

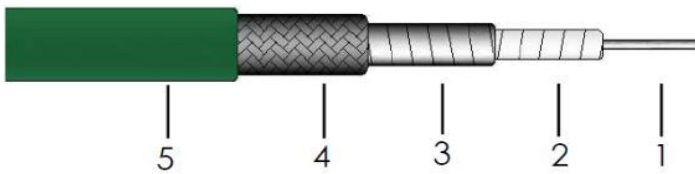
EB04 – Ultra Low Loss Flexible Cable

Model: EB04-xx-yy-zzM Connectors: k (f or m)

Attenuation (typ, at +25 °C; sea level) & RF Power (+40 °C; sea level)

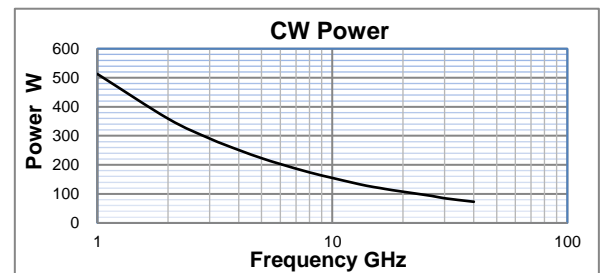
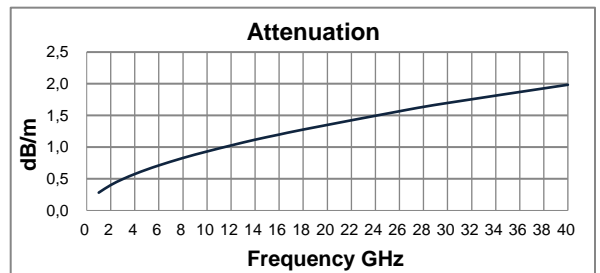
Frequency GHz	0.3	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation dB/m	0.15	0.28	0.40	0.50	0.58	0.65	0.71	0.83	0.93	1.03	1.12	1.20	1.28	1.58	1.70	1.98
CW Power W	945	513	359	291	251	223	203	174	155	140	128	120	113	93	85	73

Construction



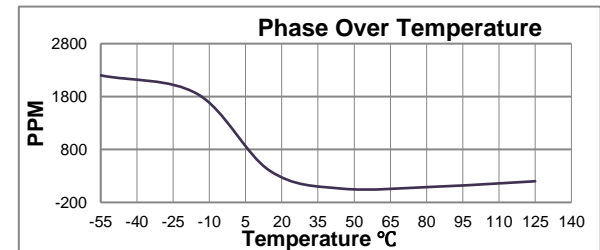
Description	Diameter	Material
1 Center Conductor	1.06 mm	Solid SPC
2 Dielectric	2.95 mm	LD PTFE
3 Outer Conductor	3.15 mm	SPC Strip
4 Outer Shield	3.55 mm	SPC Braid
5 Jacket	3.90 mm	FEP, dark green

SPC: silver plated copper Low Density PTFE, FEP: teflon



Mechanical & Environmental

Bend Radius: installation	20 mm
Bend Radius: repeated	40 mm
Weight	38 g/m
Operating Temperature	-55 ... +165 °C



Electrical

Impedance	50 Ω	Shielding Effectiveness	>90 dB
Velocity of Propagation	82%	Cut-Off Frequency	40 GHz
Delay Time	4.12 ns/m	Flex. Phase Stability*	±4° at 40 GHz
Capacitance	81 pF/m	Temp. Phase Stability	500 ppm at -55 ... +85 °C
Isolation Voltage	1200 V	Amplitude Stability*	<±0.1 dB/m at 40 GHz

* Phase and amplitude stability test method:
wrap the cable 360° around a mandrel with radius of 10 times the cable diameter

