

Minibend L

High performance/high pull strength, low loss microwave coaxial cable assembly

Product description

Minibend L is an enhanced, low loss version of the Minibend flexible coaxial cable assembly with increased phase stability and power handling capacity which is designed for use in low profile, internal, point-to-point interconnections between RF modules within communications systems. Minibend L replaces 0.086 inch custom semi-rigid cables with standard flexible cables providing 30 % lower attenuation and eliminating the need for predefined custom lengths and bend configurations. Minibend L provides you with a preassembled and tested high performance, cost-effective alternative in a variety of standard lengths.



Product features

- Impedance 50 Ω
- Applicable up to 50 GHz
- Direct replacement for 0.086 inch semi-rigid cables
- Stock delivery on standard lengths
- Microporous dielectric for 30 % lower insertion loss, improved phase stability and higher power handling

Recommended connectors

Minibend L	SMA, SSMA, SMP
	Other connectors available on request

Construction



Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Barrier ④	Outer braid ⑤	Jacket ⑥	Outer diameter mm
32024	CuAg wire	PTFE microporous	CuAg flat wire braid	aluminium/ polyimide tape	stainless steel	FEP	2.7

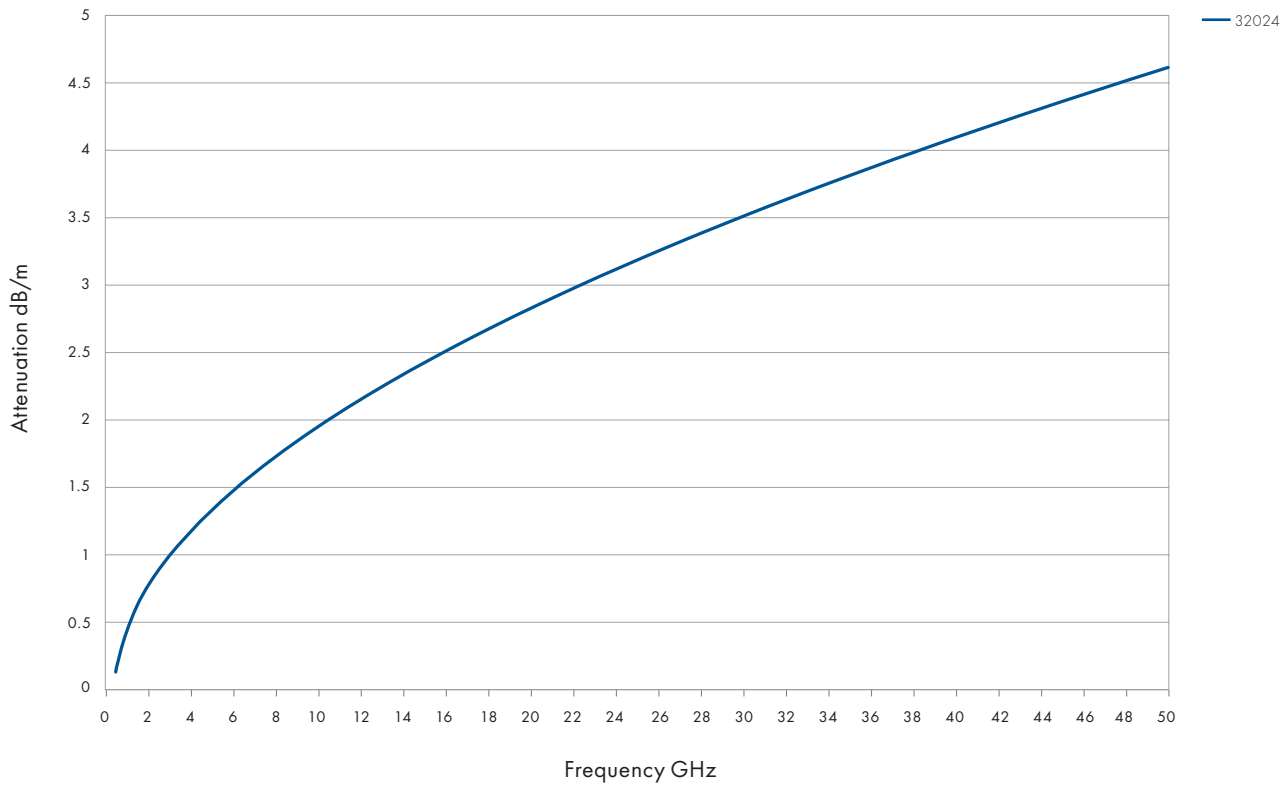
Technical data

Cable	Operating frequency GHz	Velocity %	Weight g/m	Min. bending radius for ± 180° mm	Temperature range ° C
32024	50	76.0	16.4	5.08	-55 to +200

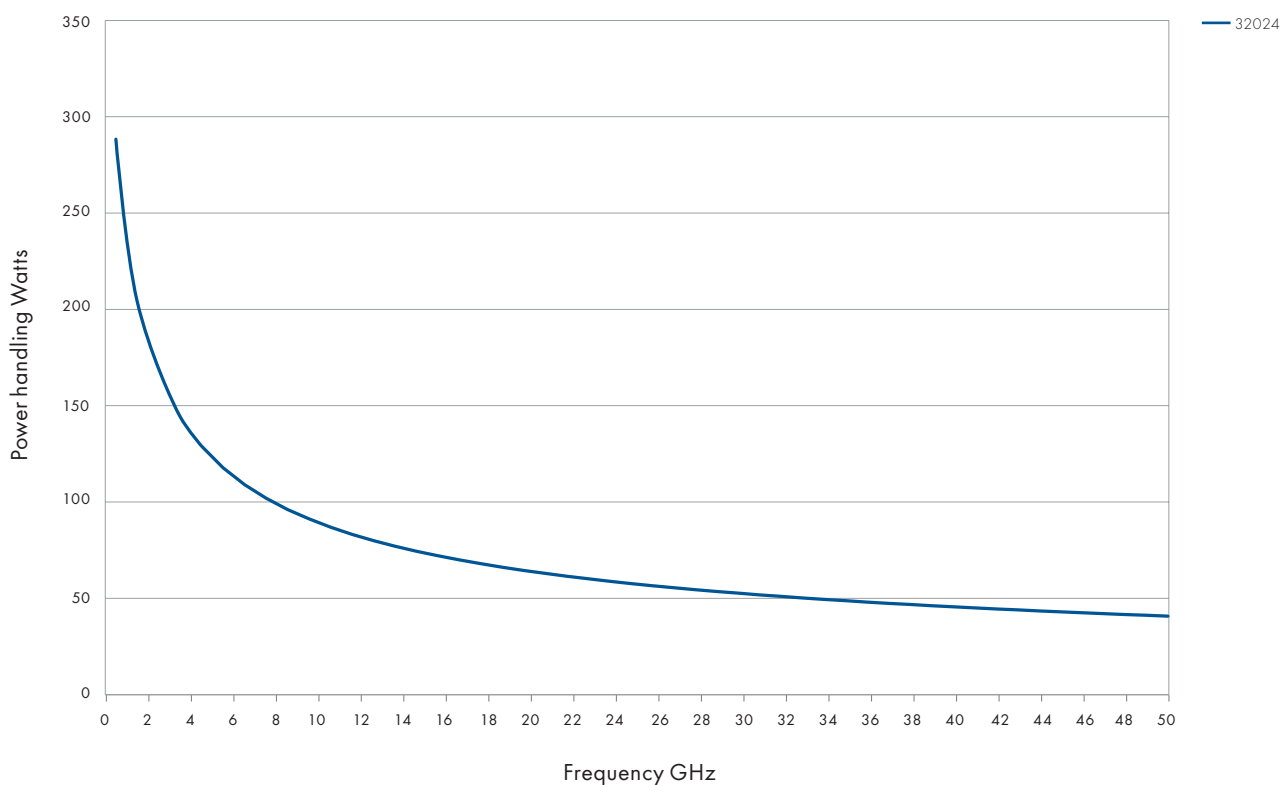
Assembly	Minibend L	Minibend LS	Minibend L2S	Minibend LA
Connector A	SMA (m)	SMA (m)	SMP (f)	SSMA (m)
Connector B	SMA (m)	SMP (f)	SMP (f)	SSMA (m)

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Attenuation (nominal values at +25 °C ambient temperature)



Power handling (maximum values at 25 °C ambient temperature and sea level)



Low profile assemblies

Minibend L

Minibend L is an enhanced, low loss version of the Minibend flexible coaxial cable assembly which is designed for use in low profile, internal, point-to-point interconnections between RF modules within communications systems. Minibend L eliminates the need for predefined custom lengths and bend configurations. Minibend L provides you with a preassembled and tested high performance, cost-effective alternative in a variety of standard lengths.

- Frequency range up to 26.5 GHz
- Precision stainless steel SMA plug connectors
- Ruggedised version available "R"



Length mm	Minibend L	Item no.	Minibend LR	Item no.
63.5	minibend L-2.5	80360176	minibend LR-2.5	80337368
76.2	minibend L-3	80337272	minibend LR-3	80337390
88.9	minibend L-3.5	80337273	minibend LR-3.5	80337392
101.6	minibend L-4	80337285	minibend LR-4	80337409
114.3	minibend L-4.5	80337286	minibend LR-4.5	80337412
127	minibend L-5	80337292	minibend LR-5	80337423
139.7	minibend L-5.5	80337293	minibend LR-5.5	80337427
152.4	minibend L-6	80337298	minibend LR-6	80337433
165.1	minibend L-6.5	80337299	minibend LR-6.5	80337435
177.8	minibend L-7	80337304	minibend LR-7	80337443
203.2	minibend L-8	80337313	minibend LR-8	80337449
228.6	minibend L-9	80337318	minibend LR-9	80337451
254	minibend L-10	80337198	minibend LR-10	80337344
279.4	minibend L-11	80337201	minibend LR-11	80337348
304.8	minibend L-12	80337202	minibend LR-12	80337351
330.2	minibend L-13	80337207	minibend LR-13	80337355
355.6	minibend L-14	80337209	minibend LR-14	80337356
381	minibend L-15	80337212	minibend LR-15	80337357
406.4	minibend L-16	80337213	minibend LR-16	80337358

Minibend LS

Minibend LS has all of the benefits of the original Minibend but with a microporous dielectric for lower loss and improved phase stability. The assembly contains a DSCC and MIL-STD-348 compliant SMP female connector on one end and an SMA plug connector on the other. Minibend LS replaces custom length and predefined 0.086 inch semi-rigid cables with flexible coax cable assemblies for use as internal, point-to-point interconnections between RF modules.

- Frequency range up to 26.5 GHz
- Precision stainless steel SMA plug connector
- Precision SMP female connector mateable with Corning Gilbert GPO®
- Ruggedised version available "R"



Length mm	Minibend LS	Item no.
63.5	minibend LS-2.5	80337463
76.2	minibend LS-3	80337464
88.9	minibend LS-3.5	80337465
101.6	minibend LS-4	80337466
114.3	minibend LS-4.5	80337467
127	minibend LS-5	80337468
139.7	minibend LS-5.5	80337469
152.4	minibend LS-6	80337470
165.1	minibend LS-6.5	80337471
177.8	minibend LS-7	80337475
203.2	minibend LS-8	80337477
228.6	minibend LS-9	80360501
254	minibend LS-10	80337455
279.4	minibend LS-11	80337456
304.8	minibend LS-12	80337457
330.2	minibend LS-13	80337458
355.6	minibend LS-14	80337459
381	minibend LS-15	80337460
406.4	minibend LS-16	80337461

Minibend L2S

Minibend L2S is the SMP female version of the original Minibend with a lower loss, microporous dielectric and DSCC and MIL-STD-348 compliant SMP female connectors on each end. Minibend L2S replaces custom length and bend configuration 0.086 inch semi-rigid cable with truly flexible coax cable assemblies for use as internal interconnections between RF modules.

- Frequency range up to 40 GHz
- Precision SMP female connector mateable with Corning Gilbert GPO®
- Ruggedised version available "R"



Minibend LA

Minibend LA is the SSMA plug version of the original Minibend with a microporous dielectric for lower loss and improved phase stability. Minibend LA replaces custom length and predefined bend configuration 0.086 inch semi-rigid cables with truly flexible coax cable assemblies for use as internal point-to-point interconnections between RF modules.

- Frequency range up to 40 GHz
- Precision stainless steel SSMA plug connectors
- Ruggedised version available "R"



Length mm	Minibend L2S	Item no.
63.5	minibend L2S-2.5	80337249
76.2	minibend L2S-3	80362626
88.9	minibend L2S-3.5	80367351
101.6	minibend L2S-4	80366004
114.3	minibend L2S-4.5	80337250
127	minibend L2S-5	80363891
139.7	minibend L2S-5.5	80337251
152.4	minibend L2S-6	80365111
165.1	minibend L2S-6.5	80367341
177.8	minibend L2S-7	80370924
203.2	minibend L2S-8	80366005
228.6	minibend L2S-9	80361796
254	minibend L2S-10	80362894
279.4	minibend L2S-11	80370911
304.8	minibend L2S-12	80365427
330.2	minibend L2S-13	80366870
355.6	minibend L2S-14	80366871
381	minibend L2S-15	80366872
406.4	minibend L2S-16	80337248

Length mm	Minibend L2S	Item no.
63.5	minibend LA-2.5	80370912
76.2	minibend LA-3	80366857
88.9	minibend LA-3.5	80370913
101.6	minibend LA-4	80366135
114.3	minibend LA-4.5	80370914
127	minibend LA-5	80370915
139.7	minibend LA-5.5	80370916
152.4	minibend LA-6	80366858
165.1	minibend LA-6.5	80365398
177.8	minibend LA-7	80370917
203.2	minibend LA-8	80366622
228.6	minibend LA-9	80366841
254	minibend LA-10	80370918
279.4	minibend LA-11	80370919
304.8	minibend LA-12	80370920
330.2	minibend LA-13	80370921
355.6	minibend LA-14	80370922
381	minibend LA-15	80370923
406.4	minibend LA-16	80365399