

Multiflex 86/141

The flexible alternative to semi-rigid

Product description

Multiflex microwave cables are the flexible alternative to semi-rigid cables. They are used in commercial and military RF and microwave airborne systems, communication systems, cellular base stations, satellite, ground systems - in brief: anywhere a «flexible semi-rigid cable» is required.



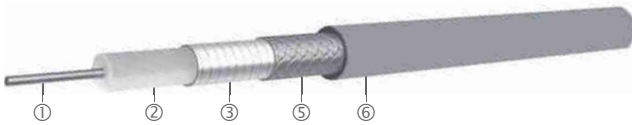
Product features

- Impedance 50 Ω
- Applicable up to 67 GHz
- Comparable electrical performance as corresponding semi-rigid cable types, high screening
- High flexibility: no 3D drawings required for design and manufacture
- Semi-rigid connectors can be used; quick and easy assembly
- Resistant to chemicals, oils, lubricants, humidity, etc.

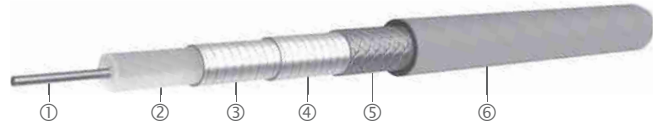
Recommended connectors

MF_86	MCX, MMBX, MMCX, MMPX, SMA, PC3.5, SK, PC1.85, BMA, QMA
MF_86_HE	
MF_141	SMA, PC3.5, BMA, QMA, BNC, TNC, N
	Other connectors available on request.

Construction



MF 86/141



MF 86 HE

Cable	Inner conductor ①	Dielectric ②	Outer conductor ③ ④ ⑤	Jacket ⑥	Outer diameter mm	Screening effectiveness (up to 18 GHz) dB
Multiflex_86	CuAg Wire	PTFE	CuAg tape CuSn braid	FEP, blue	2.7	> 90
Multiflex_86_HE	CuAg Wire	PTFE	double CuAg tape/ braid	FEP, blue	2.7	> 90
Multiflex_141	CuAg Wire	PTFE	CuAg tape CuSn braid	FEP, blue	4.2	> 90

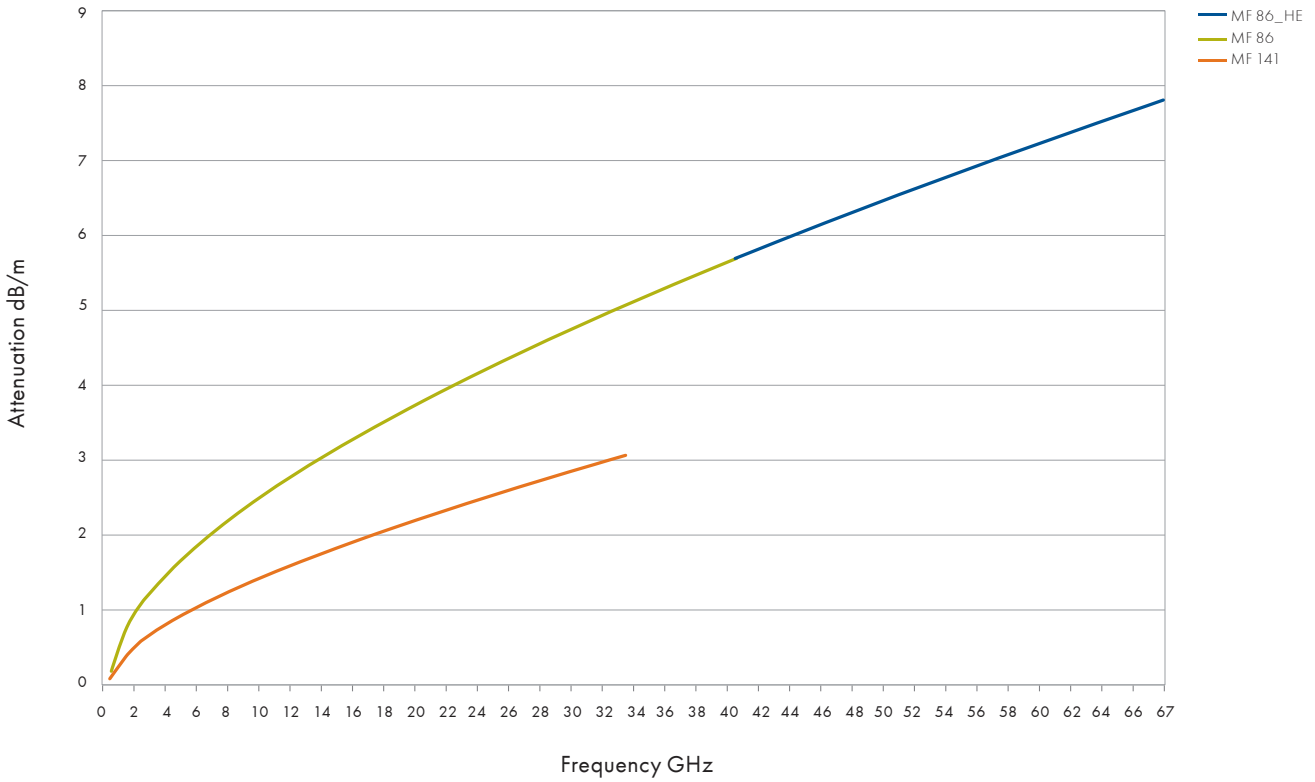
Other Multiflex cables on request.

Technical data

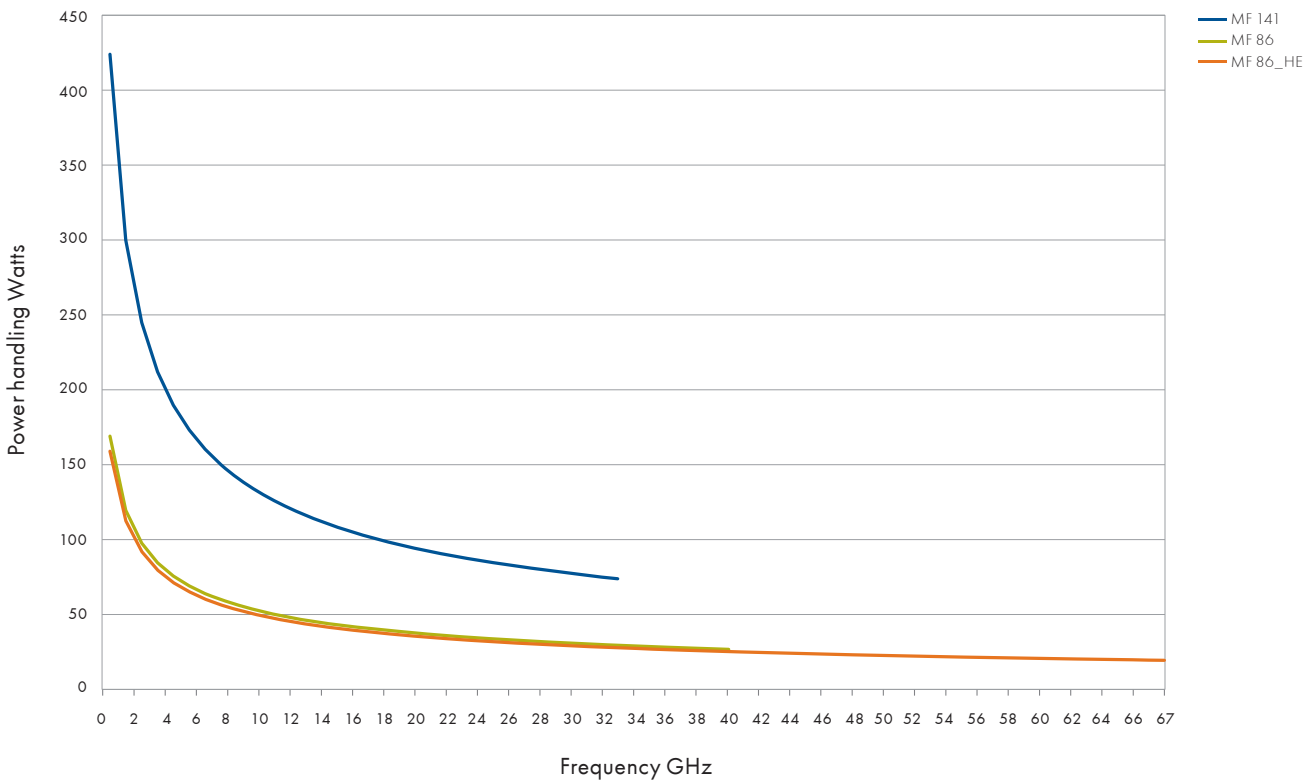
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight g/m	Min. bending radius		Temperature range °C
		GHz	%		static mm	repeated mm	
Multiflex_86	22511965	40	71	21	6	20	-65 to +165
Multiflex_86_HE	84129072	67	71	21	10	20	-65 to +165
Multiflex_141	22511964	33	71	45	10	40	-65 to +165

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



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



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Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency GHz	Item no.
MCX	straight cable plug	11_MCX-50-2-19/111_NE	MF 86 / MF 86_HE	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
MMBX	straight cable plug	11_MMBX-50-2-4/111_NE	MF 86 / MF 86_HE	12.4	84026769
	right angle cable plug	16_MMBX-50-2-4/111_NE		12.4	84026740
	straight panel bulkhead cable jack	24_MMBX-50-2-2/111_NH		12.4	23037876
MMCX	straight cable plug	11_MMCX-50-2-1/111_OE	MF 86 / MF 86_HE	6	22645297
	right angle cable plug	16_MMCX-50-2-13/111_OE		6	84032569
	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
MMPX	straight cable plug	11_MMPX-50-2-3/111_NE	MF 86_HE	67	84089228
	right angle cable plug	16_MMPX-50-2-2/111_NE	MF 86_HE	67	84067778
N	straight cable plug	11_N-50-2-15/113_UE	MF 86 / MF 86_HE	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
	straight panel cable jack, flange mount	25_N-50-2-14/133_NE		18	22641303
PC 1.85	straight cable plug	11_PC185-50-2-4/19_NE	MF 86_HE	67	84144282
	straight cable jack	21_PC185-50-2-4/19_NE		67	84144175
PC 3.5	straight cable plug	11_PC35-50-2-5/199_UE	MF 86_HE	33	84139219
	straight cable jack	21_PC35-50-2-5/199_UE		33	84139085
	straight panel bulkhead cable jack	24_PC35-50-2-5/199_UE		33	84139301
QMA	straight cable plug	11_QMA-50-2-3/133_NE	MF 86 / MF 86_HE	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-50-2-60/199_NE	MF 86_HE	40	84098644
	straight cable jack	21_SK-50-2-61/199_NE		40	84094378
SMA	straight cable plug	11_SMA-50-2-65/119_NE	MF 86 / MF 86_HE	18	22642315
	right angle cable plug	16_SMA-50-2-43/133_NE		18	22641953
	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

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Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency GHz	Item no.
SMB	straight cable plug	11_SMB-50-2-13/111_NE	MF 86 / MF 86_HE	4	22543362
	right angle cable plug	16_SMB-50-2-23/111_NE		4	22644079
	straight panel bulkhead cable jack	24_SMB-50-2-13/111_NE		4	22640822
SMC	straight cable plug	11_SMC-50-2-13/111_NE	MF 86 / MF 86_HE	10	22543363
	right angle cable plug	16_SMC-50-2-25/111_NE		10	22644126
	straight panel bulkhead cable jack	24_SMC-50-2-13/111_NE		10	22640297
TNC	straight cable plug	11_TNC-50-2-20/103_NE	MF 86 / MF 86_HE	11	22642519
	straight panel bulkhead cable jack	24_TNC-50-2-31/133_NE		11	23001721
N	straight cable plug	11_N-50-3-13/113_NE	MF 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-50-3-11/133_NE		18	22543921
	straight panel bulkhead cable jack	24_N-50-3-14/133_NE		18	22542300
	straight panel bulkhead cable jack	24_N-50-3-51/19_NE		18	22642344
	straight panel cable jack, flange mount	25_N-50-3-9/133_NE		11	22543952
PC3.5	straight cable plug	11_PC35-50-3-4/199_UE	MF 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	MF 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	MF 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	MF 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
	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	MF 141	11	22641997
	straight panel bulkhead cable jack	24_TNC-50-3-30/133_NH		11	23001723