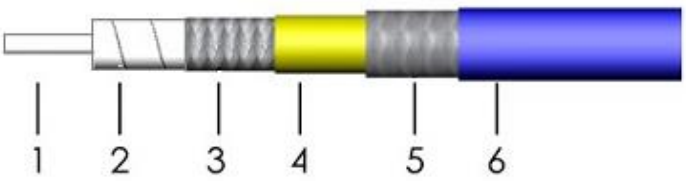
EA02 – Low Loss Flexible Cable

Model: EA02-xx-yy-zzM **Connectors:** N (f or m) and SMA (f or m or 90°m)

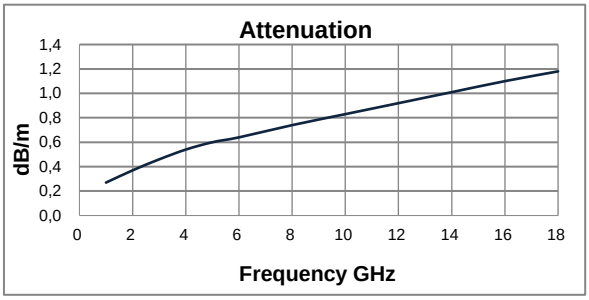
Attenuation & RF Power (+20 °C; sea level)

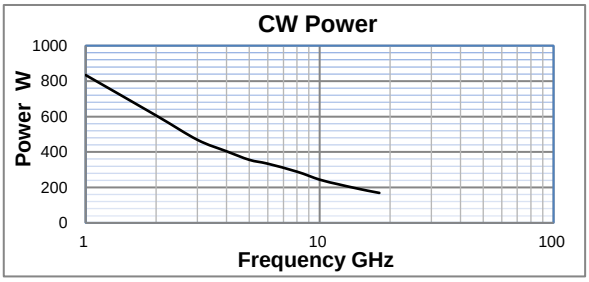
Frequency GHz	1	2	3	4	5	6	8	10	12	14	16	18
Attenuation dB/m	0.27	0.37	0.46	0.54	0.60	0.64	0.74	0.83	0.92	1.01	1.10	1.18
CW Power W	834	606	469	404	356	334	289	244	218	198	182	169

Construction



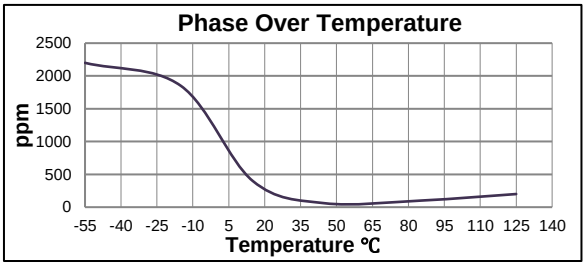
	Description	Diameter	Material
1	Center Conductor	1.29 mm	Solid SPC
2	Dielectric	3.68 mm	Expanded PTFE Tape
3	Outer Conductor	3.86 mm	SPC Strip
4	Interlayer	4.01 mm	Aluminium Polyester
5	Outer Shield	4.42 mm	SPC Braid
6	Jacket	4.95 mm	FEP
		SPC: silver plated copper	*PTFE, FEP: teflon*





Mechanical & Environmental

Bend Radius: installation	25.4 mm
Bend Radius: repeated	50.8 mm
Weight	65.5 g/m
Operating Temperature	-55 … +200 °C



Electrical

Impedance	50 Ω	Shielding Effectiveness	>95 dB
Velocity of Propagation	80%	Cut-Off Frequency	30 GHz
Delay Time	4.14 ns/m	Flex. Phase Stability*	±3.6° at 18 GHz
Capacitance	82 pF/m	Temp. Phase Stability	220 ppm at +22 … +125 °C
Isolation Voltage	2000 V	Amplitude Stability*	<±0.05 dB/m at 18 GHz

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