



Features	Applications
Operating frequency up to 40GHz	Phased array radar
Ultra Low loss	Avionics
Stable phase(<550PPM@55°C - +85°C)	EW
High power	Any low loss, phase stable application
Lower PIM:-155dBc	
Superior shielding effectiveness:>-90dB	
Light weight	

Construction(mm)

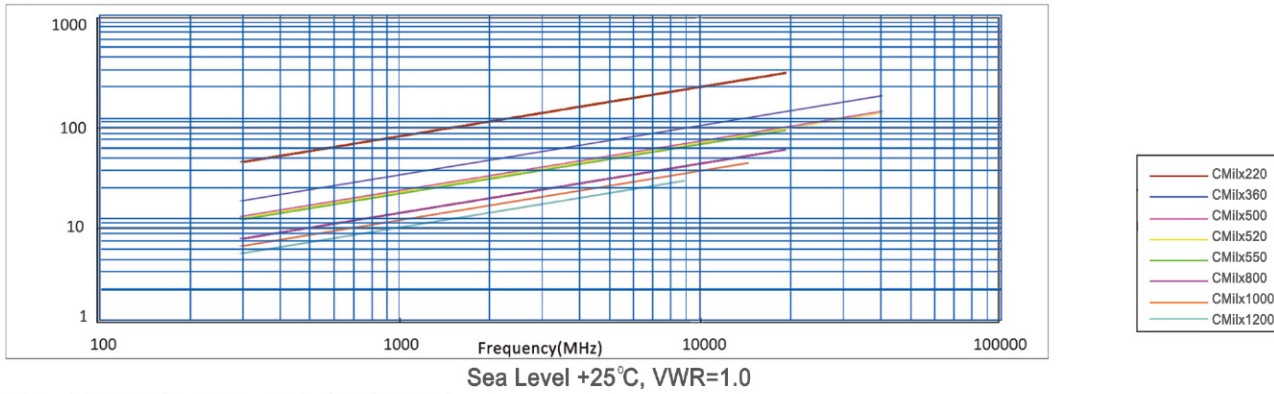
Structure	Material	CMilx-220	CMilx-360	CMilx-500	CMilx-520	CMilx-550	CMilx-800	CMilx-1000	CMilx-1200
Center Conductor	Silver Plated Copper	0.51	0.91	1.38	1.45	1.60	2.24	3.00	3.80
Dielectric	LD PTFE	1.38	2.50	3.71	3.99	4.30	6.10	8.30	10.40
Outer Conductor	Helical Silver Plated Copper Tape	1.58	2.66	3.91	4.19	4.50	6.30	8.54	
Overall Braid	Silver Plated Copper Braid	1.90	3.11	4.37	4.50	4.85	6.81	9.20	11.35
Jacket	FEP	2.20	3.60	4.88	5.10	5.40	7.65	10.00	12.00
	PVC							11.20	

Specifications

Specifications	CMilx-220	CMilx-360	CMilx-500	CMilx-520	CMilx-550	CMilx-800	CMilx-1000	CMilx-1200
Operating Frequency Range(GHz)	18	40	26.5	26.5	20	18	13.5	8
Impedance(Ohm)	50	50	50	50	50	50	50	50
Vp(%)	82%	83%	83%	83%	83%	83%	83%	83%
Shielding Effectiveness(dB)	>90	>90	>90	>90	>90	>90	>90	>90
Voltage Withstand(V.DC)	400	50	1000	1000	1000	2000	2900	4000
Bend Radius:(mm)	8.80	15.00	25.40	25.00	27.00	38.25	40.00	60.00
Bend Radius:repetitive(mm)	22.00	36.00	48.80	51.0	54.00	76.50	100.00	110.00
Weight(kg/m)	0.016	0.033	0.06	0.067	0.093	0.137	0.200	0.28
Operating Temperature Range (°C)	-55~+125	-55~+165	-55~+165	-55~+165	-55~+165	-55~+165	-55~+90	-55~+90

CERNEXWAVE CMILX-Ultra Low Loss, Phase & Amplitude Stable, Flexible Coaxial Cable

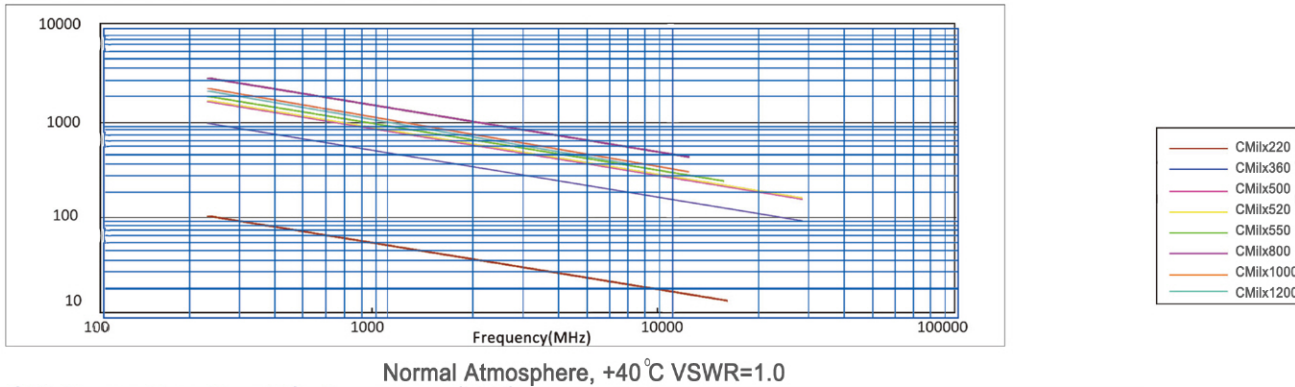
Attenuation VS. Frequency



Attenuation VS. Frequency(dB/100m)

Frequency	300	500	1000	3000	6000	8000	10000	12400	13500	18000	26500	40000
CMilx-220	34.60	44.80	63.70	111.90	160.40	186.50	209.80	235.20	246.10	287.10	-	-
CMilx-360	20.40	26.40	37.50	65.65	93.81	108.91	122.35	136.94	143.19	166.67	204.79	255.69
CMilx-500	13.20	17.09	24.30	42.65	61.09	71.01	79.86	89.48	93.61	109.15	134.49	-
CMilx-520	12.74	16.49	23.41	40.97	58.51	67.92	76.28	85.36	89.25	103.84	-	-
CMilx-550	12.30	15.90	22.60	39.70	57.00	66.30	74.50	83.60	87.40	102.00	-	-
CMilx-800	7.63	9.90	14.13	25.04	36.18	42.25	47.70	53.68	56.25	66.02	-	-
CMilx-1000	6.40	8.32	11.95	21.46	31.41	36.92	41.91	47.43	49.83	-	-	-
CMilx-1200	5.33	6.94	9.98	17.96	26.34	30.99	-	-	-	-	-	-

CW Power Handling VS. Frequency



CW Power Handling VS. Frequency(KW)

Frequency	300	500	1000	3000	6000	8000	10000	12400	13500	18000	26500	40000
CMilx-220	0.102	0.079	0.056	0.032	0.022	0.019	0.017	0.015	0.014	0.012	-	-
CMilx-360	0.94	0.72	0.51	0.29	0.20	0.18	0.16	0.14	0.13	0.12	0.09	-
CMilx-500	1.61	1.24	0.87	0.50	0.35	0.30	0.27	0.24	0.23	0.19	0.16	1.087
CMilx-520	1.68	1.31	0.92	0.53	0.37	0.32	0.28	0.25	0.24	0.21	-	-
CMilx-550	1.87	1.44	1.01	0.58	0.402	0.35	0.31	0.27	0.26	0.22	-	-
CMilx-800	3.33	2.57	1.80	1.02	0.70	0.60	0.53	0.47	0.45	0.39	-	-
CMilx-1000	3.18	2.44	1.70	0.95	0.65	0.55	0.49	0.43	0.41	-	-	-
CMilx-1200	3.14	2.41	1.68	0.93	0.64	0.54	-	-	-	-	-	-

Connectors

Cable	SMA-M	SMA-M90	N-M	N-M90	TNC-M	TNC-M90	SSMA-M	BNC-M	N-F	7/16-M90	SC-M	SMP-F	SMP-F90	2.92mm
CMilx-220	x	-	-	-	-	-	-	-	-	-	-	-	-	x
CMilx-360	x	x	x	-	-	-	x	-	-	-	-	-	-	x
CMilx-500	x	x	x	x	x	x	x	x	-	-	-	-	-	-
CMilx-800	x	x	x	x	x	-	-	-	-	-	-	-	-	-
CMilx-1000	-	-	x	x	x	-	-	-	-	x	x	-	-	-
CMilx-1200	-	-	x	-	-	-	-	-	-	-	-	-	-	-