



Features	Applications
Operating frequency up to 26.5GHz	Avionics
Low loss	EW
High power	High-power transmission
Lower PIM:-155dBc	Wireless communication base station interconnect
Superior shielding effectiveness:>-90dB	RF, microwave device test
Operating temperature range: -55 C~ +200 °C	
High performance cost ratio	

Construction(mm)

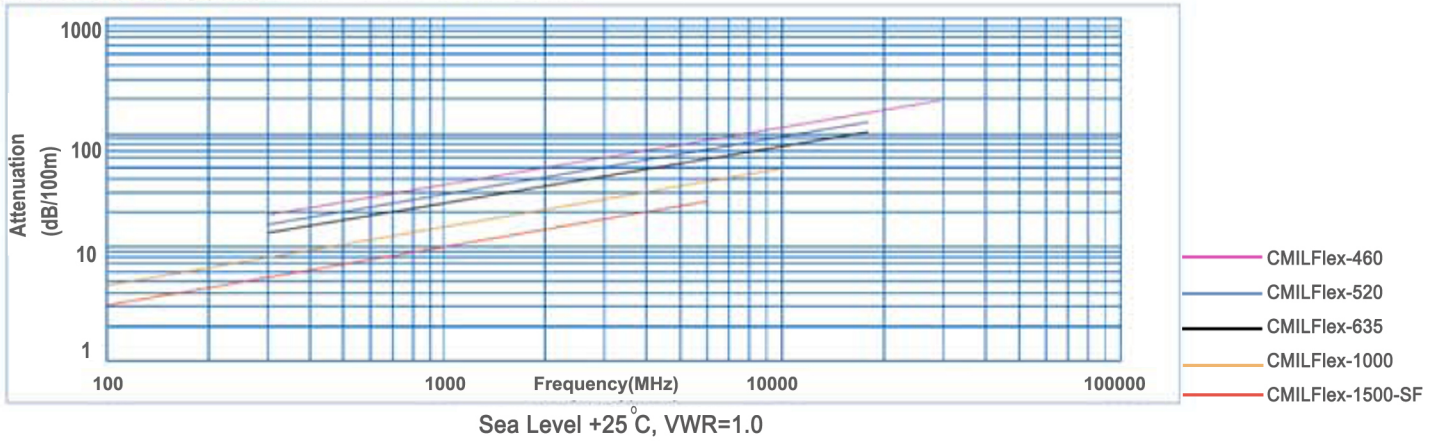
Structure	Material	CMILFlex-460	CMILFlex-520	CMILFlex-635	CMILFlex-1000	CMILFlex-1500-SF
Center Conductor	Silver Plated Copper	1.02	1.29	1.57	2.44	4.4(7 pcs)
Dielectric	LD PTFE	3.07	3.91	4.72	7.24	12.50
Outer Conductor	Silver Plated Copper Tape	3.27	4.15	4.96	7.48	12.82
Interlayer	Aluminum Tape	3.43	4.28	5.10	7.61	12.95
Overall Braid	Silver Plated Copper Braid	3.94	4.73	5.66	8.19	13.67
Jacket	FEP	4.60	5.20	6.35	9.30	15.30

Specifications

Specifications	CMILFlex-460	CMILFlex-520	CMILFlex-635	CMILFlex-1000	CMILFlex-1500-SF
Operating Frequency Range(GHz)	26.5	18	18	10	6
Impedance(Ohm)	50	50	50	50	50
Vp(%)	76	76	76	76	76
Shielding Effectiveness(dB)	>100	>100	>100	>100	>100
Voltage Withstand(V.DC)	1000	1000	2000	2500	4000
Bend Radius:(mm)	18.40	20.80	25.40	51.00	76.00
Bend Radius:repetitive(mm)	46.00	52.00	63.50	100.00	150.00
Weight(kg/m)	0.05	0.06	0.10	0.19	0.40
Operating Temperature Range (°C)	-55~+200	-55~+200	-55~+200	-55~+200	-55~+200

CERNEXWAVE CMILFLEX-Low Loss Flexible Coaxial Cable

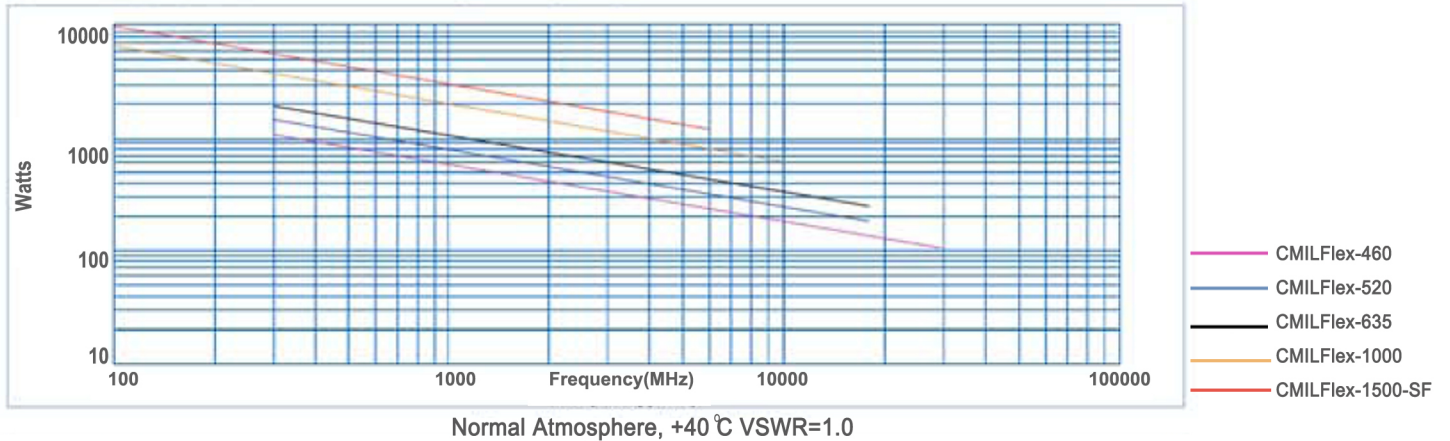
Attenuation VS. Frequency



Attenuation VS. Frequency(dB/100m)

Frequency	300	500	1000	3000	6000	8000	10000	12400	18000	26500
CMILFlex-460	19.22	24.89	35.37	62.03	88.78	103.16	115.97	129.90	158.35	194.93
CMILFlex-520	15.01	19.44	27.67	48.67	69.87	81.31	91.53	102.67	125.51	-
CMILFlex-635	12.00	15.56	22.18	39.17	56.43	65.79	74.18	83.35	102.23	-
CMILFlex-1000	7.91	10.27	14.71	26.23	38.15	44.70	59.61	-	-	-
CMILFlex-1500-SF	5.45	7.10	10.21	18.43	27.11	-	-	-	-	-

CW Power Handling VS. Frequency



CW Power Handling VS. Frequency(KW)

Frequency	300	500	1000	3000	6000	8000	10000	12400	18000	26500
CMILFlex-460	1.05	0.81	0.57	0.32	0.23	0.20	0.17	0.16	0.13	0.10
CMILFlex-520	1.38	1.07	0.75	0.43	0.30	0.26	0.23	0.20	0.17	-
CMILFlex-635	1.88	1.45	1.02	0.58	0.40	0.34	0.31	0.27	0.22	-
CMILFlex-1000	3.42	2.63	1.84	1.03	0.71	0.61	0.53	-	-	-
CMILFlex-1500-SF	5.89	4.52	3.14	1.74	1.18	-	-	-	-	-

Connectors

Cable	SMA-M	N-M	N-M90	TNC-M	TNC-M90	BNC-M	L16-M	L16-M90	7/16-M	7/16-M90	7/16-F
CMILFlex-460	x	x	-	x	-	-	-	-	-	-	-
CMILFlex-520	x	x	x	x	x	x	-	-	-	-	-
CMILFlex-635	x	x	x	x	x	x	x	x	-	-	-
CMILFlex-1000	-	x	-	-	-	-	-	-	x	-	x
CMILFlex-1500-SF	-	-	-	-	-	-	-	-	x	x	-