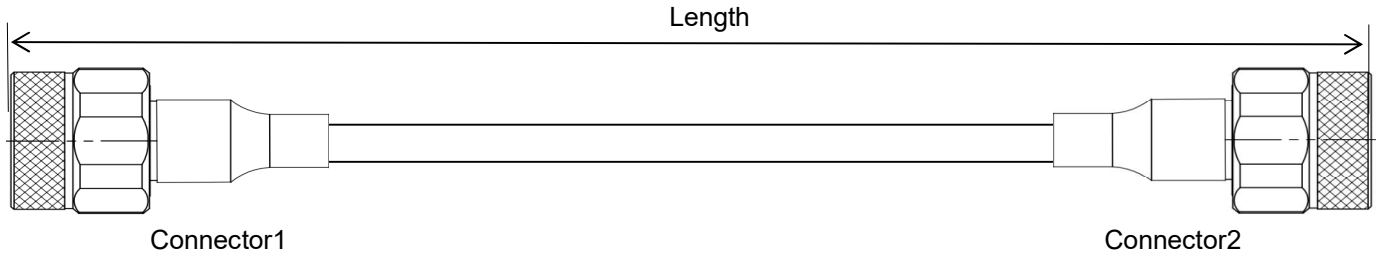


Economical Low Loss Flexible Cable Assembly, Using EL350

DC-18 GHz, N Male to N Male

EL350-NMNM-L(L:Length)

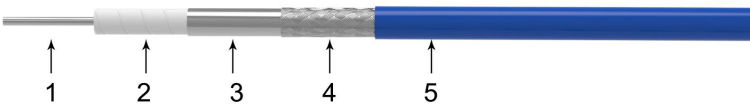


- Length can be in meter or in inch etc, e.g, EL350-NMNM-1M. Standard length tolerance: $\pm 1.5\%$. Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Configuration

Connector 1	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	EL350		

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	0.94	Solid silver plated copper
2	Dielectric	2.75	Low density PTFE
3	Outer Conductor	2.80	Aluminum foil wrap
4	Outer Shield	3.20	Silver-plated copper wire braid
5	Jacket	3.50	FEP



Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
VSWR Max	1.3
IL Max(1 meter assembly)	2.3dB
*Mechanical Phase Stability	$< \pm 8^\circ$
Amplitude Stability vs Shaking	$< \pm 0.1\text{dB}$

Mechanical & Environmental

Min. Bending Radius Static	14mm
Min. Bending Radius Repeated	35mm
Velocity of Propagation	76%
Temperature(Operation)	-50~85 $^\circ\text{C}$
Temperature(Storage)	-60~85 $^\circ\text{C}$

* Wrap the cable 360 degree around a mandrel whose diameter 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	700	1000	2000	6000	8000	10000	12000	14000	16000	18000
dB/100 Meter	20.9	32.1	38.6	55.1	97.6	113.6	128.0	141.1	153.3	164.8	175.7
Avg.Power kW	0.850	0.553	0.461	0.323	0.182	0.156	0.139	0.126	0.116	0.108	0.101
	K1=1.191839					K2=0.00088					
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 (EL350-NMNM-1M)

