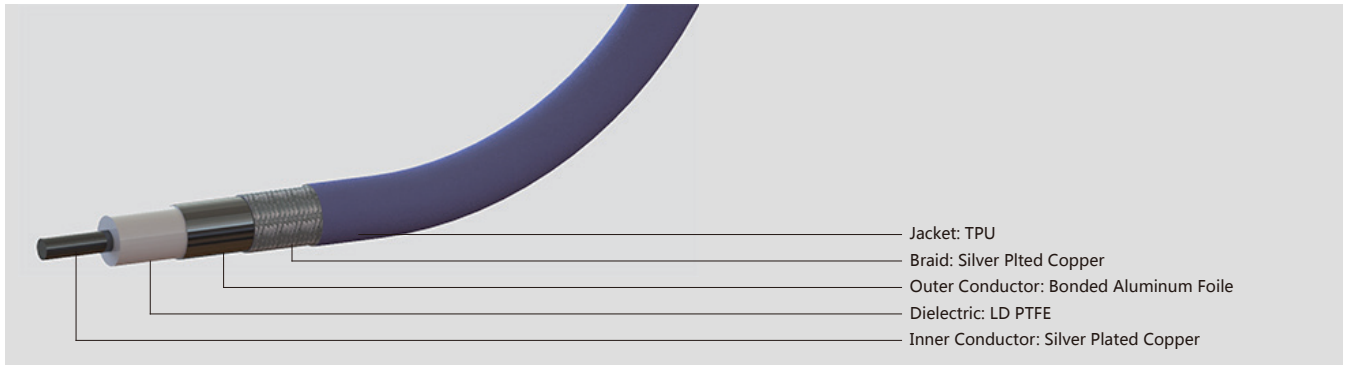


# EP Series Cable



### Application Field :

- Electronic countermeasures
- High power applications
- Base station
- Field test system
- Systems interconnections
- Wireless radio stations

### Characteristic :

- Excellent amplitude stability
- Low cost
- Fire retardant
- High temperature characteristics
- Good shield performance
- Good durability
- Good mechanical
- Good power handling capability

### Mechanical Characteristics

Cable Type	EP103		EP135		EP180		EP200	
	MM	INCH	MM	INCH	MM	INCH	MM	INCH
Inner Conductor	0.56	0.022	0.932	0.037	1.03	0.041	1.45	0.057
Dielectric	1.67	0.066	2.75	0.108	3.00	0.118	4.30	0.169
Outer Conductor	1.75	0.069	2.80	0.110	3.20	0.126	4.50	0.177
Braid	2.10	0.083	3.30	0.117	3.50	0.138	4.70	0.185
Jacket	2.60	0.103	3.80	0.149	4.50	0.177	5.10	0.200
Min. Static Bend Radius	12	0.472	15	0.591	15	0.591	18	0.709
Min. Dynamic Bend Radius	28	1.100	35	1.380	46	1.810	52	2.050
Weight	18 g/m		29 g/m		50 g/m		60 g/m	
Temperature Range(°C)	-55 to +85		-55 to +85		-55 to +85		-55 to +85	

### Electrical Characteristics

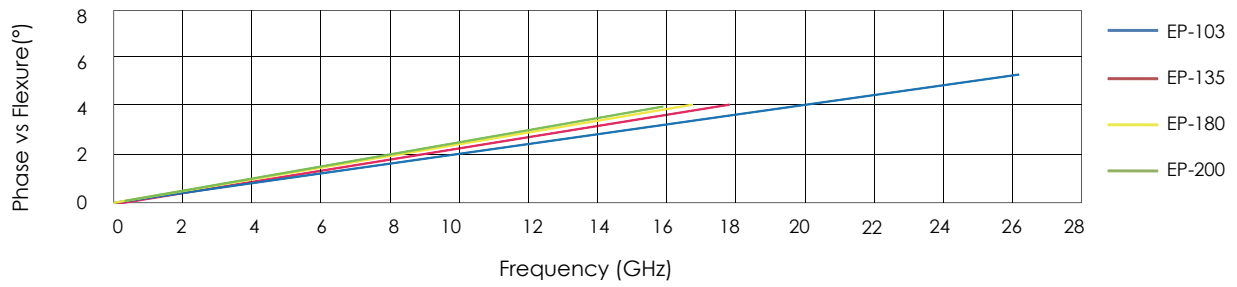
Cable Type	EP103	EP135	EP180	EP200
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Velocity of Propagation	76%	77%	76%	76%
Shielding Effectiveness	>90 dB	>90 dB	>90 dB	>90 dB
Delay Time	4.39 nS/m	4.39 nS/m	4.39 nS/m	4.39 nS/m
Capacitance	88 pF/m	85.5 pF/m	87 pF/m	89 pF/m
Inductance	0.22 uH/m	0.22 uH/m	0.22 uH/m	0.22 uH/m
Cut-off Frequency	65 GHz	40GHz	40GHz	18GHz
Dielectric withstanding voltage	500 VRMS	800 VRMS	1200 VRMS	2000 VRMS
Peak Power Rating	0.6KW	1.6KW	2.5KW	5.6KW

**Attenuation( @ 25°C ) & Average Power( @ 40 and Seal Level)**

Frequency(GHz)	EP103		EP135		EP180		EP200	
	dB/100m	W	dB/100m	W	dB/100m	W	dB/100m	W
0.5	42.32	144	29.0	656	25.0	809	20.0	1098
1.0	60.67	100	37.0	461	36.0	569	28.0	766
3.0	108.63	56	65.0	262	63.0	324	50.0	428
6.0	158.55	38	96.0	182	91.0	227	70.0	293
8.0	166.08	33	113.0	156	106.0	195	82.0	250
10.0	211.00	29	128.0	139	120.0	174	90.0	220
12.0	234.07	26	139.0	126	132.0	158	100.0	199
18.0	295.92	21	178.0	101	165.0	127	126.0	138
26.5	372.10	16	235.0	----	205.0	----	----	----
40.0	----	----	----	----	259.0	----	----	----

**Phase Stability vs Flexure**

Bent 360° @ Minimum Static Bending Radius



**Amplitude Stability**

Bent 360° @ Minimum Static Bending Radius

