

Semi-rigid

The copper form stable microwave cable

Product description

The semi-rigid cable is unique in that it is easily bent to finished shape and still maintains its set after bending. This property makes it ideal for use with automated bending equipment as well as hand forming by bending tools.

Product features

- Impedance 50 Ω
- Applicable up to 67 GHz
- Excellent VSWR performance
- Easy to form, strip and solder, making for convenient installation
- Small sizes permit use in high-density areas



Recommended connectors

EZ_47	MMCX, MCX, SMA, SK
EZ_86	MCX, MMCX, SMA, PC3.5, SK, QMA, TNC, N
EZ_118	SK
EZ_141	SMA, PC3.5, QMA, TNC, N, QN
EZ_250	SMA, N, 7/16
	Other connectors available on request.

Construction



Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Outer Diameter mm	Screening effectiveness up to 18 GHz dB
EZ_47_TP_M17	StCuAg Wire	PTFE	CuSn tube	1.2	> 90
EZ_86_TP_M17	StCuAg Wire	PTFE	CuSn tube	2.2	> 90
EZ_118_TP	StCuAg Wire	PTFE	CuSn tube	3.0	> 90
EZ_141_TP_M17	StCuAg Wire	PTFE	CuSn tube	3.6	> 90
EZ_250_TP_M17	CuAg Wire	PTFE	CuSn tube	6.4	> 90

Other semi rigid cables available on request (e.g. other impedances, other conductor materials).
Standard form of bulk delivery = 100 ft coils (30.48 m), shorter lengths on request.

Technical data

Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight g/m	Min. bending radius		Temperature range °C
		GHz	%		static mm	repeated mm	
EZ_47_TP_M17	22810504	67	69.5	7.1	3.18	n/a	-40 to +100
EZ_86_TP_M17	22810175	67	69.5	24	3.18	n/a	-40 to +125
EZ_118_TP	22810073	40	80.0	34	9.53	n/a	-40 to +125
EZ_141_TP_M17	22810043	33	69.5	52	6.35	n/a	-40 to +125
EZ_250_TP_M17	22810705	18	69.5	158	19.0	n/a	-40 to +90

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Recommended connectors

EZ_47	MMCX, MCX, SMA, SK
EZ_86	MCX, MMCX, SMA, PC3.5, SK, QMA, TNC, N
EZ_118	SK
EZ_141	SMA, PC3.5, QMA, TNC, N, QN
EZ_250	SMA, N, 7/16
	Other connectors available on request.

Construction



Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Outer diameter	Screening effectiveness up to 18 GHz
				mm	dB
EZ_47_AL_TP_M17	StCuAg Wire	PTFE	AlSn tube	1.2	> 90
EZ_86_AL_TP_M17	StCuAg Wire	PTFE	AlSn tube	2.2	> 90
EZ_141_AL_TP_M17	StCuAg Wire	PTFE	AlSn tube	3.6	> 90
EZ_250_AL_TP_M17	CuAg Wire	PTFE	AlSn tube	6.4	> 90

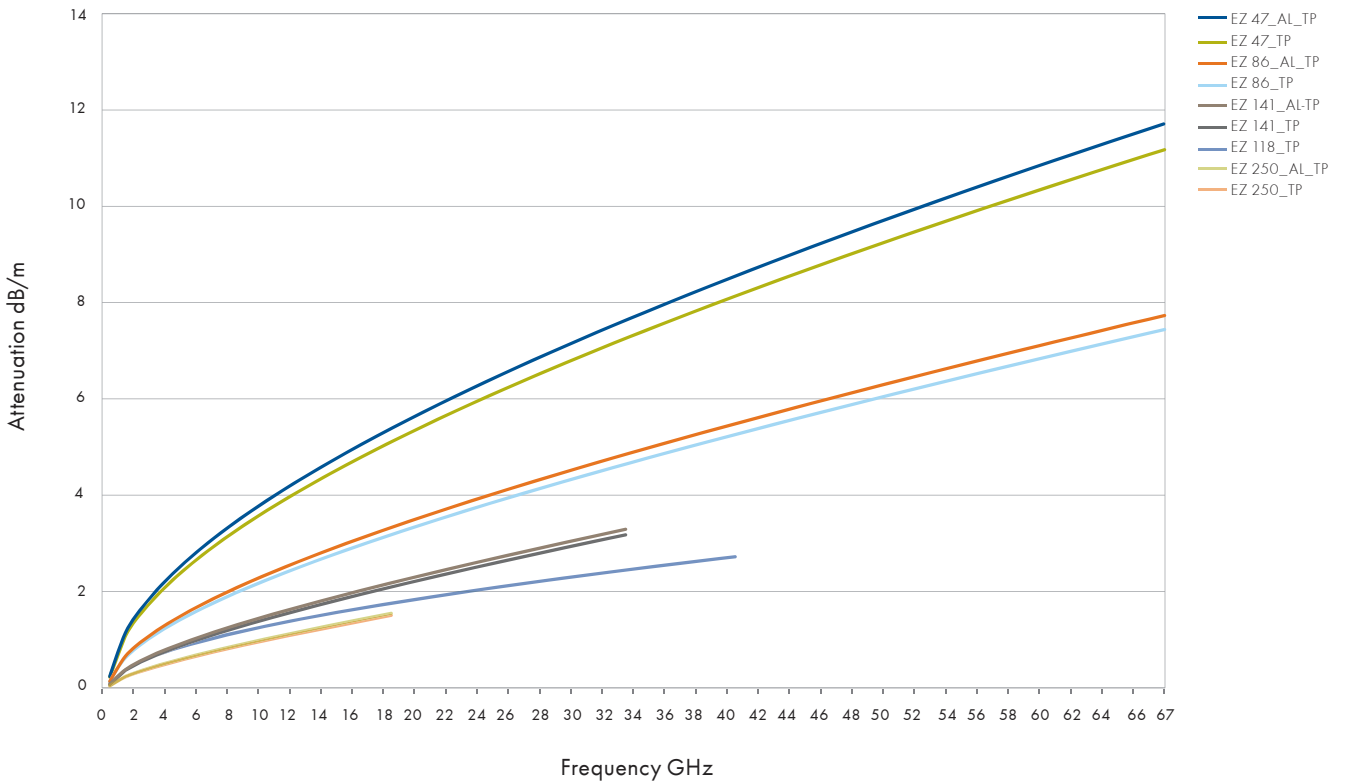
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Technical data

Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radius		Temperature range
		GHz	%		static mm	repeated mm	
EZ_47_AL_TP_M17	22810510	67	69.5	3.1	1.27	n/a	-40 to +100
EZ_86_AL_TP_M17	22810167	67	69.5	11.9	1.78	n/a	-40 to +125
EZ_141_AL_TP_M17	22810015	33	69.5	30.5	3.18	n/a	-40 to +125
EZ_250_AL_TP_M17	22810708	18	69.5	88.6	19.0	n/a	-40 to +90

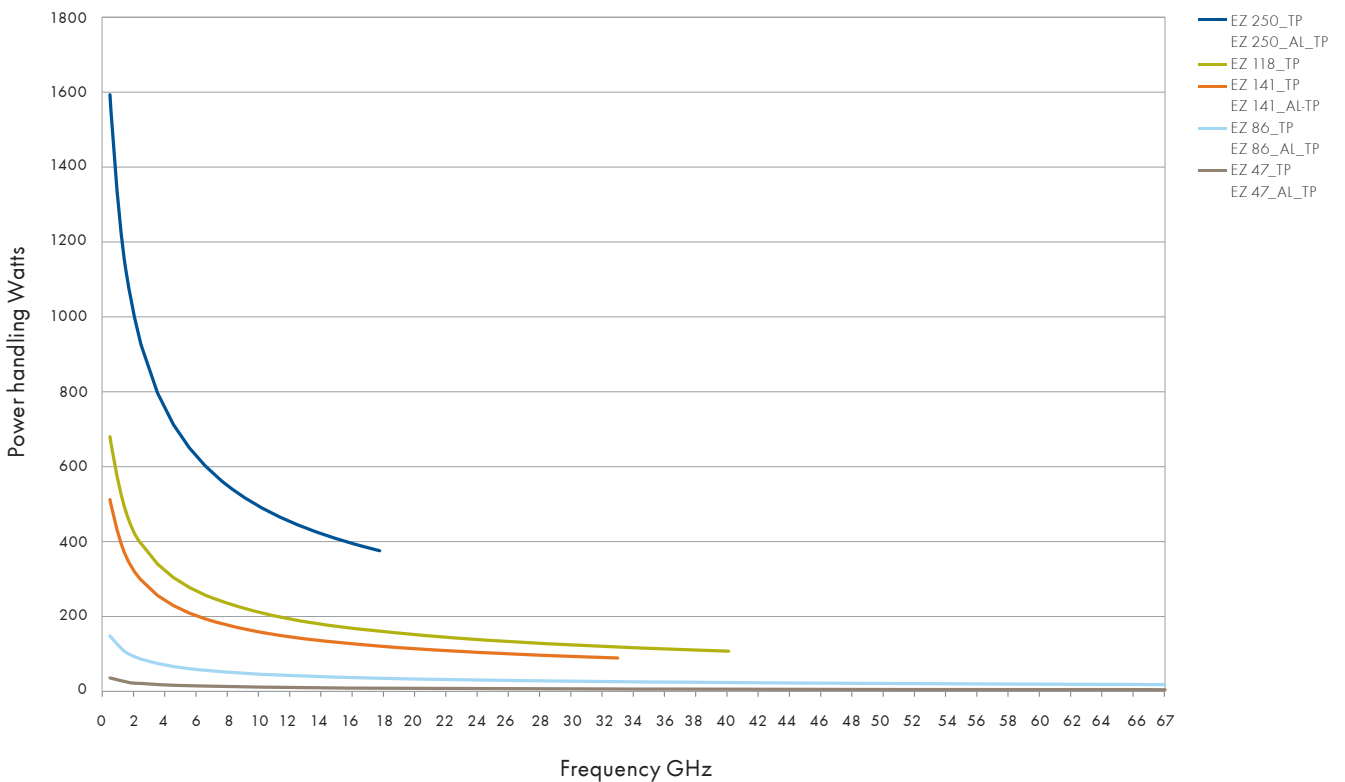
Semi-rigid

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



Formstable assemblies

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



Semi-rigid

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency GHz	Item no.
MCX	straight cable plug	11_MCX-50-1-14/111_NE	EZ_47	6	23032081
	right angle cable plug	16_MCX-50-1-11/111_NE		6	23024700
	straight panel bulkhead cable jack	24_MCX-50-1-3/111_NE		6	22641648
MMCX	straight cable plug	11_MMCX-50-1-3/111_OE	EZ_47	6	22648893
	right angle cable plug	16_MMCX-50-1-4/111_OE		6	22649182
SK	straight cable plug	11_SK-50-1-2/119_NE	EZ_47	40	84013232
SMA	straight cable plug	11_SMA-50-1-53/119_NH	EZ_47	18	23013327
	right angle cable plug	16_SMA-50-1-97/19_NE		18	23024708
	straight cable jack	21_SMA-50-1-2/111_NE		18	22642386
	straight panel bulkhead cable jack	24_SMA-50-1-6/111_YH		18	23025035
MCX	straight cable plug	11_MCX-50-2-19/111_NE	EZ_86	6	23024699
	right angle cable plug	16_MCX-50-2-104/111_NH-1		6	23032067
	right angle cable plug	16_MCX-50-2-104/111_NH		6	22658277
	straight panel bulkhead cable jack	24_MCX-50-2-3/111_NE		6	22543580
MMCX	straight cable plug	11_MMCX-50-2-1/111_OE	EZ_86	6	22649039
	right angle cable plug	16_MMCX-50-2-1/111_OE		6	22645957
	straight cable jack	21_MMCX-50-2-1/111_OE		6	22645290
	straight panel bulkhead cable jack	24_MMCX-50-2-1/111_OE		6	22645954
N	straight cable plug	11_N-50-2-15/113_UE	EZ_86	18	22660315
	right angle cable plug	16_N-50-2-9/13_UH		11	23013729
	straight cable jack	21_N-50-2-14/133_NE		18	22642666
	straight panel bulkhead cable jack	24_N-50-2-14/133_NE		18	22544637
PC3.5	straight cable plug	11_PC35-50-2-4/199_UE	EZ_86	33	84009440
	straight cable jack	21_PC35-50-2-4/199_UE		33	84009419
	straight panel bulkhead cable jack	24_PC35-50-2-2/199_UE		33	84009405
QMA	straight cable plug	11_QMA-50-2-3/133_NE	EZ_86	6	23017704
	right angle cable plug	16_QMA-50-2-3/133_NE		6	23017666
	straight panel bulkhead cable jack	24_QMA-50-2-1/111_NE		6	23017742
SK	straight cable plug	11_SK-50-2-56/119_NE	EZ_86	40	84013230
SMA	straight cable plug	11_SMA-50-2-15/111_NE	EZ_86	18	22544545
	straight cable plug	11_SMA-50-2-110/133_NE		18	84130715
	right angle cable plug	16_SMA-50-2-43/133_NE		18	22641953
	right angle cable plug	16_SMA-50-2-100/199_NH		26.5	23018813
	straight cable jack	21_SMA-50-2-15/111_NE		18	22544549
	straight panel bulkhead cable jack	24_SMA-50-2-15/111_NE		18	22544532
	straight panel bulkhead cable jack	24_SMA-50-2-41/133_NE		18	22641381
TNC	straight cable plug	11_TNC-50-2-20/103_NE	EZ_86	11	22642519
	straight panel bulkhead cable jack	24_TNC-50-2-31/133_NE		11	23001721

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Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency GHz	Item no.
SK	straight cable plug	11_SK-50-2-51/119_NE	EZ_118	40	22645972
	straight cable jack	21_SK-50-2-51/199_NE		40	22645973
	straight panel bulkhead cable jack	24_SK-50-2-55/1--_NE		40	84016419
N	straight cable plug	11_N-50-3-13/113_NE	EZ_141	11	22542083
	straight cable plug	11_N-50-3-51/133_NE		18	22543919
	right angle cable plug	16_N-50-3-15/133_NE		11	22648832
	straight cable jack	21_N-50-3-51/19--_NE		18	22543922
	straight panel bulkhead cable jack	24_N-50-3-51/19--_NE		18	22642344
PC3.5	straight cable plug	11_PC35-50-3-4/199_UE	EZ_141	33	84009380
	straight cable jack	21_PC35-50-3-3/199_UE		33	84009382
	straight panel bulkhead cable jack	24_PC35-50-3-2/199_UE		33	84009383
QMA	straight cable plug	11_QMA-50-3-3/133_NE	EZ_141	6	23017695
	right angle cable plug	16_QMA-50-3-3/133_NE		6	23017693
	straight panel bulkhead cable jack	24_QMA-50-3-3/111_NE		6	23017683
QN	straight cable plug	11_QN-50-3-3/113_NE	EZ_141	11	23033393
	right angle cable plug	16_QN-50-3-3/13--_NE		11	23033268
	straight panel bulkhead cable jack	24_QN-50-3-3/13--_NE		11	23033423
SMA	straight cable plug	11_SMA-50-3-77/119_NH	EZ_141	18	84005524
	straight cable plug	11_SMA-50-3-235/133_NE		18	84130698
	right angle cable plug	16_SMA-50-3-3/111_NE		18	22640073
	right angle cable plug	16_SMA-50-3-13/133_NE		18	84130707
	straight cable jack	21_SMA-50-3-15/111_NE		18	22544550
	straight panel bulkhead cable jack	24_SMA-50-3-15/111_NE		18	22641153
TNC	straight cable plug	11_TNC-50-3-29/103_NE	EZ_141	11	22641997
	right angle cable plug	16_TNC-50-3-24/13--_NE		11	84021420
	straight panel bulkhead cable jack	24_TNC-50-3-30/133_NH		11	23001723
7/16	straight cable plug	11_716-50-5-6/003_Y	EZ_250	7.5	84008435
	straight panel cable jack, flange mount	25_716-50-5-17/000_Y		7.5	84008881
N	straight cable plug	11_N-50-5-18/103_NH	EZ_250	11	84008445
	straight cable plug	11_N-50-5-39/133_NE		18	22642481
	straight panel bulkhead cable jack	24_N-50-5-39/133_NE		18	22642505
SMA	straight cable plug	11_SMA-50-5-1/111_NE	EZ_250	18	22642399
	straight cable plug	11_SMA-50-5-2/199_NE		18	22643253
	straight cable jack	21_SMA-50-5-2/199_NE		18	22643643