

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	EP-103		EP-135		EP-180		EP-200	
	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

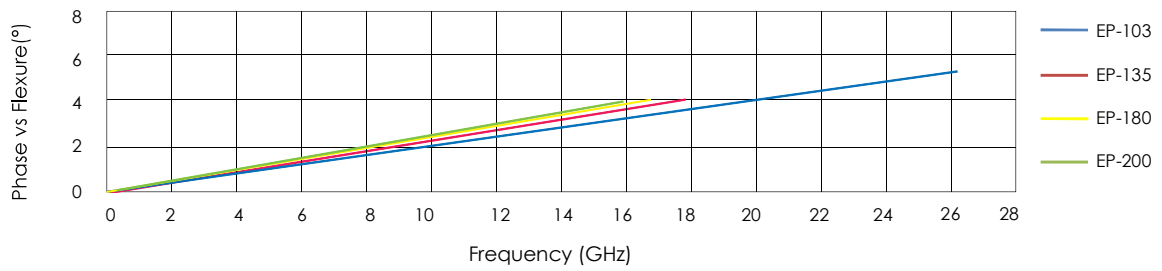
Cable Type	EP-103	EP-135	EP-180	EP-200
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Velocity of Propagation	76%	77%	76%	76%
Shielding Effectiveness	>90 dB	>90 dB	>90 dB	>90 dB
Delay Time	4.39 nS/m	4.39 nS/m	4.39 nS/m	4.39 nS/m
Capacitance	88 pF/m	85.5 pF/m	87 pF/m	89 pF/m
Inductance	0.22 uH/m	0.22 uH/m	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)	EP-103		EP-135		EP-180		EP-200	
	dB/100m	W	dB/100m	W	dB/100m	W	dB/100m	W
0.5	42.32	144	29.0	656	35.0	809	20.0	1098
1.0	60.67	100	37.0	461	50.0	569	28.0	766
3.0	108.63	56	65.0	262	90.0	324	50.0	428
6.0	158.55	38	96.0	182	128.0	227	70.0	293
8.0	166.08	33	113.0	156	150.0	195	82.0	250
10.0	211.00	29	128.0	139	170.0	174	90.0	220
12.0	234.07	26	139.0	126	192.0	158	100.0	199
18.0	295.92	21	178.0	101	240.0	127	126.0	138
26.5	372.10	16	235.0	----	----	----	----	----
40.0	----	----	----	----	----	----	----	----

Phase Stability vs Flexure

Bent 360° @ Minimum Static Bending Radius



Amplitude Stability

Bent 360° @ Minimum Static Bending Radius

