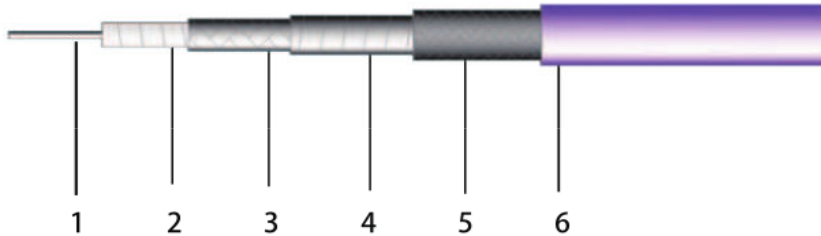


# MIB-250



High strength Phase RF Flexible cable



## Construction Specification

structure	Diameter(mm)	Materials
1.Inner Conductor	0.51	Silver Plated Copper
2.Dielectric	1.65	PTFE
3.Outer Conductor	1.82	Flat Silver Plated Copper Wrap
4.Interlayer	1.90	Silver Plated Copper
5.Out shielding	2.12	FEP
6.Jacket	2.50	

## Electrical Characteristics

Frequency(GHz)	DC to 40GHz
Impedance	50Ohm
Velocity(%)	70%
Shielding Efficiency(dB)	>90
Dielectric Constant	2.04
Cutoff Frequency(GHz)	61GHz
Voltage Withstanding(V)	1000 DC
Peak Power	0.6kw
Delay	4.76 nS/m
Capacitance	95.2 pF/m
Inductance	0.23 uH/m

## Mechanical Characteristics

Min.Bending Radius Static(mm)	10
Min.Bending Radius with Repeat (mm)	25
Weight (g/m)	18
Operating Temp.(°C)	-55 to 125

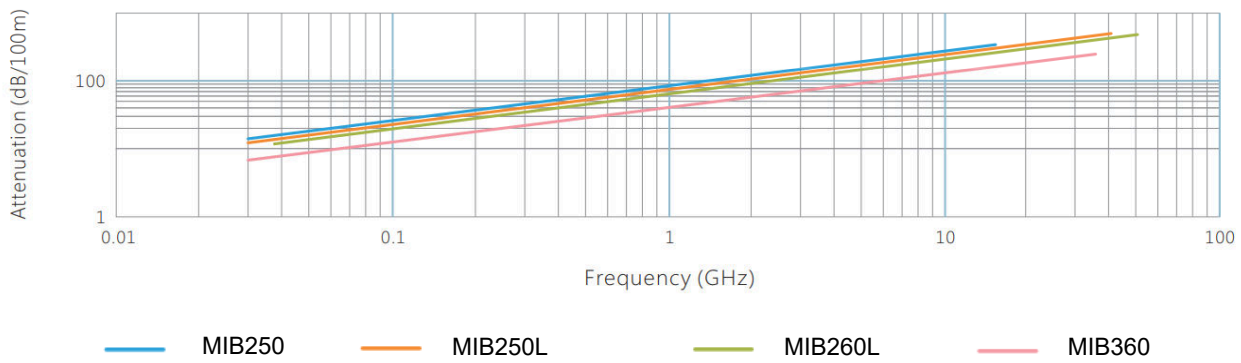
## Attenuation (@25°C&VSWR=1.0) and average power (@40°C&One standard atmosphere)

Frequency (MHz)	Attenuation (dB/100M)	Attenuation (dB/100F)	Average Power(KW)
30	14.17	4.32	0.605
50	18.31	5.58	0.468
100	25.94	7.91	0.331
300	45.09	13.75	0.190
500	58.36	17.79	0.147
900	78.59	23.96	0.109
1000	82.91	25.28	0.103
1500	101.90	31.07	0.084
2000	118.02	35.98	0.073
3000	145.26	44.29	0.059
4000	168.42	51.35	0.051
5000	188.99	57.62	0.045
6000	207.71	63.33	0.041
8000	241.23	73.55	0.036
10000	271.08	82.65	0.032
12000	298.31	90.95	0.029
12400	303.51	92.53	0.028
13500	317.41	96.77	0.027
15000	335.58	102.31	0.026
18000	369.65	112.70	0.023
24000	390.98	119.20	0.022
26500	454.58	138.59	0.019
35000	528.33	161.07	0.016
40000	568.16	173.22	0.015

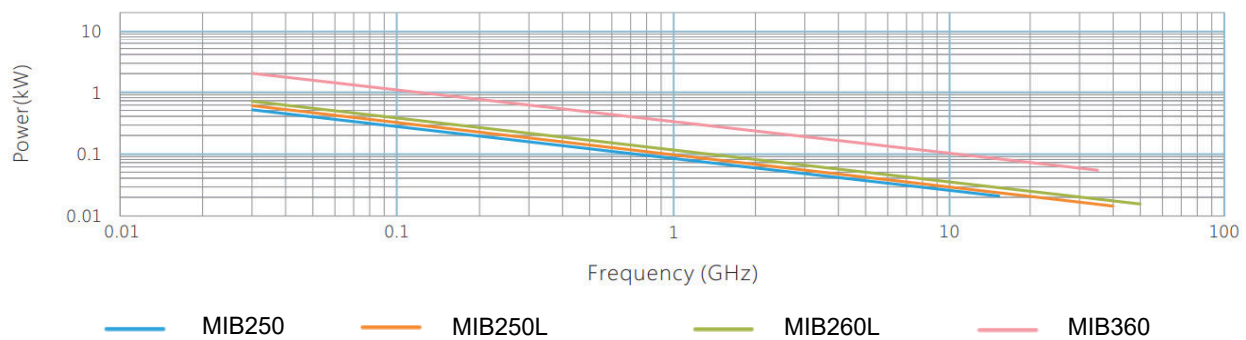
**Note:** K1=2.5808091, K2=0.0013000 Formulas: dB100 m =K1\* √ FMhz+K2\*FMHz

# Test Data

## Frequency & Attenuation

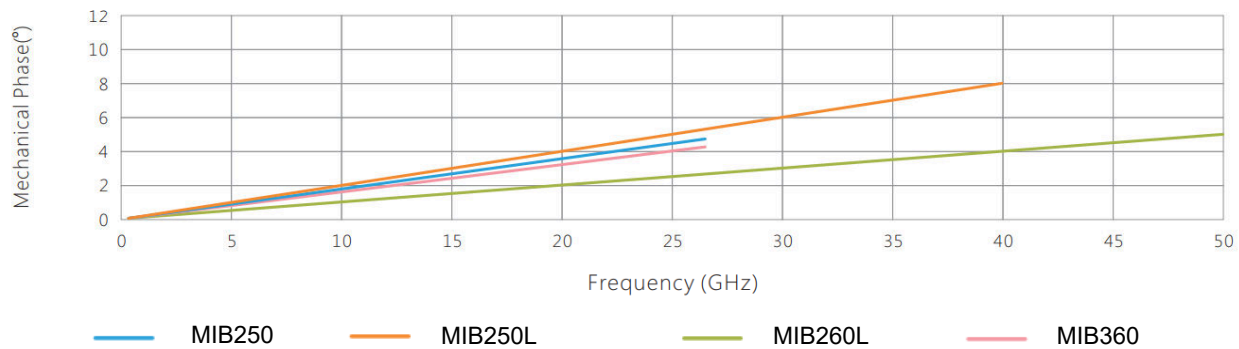


## Frequency & Power



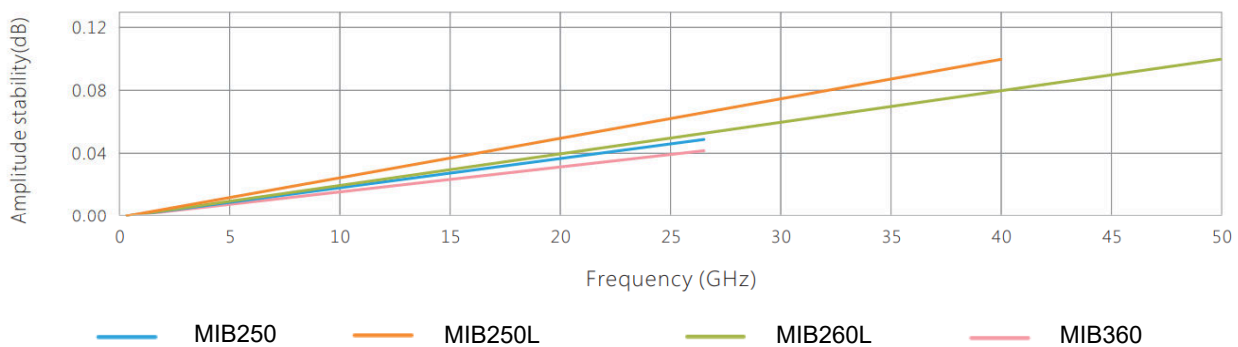
## Mechanical Phase Stability

(Rotate for one cycle along the minimum repeated bending diameter)



## Mechanical Amplitude Stability

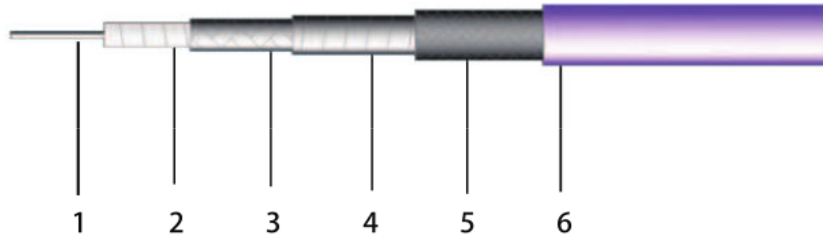
(Rotate for one cycle along the minimum repeated bending diameter)



# MIB-250L



High strength Phase RF Flexible cable



## Construction Specification

structure	Diameter(mm)	Materials
1.Inner Conductor	0.51	Silver Plated Copper
2.Dielectric	1.55	PTFE
3.Outer Conductor	1.71	Flat Silver Plated Copper Wrap
4.Interlayer	1.81	Silver Plated Copper
5.Out shielding	2.04	FEP
6.Jacket	2.50	

## Electrical Characteristics

Frequency(GHz)	DC to 40GHz
Impedance	50Ohm
Velocity(%)	74%
Shielding Efficiency(dB)	>90
Dielectric Constant	1.83
Cutoff Frequency(GHz)	61GHz
Voltage Withstanding(V)	500 DC
Peak Power	0.6kw
Delay	4.50 nS/m
Capacitance	90.2 pF/m
Inductance	0.22 uH/m

## Mechanical Characteristics

Min.Bending Radius Static(mm)	10
Min.Bending Radius with Repeat (mm)	25
Weight (g/m)	16
Operating Temp.(°C)	-55 to 165

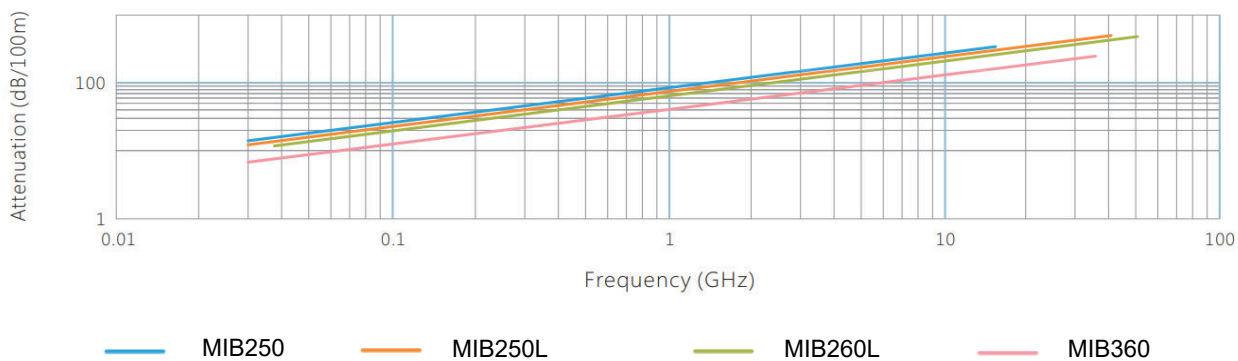
## Attenuation (@25°C&VSWR=1.0) and average power (@40°C&One standard atmosphere)

Frequency (MHz)	Attenuation (dB/100M)	Attenuation (dB/100F)	Average Power(KW)
30	12.27	3.74	0.606
50	15.86	4.84	0.469
100	22.48	6.85	0.331
300	39.13	11.93	0.190
500	50.69	15.45	0.147
900	68.36	20.84	0.109
1000	72.14	21.99	0.103
1500	88.78	27.07	0.084
2000	102.94	31.38	0.072
3000	126.93	38.70	0.059
4000	147.40	44.94	0.050
5000	165.63	50.50	0.045
6000	182.25	55.56	0.041
8000	212.12	64.67	0.035
10000	238.80	72.80	0.031
12000	263.22	80.25	0.028
12400	267.89	81.67	0.028
13500	280.39	85.49	0.027
15000	296.76	90.48	0.025
18000	327.53	99.86	0.023
24000	346.85	105.75	0.021
26500	404.68	123.38	0.018
35000	427.17	143.95	0.016
40000	508.80	155.12	0.015

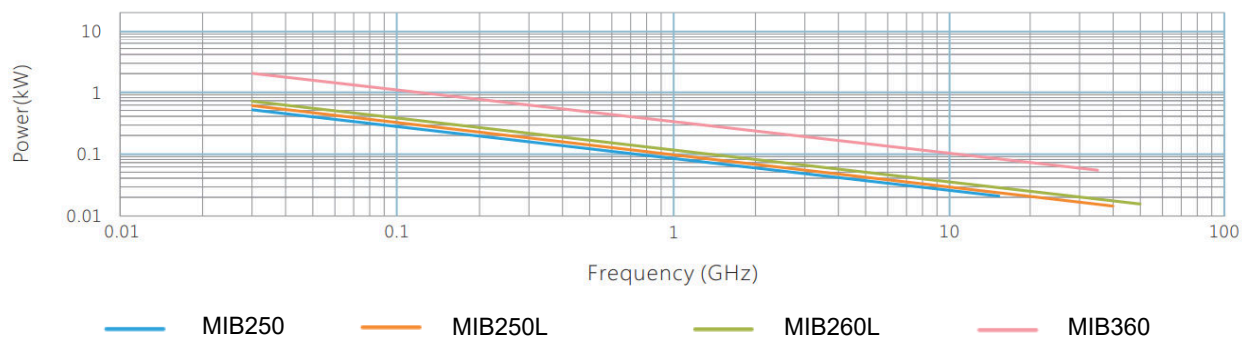
**Note:** K1=2.5808091, K2=0.0013000 Formulas: dB100 m =K1\* √ FMhz+K2\*FMHz

# Test Data

## Frequency & Attenuation

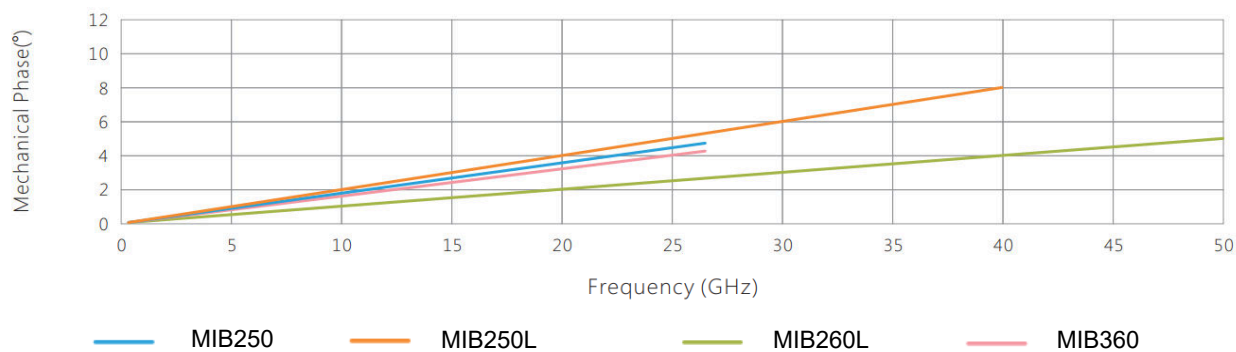


## Frequency & Power



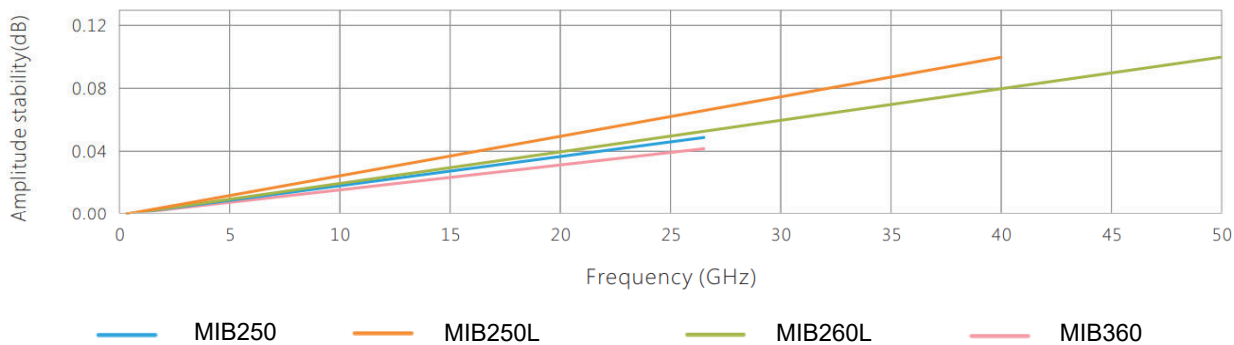
## Mechanical Phase Stability

(Rotate for one cycle along the minimum repeated bending diameter)



## Mechanical Amplitude Stability

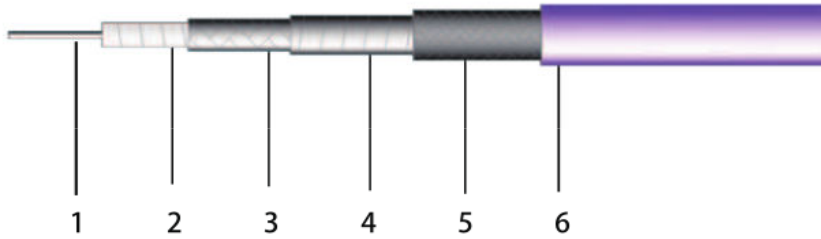
(Rotate for one cycle along the minimum repeated bending diameter)



# MIB-260L



High strength Phase RF Flexible cable



## Construction Specification

structure	Diameter(mm)	Materials
1.Inner Conductor	0.56	Silver Plated Copper
2.Dielectric	1.70	PTFE
3.Outer Conductor	1.85	Flat Silver Plated Copper Wrap
4.Interlayer	1.98	Silver Plated Copper
5.Out shielding	2.24	Stainless Steel Wire
6.Jacket	2.64	FEP

## Electrical Characteristics

Frequency(GHz)	DC to 50GHz
Impedance	50Ohm
Velocity(%)	76%
Shielding Efficiency(dB)	>90
Capacitance(Pf/M)	95
Cutoff Frequency(GHz)	61GHz
Voltage Withstanding(V)	500 DC
Peak Power	0.6kw
Delay	4.38 nS/m
Capacitance	87.7 pF/m
Inductance	0.22 uH/m

## Mechanical Characteristics

Min.Bending Radius Static(mm)	10.56
Min.Bending Radius with Repeat (mm)	26.4
Weight (g/m)	17
Operating Temp.(°C)	-55 to 165

## Attenuation (@25°C&VSWR=1.0) and average power (@40°C&One standard atmosphere)

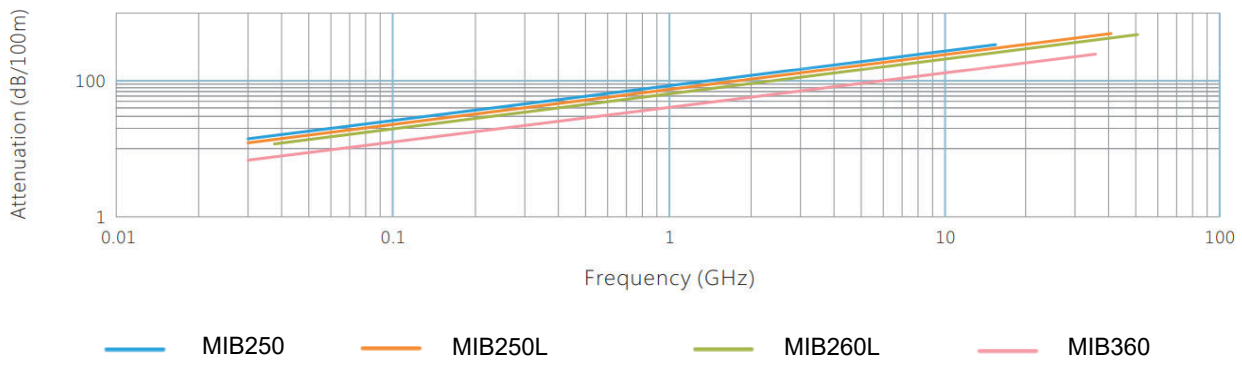
Frequency (MHz)	Attenuation (dB/100M)	Attenuation (dB/100F)	Average Power(KW)
30	10.23	3.12	0.606
50	13.22	4.03	0.469
100	18.73	5.71	0.331
300	32.61	9.94	0.190
500	42.24	12.88	0.147
900	56.97	17.37	0.109
1000	60.12	18.33	0.103
1500	73.99	22.56	0.084
2000	85.78	26.15	0.072
3000	105.78	32.25	0.059
4000	122.84	37.45	0.050
5000	138.02	42.08	0.045
6000	151.87	46.30	0.041
8000	176.76	53.89	0.035
10000	199.00	60.67	0.031
12000	219.35	66.88	0.028
12400	223.24	68.06	0.028
13500	233.66	71.24	0.027
15000	247.30	75.40	0.025
18000	272.95	83.21	0.023
24000	289.04	88.12	0.021
26500	337.24	102.82	0.018
35000	393.47	119.86	0.016
40000	424.00	129.27	0.015
50000	480.91	146.62	0.013

**Note:** K1=2.5808091, K2=0.0013000 Formulas: dB100 m =K1\* √ FMHz+K2\*FMHz

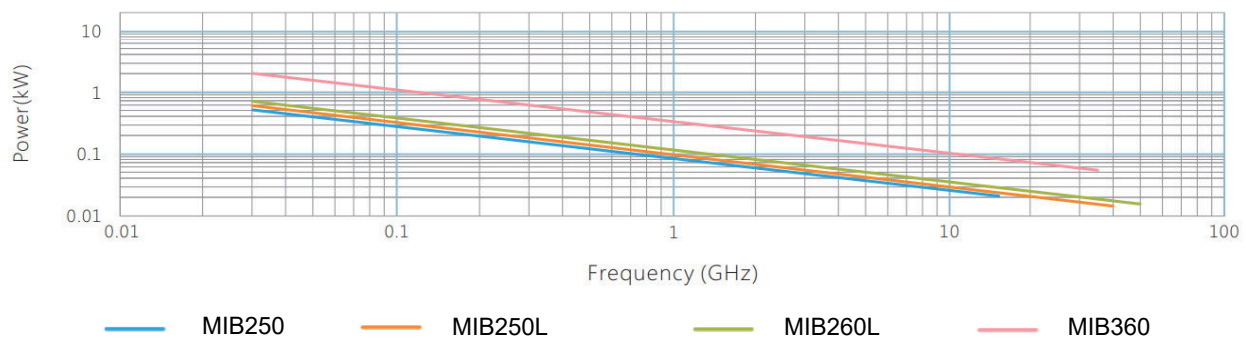


# Test Data

## Frequency & Attenuation

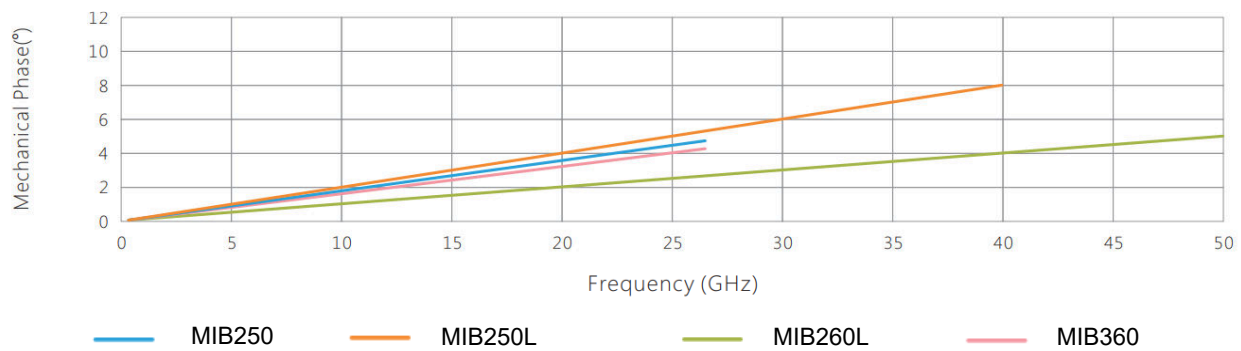


## Frequency & Power



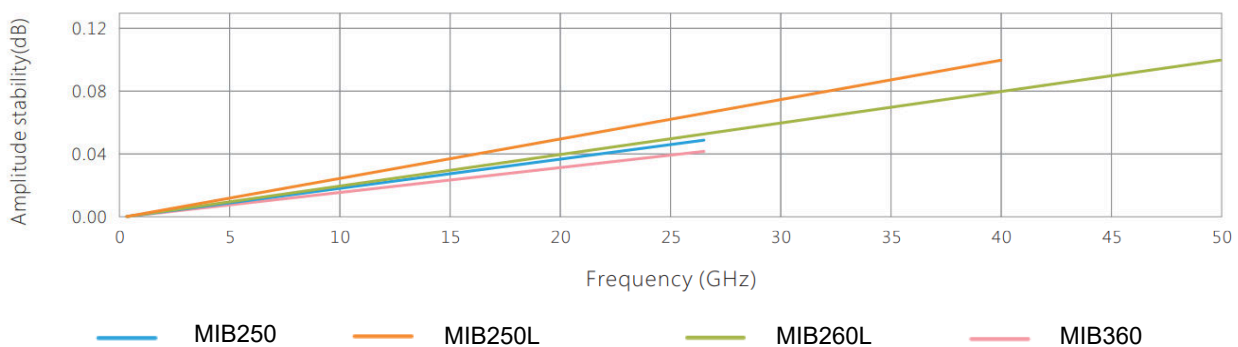
## Mechanical Phase Stability

(Rotate for one cycle along the minimum repeated bending diameter)



## Mechanical Amplitude Stability

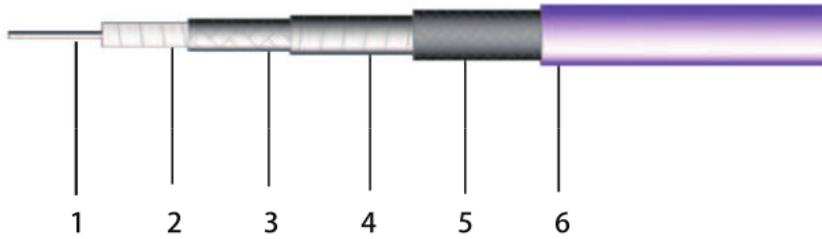
(Rotate for one cycle along the minimum repeated bending diameter)



# MIB-360



High strength Phase RF Flexible cable



## Construction Specification

structure	Diameter(mm)	Materials
1.Inner Conductor	0.91	Silver Plated Copper
2.Dielectric	2.72	PTFE
3.Outer Conductor	2.79	Flat Silver Plated Copper Wrap
4.Interlayer	2.95	Silver Plated Copper
5.Out shielding	3.20	Stainless Steel Wire
6.Jacket	3.61	FEP

## Electrical Characteristics

Frequency(GHz)	DC to 26.5GHz
Impedance	50Ohm
Velocity(%)	76%
Shielding Efficiency(dB)	>90
Dielectric Constant	1.73
Voltage Withstanding(V)	1500 DC
Peak Power	5.63kw
Delay	4.38 nS/m
Capacitance	87.7 pF/m
Inductance	0.20 uH/m

## Mechanical Characteristics

Min.Bending Radius Static(mm)	8.4
Min.Bending Radius with Repeat (mm)	36
Weight (g/m)	31
Operating Temp.(°C)	-55 to 165

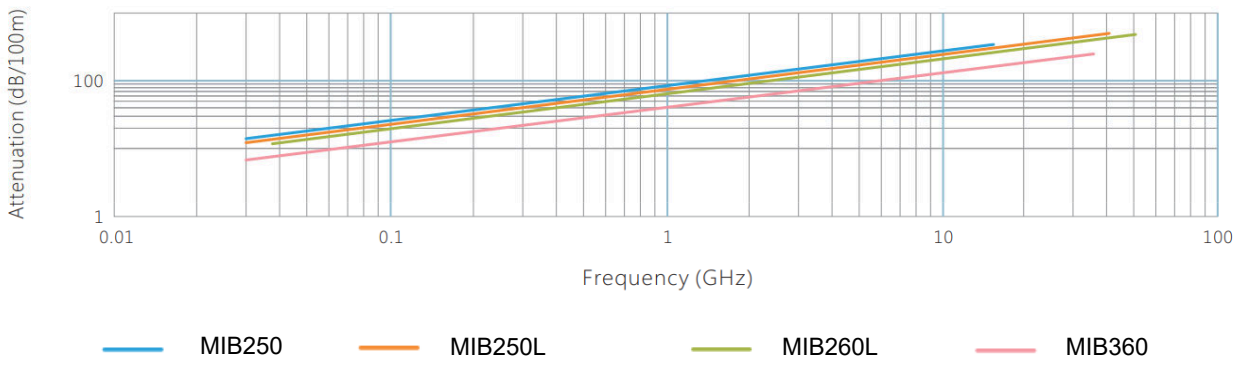
## Attenuation (@25°C&VSWR=1.0) and average power (@40°C&One standard atmosphere)

Frequency (MHz)	Attenuation (dB/100M)	Attenuation (dB/100F)	Average Power(KW)
30	6.80	2.07	2.027
50	8.79	2.68	1.569
100	12.45	3.79	1.108
300	21.64	6.60	0.637
500	28.01	8.54	0.492
900	37.73	11.50	0.365
1000	39.80	12.13	0.346
1500	48.93	14.92	0.282
2000	56.67	17.28	0.243
3000	69.76	21.27	0.198
4000	80.90	24.67	0.170
5000	90.79	27.68	0.152
6000	99.80	30.43	0.138
8000	115.94	35.35	0.119
10000	130.31	39.73	0.106
12000	143.42	43.73	0.096
12400	145.92	44.49	0.094
13500	152.62	46.53	0.090
15000	161.38	49.20	0.085
18000	177.80	54.21	0.078
24000	188.09	57.34	0.073
26500	218.77	66.70	0.063

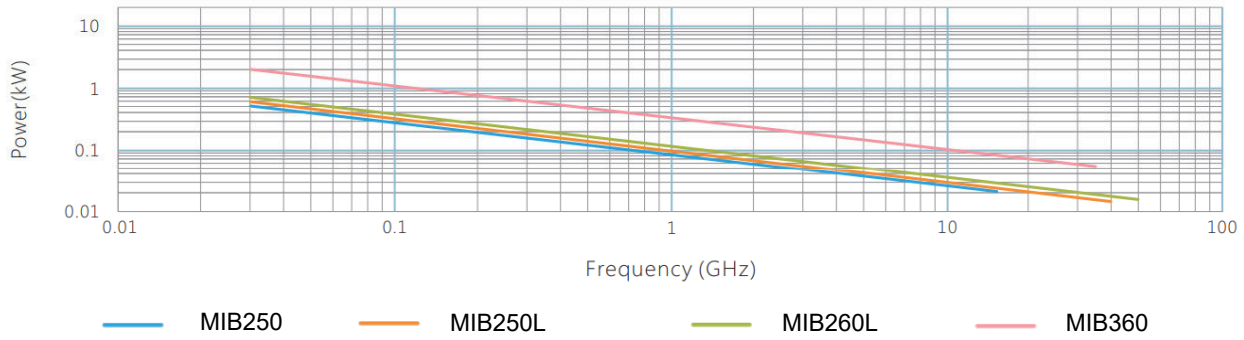
**Note:**  $K1=2.5808091$ ,  $K2=0.0013000$  Formulas:  $\text{dB100 m} = K1 * \sqrt{\text{FMHz}} + K2 * \text{FMHz}$

## Test Data

### Frequency & Attenuation

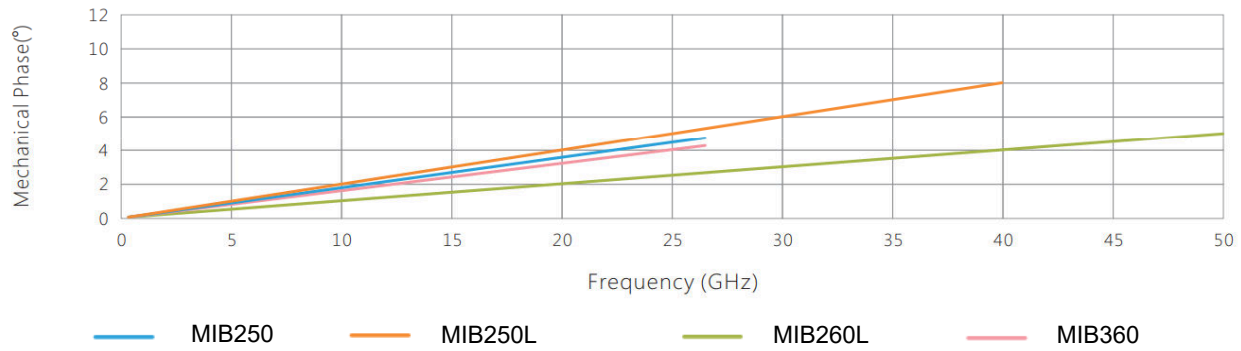


**Frequency & Power**



**Mechanical Phase Stability**

(Rotate for one cycle along the minimum repeated bending diameter)



**Mechanical Amplitude Stability**

(Rotate for one cycle along the minimum repeated bending diameter)

