

Flexible assemblies



Flexible microwave cable assemblies

HUBER+SUHNER develops and produces coaxial cables for a wide range of applications all over the world according to international standards. Many years of experience and in-house manufacturing combine to produce a portfolio of components adapted perfectly to one another. Continuous further development ensures that the products are perfectly aligned with market requirements and incorporate the latest technology. An innovative development department with in-house test laboratories can react quickly to changing market trends and even develop customer-specific solutions.

Boa-flex I

Low loss, phase stable coaxial cables/cable assemblies

- Frequency range up to 26 GHz
- Triple shielded for high isolation
- Low density PTFE
- Excellent phase stability



Steel-flex II

Low loss, phase stable coaxial cables/cable assemblies

- Frequency range up to 110 GHz
- Steel outer shield for high pull strength
- Low density PTFE
- Excellent phase stability



Steel-flex I

High performance, high pull strength microwave coaxial cables/cable assemblies

- Frequency range up to 85 GHz
- Steel outer shield for high pull strength
- Designed for low cost/high volume applications
- Excellent phase stability



Multiflex 86/141

The flexible alternative to semi-rigid

- Frequency range up to 67 GHz
- High screening
- High flexibility
- Resistant to chemicals, oils, lubricants, humidity



S-series

The economical, low loss microwave cables/cable assemblies

- Frequency range up to 18 GHz
- Low insertion loss
- Excellent screening effectiveness
- Low smoke, halogen free version available

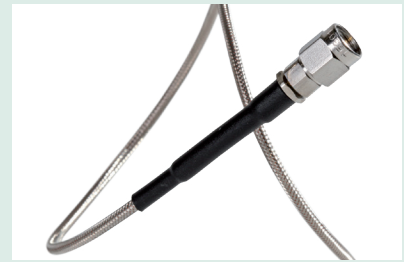


High flexible microwave cable assemblies

Ever-flex

The high flexibility microwave coaxial cables/cable assemblies

- Frequency range up to 40 GHz
- High reability
- Light weight
- Low loss
- 1 000 000 flex cycles



Multiflex 53-02

The highly flexible microwave coaxial cable assemblies

- Frequency range up to 67 GHz
- Thin and ultra-stable
- 50 000 flex cycles



Boa-flex III

MIL-C-17 replacement coaxial cables/cable assemblies

- Frequency range up to 12 GHz
- Solid Teflon® dielectric
- Low loss MIL-C-17 replacements
- Operating temperature -55 to +200 °C



High power microwave cable assemblies

Boa-flex I

The high power, low loss microwave coaxial cables/cable assemblies

- Frequency range up to 14 GHz
- Low density PTFE
- Exceptional phase stability
- Excellent phase versus temperature characteristics



Field terminated microwave cable assemblies

Eacon

The field terminated microwave cables/cable assemblies

- Frequency range up to 18 GHz
- Waterproof IP67
- Extremely reliable
- Easy assembling – only two connector parts



Boa-flex I

The low loss, flat wire braid microwave coaxial cables

Product description

Boa-flex I cables utilise a microporous PTFE dielectric for low loss with minimal phase change due to temperature changes and flexure. Typical velocity is 77 % of the speed of light. Construction consists of a flat wire braid outer conductor, a metalised polyimide intra-layer, and a round wire braid to complete the triple shielded construction. All offer very low loss and are extremely stable with flexure.

Product features

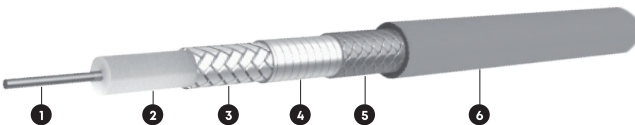
- Impedance 50 Ω
- Applicable up to 26 GHz
- Low density PTFE for superior electrical performance
- Triple shielded construction
- Excellent phase and IL stability with flexure
- Excellent phase versus temperature characteristics
- Phase matching and phase tracking applications



Recommended connectors

32055	SMA, TNC, N, SC, 3.5 mm
32051	SMA, TNC, N, SC

Construction



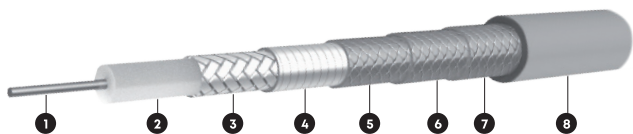
32055, 32051

Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Barrier ④	Outer braid ⑤	Jacket ⑥	Outer diameter mm
32055	CuAg wire	PTFE microporous	CuAg flat wire braid	polyimide/aluminium tape	CuAg	FEP, clear	5.5
32051	CuAg wire	PTFE microporous	CuAg flat wire braid	polyimide/aluminium tape	CuAg	FEP, amber	7.8

Boa-flex I

The low loss, flat wire braid microwave coaxial cables

Construction

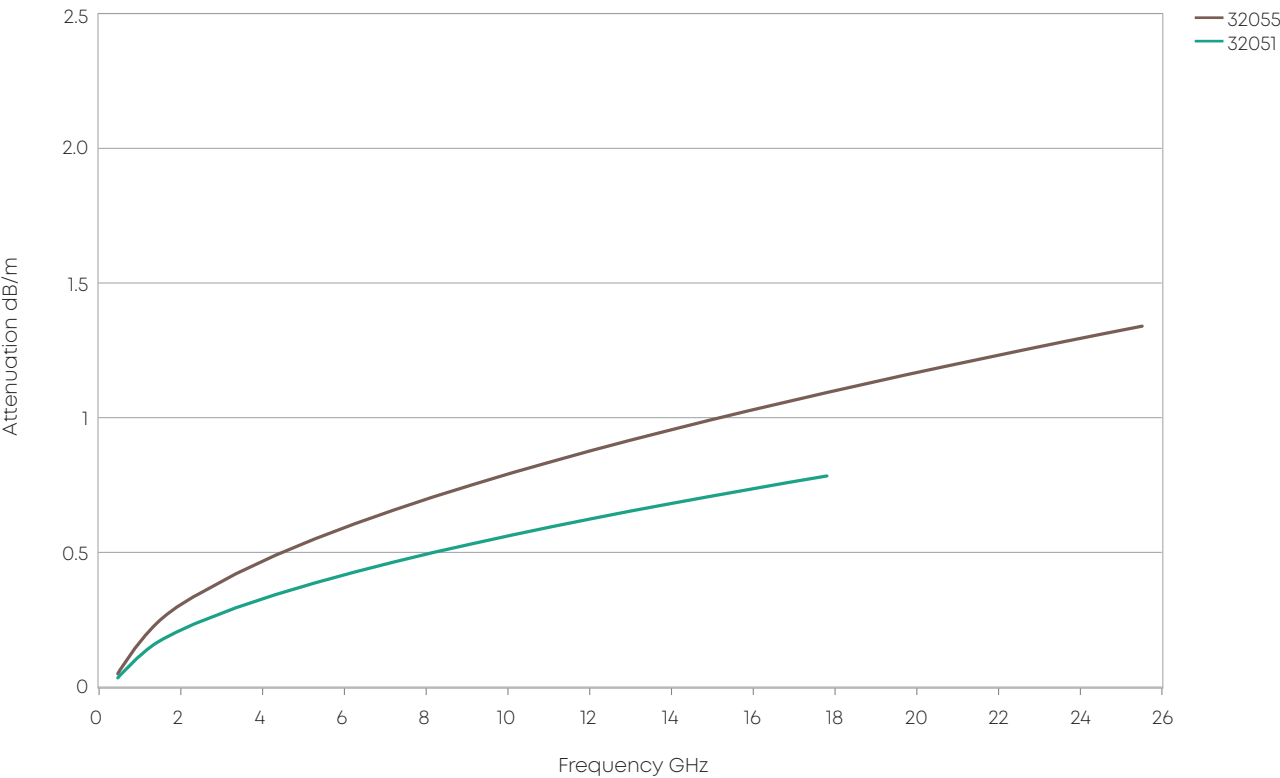


Technical data

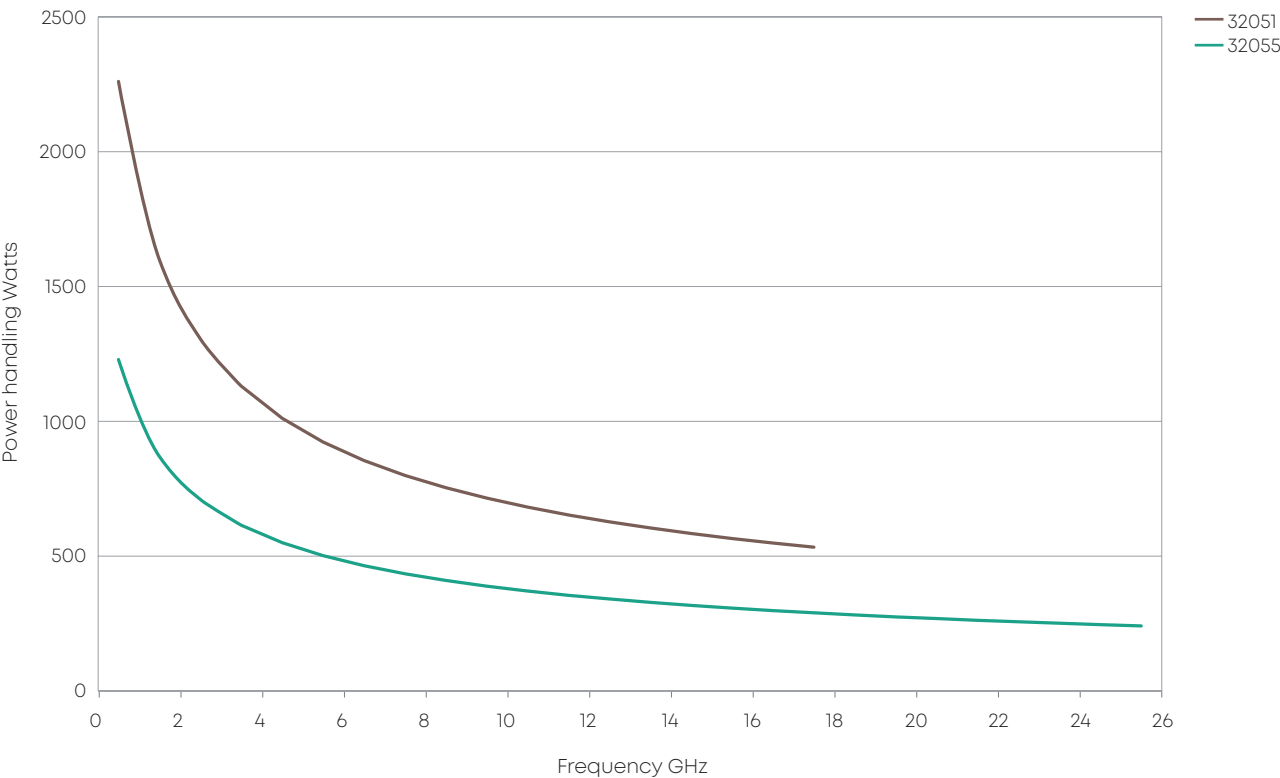
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radii		Temperature range
		GHz	%	g/m	static mm	repeated mm	
32055	80310948	26	77.3	64.0	22.9	68.6	-55 to +200
32051	80310945	18	77.8	114.6	34.3	102.9	

Boa-flex I

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



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



Boa-flex I

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
SMA	straight cable plug	29094-32-55	32055	26	80316322
	right angle 90° cable plug	29200-32-55		25	80316978
	straight cable jack	29092-32-55		26	80316175
	straight flanged cable jack	29142-32-55		26	80340386
	straight cable plug	29094-32-51	32051	18	80316317
	straight cable jack	29092-32-51		18	80316174
N	straight cable plug	29080-32-55	32055	18	80315873
	straight cable jack	29081P-32-55		18	80315973
	90° sweep cable plug	29741-32-55		18	80319551
	straight cable plug	29080-32-51	32051	18	80315869
	straight cable jack	29081P-32-51		18	80315972
	90° sweep cable plug	29741-32-51		18	80319549
TNC	straight cable plug	29714-32-55	32055	18	80319160
	90° sweep cable plug	29738-32-55		18	80340685
	straight bulkhead cable jack	29320-32-55		15	80317445
	straight cable plug	29714-32-51	32051	18	80319159
	90° sweep precision cable plug	29738-32-51		18	80319501
SC	straight cable plug	29642-32-51	32051	10.0	80318825
	straight cable plug	29642-32-55	32055	10.0	80340625

Steel-flex II

Low loss, phase stable coaxial cables

Product description

Steel-flex II cables are designed as low loss alternative to steel-flex I cable. The microporous dielectric provides improved phase characteristics, such as phase versus flexure and phase versus temperature.

Product features

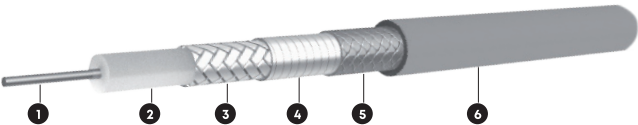
- Impedance 50 Ω
- Applicable up to 45 GHz
- Steel outer shield for high pull strength
- Low density PTFE for superior electrical performance
- Excellent phase and IL stability with flexure
- Excellent phase versus temperature characteristics
- Phase matching and phase tracking applications



Recommended connectors

32022	SMA, TNC, N, SK, 3.5 mm, SMP
32024	SMA, SMP, TNC, BMA, SMPM-T
32026	SMA, SK
32094	SMA, N, TNC, 3.5 mm
32021	SMA

Construction

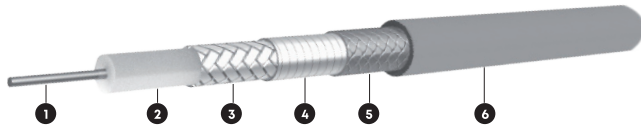


32022, 32024

Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Barrier ④	Outer braid ⑤	Jacket ⑥	Outer diameter mm
32022	CuAg wire	PTFE microporous	CuAg flat wire braid	polyimide/ aluminium tape	stainless steel	FEP, clear	3.7
32024	CuAg wire	PTFE microporous	CuAg flat wire braid	polyimide/ aluminium tape	stainless steel	FEP, clear	2.7

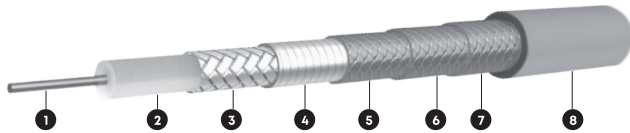
Steel-flex II

Construction



32094

Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Barrier ④	Outer braid ⑤	Jacket ⑥	Outer diameter
							mm
32094	CuAg strand	PTFE microporous	CuAg flat wire braid	polyimide / aluminium tape	stainless steel	FEP, clear	5.5



32021, 32026

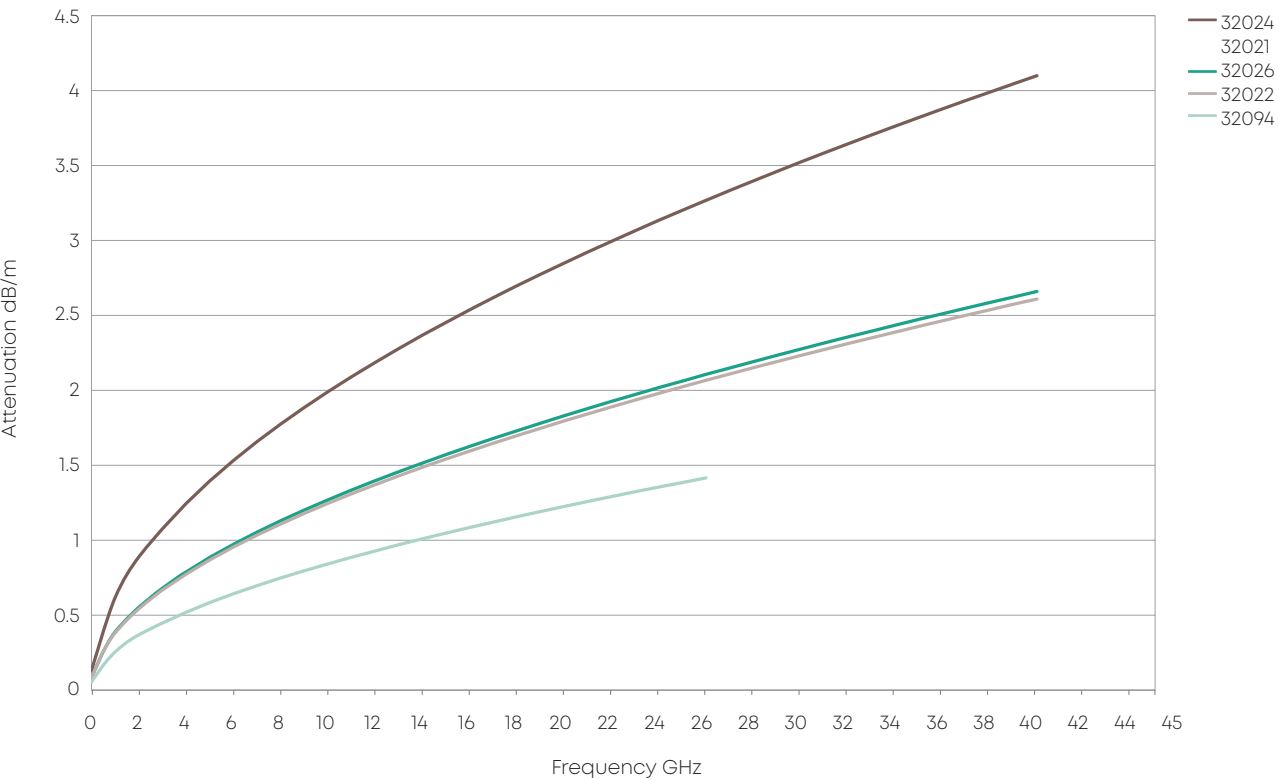
Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Barrier ④	1. Outer braid ⑤	2. Outer braid ⑥	3. Outer braid ⑦	Jacket ⑧	Outer diameter
									mm
32021	CuAg wire	PTFE microporous	CuAg flat wire braid	polyimide/aluminium tape	stainless steel	CuAg	CuAg	FEP, blue	3.7
32026	CuAg wire	PTFE microporous	CuAg flat wire braid	polyimide/aluminium tape	stainless steel	CuAg	CuAg	FEP, blue	4.9

Technical data

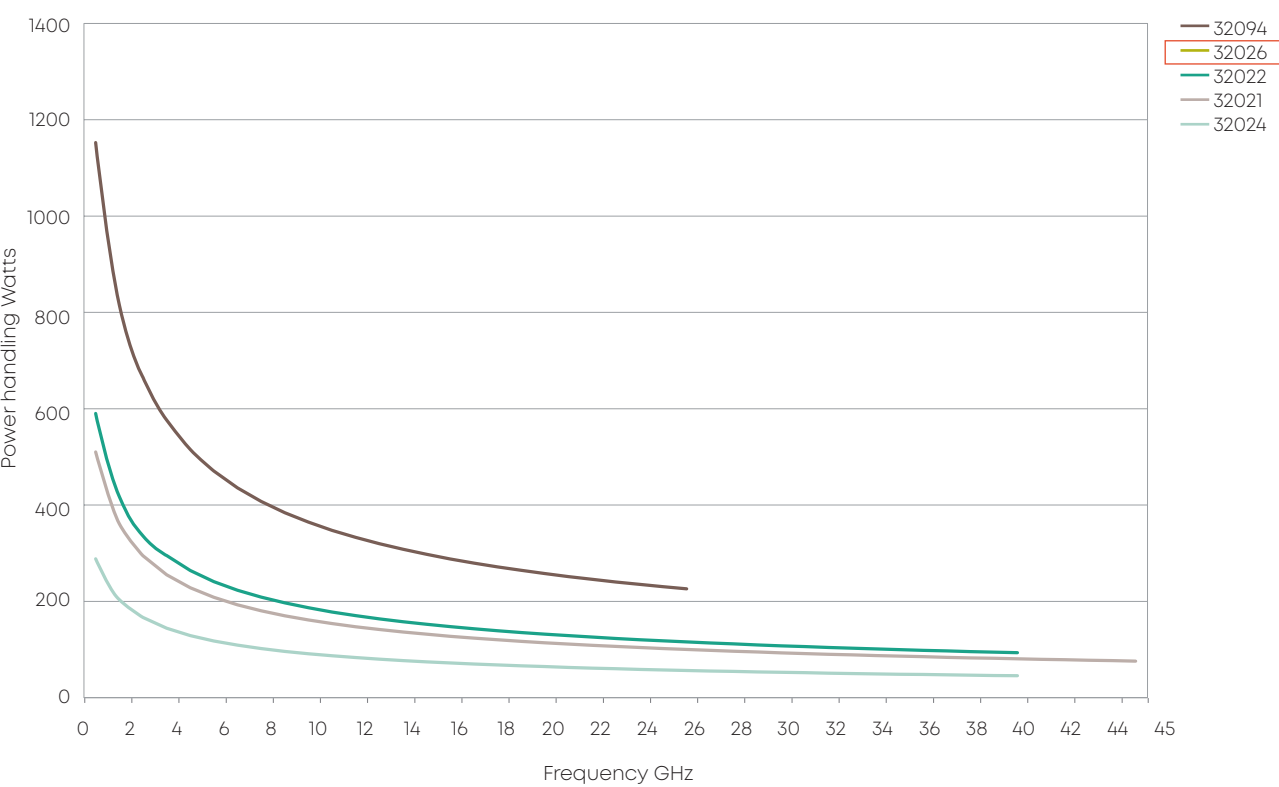
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radii		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
32021	80310919	45	76.5	40.2	8.4	25.1	
32022	80310920	40	76.3	31.3	8.4	25.1	
32024	80310922	40	76.5	16.4	6.4	19.1	
32026	80310924	40	76.3	62.5	17.8	53.3	
32094	80310965	26	77	61.0	22.8	68.6	

Steel-flex II

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



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



Welche
Farbe für
diese
Nummer?
im alten
Layout
war diese
Farbe
nicht
vorhan-
den

Steel-flex II

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
SMA	straight cable plug	29094CR-32-61	32021	26.5	80363604
	straight cable plug	29094-32-22	32022	26.5	80316285
	straight cable jack	29092-32-22		25	80316163
	straight cable plug	29094-32-24	32024	26.5	80316292
	straight cable plug	29094-32-26	32026	26.5	80367528
	straight cable jack	29092-32-26		25	80376268
	straight cable plug	29094-32-94	32094	26.5	80316331
	straight cable jack	29092-32-94		25	80316179
	straight cable plug	29094CR-32-61	32061	26.5	80340299
SMP	straight cable jack	29473CR-32-24	32024	40	80340518
	straight cable jack	29473CR-32-22	32022	40	80340517
SK	straight cable plug	29094K-32-22	32022	40	80316376
	straight cable jack	29092K-32-22		40	80316201
	straight cable plug	29094K-32-26	32026	40	80340320
	straight cable jack	29092K-32-26		40	80369355
TNC	straight cable plug	29714-32-22	32022	18	80319137
	straight bulkhead cable jack	29320-32-22		18	80317435
	straight cable plug	29714-32-94TC	32094	18	80367102
	straight cable plug	29714-32-24	32024	12	80319143
N	straight cable plug	29080-32-22	32022	18	80315843
	straight cable jack	29081P-32-22		18	80340158
	straight bulkhead cable jack	29082-32-22		18	80315991
	straight cable plug	29080-32-94	32094	18	80315883
3.5 mm	straight cable plug	29801-32-22	32022	36	80319727
	straight cable tonight	29800-32-22		36	80319706
	straight cable plug	29801-32-94	32094	26.5	80319739
BMA	straight bulkhead cable plug	29905CR-32-24	32024	26	80319983
SMPM-T	straight cable jack	29971TCR-32-24	32024	50	80395423

Steel-flex I

High performance, high pull strength microwave coaxial cables

Product description

Steel-flex cables are lightweight flexible replacements to semi-rigid cable. All utilise triple shields for superior RF shielding, with a solid TFE dielectric for exceptional crush resistance with-out the need for heavy armor. The flat wire braid outer conductor provides low loss plus excellent insertion loss stability with flexure. The stainless steel outer braid provides improved mechanical pull strength when compared to cables with a copper wire outer braid.

Product features

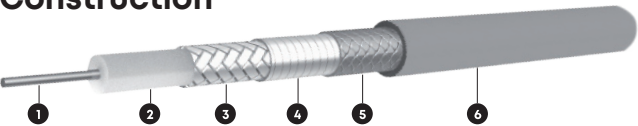
- Impedance 50 Ω
- Applicable up to 85 GHz
- Designed for low cost/high volume applications
- Excellent loss stability over flexure
- Steel outer shield for high pull strength
- UL approved



Recommended connectors

32041	SMPM, SMPM-T, BMA, SMP
32061	SMA, 1 mm
32081	SMA, N, SSMA, TNC, SMP
32086	SMA
32091	SMA, SMK

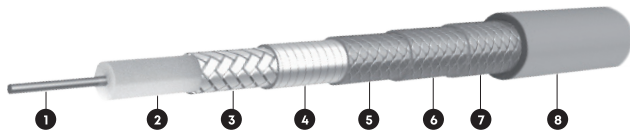
Construction



32041, 32081, 32086, 32061

Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Barrier ④	Outer braid ⑤	Jacket ⑥	Outer diameter mm
32041	CuAg wire	PTFE	CuAg flat wire braid	polyimide/ aluminium tape	stainless steel	FEP, green	2.0
32061	CuAg wire	PTFE	CuAg flat wire braid	polyimide/ aluminium tape	stainless steel	FEP, grey	1.6
32081	CuAg wire	PTFE	CuAg flat wire braid	polyimide/ aluminium tape	stainless steel	FEP, blue	2.6
32086	CuAg strand	PTFE	CuAg flat wire braid	PTFE tape	stainless steel	FEP, clear	2.7

Steel-flex I



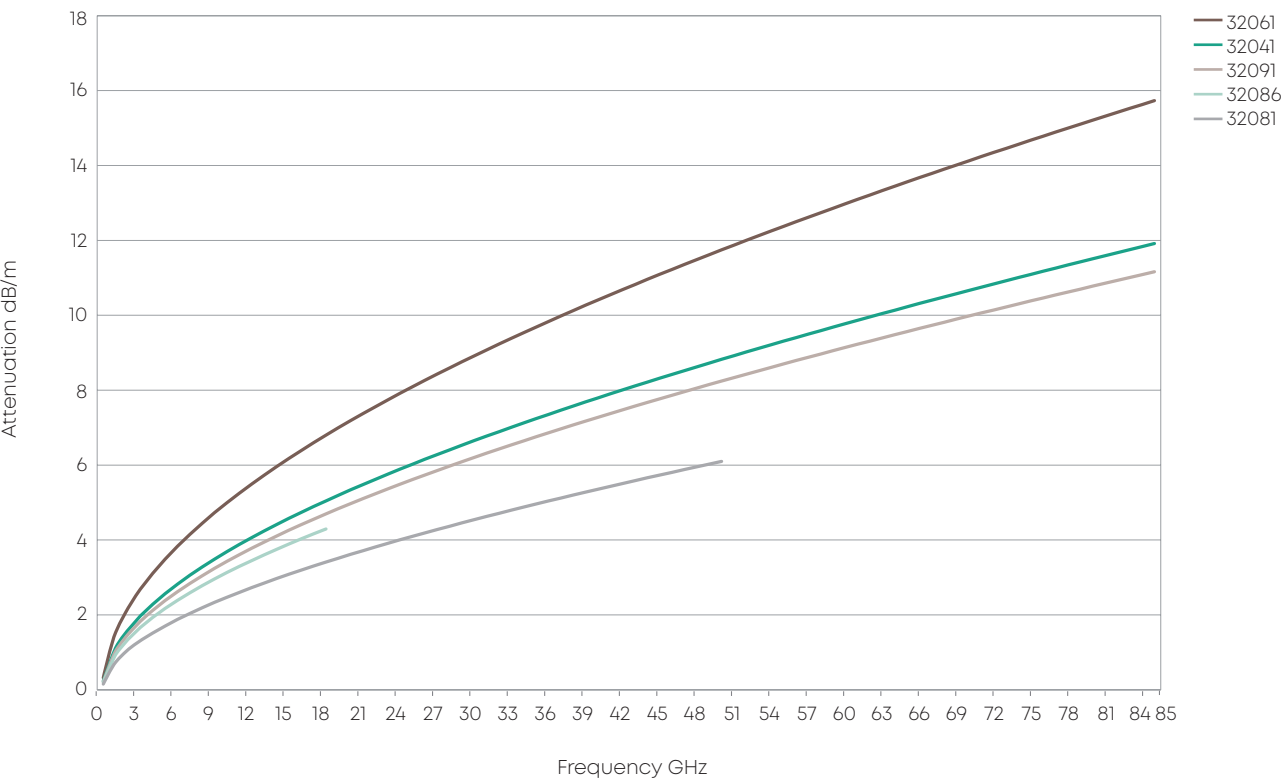
Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Barrier ④	1. Outer braid ⑤	2. Outer braid ⑥	3. Outer braid ⑦	Jacket ⑧	Outer diameter
									mm
32091	CuAg wire	PFTF	CuAg flat wire braid	polyimide/ aluminium tape	stain- less steel	StCuAg	StCuAg	FEP, blue	2.6

Technical data

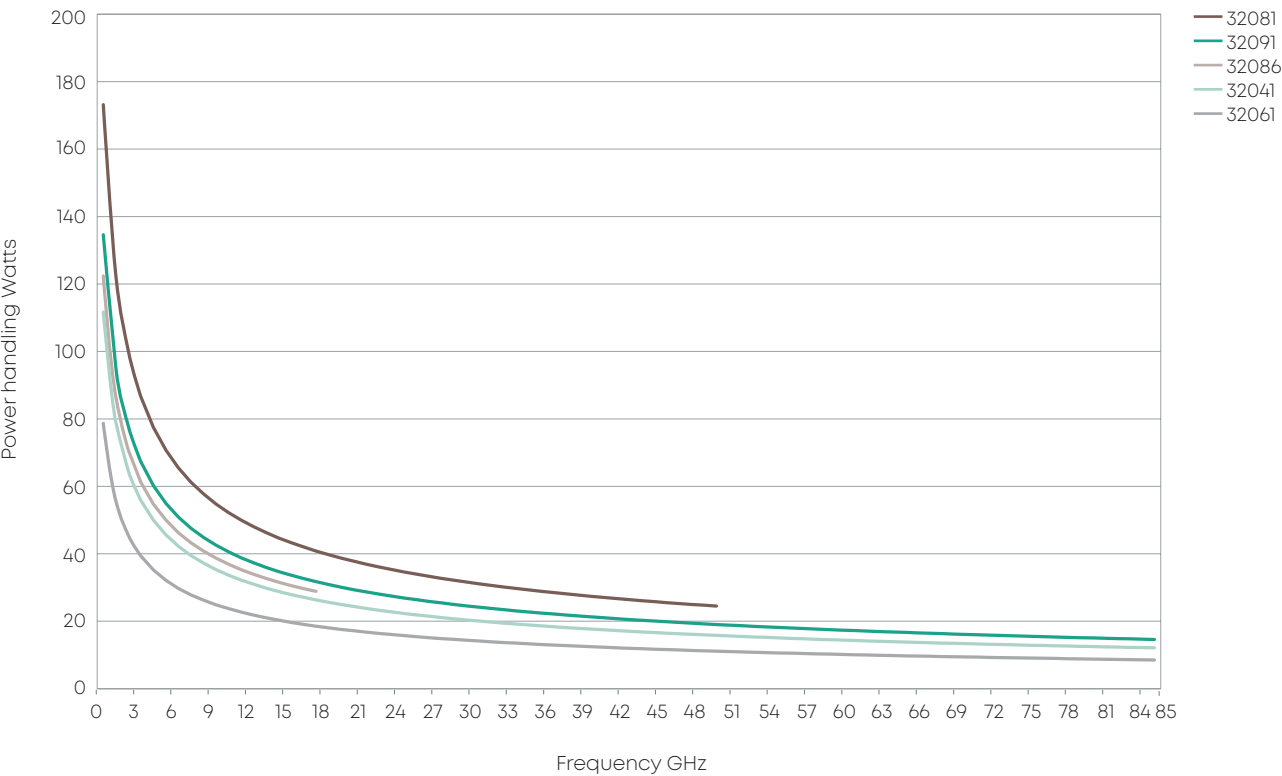
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radius		Temperature range
		GHz	%		static mm	repeated mm	
32041	80310936	85	70.0	11.9	1.5	4.6	-55 to +200
32061	80310952	110	70.3	7.4	5.08	15.2	
32081	80310960	50	70.3	14.9	5.1	15.2	
32086	80310962	18	70.3	14.9	5.1	15.2	
32091	80310963	85	70	16.4	5.1	15.2	

Steel-flex I

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



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



Steel-flex I

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
SMA	straight cable plug	29094CR-32-61	32061	26.5	80340299
	straight cable plug	29094-32-81	32081	24	80316324
	straight cable jack	29092-32-81		18	80316176
	straight bulkhead cable jack	29141-32-81		18	80340377
	straight cable plug	29094-32-86	32086	18	80316329
	straight cable plug	29094CR-32-91	32091	26.5	80340300
SMP	right angle 90° cable plug	29478-32-41	32041	26.5	80318009
SSMA	straight cable plug	29112-32-81S	32081	18	80340358
	right angle 90° cable plug	29111-32-81		18	80316669
TNC	straight cable plug	29714-32-81	32081	12	80319161
N	straight cable plug	29080-32-81	32081	18	80315881
BMA	straight bulkhead cable plug	29907C-32-81	32081	26	80320002
	straight bulkhead cable plug	29907CR-32-41	32041	26	80320009
SMP	straight cable jack	29473CR-32-81	32081	40	80340521
	right angle 90° cable jack	29477-32-81		20	80317999
	float mount cable jack	29921C-32-81		40	80340806
	straight cable jack	29473CR-32-41	32041	40	80340520
	right angle 90° cable jack	29473-32-41		20	80317998
	float mount cable jack	29921CR-32-41		40	80317036
SMPM	right angle 90° cable jack	29973-32-41	32041	40	80320222
	straight cable jack	29971CR-32-41		40	80320212
SMPM-T	straight cable jack	29971TCR-32-41	32041	65	80320214
SMK	straight cable plug	29094KCR-32-91	32091	40	80370561
1 mm	straight plug	29840-32-61	32061	110	80340724

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

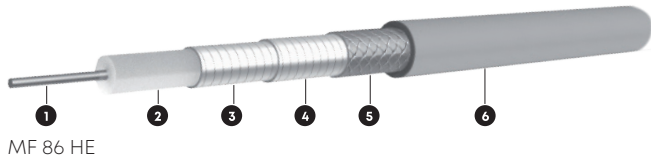
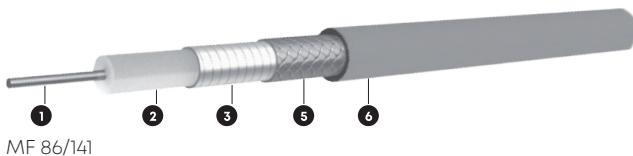
- Impedance 50 Ω
- Applicable up to 67 GHz
- Comparable electrical performance as corresponding semi-rigid cable types, high screening
- High flexibility: no 3D drawings required for design and manufacture
- Semi-rigid connectors can be used; quick and easy assembly
- Resistant to chemicals, oils, lubricants,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



Recommended connectors

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

Construction



Cable	Inner conductor ①	Dielectric ②	Outer conductor ③ ④ ⑤	Jacket ⑥	Outer diameter	Screening effectiveness (up to 18 GHz)
					mm	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

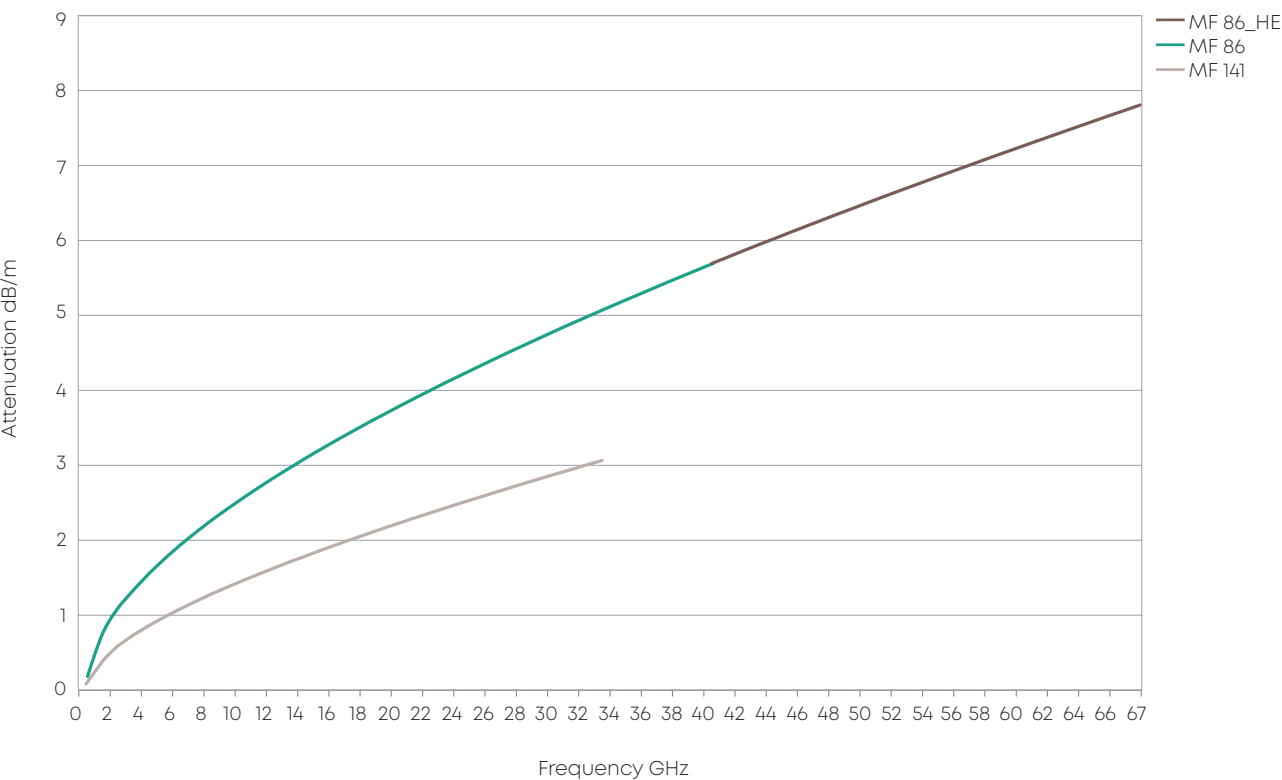
Other Multiflex cables on request.

Technical data

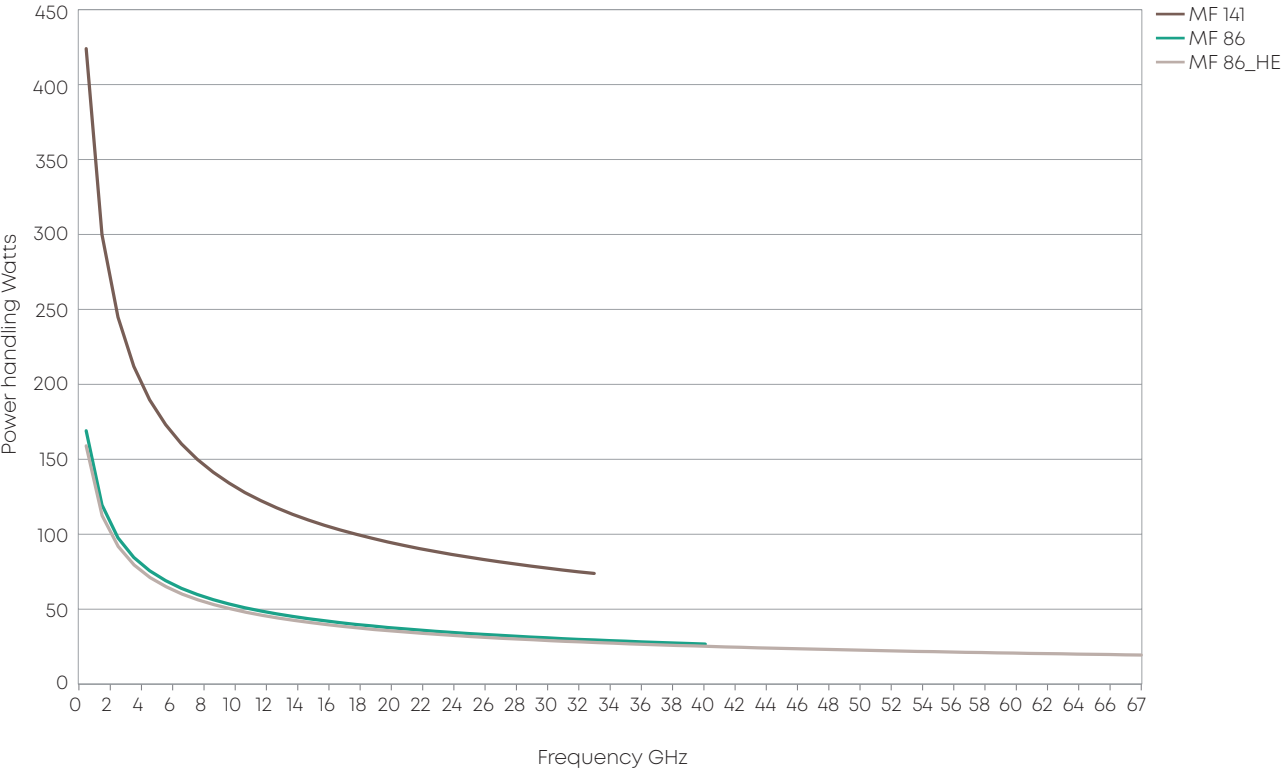
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radius		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
Multiflex_86	22511965	40	71	21	6	20	−65 to +165
Multiflex_86_HE	84129072	67	71	21	10	20	−65 to +165
Multiflex_141	22511964	33	71	45	10	40	−65 to +165

Multiflex 86/141

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



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



Multiflex 86/141

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
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

Multiflex 86/141

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
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

S-series

The economical, low loss microwave cable

Product description

The S-series is a line of cost-efficient, low loss microwave cables. It covers technically demanding requirements in a wide range of applications, preferably in fixed installations. These versatile cables are characterised by their very low insertion loss across a wide frequency range. S-series cables are easy to assemble and are made of environmentally friendly, halogen free materials.

Product features

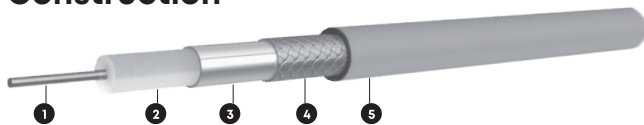
- Impedance 50 Ω
- Applicable up to 18 GHz
- Low insertion loss
- Excellent screening effectiveness
- Quick and easy to assemble
- Low smoke, free of halogen free version available
- Cost-efficient, environmentally friendly solution for a wide range of applications



Recommended connectors

S_04272_B	SMA, TNC, N
S_04262_B-01	SMA, TNC, N
	Other connectors available on request.

Construction



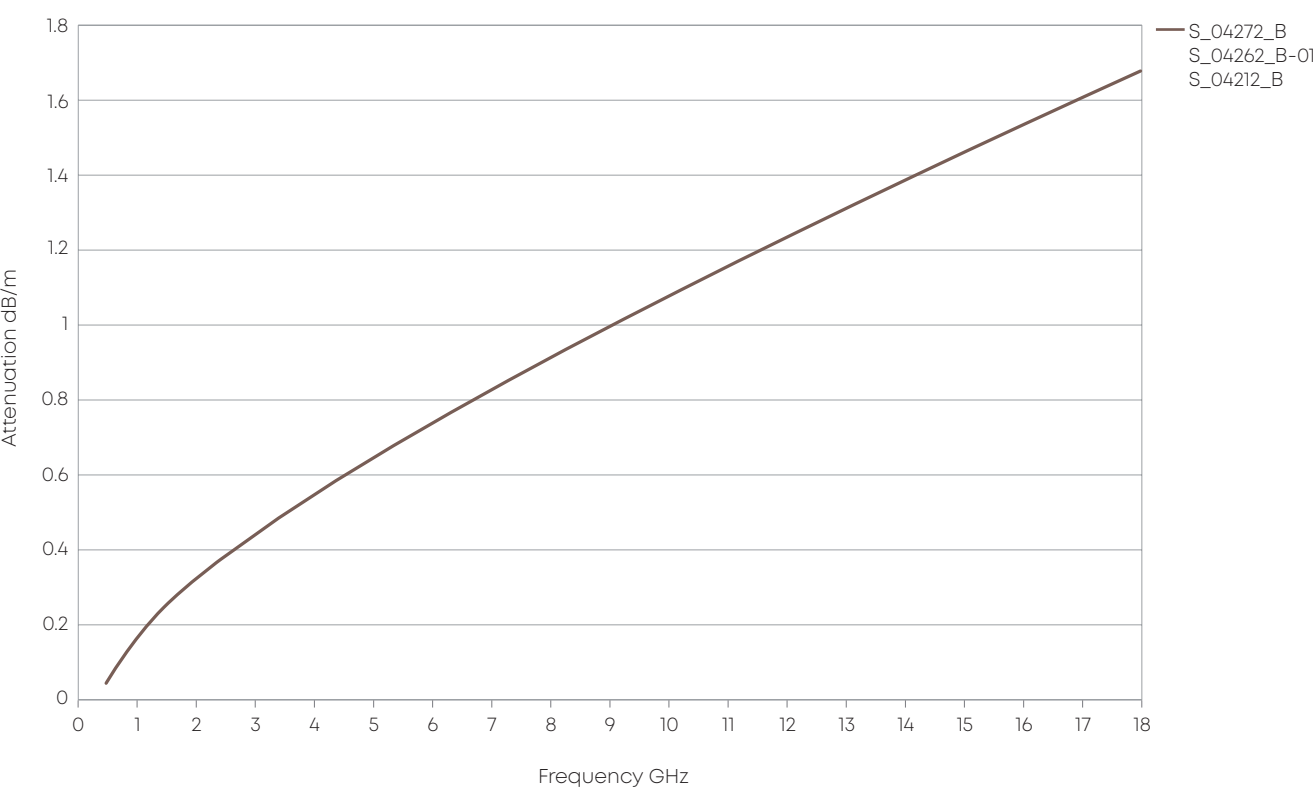
Cable	Inner conductor ①	Dielectric ②	Outer conductor ③ ④	Jacket ⑤	Outer diameter	Screening effectiveness up to 18 GHz
					mm	dB
S_04272_B	CuAg Wire	SPE	Al tape/CuSn braid	PE, blue	5.5	> 90
S_04262_B-01	CuAg Wire	SPE	Al tape/CuSn braid	LSFH, black	5.5	> 90
S_04212_B	CuAg Wire	SPE	Al tape/CuSn braid	PUR, black	5.5	> 90

Technical data

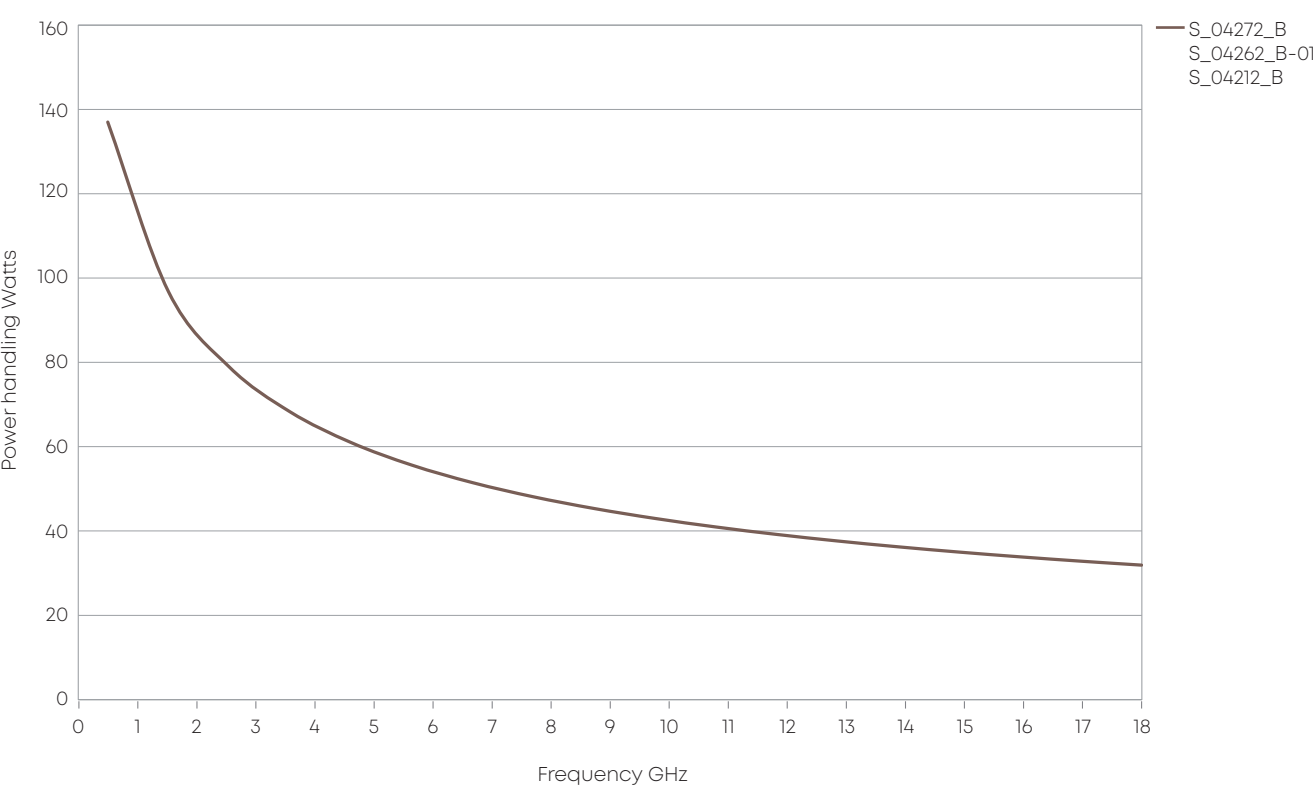
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radius		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
S_04272_B	22511622	18	82	44	25	90	-40 to +85
S_04262_B-01	84000918	18	82	41	25	90	
S_04212_B	22511855	18	82	41	25	90	

S-series

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



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



S-series

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
N	straight cable plug	11_N-50-4-10/133_NH	S_04272_B, S_04262_B-01 S_04212_B	11	84026255
	straight cable plug	11_N-50-4-55/133_NE		18	22645935
	right angle cable plug	16_N-50-4-53/199_NE		18	22645021
	straight panel bulkhead cable jack	24_N-50-4-53/133_NE		18	22644946
SMA	straight cable plug	11_SMA-50-4-53/139_NE	S_04272_B, S_04262_B-01 S_04212_B	18	22644342
	right angle cable plug	16_SMA-50-4-50/133_NE		18	84130714
	straight cable jack	21_SMA-50-4-52/133_NE		18	22644409
TNC	straight cable plug	11_TNC-50-4-52/133_NE	S_04272_B, S_04262_B-01 S_04212_B	11	22644434
	straight panel bulkhead cable jack	24_TNC-50-4-52/133_NE		11	22644938

Ever-flex

The high flexibility microwave coaxial cable assemblies

Product description

Ever-flex cables were designed for use in ultradurable, high flexure applications such as gimbal assemblies and installations where the cable assembly must endure multiple tight bends and twists. ever-flex cable assemblies have repeatedly endured 1 000 000 flexure cycles with minimal electrical and mechanical degradation. All incorporate a flat wire outer conductor and a microporous dielectric for low loss and a tight woven stainless steel outer braid for improved resistance to crushing, bending and kinking.

Product features

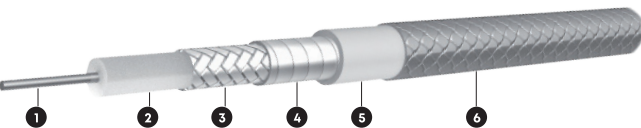
- Impedance 50 Ω
- Applicable up to 40 GHz
- High reliability
- Light weight
- Low loss
- Broad bandwidth



Recommended connectors

32084	SMA, SSMA, SK
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Construction



Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Outer tape ④	Jacket ⑤	Ruggedisation ⑥	Outer diameter
							mm
32084	CuAg strand	PTFE, microporous	CuAg flat wire braid	polyimide/aluminium	silicone rubber	stainless steel	2.4

Technical data

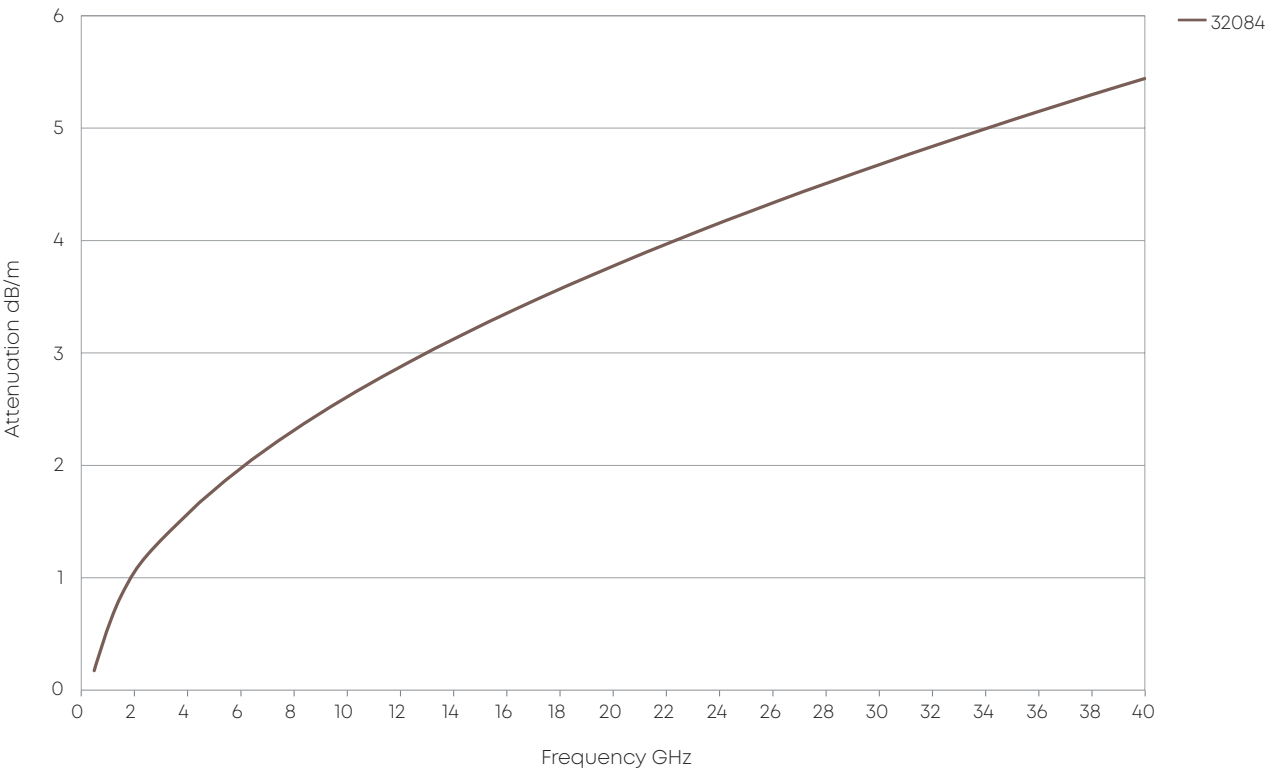
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radii		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
32084	80310961	40	76	10.4	5.1	15.2	-55 to +200

Available connectors

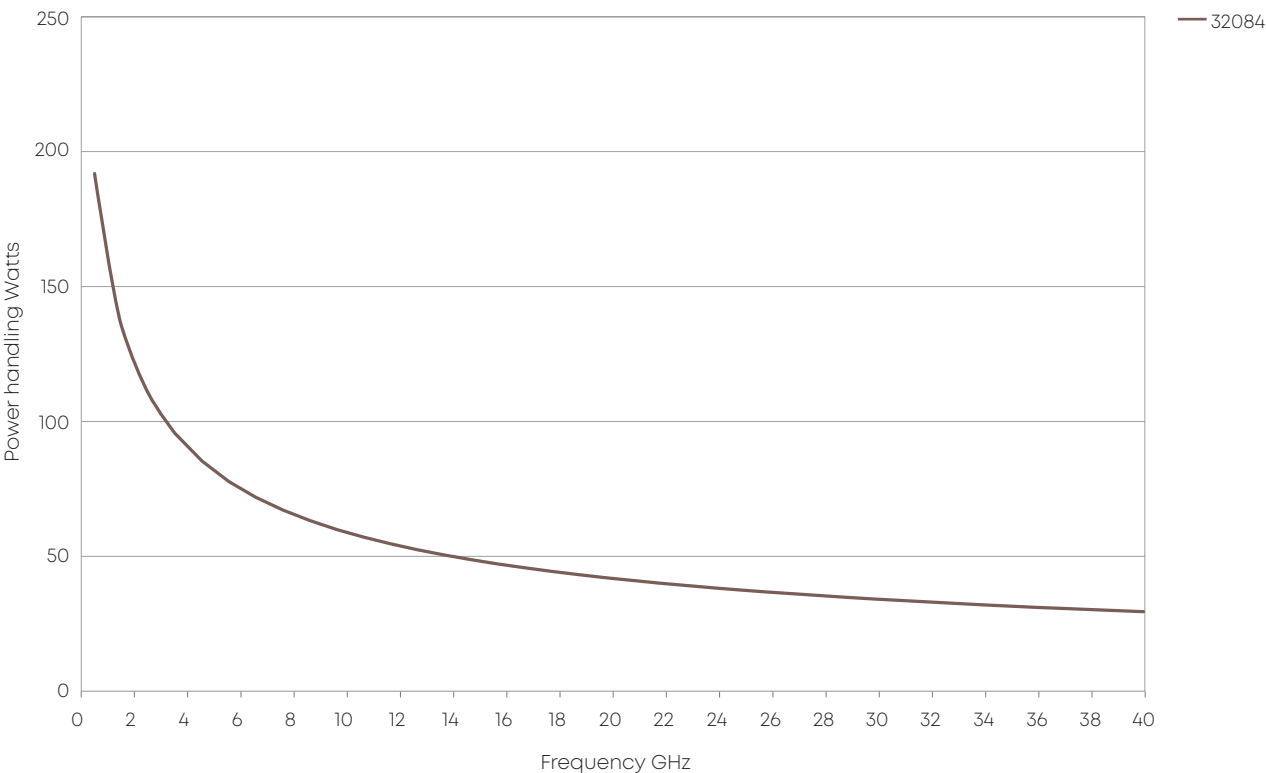
Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
SMA	straight cable plug	29094-32-84	32084	18	80316327
	right angle 90° cable plug	29200-32-84		18	80316980
SSMA	straight cable plug	29112-32-84		18	80316698
	right angle 90° cable plug	29111-32-84		12	80340354
SK	straight cable plug	29094K-32-84		40	80316384

Ever-flex

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



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



Multiflex 53-02

The highly flexible microwave cable

Product description

The thin, highly flexible and ultra-stable microwave cable for utmost demands.

Product features

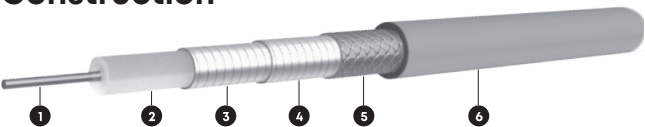
- Impedance 50 Ω
- Applicable up to 67 GHz
- 50 000 flex cycles



Recommended connectors

MF 53-02	SMA, SK, PC2.4, MMPX
	Other connectors available on request

Construction



Cable	Inner conductor 1	Dielectric 2	Outer conductor 3 4 5	Jacket 6	Outer diameter	Screening effectiveness (up to 18 GHz)
					mm	dB
Multiflex_53-02	CuAg Wire	PTFE	double CuAg tape/ braid	FEP, blue	1.74	> 90

Technical data

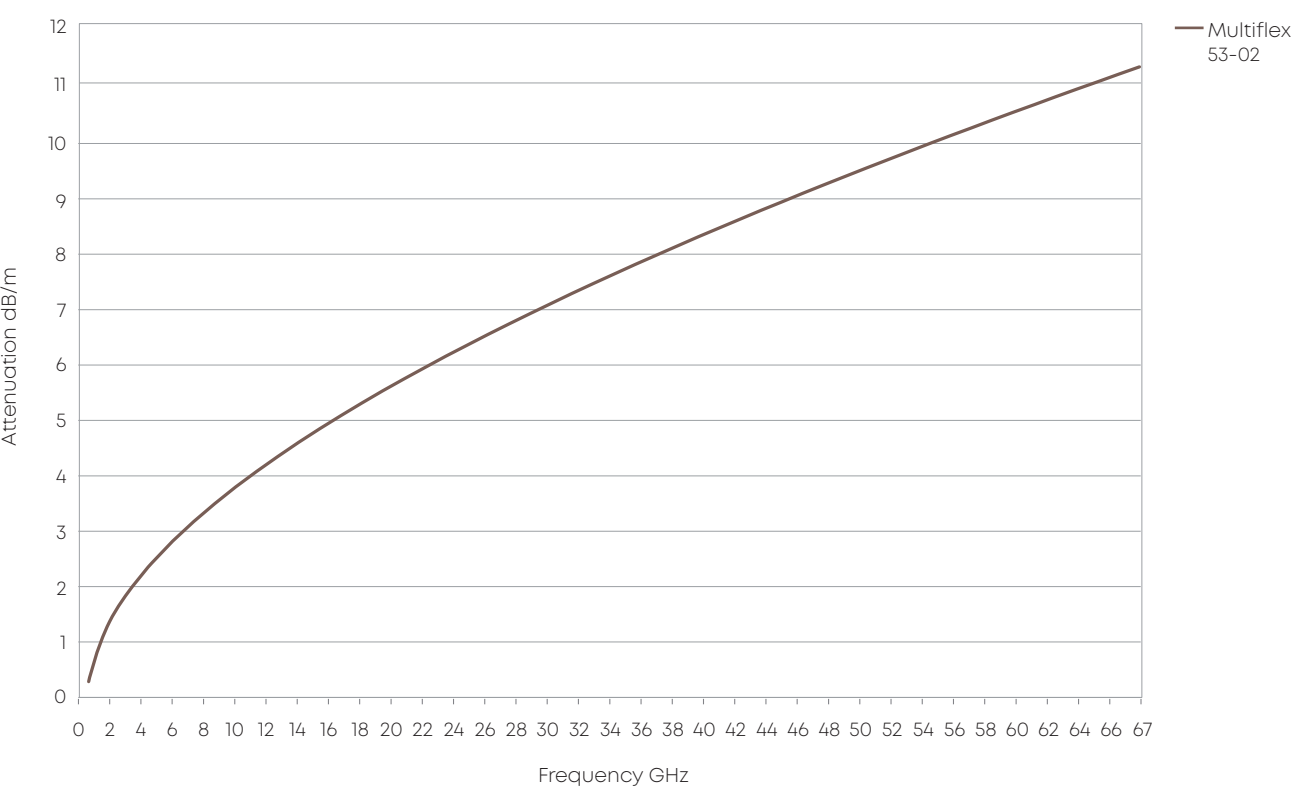
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radii		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
Multiflex_53-02	85006318	67	71	8.5	10	20	-65 to + 165

Available connectors

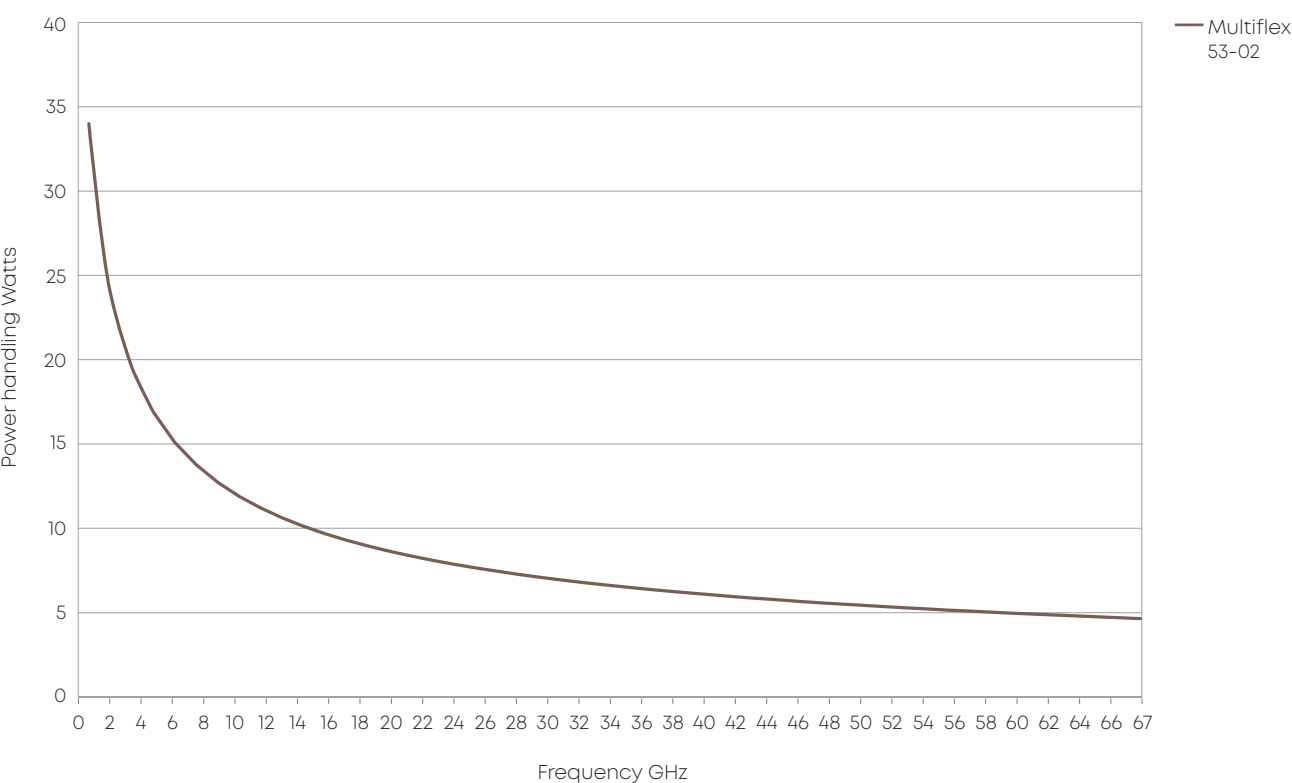
Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
SK	straight cable plug	11_SK-U50-1-5/119_NH	MF 53-02	40	84087678
PC2.4	straight cable plug	11_PC24-U50-1-1/119_NH		50	85028108
MMPX	straight cable plug	11_MMPX-50-1-4/111_NE		67	84122130
SMA	straight cable jack	21_SMA-50-1-5/111_NH		18	85016291

Multiflex 53-02

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



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



Boa-flex III

MIL-DTL-17 replacement coaxial cables

Product description

Boa-flex III cable is low cost, high performance designs intended to replace standard flexible MIL-DTL-17 cables. This cable has up to three shields as indicated in the table below. All have a solid core for excellent crush resistance without the need for armor.

Product features

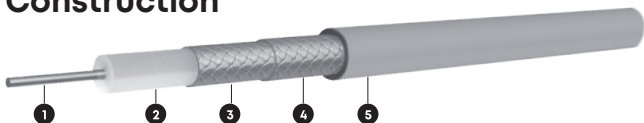
- Impedance 50 Ω
- Applicable up to 12 GHz
- Solid teflon dielectric
- Low loss MIL-DTL-17 replacements
- Utilises most standard connectors
- Operating temperature -55 to +200 °C
- Other custom cables available upon request



Recommended connectors

32018DS	SMA, SSMA, SMP
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Construction



Cable	Inner conductor 1	Dielectric 2	Outer conductor 3	Outer braid 4	Outer jacket 5	Outer diameter
32018DS	CuAg wire	PTFE	CuAg braid	CuAg	FEP, black	1.3

Technical data

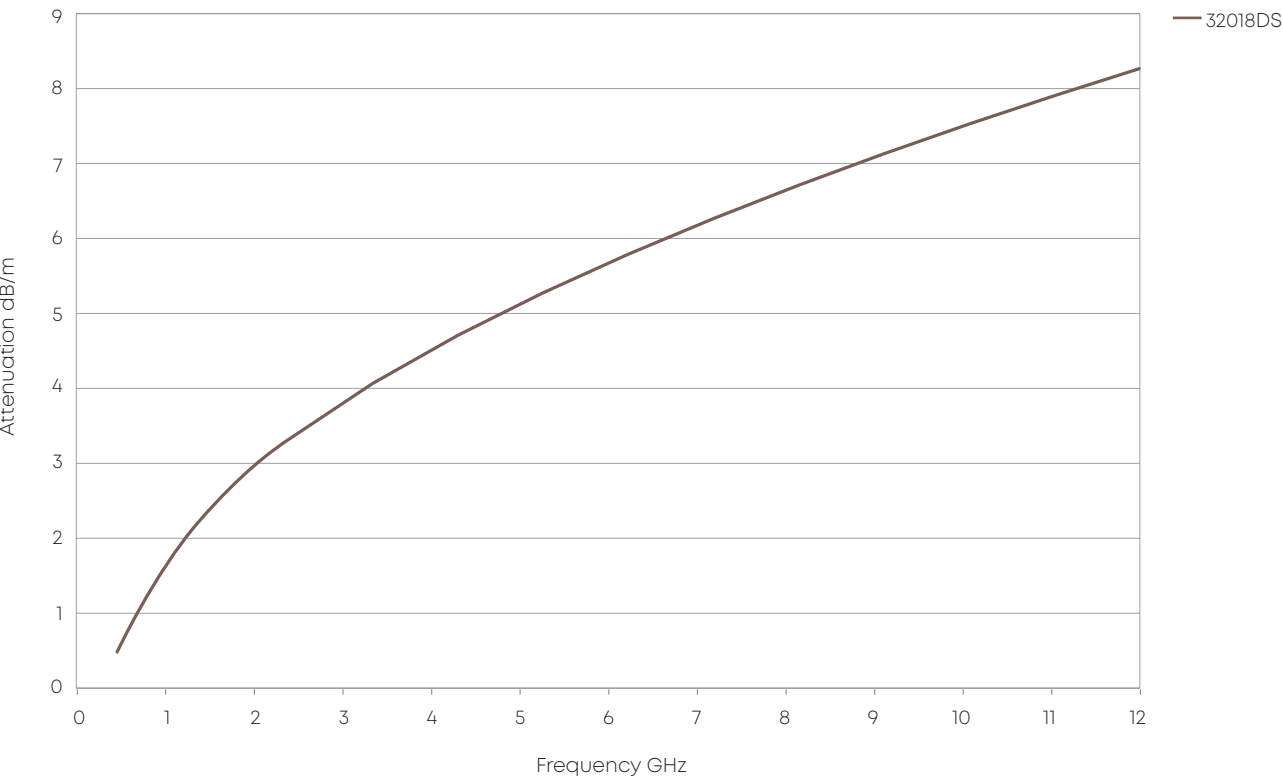
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight g/m	Min. bending radii		Temperature range °C
		GHz	%		static mm	repeated mm	
32018DS	80320957	12	70.3	4.5	4.6	13.7	-55 to +200

Available connectors

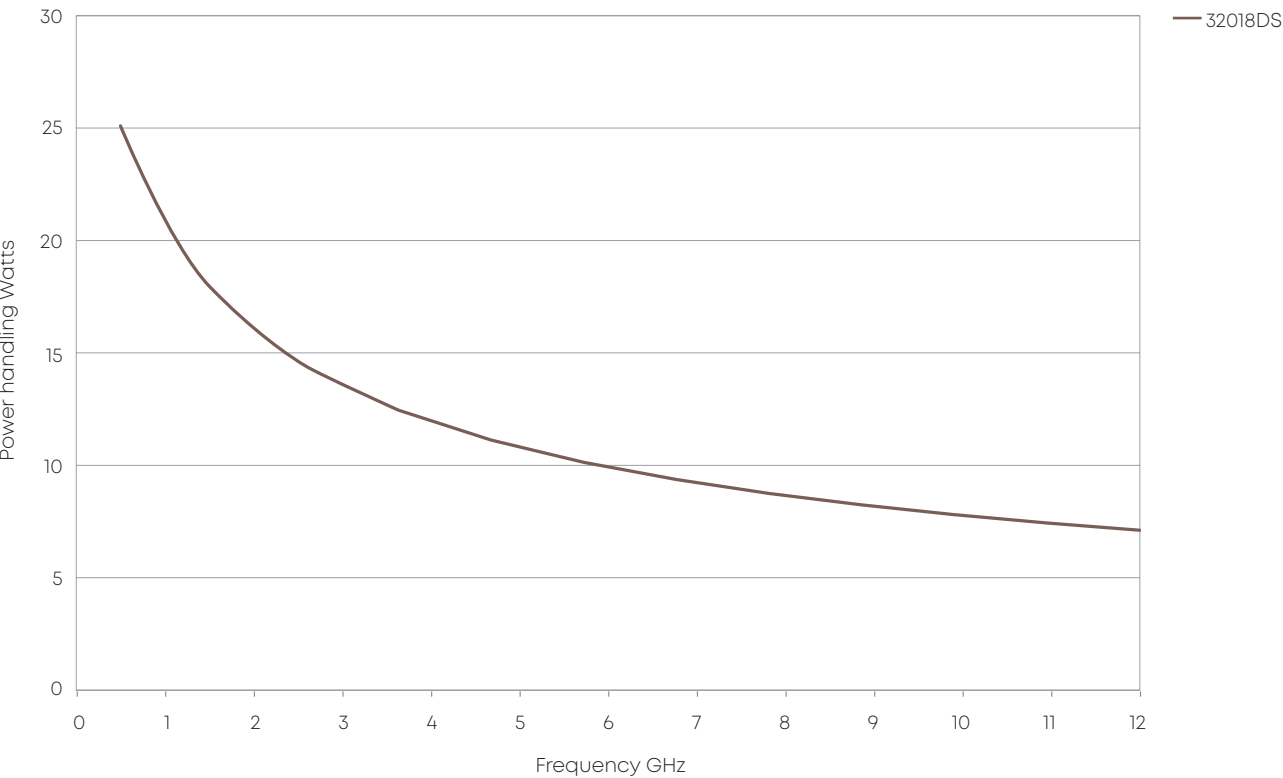
Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency GHz	Item no.
SMA	straight cable plug	29094-32-18DS	32018DS	12	80316273
SSMA	straight cable plug	29112-32-18DS		12	80395393
	right angle 90° cable plug	29111-32-18DS		12	80395394
SMP	straight cable jack	29473-32-18DS		12	80340514

Boa-flex III

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



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



Boa-flex II

The high power, low loss microwave coaxial cable assemblies

Product description

Boa-flex II cables utilise a microporous PTFE dielectric for low loss with minimal phase change due to temperature changes and flexure. Typical velocity is 77 % of the speed of light. All offer very low loss and are extremely stable with flexure.

Product features

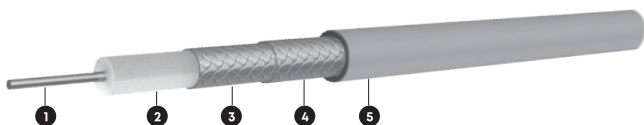
- Impedance 50 Ω
- Applicable up to 14 GHz
- Low density PTFE for superior electrical performance
- Helical wrapped outer conductor for increased electrical performance
- Exceptional phase and IL stability with flexure
- Excellent phase versus temperature characteristics
- Preferred for phase matching and tracking applications



Recommended connectors

32071	TNC, N, SC
	Others available

Construction



Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Outer braid ④	Outer braid ⑤	Outer diameter
						mm
32071	CuAg strand	PTFE microporous	CuAg tape	CuAg	FEP, translucent amber	9.5

Technical data

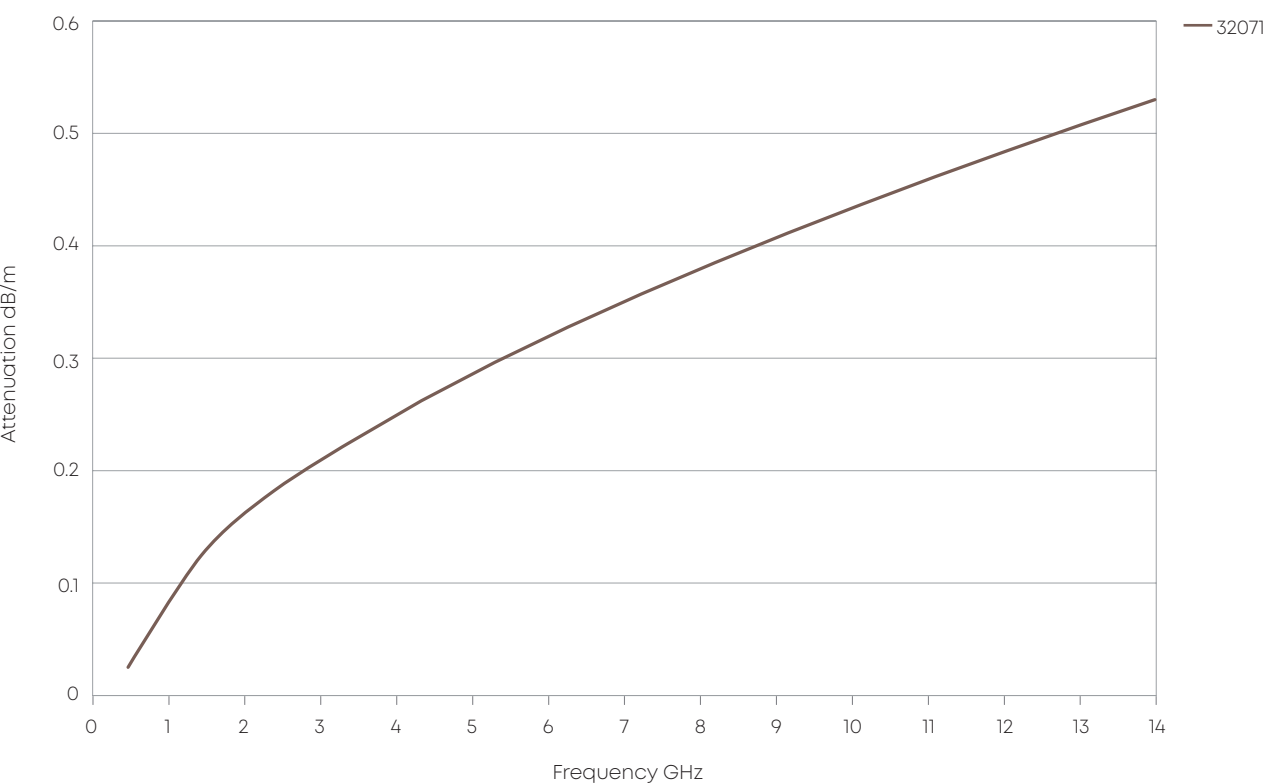
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radius		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
32071	80310956	14	77.8	208.3	50.8	101.6	-55 to +200

Available connectors

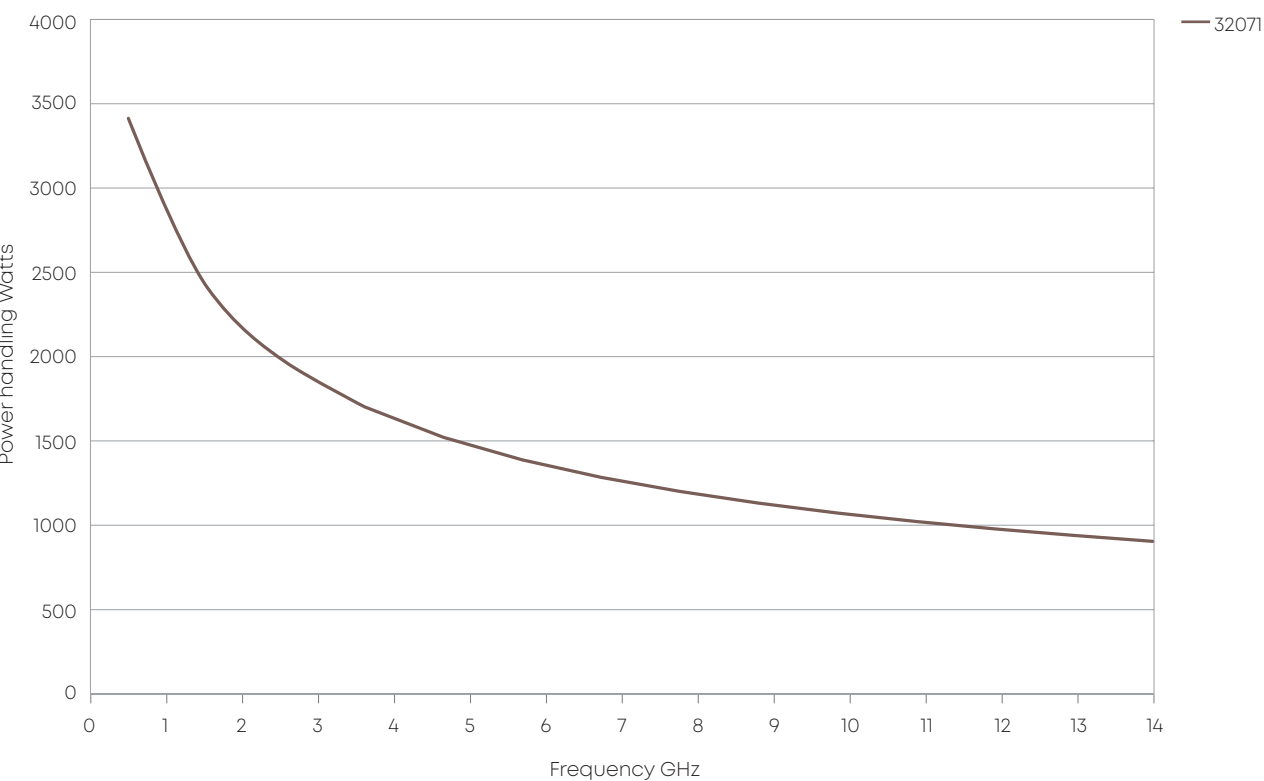
Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
TNC	straight cable plug	29614-32-71	32071	10	80318585
N	straight cable plug	29602-32-71		12.4	80318491
	straight cable jack	29601-32-71		12.4	80318466
	straight bulkhead cable jack	29636-32-71		12.4	80340623
SC	straight cable plug	29608-32-71		10	80318547

Boa-flex II

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



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



The field terminated microwave assembly

Product description

To suit to the needs of our customers, HUBER+SUHNER has developed this innovative solution. Eacon stands for a simple, flexible and fast way to assemble microwave cable and connectors in the field without compromises to the best performance. The new field terminated microwave cable and connectors are light and water-proofed, built for frequencies up to 18 GHz – ready for use in the defense market as well as generally in the industrial market.

Product features

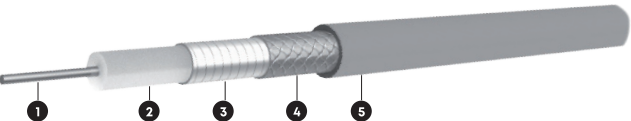
- Impedance 50 Ω
- Applicable up to 18 GHz
- Velocity of propagation 77%
- Field terminated
- Waterproof IP 67
- Low loss
- Extremely reliable
- Assembling tool kits available
- Easy assembling – only two connector parts
- Taking on site decision regarding length and configurations
- Narrowest cable feedthrough dimensions (assembling after installation)
- More added value for customers



Recommended connectors

Eacon_2C	SMA
Eacon_4C	BNC, N, QMA, SMA, TNC
Eacon_6C	TNC, N
Other connectors available on request.	

Construction



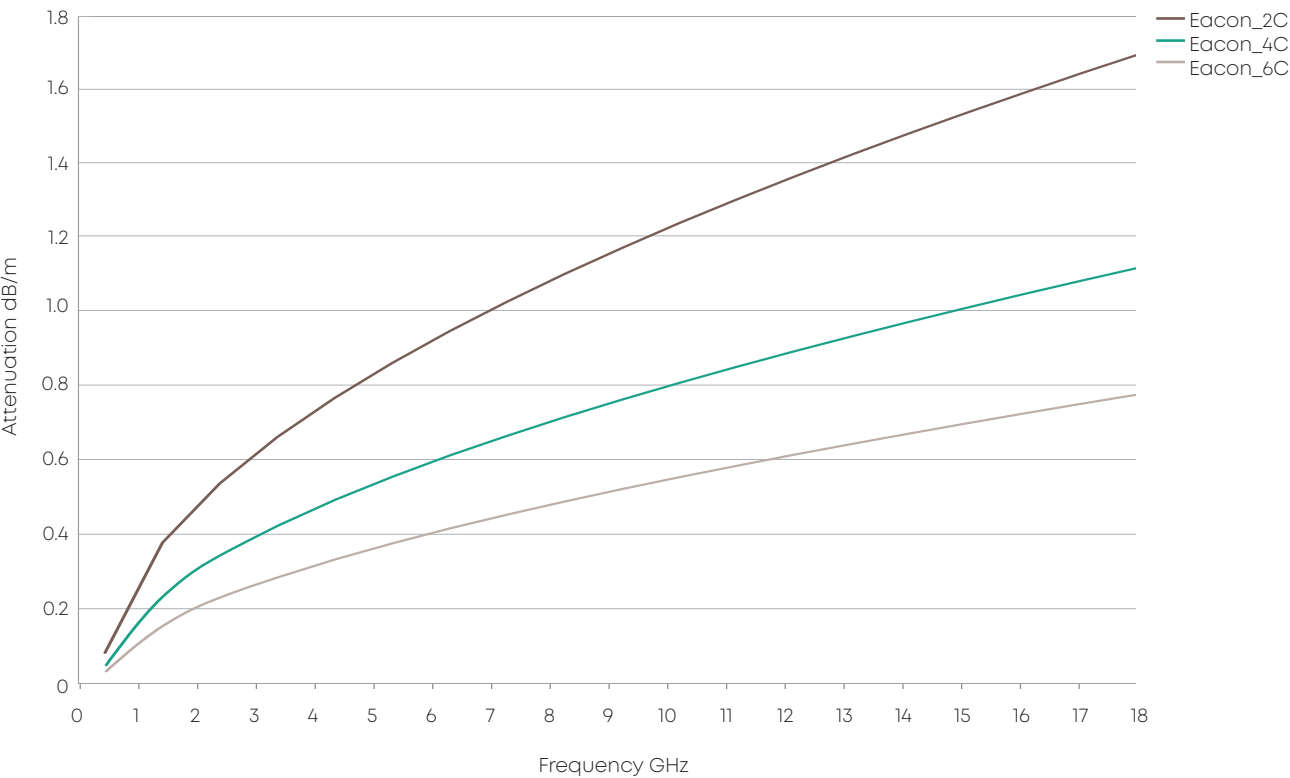
Cable	Item no.	Inner conductor ①	Dielectric ②	Outer conductor ③ ④	Jacket ⑤	Outer Diameter
						mm
Eacon_2C	84116378	CuAg Wire	LD-PTFE	CuAg tape / StCuAg braid	FEP, white	3.75
Eacon_4C	84048293	CuAg Wire	LD-PTFE	CuAg tape / braid	FEP, white	5.50
Eacon_6C	84116403	CuAg Wire	LD-PTFE	CuAg tape / braid	FEP, white	7.70

Assembly types

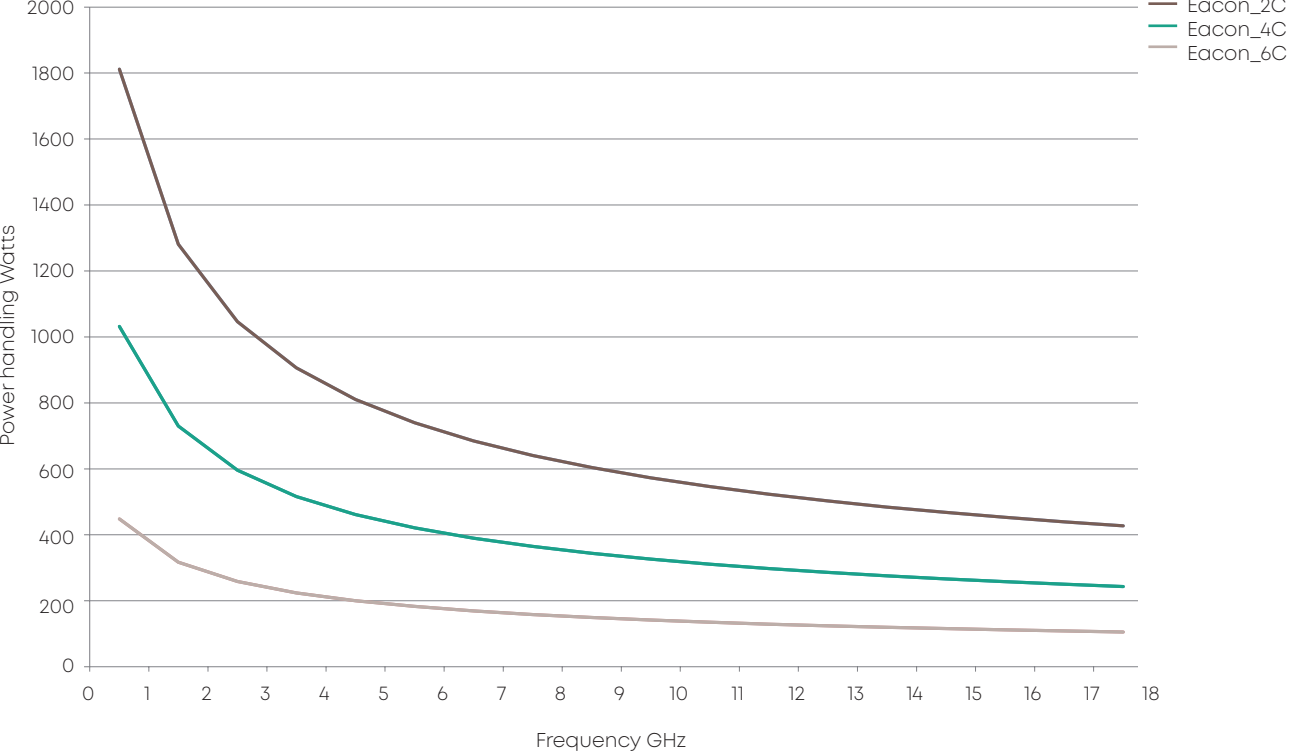
		Eacon_2C	Eacon_4C	Eacon_6C
Construction				
Max. operating frequency	GHz	18	18	18
Application		static	static	static
Velocity of propagation	%	77	77	77
Weight	g/m	39	73	148
Min. bending radius static	mm	12	16	24
Min. bending radius repeated	mm	20	25	40
Temperature range	°C	-55 to +200	-55 to +200	-55 to +200
Tensile load	N	100	180	180
Crush resistance	kN/m	8	8	8
Inner conductor		wire	wire	wire
Dielectric		LD-PTFE	LD-PTFE	LD-PTFE
Outer conductor		Tape /braid	Tape /braid	Tape /braid
Jacket		FEP	FEP	FEP
Outer diameter	mm	3.75	5.50	7.70
Screening effectiveness (up to 18 GHz)	dB	>90	>90	>90
Phase stability vs. flexure, 360°, diameter 55 mm (2C, 4C), 85 mm (6C)	°el/GHz	< 1.2	< 1.7	<2.0
Phase stability vs. temperature (-40 to +85 °C)	ppm	<1'500	< 1'500	< 1'500
Cable attenuation at 25 °C	dB/m	See graph	See graph	See graph
Power handling	watt	See graph	See graph	See graph
Smoke index		naval engineering Standard 711 and ASTM-B 622-92 (140°F for 24 hours, conditioned @ 73°F and 50% relative humidity)	naval engineering Standard 711 and ASTM-B 622-92 (140°F for 24 hours, conditioned @ 73°F and 50% relative humidity)	naval engineering Standard 711 and ASTM-B 622-92 (140°F for 24 hours, conditioned @ 73°F and 50% relative humidity)
Solar radiation		MIL-STD-810, Method 505, Procedure II	MIL-STD-810, Method 505, Procedure II	MIL-STD-810, Method 505, Procedure II
Flammability		MIL-C-87104, Paragraph 4.6.4.8	MIL-C-87104, Paragraph 4.6.4.8	MIL-C-87104, Paragraph 4.6.4.8
Chemical resistance		British Standard 3G100, Part 2, Section 3, Class A	British Standard 3G100, Part 2, Section 3, Class A	British Standard 3G100, Part 2, Section 3, Class A
Fungus		MIL-STD-810, Method 508.3	MIL-STD-810, Method 508.3	MIL-STD-810, Method 508.3
RoHS (2002/95/EC)		compliant	compliant	compliant

Eacon

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



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



Available connectors

Connector	Series, pattern	HUBER+SUHNER type		Eacon_2C	Eacon_4C	Eacon_6C	Typical VSWR			
							4 GHz	6 GHz	11 GHz	18 GHz
BNC	Straight cable plug	11_BNC-50-4-33/12-_NE	84139633		•		1.15			
	Right angle cable plug	16_BNC-50-4-14/12-_NE	84146122		•		1.30			
N	Straight cable plug	11_N-50-4-19/12-_NE	84070286		•			1.12	1.35	1.40
	Straight cable plug	11_N-50-6-19/12-_NE	85074230			•		1.12	1.15	
	Right angle cable plug	16_N-50-4-13/12-_NE	84070287		•			1.12	1.15	1.25 *
	Right angle cable plug	16_N-50-6-14/12-_NE	85074231			•		1.12	1.25	
	Straight panel bulkhead cable jack	24_N-50-4-13/12-_NE	85005806		•			1.12		1.17
	Straight panel cable jack, flange mount	25_N-50-4-8/122_NE	84070288		•			1.12		1.17
QMA	Straight cable plug	11_QMA-W50-4-4/19-_NE	84121825		•			1.12		
SMA	Straight cable plug	11_SMA-50-2-76/199_NE	85074234	•				1.13		1.30
	Straight cable plug	11_SMA-50-4-101/199_NE	84070289		•			1.12		1.15
	Right angle cable plug	16_SMA-50-2-20/199_NE	85074235	•				1.12	1.35	
	Right angle cable plug	16_SMA-50-4-165/199_NE	84070290		•			1.12	1.45	
TNC	Straight cable plug	11_TNC-50-4-23/12-_NE	84070283		•			1.12	1.30	
	Straight cable plug	11_TNC-50-6-8/12-_NE	85074232			•		1.09	1.22	
	Right angle cable plug	16_TNC-50-4-101/12-_NE	84070284		•			1.12	1.30	
	Right angle cable plug	16_TNC-50-6-12/12-_NE	85074233			•		1.17	1.35	
	Straight panel cable jack, flange mount	25_TNC-50-4-18/12-_NE	84070285		•			1.12	1.20	

*(up to 15 GHz)

Eacon

Assembling tool kits for all connectors, used with Eacon 2C/4C/6C cables (with additional space for other auxiliary tools and spare parts).



Combined Eacon 2C / 4C / 6C assembling tool kit

HUBER + SUHNER type	Item no.	Content	Size
74_Z-0-0-647	85075222	all tools, needed to assemble Eacon 2C / 4C / 6C	395 × 315 × 100 mm/ 15.5 × 12.4 × 3.9 in

Eacon 2C assembling tool kit

HUBER + SUHNER type	Item no.	Content	Size
74_Z-0-0-645	85075220	all tools, needed to assemble Eacon 2C	395 × 315 × 100 mm/ 15.5 × 12.4 × 3.9 in

Pos.	HUBER + SUHNER type	Item no.	Description	Comment
1	74_Z-0-0-12	22642718	metal saw	–
2	74_Z-0-0-13	22644241	replacement of saw blade	please order separately (not incl. in the toolbox)
3	74_Z-0-0-475	84079191	torque wrench 8 mm (4 Nm)	please check the torque from time to time
4	74_Z-0-0-474	84078907	trim tool	–
5	74_Z-0-0-638	85075218	stripping tool Eacon 2C	–
6	74_Z-0-0-563	84079618	blades cartridge for stripping tool 74_Z-0-0-638	please order separately (not incl. in the toolbox)
7	74_Z-0-0-639	85075217	Cone	5 pcs.
8	74_Z-0-0-641	85075213	Fixation tool for cutting	

Eacon 4C assembling tool kit

HUBER + SUHNER type	Item no.	Content	Size
74_Z-0-0-606	84074447	all tools, needed to assemble Eacon 4C	395 × 315 × 100 mm/ 15.5 × 12.4 × 3.9 in

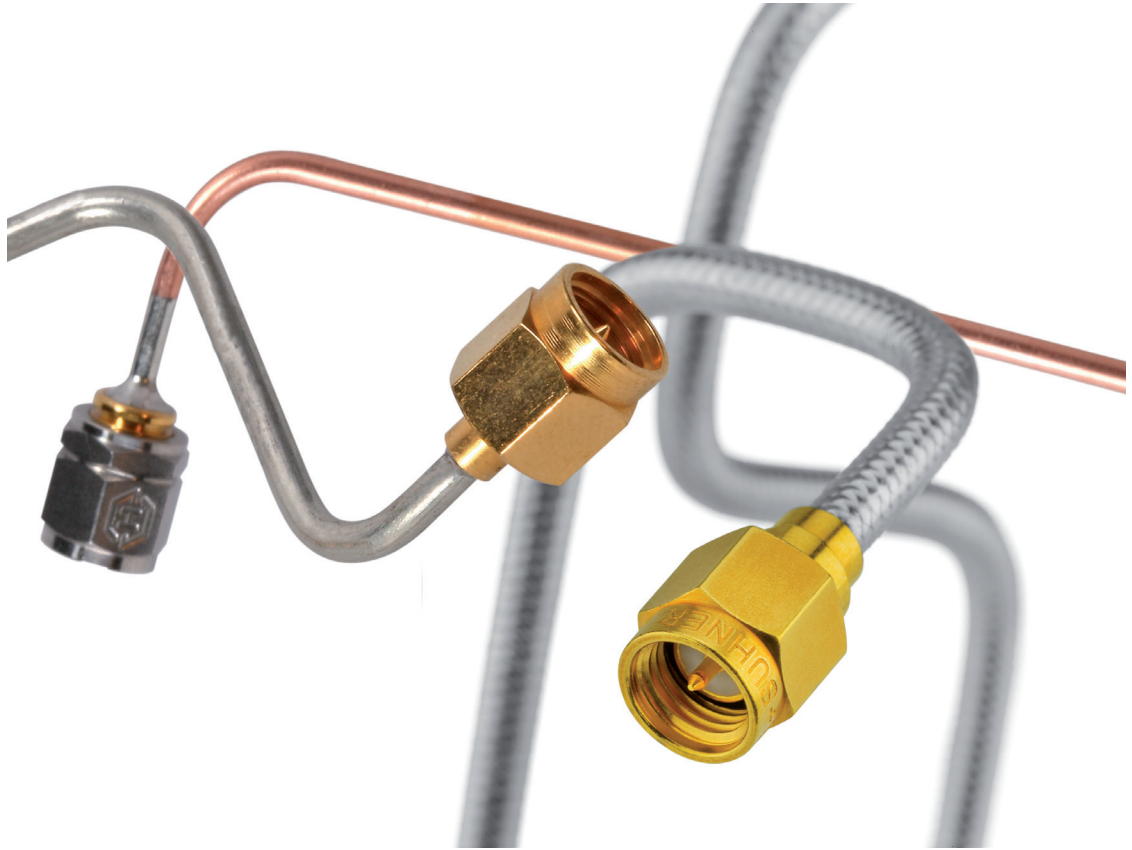
Pos.	HUBER + SUHNER type	Item no.	Description	Comment
1	74_Z-0-0-12	22642718	metal saw	–
2	74_Z-0-0-13	22644241	replacement of saw blade	please order separately (not incl. in the toolbox)
3	74_Z-0-0-475	84079191	torque wrench 8 mm (4 Nm)	please check the torque from time to time
4	74_Z-0-0-474	84078907	trim tool	–
5	74_Z-0-0-473	84079184	stripping tool Eacon 4C	–
6	74_Z-0-0-563	84079618	blades cartridge for stripping tool 74_Z-0-0-473	please order separately (not incl. in the toolbox)
7	74_Z-0-0-642	85075214	Fixation tool for cutting	

Eacon 6C assembling tool kit

HUBER + SUHNER type	Item no.	Content	Size
74_Z-0-0-646	85075221	all tools, needed to assemble Eacon 6C	395 × 315 × 100 mm/ 15.5 × 12.4 × 3.9 in

Pos.	HUBER + SUHNER type	Item no.	Description	Comment
1	74_Z-0-0-12	22642718	metal saw	–
2	74_Z-0-0-13	22644241	replacement of saw blade	please order separately (not incl. in the toolbox)
3	74_Z-0-0-480	84079190	torque wrench 12 mm (5 Nm)	please check the torque from time to time
4	74_Z-0-0-474	84078907	trim tool	–
5	74_Z-0-0-640	85075219	stripping tool Eacon 6C	–
6	74_Z-0-0-564	84079619	blades cartridge for stripping tool 74_Z-0-0-640	please order separately (not incl. in the toolbox)
	74_Z-0-0-643	85075215	Fixation tool for cutting	

Formstable assemblies



Handformable and formstable microwave cable assemblies

Sucoform microwave coaxial cables offer distinct mechanical advantages over semi-rigid cables. They are based on the same design as the standard PTFE insulated semi-rigid cables, but have a tin-soaked copper braid for the outer conductor, giving them outstanding hand-formability. These cables combine the excellent characteristics of semi-rigid cables with those of flexible coaxial cables. Thanks to their small bending radii, they allow spacesaving routing and packaging.

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. The semi-rigid cables provide greatly extended environmental parameters. The cables exhibit highly favourable electrical characteristics, particularly an impedance tolerance as low as 0.5 Ohm for a 0.0141" diameter cable with nominal impedance of 50 Ohm.

Sucoform

The handformable alternative to semi-rigid

- Frequency range up to 40 GHz
- High phase stability
- Good flexibility
- Quick and easy assembling



Cobra-flex

The flexible semi-rigid microwave coaxial cable assemblies

- Frequency range up to 40 GHz
- Minimal dielectric migration
- Standard semi-rigid size
- Optional extended temperature range -269 to $+250$ °C



Semi-rigid

The form stable microwave cable

- Frequency range up to 67 GHz
- Excellent VSWR performance
- Easy to form, strip and solder
- Small sizes permit use in high-density areas



Sucoform

The handformable alternative to semi-rigid

Product description

Sucoform microwave coaxial cables offer distinct mechanical advantages over semi-rigid cables. They are based on the same design as the standard PTFE insulated semi-rigid cables, but have a tin-soaked copper braid for the outer conductor, giving them outstanding hand-formability. These cables combine the excellent characteristics of semi-rigid cables with those of flexible coaxial cables. Thanks to their small bending radii, they allow space saving routing and packaging.



Product features

- Impedance 50 Ω
- Applicable up to 40 GHz
- Due to the high phase stability over every production run, Sucoform is especially suitable for delay lines
- Good flexibility: easy hand forming without tooling; fits into the smallest systems
- Quick and easy assembly for design and manufacture

Recommended connectors

SM_47_CU	MMCX, MCX, SMA, SK
SM_86	MCX, MMCX, SMA, SMB, SMC, PC3.5, SK, QMA, TNC, N
SM_141	SMA, PC3.5, QMA, TNC, N, QN
SM_250-01	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
SM_47_CU	CuAg Wire	PTFE	Sn soaked Cu braid	1.2	> 90
SM_86	StCuAg Wire	PTFE	Sn soaked Cu braid	2.1	> 90
SM_141	StCuAg Wire	PTFE	Sn soaked Cu braid	3.6	> 90
SM_250-01	CuAg Wire	PTFE	Sn soaked Cu braid	6.4	> 90

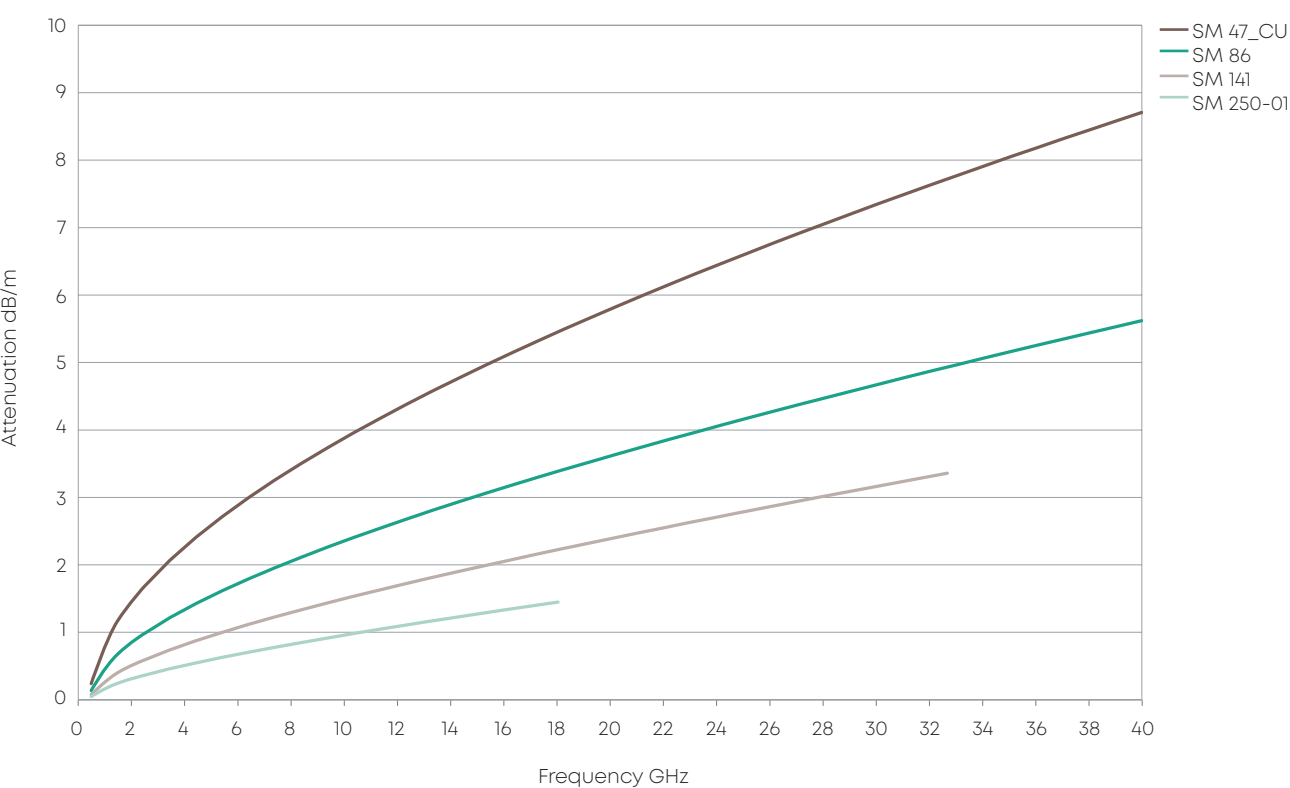
Sucoform cables are available with different jackets, inner conductor materials and impedances.

Technical data

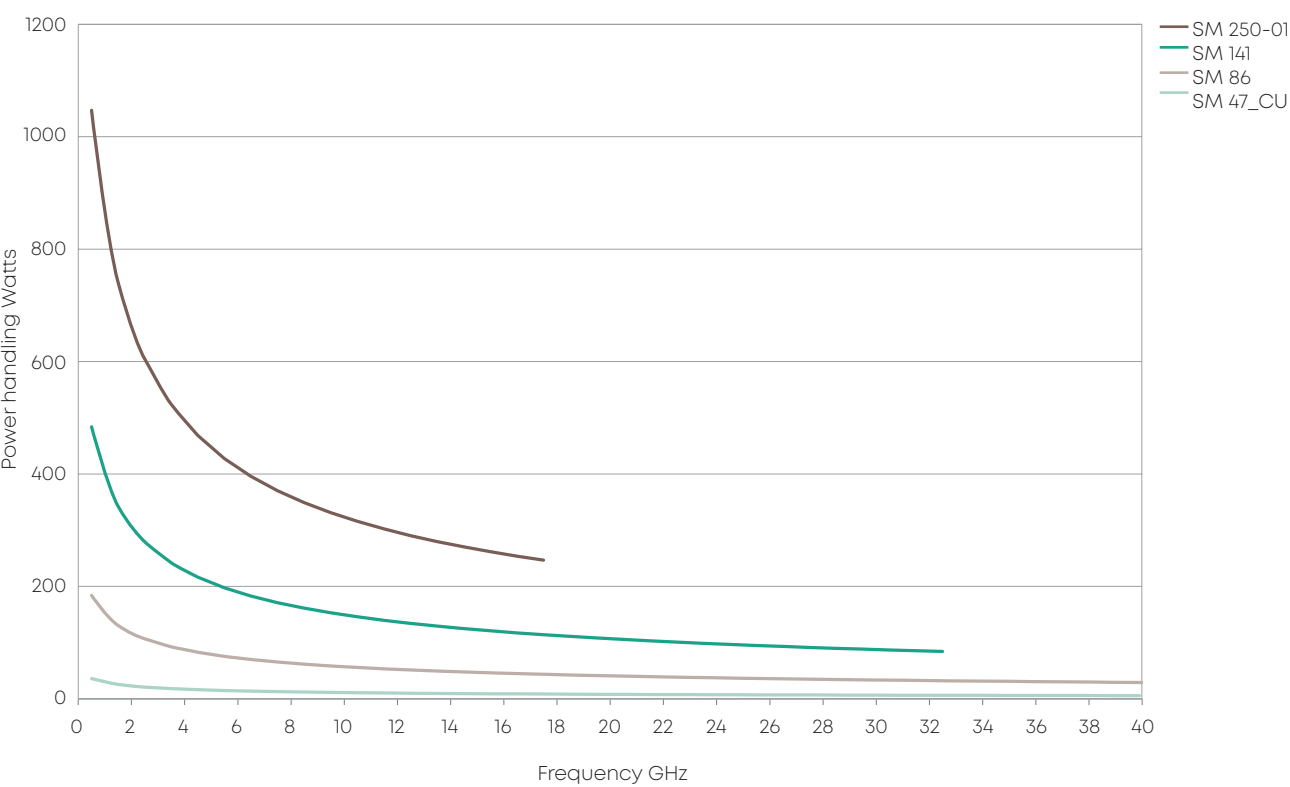
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radii		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
SM_47_CU	23033515	40	71	6	3.18	n/a	-65 to +165
SM_86	22511613	40	71	15	6	20	-65 to +165
SM_141	22511925	33	71	38	8	40	-65 to +165
SM_250-01	84007938	18	71	130	30	120	-65 to +165

Sucoform

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

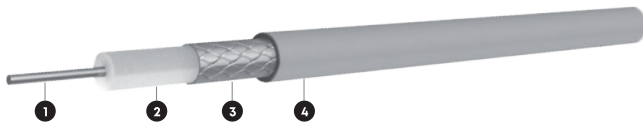


Power handling (maximum values at 25 °C ambient temperature and sea level)



Sucoform – with protective jacket

Construction



Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Jacket ④	Outer diameter	Screening effectiveness up to 18 GHz
					mm	dB
SM_47_CU_LSFH	CuAg Wire	PTFE	Sn soaked Cu braid	LSFH	1.7	> 90
SM_86_PE	StCuAg Wire	PTFE	Sn soaked Cu braid	PE	3.2	> 90
SM_86_FEP	StCuAg Wire	PTFE	Sn soaked Cu braid	FEP	2.5	> 90
SM_141_CU_PE	CuAg Wire	PTFE	Sn soaked Cu braid	PE	4.6	> 90
SM_141_CU_FEP	CuAg Wire	PTFE	Sn soaked Cu braid	FEP	4.1	> 90
SM_250-01_FEP	CuAg Wire	PTFE	Sn soaked Cu braid	FEP	6.8	> 90

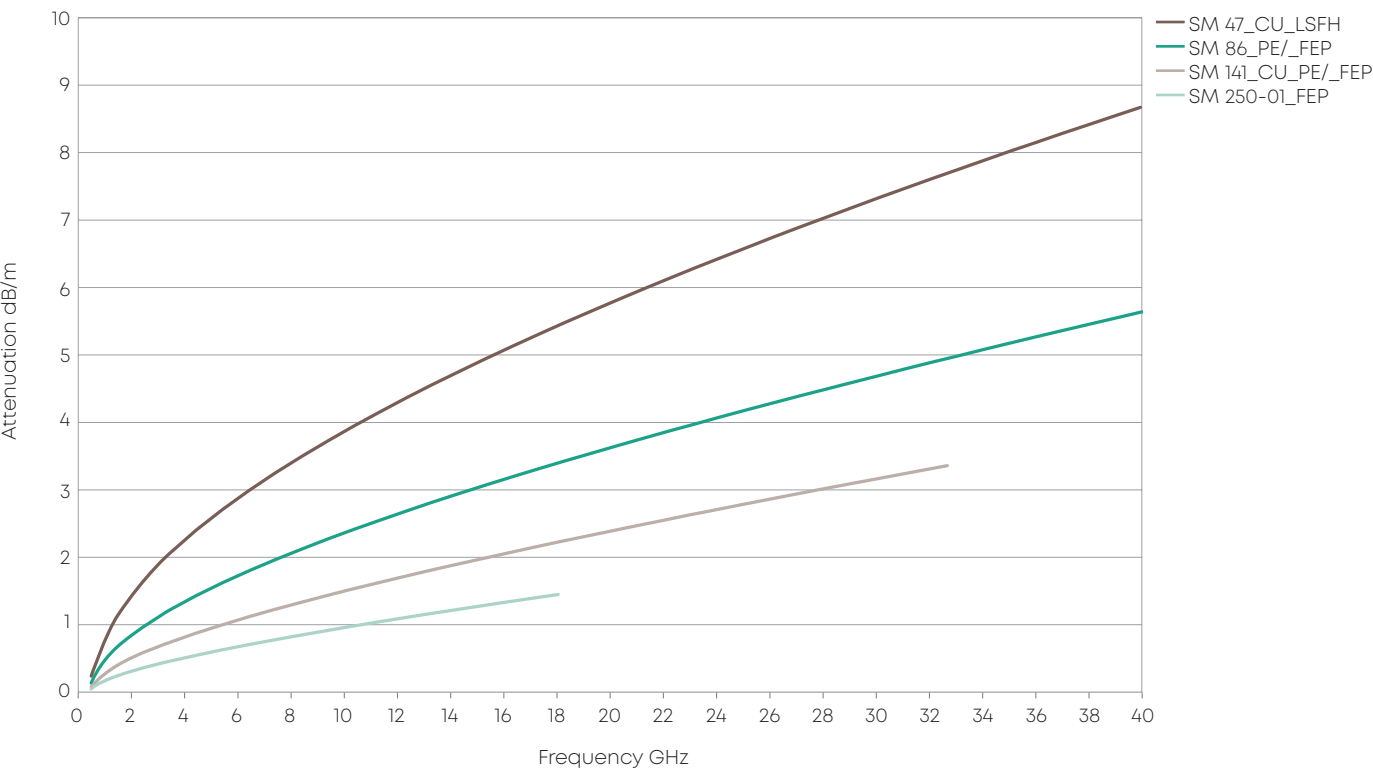
Sucoform cables are available with different inner conductor materials and impedances.

Technical data

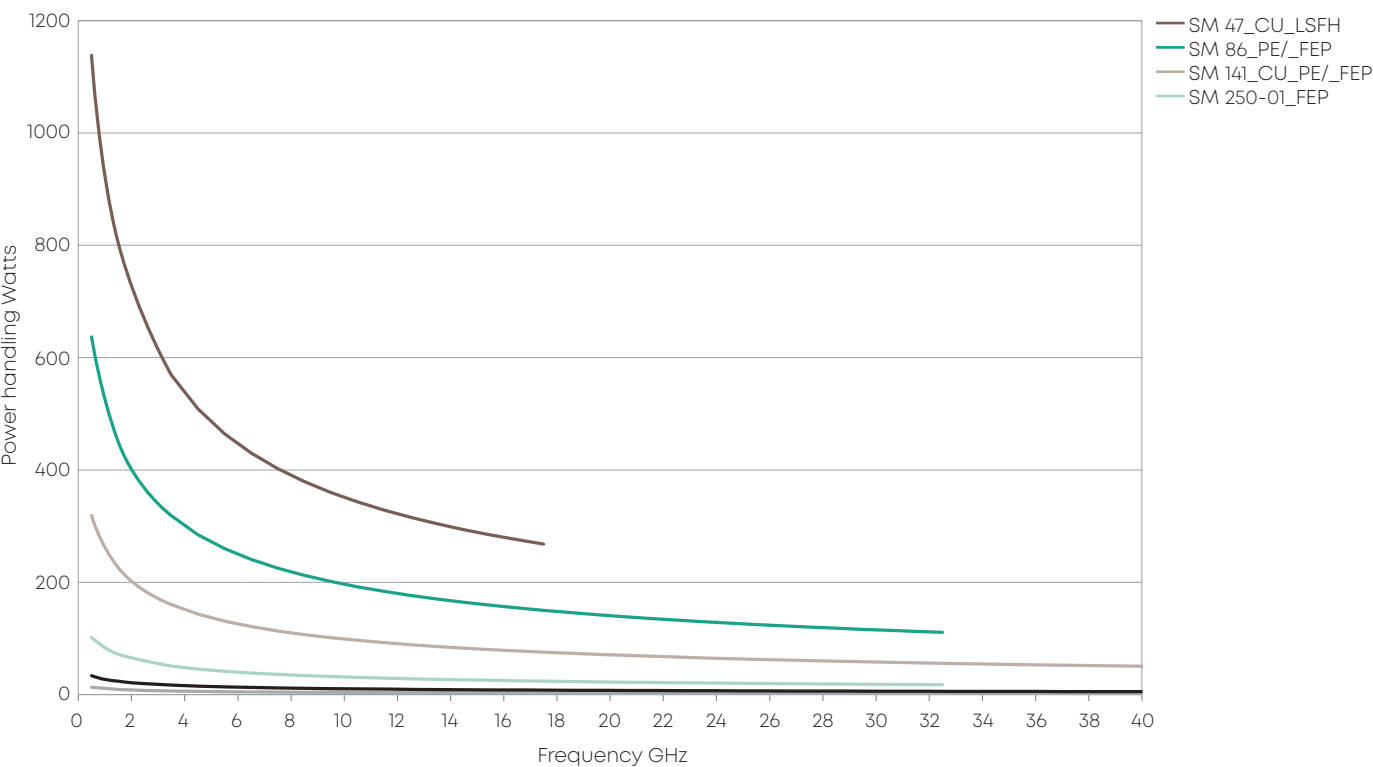
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radii		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
SM_47_CU_LSFH	23035506	40	71	7	4	n/a	-40 to +85
SM_86_PE	22511631	40	71	19	6	20	-40 to +85
SM_86_FEP	22511942	40	71	18	6	20	-65 to +165
SM_141_CU_PE	22511639	33	71	47	8	40	-40 to +85
SM_141_CU_FEP	22512256	33	71	47	8	40	-65 to +165
SM_250-01_FEP	84007941	18	71	138	30	120	-65 to +165

Sucoform – with protective jacket

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



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



RF cable assembly SPJ/SM

Standard plenum jumper with Sucoform cables

Cable types	Cable attenuation	Jacket diameter	Bending radius
Sucoform 122 LA Cu CMP	0.66 dB/m @ 2.7 GHz	3.75 mm	min. 5 mm
Sucoform 141 LA Cu CMP	0.61 dB/m @ 2.7 GHz	4.20 mm	min. 8 mm
Sucoform 222 LA Cu CMP	0.41 dB/m @ 2.7 GHz	6.20 mm	min. 25 mm

Connector types	Male straight	Male angle	Female straight
DIN 7/16	X	X	X
DIN 4.1/9.5	X	X	X
N	X	X	X
4.3-10-X (HEX. Nut)	X	X	X
SMA	X	X	X
QMA	X		
NEX10	X	X	X

Technical data			
Frequency range	DC up to 6 GHz		
Return loss	Frequency 0.38 to 1.0 GHz up to 2.2 GHz up to 2.7 GHz up to 3.8 GHz up to 6 GHz	Straight/straight ≥ 29 dB ≥ 27 dB ≥ 26 dB ≥ 23 dB ≥ 20 dB	Straight/angle ≥ 28 dB ≥ 25 dB ≥ 24 dB ≥ 20 dB ≥ 19 dB
PIM performance at 1.8GHz 2x 43dBm	≤ 160 dBc (QMA: ≤ 140 dBc)	typical —165 dBc	

Environmental data	
Temperature range	—40 to 105 °C
Waterproof	IP67 (0.5 m/1 h/20 °C)
Cable performance	UV resistance
	UL444/CMP/FT6, ETL listed
	Jacket colour: white
Further information	100 % tested for return loss, attenuation and PIM Serial product label on each jumper for tracking Stock items in lengths of 0.5 up to 5 m



Sucoform

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
MCX	straight cable plug	11_MCX-50-1-14/111_NE	SM_47_CU	6	23032081
	right angle cable plug	16_MCX-50-1-12/111_NE		6	23024694
	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	SM_47_CU	6	22648893
	right angle cable plug	16_MMCX-50-1-12/111_OE		6	84030531
	right angle cable plug	16_MMCX-50-1-4/111_OE		6	22649182
	straight panel bulkhead cable jack	24_MMCX-50-1-3/111_OE		6	22652326
SK	straight cable plug	11_SK-50-1-2/119_NE	SM_47_CU	40	84013232
SMA	straight cable plug	11_SMA-50-1-2/111_NE	SM_47_CU	18	22642388
	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	SM_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
MMBX	straight cable plug	11_MMBX-50-2-4/111_NE	SM_86	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	SM_86	6	22645297
	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	SM_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
	straight panel cable jack, flange mount	25_N-50-2-14/133_NE		18	22641303
PC3.5	straight cable plug	11_PC35-50-2-4/199_UE	SM_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	SM_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	SM_86	40	84013230
	straight cable jack	21_SK-50-2-58/199_NE		40	84019664
SMA	straight cable plug	11_SMA-50-2-15/111_NE	SM_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

Sucoform

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
SMA	straight cable jack	21_SMA-50-2-15/111_NE	SM_86	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
SMB	straight cable plug	11_SMB-50-2-13/111_NE	SM_86	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	SM_86	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	SM_86	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	SM_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
	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	SM_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	SM_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	SM_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	SR_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	SR_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	SM_250-01	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	SM_250-01	11	84008445
	right angle cable plug	16_N-50-5-7/13-_H		7.5	21000191
SMA	straight cable plug	11_SMA-50-5-1/111_NE	SM_250-01	18	22642399

Cobra-flex

The flexible semi-rigid microwave coaxial cable assemblies

Product description

cobra-flex is high performance semi-rigid cables which utilise a seamless outer conductor to provide excellent RF shielding. The convoluted design gives this cable excellent phase tracking characteristics over temperature due to minimal dielectric migration. These cables are offered with many options including tin-plated outer conductor, copper clad steel center conductor for low thermal conductivity in cryogenic applications.

Product features

- Impedance 50 Ω
- Applicable up to 40 GHz
- Minimal dielectric migration
- Higher flexibility without outer conductor fatiguing
- Standard semi-rigid sizes
- Optional extended temperature range
–269 to +250 °C for cryogenic applications



Recommended connectors

31086	SMA, SK, 3.5 mm, TNC, N
31000	SMA, TNC, N, 3.5 mm
31000S	SMA, TNC, N, 3.5 mm

Construction



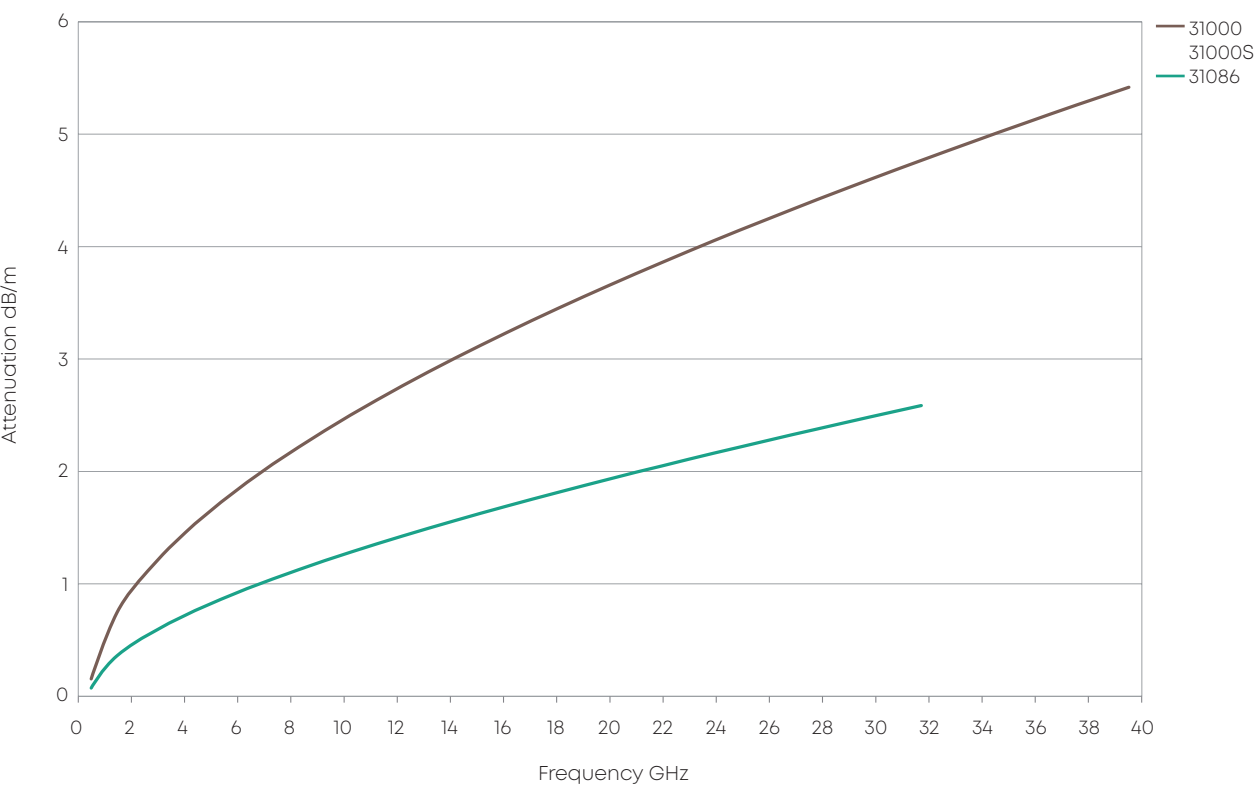
Cable	Inner conductor ①	Dielectric ②	Outer conductor ③	Outer diameter mm
31000	CuAg wire	PTFE	StCu tube	3.6
31000S	StCuAg wire	PTFE	StCu tube	3.6
31086	CuAg wire	PTFE	StCu tube	2.2

Technical data

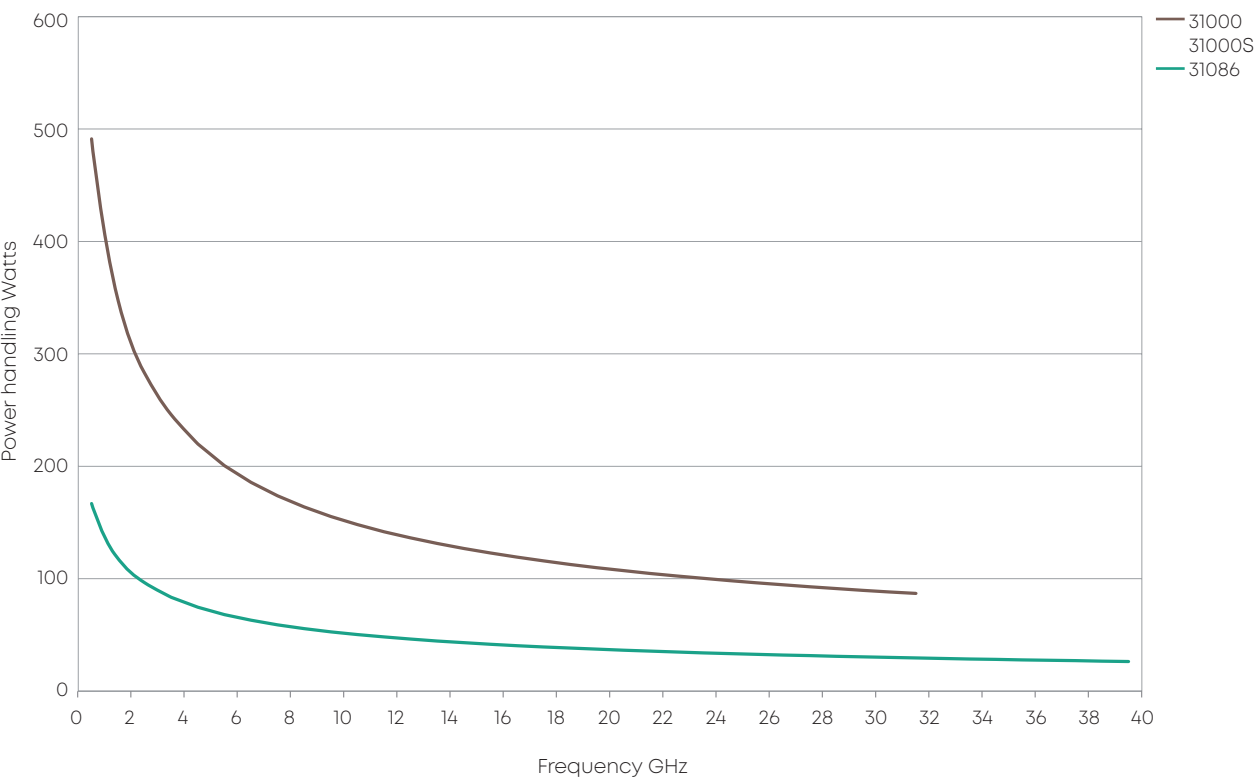
Cable	Item no.	Replacement for	Max. operating frequency	Velocity of propagation	Weight g/m	Min. bending radii		Temperature range °C
			GHz	%		static mm	repeated mm	
31000	80310897	RG_402	32	70.3	35.7	19.1	57.2	–55 to +200
31000S	80320630		32	70.3	35.7	19.1	57.2	
31086	80310901	RG_405	40	70.3	20.8	8.9	26.7	

Cobra-flex

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



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



Cobra-flex

Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency GHz	Item no.
SMA	straight cable plug	29044-2	31000	26.5	80315306
	straight cable jack	29045-5		25	80315359
	straight cable plug	29043-31	31000S	26.5	80340083
	straight cable jack	29045-5		25	80315359
	straight cable plug	29044-1	31086	26.5	80315299
	straight cable jack	29045-6		25	80315360
SK	straight cable jack	29045K-1	31086	30	80363345
3.5 mm	straight cable plug	29802-1	31000	26.5	80319751
	straight cable jack	29803-1		26.5	80319756
	straight bulkhead cable jack	29803F-1		26.5	80319758
	straight cable plug	29802-1	31000S	26.5	80319751
	straight cable jack	29803-1		26.5	80319756
	straight bulkhead cable jack	29803F-1		26.5	80319758
	straight cable plug	29802-2	31086	26.5	80319752
	straight cable jack	29803-2		26.5	80319757
	straight bulkhead cable jack	29803F-2		26.5	80319759
TNC	straight cable plug	29714-1	31000	15	80319117
	straight bulkhead cable jack	29320-1		15	80317410
	straight bulkhead precision cable jack	29320P-1		18	80340472
	straight cable plug	29714-1	31000S	15	80319117
	straight cable jack	29320-1		15	80317410
	straight bulkhead precision cable jack	29320P-1		18	80340472
	straight precision cable plug	29714-2	31086	15	80319122
N	straight cable plug	29080-1	31000	18	80315810
	straight bulkhead cable jack	29082P-1		18	80316012
	straight cable plug	29080-1	31000S	18	80315810
	straight bulkhead cable jack	29082P-1		18	80316012
	straight cable plug	29080-2	31086	18	80315825

Semi-rigid

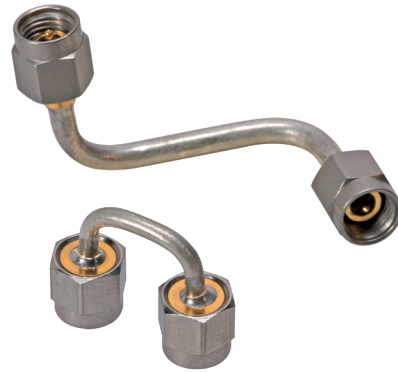
The copper form stable microwave cable

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

SR_47	MMCX, MCX, SMA, SK
SR_86	MCX, MMCX, SMA, PC3.5, SK, QMA, TNC, N
SR_118	SK
SR_141	SMA, PC3.5, QMA, TNC, N, QN
SR_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
SR_47_TP_M17	StCuAg Wire	PTFE	CuSn tube	1.2	> 90
SR_86_TP_M17	StCuAg Wire	PTFE	CuSn tube	2.2	> 90
SR_118_TP	StCuAg Wire	PTFE	CuSn tube	3.0	> 90
SR_141_TP_M17	StCuAg Wire	PTFE	CuSn tube	3.6	> 90
SR_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	
SR_47_TP_M17	22810504	40	69.5	7.1	3.18	n/a	-40 to +100
SR_86_TP_M17	22810175	40	69.5	24	3.18	n/a	-40 to +125
SR_118_TP	22810073	40	80.0	34	9.53	n/a	-40 to +125
SR_141_TP_M17	22810043	33	69.5	52	6.35	n/a	-40 to +125
SR_250_TP_M17	22810705	18	69.5	158	19.0	n/a	-40 to +90

Semi-rigid

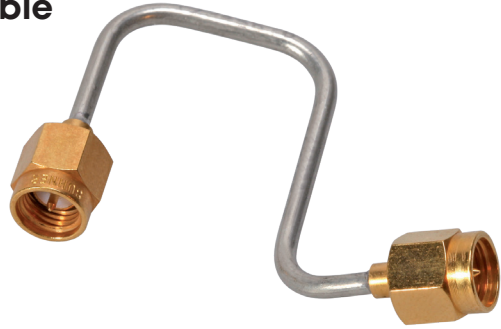
The aluminium form stable microwave cable

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

SR_47	MMCX, MCX, SMA, SK
SR_86	MCX, MMCX, SMA, PC3.5, SK, QMA, TNC, N
SR_118	SK
SR_141	SMA, PC3.5, QMA, TNC, N, QN
SR_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
SR_47_AL_TP_M17	StCuAg Wire	PTFE	AlSn tube	1.2	> 90
SR_86_AL_TP_M17	StCuAg Wire	PTFE	AlSn tube	2.2	> 90
SR_141_AL_TP_M17	StCuAg Wire	PTFE	AlSn tube	3.6	> 90
SR_250_AL_TP_M17	CuAg Wire	PTFE	AlSn tube	6.4	> 90

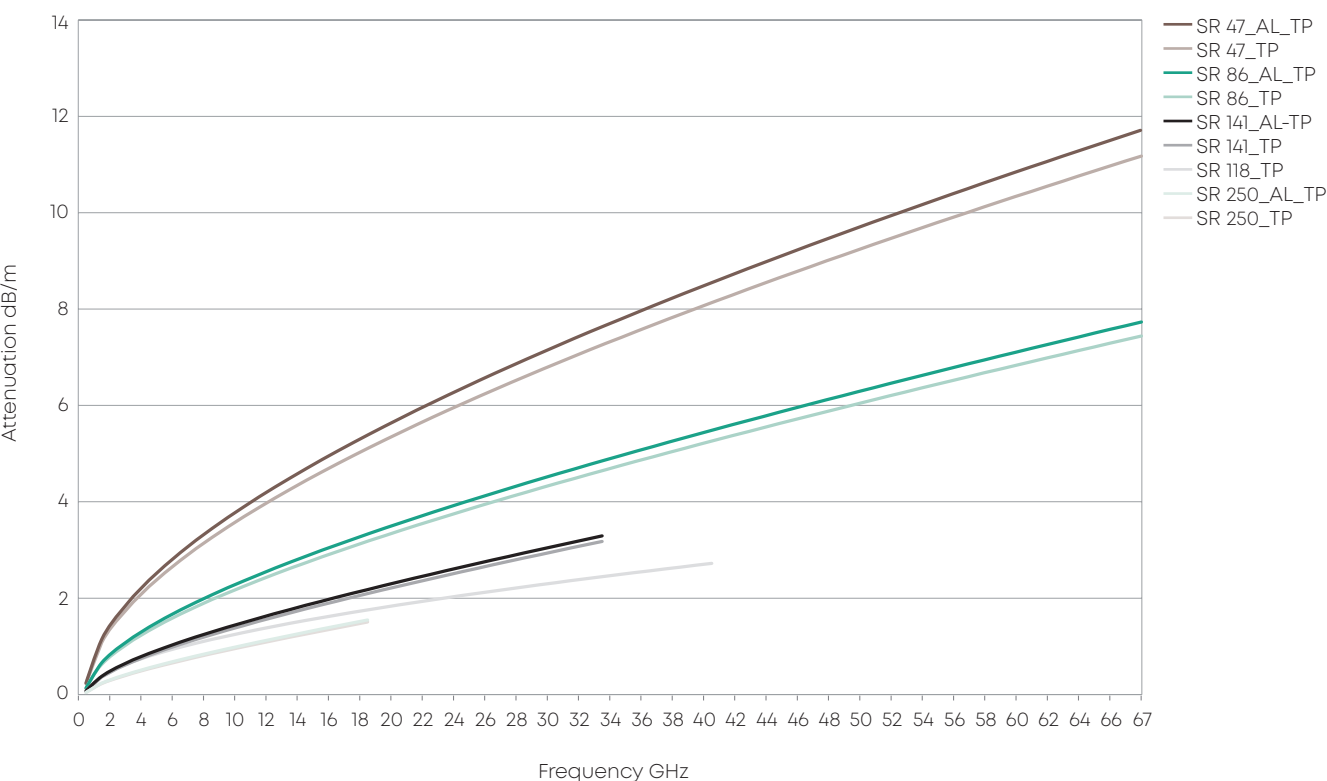
Other semi rigid cables available on request (e.g. other impedances, other conductor materials).
Standard form of bulk delivery = 100 ft coils (30.48 m), shorter lengths on request.

Technical data

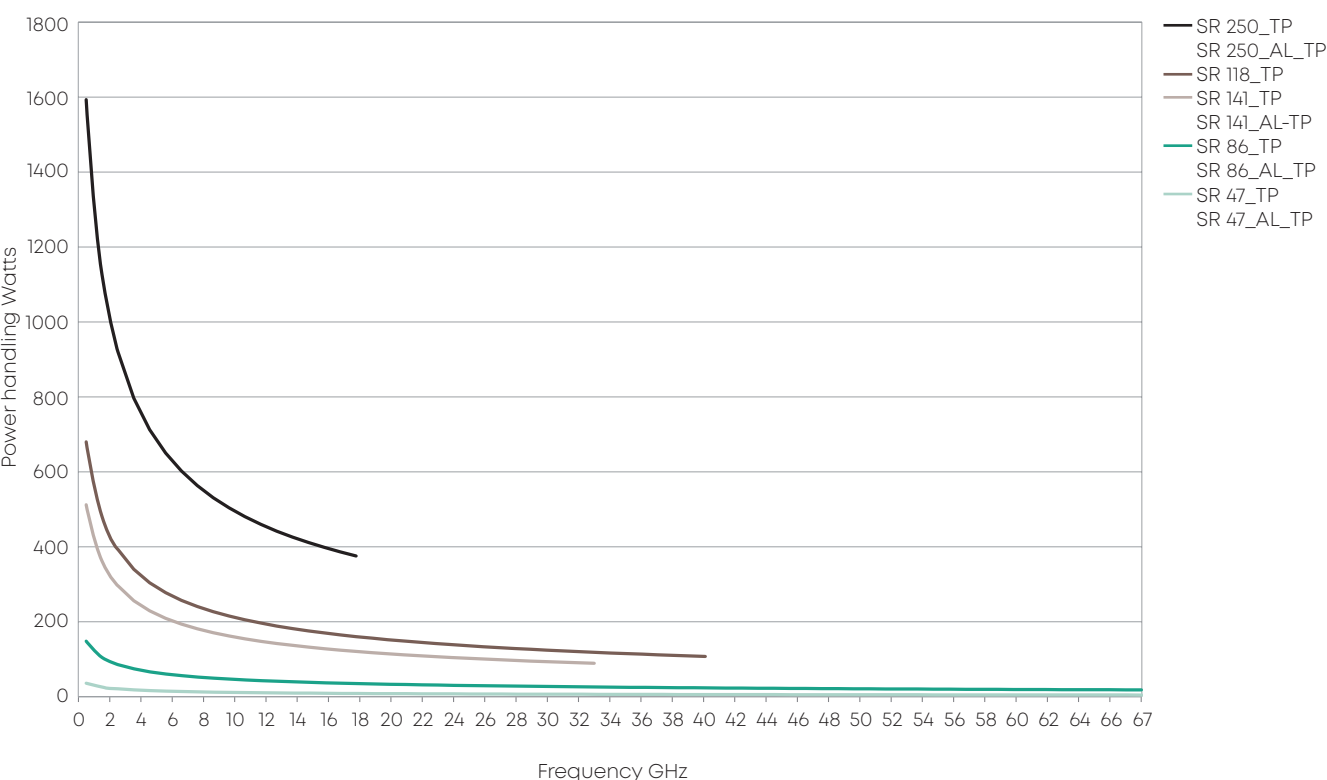
Cable	Item no.	Max. operating frequency	Velocity of propagation	Weight	Min. bending radius		Temperature range
		GHz	%	g/m	static mm	repeated mm	°C
SR_47_AL_TP_M17	22810510	67	69.5	3.1	1.27	n/a	-40 to +100
SR_86_AL_TP_M17	22810167	67	69.5	11.9	1.78	n/a	-40 to +125
SR_141_AL_TP_M17	22810015	33	69.5	30.5	3.18	n/a	-40 to +125
SR_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)



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



Semi-rigid

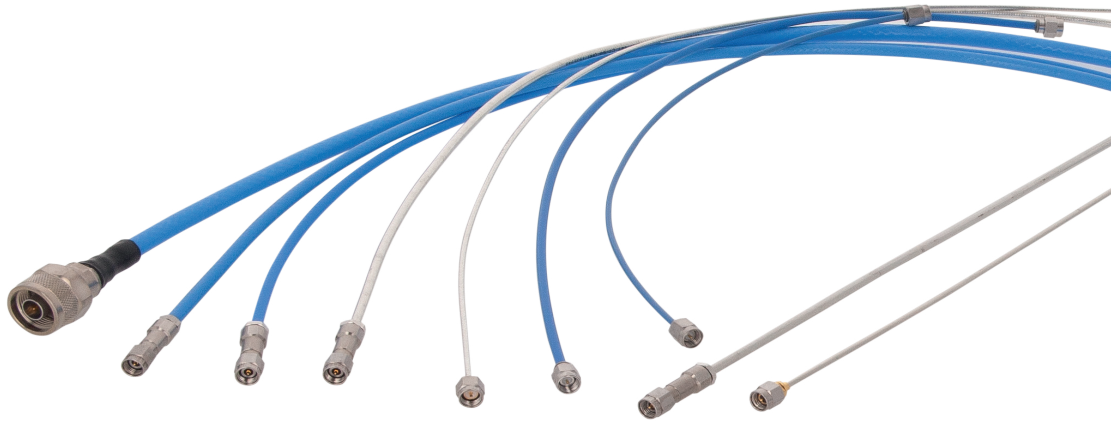
Available connectors

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency GHz	Item no.
MCX	straight cable plug	11_MCX-50-1-14/111_NE	SR_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	SR_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	SR_47	40	84013232
SMA	straight cable plug	11_SMA-50-1-53/119_NH	SR_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	SR_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	SR_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	SR_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	SR_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	SR_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	SR_86	40	84013230
SMA	straight cable plug	11_SMA-50-2-15/111_NE	SR_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	SR_86	11	22642519
	straight panel bulkhead cable jack	24_TNC-50-2-31/133_NE		11	23001721

Semi-rigid

Connector	Series, pattern	HUBER+SUHNER type	Cable	Operating frequency	Item no.
				GHz	
SK	straight cable plug	11_SK-50-2-51/119_NE	SR_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	SR_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	SR_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	SR_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	SR_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	SR_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	SR_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	SR_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	SR_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	SR_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

CT product family



Features

- Excellent phase and insertion loss stability over temperature
- Superior phase stability versus bending
- Outstanding return loss and shielding effectiveness performance
- Easy installation
- Small bending radii

Benefits

- Increased system accuracy over temperature change
- Stable system performance over multiple temperature cycles
- Product reliability - meeting the specified values not only at one single temperature

CT product family

The HUBER+SUHNER CT product family is developed for phase critical applications requiring precision electrical length connectivity. Thus, it creates a stable and reliable interconnect solution to satisfy a huge range of customer applications where phase stability is key.

These products provide the industry leading phase vs. temperature performance, as well as a unique range of cable constructions to fulfil any customer demands.

Depending on the application, there is a broad variety of products lines available:

- Sucoform CT Hand formable, form stable cable with tin soaked braid outer conductor
- Semi-rigid CT Form stable cable with tubular, tin plated outer conductor
- Minibend CT Flexible cable assembly with bend-to-the-end connector termination
- Multiflex CT Flexible alternative to Semi-Rigid microwave cables

CT Portfolio Overview

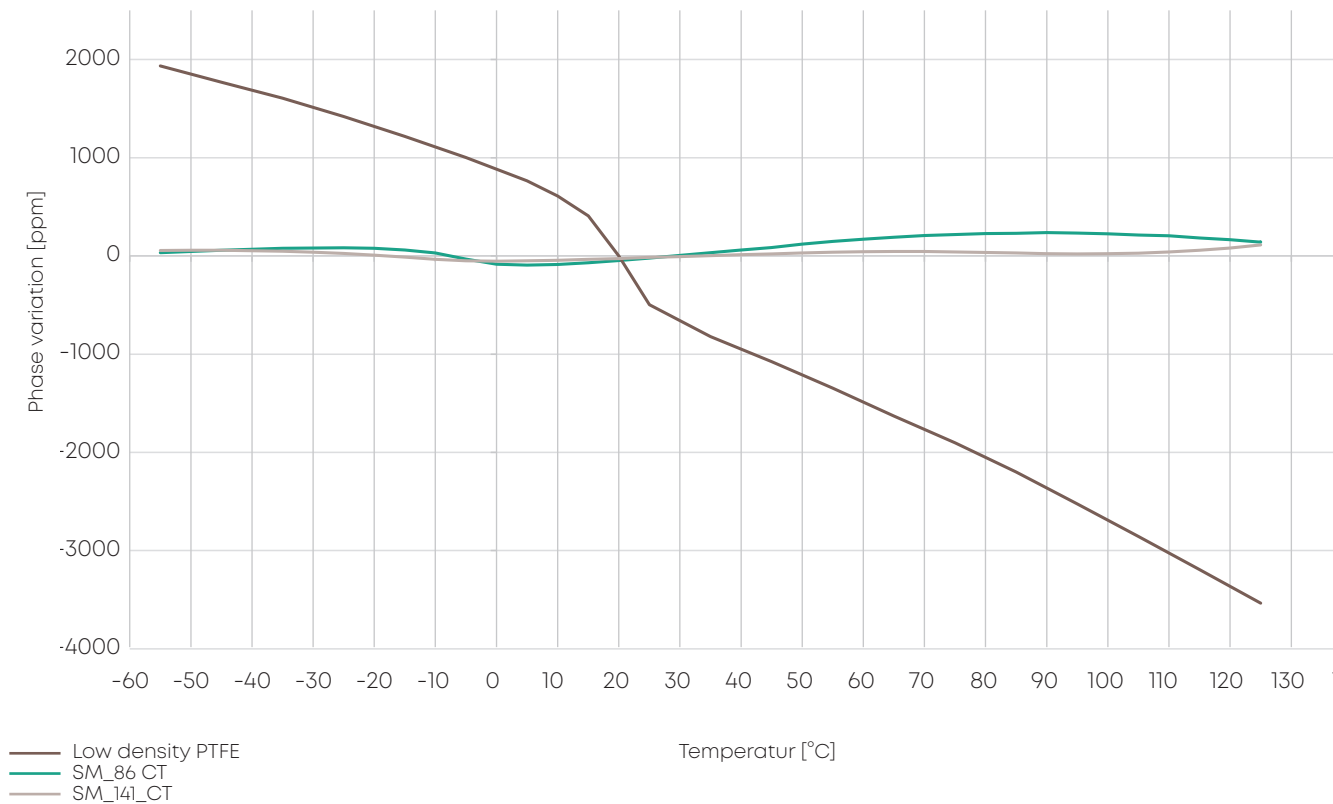
	0.086"	0.141"	0.210"	0.318"
Semi-rigid	✓	✓		
Sucoform	✓	✓		
Minibend	✓	✓		
Multiflex		✓	✓	✓

Sucoform CT



- Benefits**
- Static applications
 - Frequency range up to 40GHz
 - Space and time saving routing
 - Quick and easy assembling

Phase variation vs. temperature



Product Overview

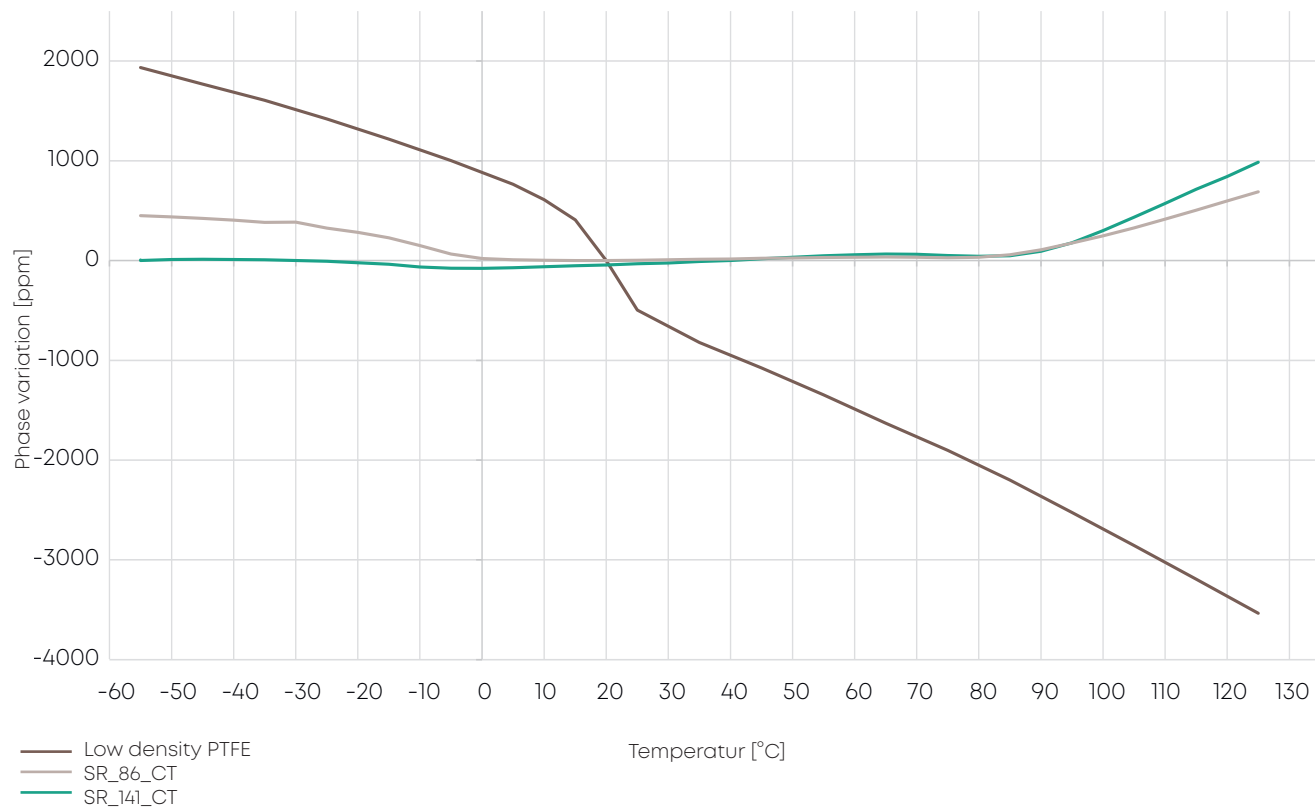
Description	Frequency range	Insertion loss @18GHz	Outer diameter	Connectors
Sucoform_86_CT	40 GHz	3.18 dB/m	2.15 mm	SK, SMA, MMPX
Sucoform_141_CT	30 GHz	1.93 dB/m	3.58 mm	SK, SMA, BMA

Semi-rigid CT



- Benefits**
- Static applications
 - Frequency range up to 40GHz
 - Easy to form, strip and solder
 - Space and time saving installation

Phase variation vs. temperature



Product Overview

Description	Frequency range	Insertion loss @18GHz	Outer diameter	Connectors
SR_86_CT	40 GHz	3.18 dB/m	2.2 mm	SK, SMA, MMPX
SR_141_CT	33 GHz	1.8 dB/m	3.58 mm	SK, SMA

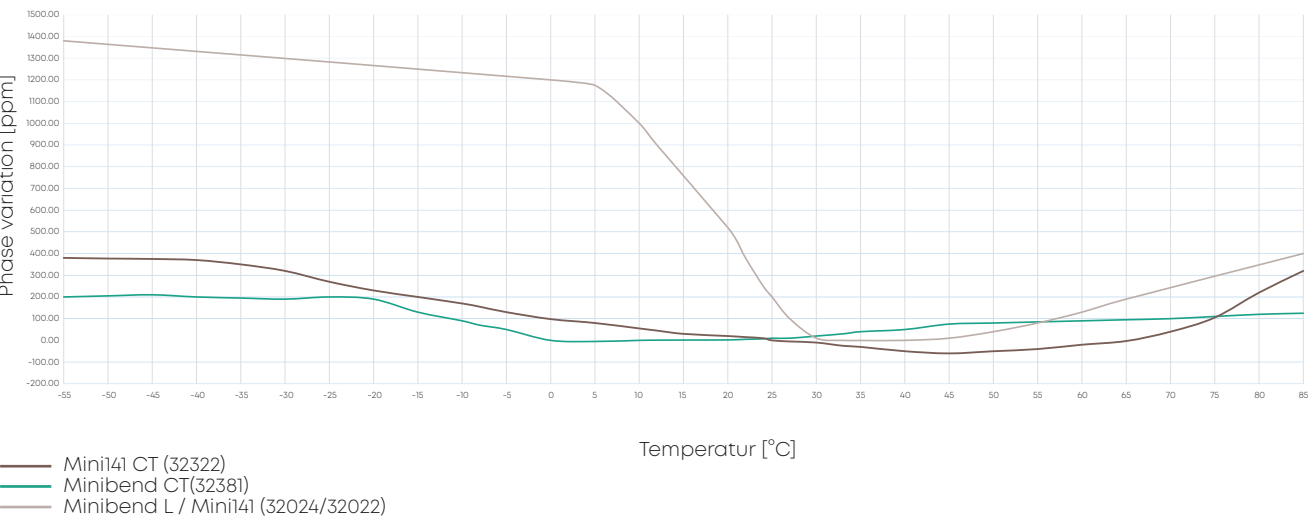
Minibend CT



Benefits

- Flexible applications
 - Bend-to-the end technology
 - Higher reliability due to solderless junctions
 - MIL/DTL qualified
- Excellent phase and insertion loss stability over temperature
 minibend CTR: < 300 ppm absolute phase changeover -55 to +85 °C temperature range
 mini141 CT: < 500 ppm absolute phase changeover -55 to +85 °C temperature range
 - Outstanding phase stability versus bending
 Phase vs flexure of 1.0° at 24 GHz
 - Revolutionary minibend bend-to-the-end flexibility
 minibend CTR: 5 mm minimum bend radius applicable right behind the connector
 mini141 CT: 8.4 mm minimum bend radius applicable right behind the connector

Phase variation vs. temperature



Product Overview

Description	Frequency range	Insertion loss @18GHz	Outer diameter	Connectors
Minibend CT (32381)	70 GHz	3.94 dB/m	2.54 mm	SMA, K, SMP, SMPM, SMPM-T, 1.85 mm
Mini141 CT (32322)	40 GHz	2.12 dB/m	3.66 mm	SMA, K, SMP

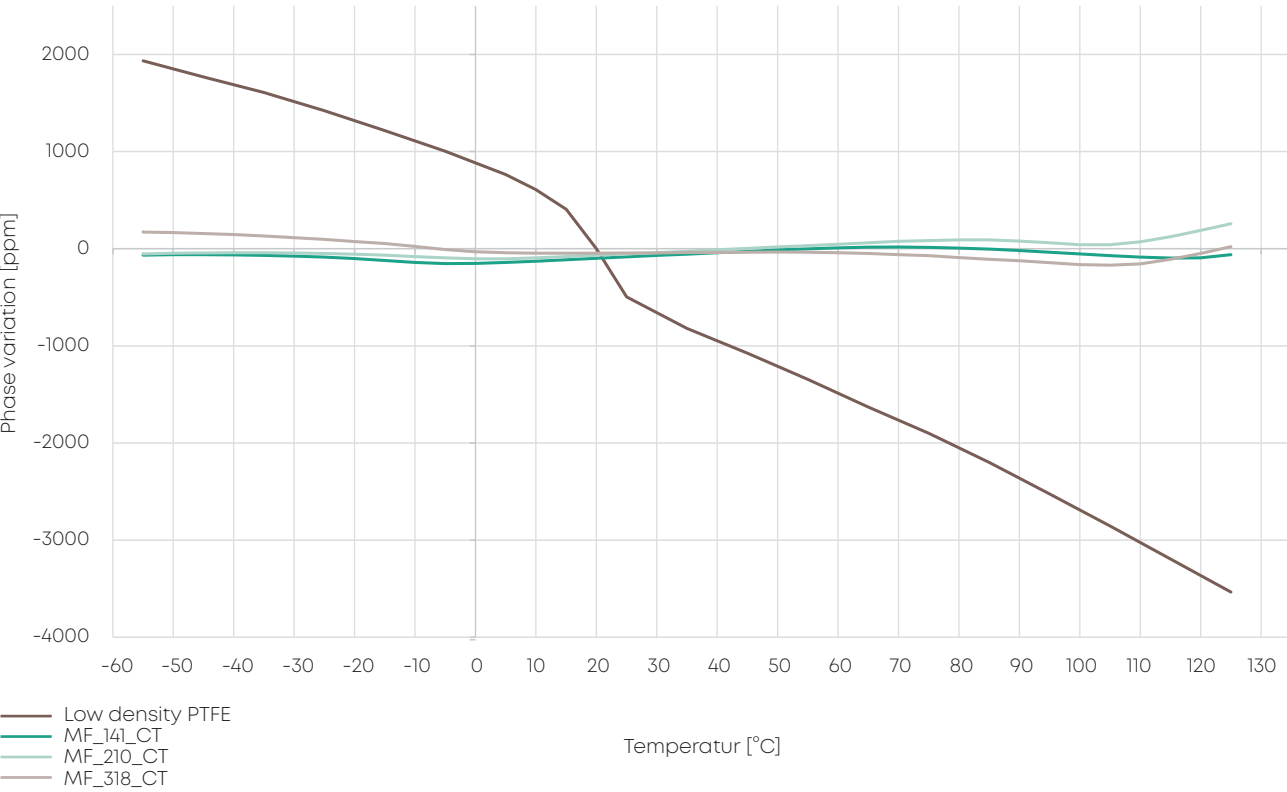
Multiflex CT



Benefits

- Flexible applications
- Frequency range up to 33GHz
- Low loss
- Low weight

Phase variation vs. temperature



Product Overview

Description	Frequency range	Insertion loss @18GHz	Outer diameter	Connectors
Multiflex_141_CT	33GHz	1.6 dB/m	4.2 mm	SK, SMA, BMA
Multiflex_210_CT	30GHz	1.4 dB/m	5.0 mm	SK, SMA, TNC
Multiflex_318_CT	18GHz	0.99 dB/m	7.5 mm	N, TNC

