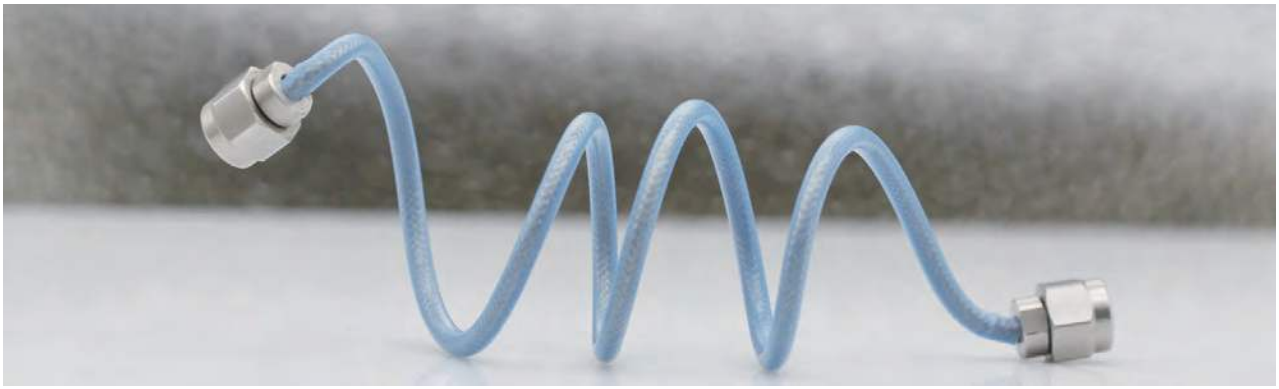
mBend Cable Assemblies
(2.92mm - 40 GHz)



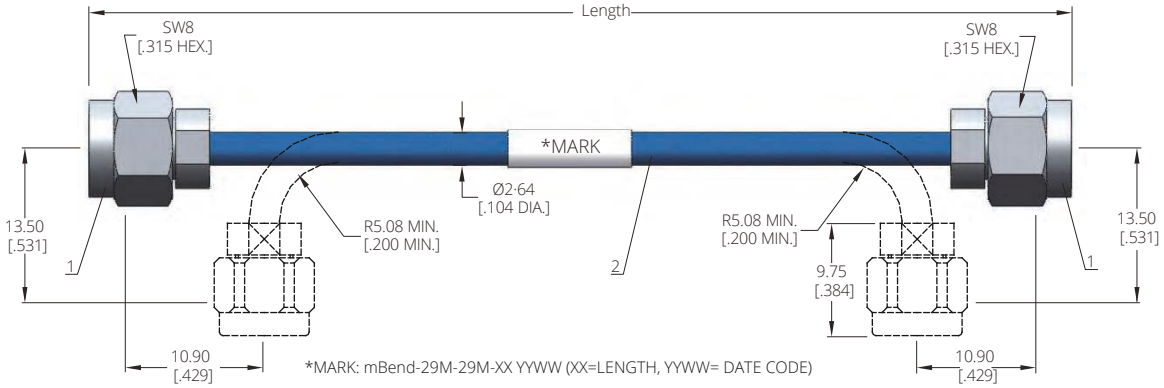
Anoison *mBend* cable assemblies address the need for low profile coaxial connections in systems where RF module interconnections have limited space and demand bending the cables immediately adjacent to the connectors.

The *mBend* cable assemblies consist of 75% velocity raw cable which has excellent VSWR, Insertion Loss, and Phase/Amplitude stability. The stainless steel braided, armored cable can sustain a pull strength of 20 lbs(9 kg). Working frequency up to 40 GHz with 2.92mm Connectors. And, all *mBend* cable assemblies are 100% tested before shipping.

mBend cable assemblies 26.5 GHz (SMA), 50 GHz (2.4mm) and 67 GHz (1.85mm) are also available.

P/N	Length* (Inches)	2 GHz		12.4 GHz		18 GHz		24 GHz		26.5 GHz		40 GHz	
		VSWR	IL (dB)	VSWR	IL (dB)	VSWR	IL (dB)	VSWR	IL (dB)	VSWR	IL (dB)	VSWR	IL (dB)
mBend-29M-29M-3	3	1.15:1	0.3	1.25:1	0.5	1.30:1	0.6	1.35:1	0.7	1.35:1	0.8	1.35:1	0.9
mBend-29M-29M-4	4	1.15:1	0.3	1.25:1	0.6	1.30:1	0.7	1.35:1	0.8	1.35:1	0.8	1.35:1	1.0
mBend-29M-29M-5	5	1.15:1	0.3	1.25:1	0.6	1.30:1	0.8	1.35:1	0.9	1.35:1	0.9	1.35:1	1.1
mBend-29M-29M-6	6	1.15:1	0.3	1.25:1	0.7	1.30:1	0.8	1.35:1	0.9	1.35:1	1.0	1.35:1	1.2
mBend-29M-29M-7	7	1.15:1	0.4	1.25:1	0.8	1.30:1	0.9	1.35:1	1.0	1.35:1	1.1	1.35:1	1.3
mBend-29M-29M-8	8	1.15:1	0.4	1.25:1	0.8	1.30:1	1.0	1.35:1	1.1	1.35:1	1.2	1.35:1	1.4
mBend-29M-29M-9	9	1.15:1	0.4	1.25:1	0.9	1.30:1	1.0	1.35:1	1.2	1.35:1	1.3	1.35:1	1.5
mBend-29M-29M-10	10	1.15:1	0.4	1.25:1	0.9	1.30:1	1.1	1.35:1	1.3	1.35:1	1.4	1.35:1	1.7
mBend-29M-29M-11	11	1.15:1	0.4	1.25:1	1.0	1.30:1	1.2	1.35:1	1.4	1.35:1	1.5	1.35:1	1.8
mBend-29M-29M-12	12	1.15:1	0.5	1.25:1	1.1	1.30:1	1.2	1.35:1	1.4	1.35:1	1.5	1.35:1	1.9
mBend-29M-29M-13	13	1.15:1	0.5	1.25:1	1.1	1.30:1	1.3	1.35:1	1.5	1.35:1	1.6	1.35:1	2.0
mBend-29M-29M-14	14	1.15:1	0.5	1.25:1	1.2	1.30:1	1.4	1.35:1	1.6	1.35:1	1.7	1.35:1	2.1
mBend-29M-29M-15	15	1.15:1	0.5	1.25:1	1.2	1.30:1	1.5	1.35:1	1.7	1.35:1	1.8	1.35:1	2.2
mBend-29M-29M-16	16	1.15:1	0.6	1.25:1	1.3	1.30:1	1.5	1.35:1	1.8	1.35:1	1.9	1.35:1	2.3
mBend-29M-29M-17	17	1.15:1	0.6	1.25:1	1.4	1.30:1	1.6	1.35:1	1.9	1.35:1	2.0	1.35:1	2.4
mBend-29M-29M-18	18	1.15:1	0.6	1.25:1	1.4	1.30:1	1.7	1.35:1	1.9	1.35:1	2.1	1.35:1	2.5
mBend-29M-29M-20	20	1.15:1	0.6	1.25:1	1.5	1.30:1	1.8	1.35:1	2.1	1.35:1	2.3	1.35:1	2.6
mBend-29M-29M-24	24	1.15:1	0.7	1.25:1	1.8	1.30:1	2.1	1.35:1	2.4	1.35:1	2.6	1.35:1	3.2
mBend-29M-29M-28	28	1.15:1	0.8	1.25:1	2.0	1.30:1	2.4	1.35:1	2.7	1.35:1	2.9	1.35:1	3.5
mBend-29M-29M-30	30	1.15:1	0.9	1.25:1	2.1	1.30:1	2.5	1.35:1	2.9	1.35:1	3.1	1.35:1	3.9
mBend-29M-29M-32	32	1.15:1	0.9	1.25:1	2.4	1.30:1	2.8	1.35:1	3.2	1.35:1	3.5	1.35:1	4.2
mBend-29M-29M-36	36	1.15:1	1.0	1.25:1	2.5	1.30:1	3.0	1.35:1	3.4	1.35:1	3.7	1.35:1	4.5
mBend-29M-29M-39.37	39.37	1.15:1	1.2	1.25:1	3.0	1.30:1	3.2	1.35:1	3.7	1.35:1	4.0	1.35:1	5.1
mBend-29M-29M-48	48	1.15:1	1.3	1.25:1	3.2	1.30:1	3.8	1.35:1	4.4	1.35:1	4.7	1.35:1	5.9

*We can offer custom cable assemblies of any specified length.



Electrical

Impedance	50 Ohms
Frequency	DC-40 GHz
VSWR	See Chart
Insertion Loss	See Chart
Amplitude Stability	<±0.15 @ 40 GHz (Bending radius 1in / 25.4 mm, 180 degrees)
Phase Stability vs Flexure (TYP.)	<±10° @ 40 GHz (Bending radius 1in / 25.4 mm, 180 degrees)
Dielectric Withstanding Voltage	750 V
Insulation Resisitance	1000 MΩ

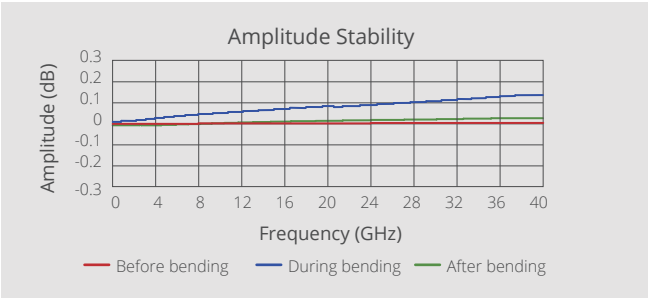
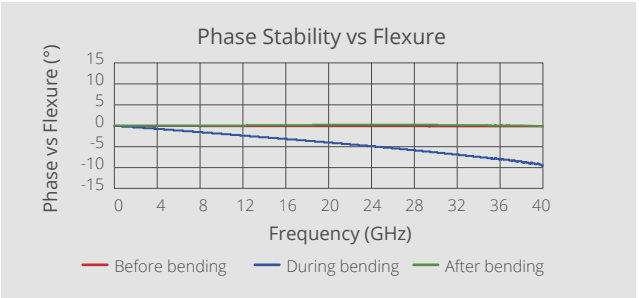
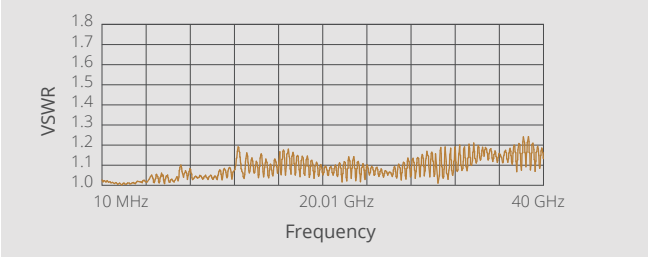
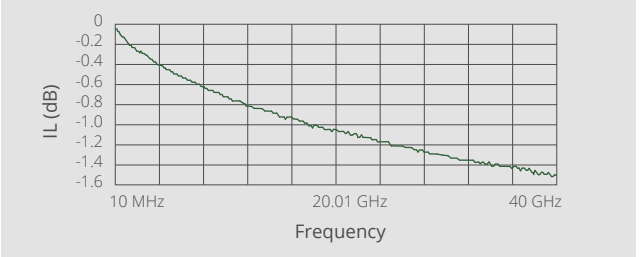
Mechanical

Min Bend Radius	Static: 0.20", Repeated: 0.40"
Pull Strength	20 lbs (9 kg) Min.
Durability	1000 cycles Min.

Environmental

Temperature	-55 C to +125 C

Material

Cable Center Conductor	Silver Plated Copper
Cable Outer Conductor	Silver Plated Copper Tape Braid
Cable Interlayer	Aluminum Thin
Cable Outer Shield	Outer Braid Stn. Stl
Cable Jacket	FEP
Dieletric	ePTFE
Connector Body & Nut	Passivated Stainless Steel
Connector Center Contact	Gold Plated Berllium Copper Alloy

Typical Test Curves *(mBend-29M-29M-15)*