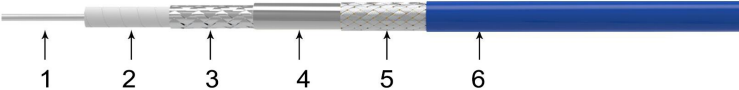


- Length can be in meter or in inch etc, e.g, FL620-TNCMTNCM-1M. Standard length tolerance: $\pm 1.5\%$. Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Configuration

Connector 1	TNC male	Connector 2	TNC male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated brass	Center Contact	Gold plated brass
Cable Type	FL620		

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.57	Solid silver-plated copper
2	Dielectric	4.72	Low density PTFE
3	Outer Conductor	4.96	Silver-plated flat copper ribbon braid
4	Interlayer	5.10	Aluminum foil wrap
5	Outer Shield	5.55	Silver-plated copper wire braid
6	Jacket	6.20	FEP



Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
VSWR Max	1.35
IL Max(1 meter assembly)	1.5dB
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.15\text{dB}$

Mechanical & Environmental

Min.Bending Radius Static	31mm
Min. Bending Radius Repeated	62mm
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	400	500	1000	2400	3000	6000	8000	10000	12400	16000	18000
dB/100 Meter	13.9	15.6	22.2	34.9	39.2	56.4	65.8	74.2	83.3	95.8	102.2
Avg.Power kW	1.490	1.330	0.933	0.594	0.528	0.367	0.315	0.279	0.248	0.216	0.202
	K1=0.682743					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 (FL620-TNCMTNCM-1M)

