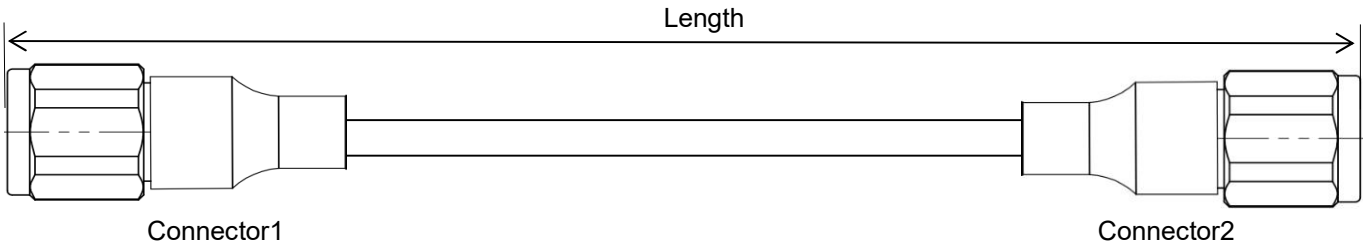
High Flex Life Economy Test Cable Assembly, Using FL620

DC-18 GHz, TNC Male to TNC Male **FL620-TNCMTNCM-L(L:Length)**

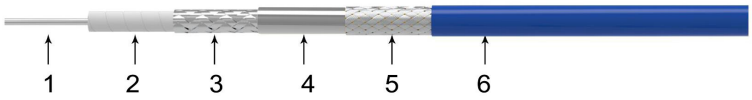


· Length can be in meter or in inch etc, e.g, FL620-TNCMTNCM-1M. Standard length tolerance: ±1.5%. Custom lengths and other connector types available.
· Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

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	<±5º
Amplitude Stability vs Shaking	<±0.15dB

Mechanical & Environmental

Min.Bending Radius Static	31mm
Min. Bending Radius Repeated	62mm
Velocity of Propagation	76%
Temperature(Operation)	-50～85 ºC
Temperature(Storage)	-60～85 ºC

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

Bulk Cable Attenuation(Typical@25℃) **& Power**(VSWR=1.0; 40℃; 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)