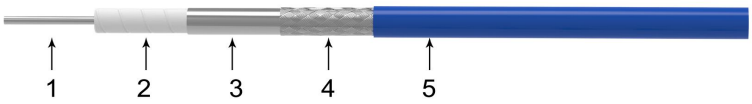
Economical Low Loss Flexible Cable

LE780 Rev3

Features & Benefits

- Attractive cost vs performance ratio
- Low Loss,high power handling
- Good amplitude stability vs flex
- Up to 13.5 GHz

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center conductor	2.3	Solid silver plated copper
2	Dielectric	6.6	Low density PTFE
3	Outer conductor	6.7	Aluminum foil wrap
4	Outer sheild	7.3	Silver-plated copper wire braid
5	Jacket	7.8	FEP

Electrical

Frequency	DC-13.5 GHz
Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	>90 dB
Withstanding Voltage	2000 V
Mechanical Phase Stability*	<±6º
Amplitude Stability vs Shaking	<±0.1dB

* Wrapped 360˚ around a 78mm radius mandrel.

Mechanical & Environmental

Min.Bending Radius Static	35mm
Min. Bending Radius Repeated	75mm
Weight	110g/m
Temperature(Operation)	-55～150 ºC
Temperature(Storage)	-60～160 ºC

Attenuation(Typical@25℃&VSWR=1.0) & Power(VSWR=1.0; 40℃; Sea level)

Frequency MHz	300	1000	2000	4000	5000	6000	8000	10000	12000	13000	13500
dB/100 Meter	8.2	15.4	22.4	32.7	37.1	41.1	48.5	55.2	61.4	64.4	65.9
Avg.Power kW	3.141	1.674	1.155	0.789	0.697	0.628	0.533	0.468	0.421	0.401	0.392

K1=0.459000 K2=0.000929

Attenuation at any frequency＝[K1×SQRT(FMHz)]+[K2×FMHz]

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
LE780	SMA	M/F	Straight	Standard	13.5	1.3
LE780	SMA	Male	Right Angle	Standard	13.5	1.35
LE780	N	M/F	Straight	Standard	13.5	1.3
LE780	N	Male	Right Angle	Standard	13.5	1.35
LE780	TNC	M/F	Straight	Standard	13.5	1.35
LE780	TNC	Male	Right Angle	Standard	13.5	1.35-1.4
LE780	DIN 7/16	M/F	Straight	Standard	6	1.3

Other connectors available upon request.