



SUCOFEEED – corrugated cables

HUBER+SUHNER SUCOFEEED product range of foam corrugated coaxial cables with suitable stripping tools and connectors has excellent electrical, mechanical and climatic properties for indoor as well as for outdoor installations.

The cables guarantee optimal shielding, low attenuation, low VSWR, excellent intermodulation performance and flexibility for handling and installation on sites. Copper and aluminium types are available.

Applications

- Feederlines to connect antennas with cellular base stations
- Connectivity solution for distributed antenna systems

Features

- Low attenuation design available
- High power capability
- High shielding effectiveness
- UV-resistant
- Guaranteed performance up to 3 GHz

SUCOFEED – corrugated cables



1/4" high-flex

Cable design	Order/ type no.	SUCOFEED_1/4_HF	SUCOFEED_1/4_HF_FR
	Dimension	1/4" high-flex	1/4" high-flex
	Cable group	M5	M5
	Jacket version	standard	flame retardant
Inner conductor	(Ø in mm)	1.90	
Dielectric	(Ø in mm)	4.60	
Outer conductor	(Ø in mm)	6.40	
Jacket	(Ø in mm)	7.60	

Electrical data

Typ. operating frequency	(GHz)	≤ 18	
Impedance	(Ω)	50 ± 1	
Capacitance	(pF/m)	79.70	
Relative signal propagation	(%)	83.50	
Signal delay	(ns/m)	4.00	
Max. operating voltage	(kVrms)	0.60	
Typ. attenuation @ 1 GHz	(dB/100 m)	19.54	
Typ. attenuation @ 2 GHz	(dB/100 m)	28.45	
Typ. attenuation @ 2.2 GHz	(dB/100 m)	29.98	
Typ. attenuation @ 2.5 GHz	(dB/100 m)	32.17	
Typ. attenuation @ 3.0 GHz	(dB/100 m)	35.60	
Max. power @ 1 GHz (40 °C)	(kW)	≤ 0.290	
Max. power @ 2 GHz (40 °C)	(kW)	≤ 0.205	
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 0.196	
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 0.183	
Max. power @ 3.0 GHz (40 °C)	(kW)	≤ 0.167	

General data

Temp. range operating	(°C)	-55 / +85	-40 / +85
Temp. range installation	(°C)	-25 / +60	
Typ. weight	(kg/100 m)	7.5	8.7
Min. bending radius	(mm)	25	

For detailed data sheets please go to www.hubersuhner.com and then search for type «SUCOFEED».

SUCOFEED – corrugated cables



3/8" high-flex

Cable design	Order/ type no.	SUCOFEED_3/8_HF	SUCOFEED_3/8_HF_FR
	Dimension	3/8" high-flex	3/8" high-flex
	Cable group	M7	M7
	Jacket version	standard	flame retardant
Inner conductor	(Ø in mm)	2.80	
Dielectric	(Ø in mm)	7.00	
Outer conductor	(Ø in mm)	9.50	
Jacket	(Ø in mm)	10.80	

Electrical data

Typ. operating frequency	(GHz)	≤ 12	
Impedance	(Ω)	50 ± 1	
Capacitance	(pF/m)	79.5	
Relative signal propagation	(%)	83	
Signal delay	(ns/m)	4.00	
Max. operating voltage	(kVrms)	0.9	
Typ. attenuation @ 1 GHz	(dB/100 m)	13.33	
Typ. attenuation @ 2 GHz	(dB/100 m)	19.43	
Typ. attenuation @ 2.2 GHz	(dB/100 m)	20.48	
Typ. attenuation @ 2.5 GHz	(dB/100 m)	21.99	
Typ. attenuation @ 3.0 GHz	(dB/100 m)	24.34	
Max. power @ 1 GHz (40 °C)	(kW)	≤ 0.540	
Max. power @ 2 GHz (40 °C)	(kW)	≤ 0.382	
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 0.364	
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 0.342	
Max. power @ 3.0 GHz (40 °C)	(kW)	≤ 0.312	

General data

Temp. range operating	(°C)	-55 / +85	-40 / +85
Temp. range installation	(°C)	-25 / +60	
Typ. weight	(kg/100 m)	12.2	13.2
Min. bending radius	(mm)	25	

SUCOFEED – corrugated cables



1/2" high-flex

Cable design	Order/ type no.	SUCOFEED_1/2_HF	SUCOFEED_1/2_HF_FR
	Dimension	1/2" high-flex	1/2" high-flex
	Cable group	M9	M9
	Jacket version	standard	flame retardant
Inner conductor	(Ø in mm)	3.60	
Dielectric	(Ø in mm)	9.0	
Outer conductor	(Ø in mm)	12.20	
Jacket	(Ø in mm)	13.40	

Electrical data

Typ. operating frequency	(GHz)	≤ 10	
Impedance	(Ω)	50 ± 1	
Capacitance	(pF/m)	80.3	
Relative signal propagation	(%)	81	
Signal delay	(ns/m)	4.00	
Max. operating voltage	(kVrms)	1.27	
Typ. attenuation @ 1 GHz	(dB/100 m)	11.77	
Typ. attenuation @ 2 GHz	(dB/100 m)	17.48	
Typ. attenuation @ 2.2 GHz	(dB/100 m)	18.48	
Typ. attenuation @ 2.5 GHz	(dB/100 m)	19.92	
Typ. attenuation @ 3.0 GHz	(dB/100 m)	22.19	
Max. power @ 1 GHz (40 °C)	(kW)	≤ 0.83	
Max. power @ 2 GHz (40 °C)	(kW)	≤ 0.587	
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 0.56	
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 0.525	
Max. power @ 3.0 GHz (40 °C)	(kW)	≤ 0.479	

General data

Temp. range operating	(°C)	-55 / +85	-40 / +85
Temp. range installation	(°C)	-25 / +60	
Typ. weight	(kg/100 m)	20	
Min. bending radius	(mm)	25	

For detailed data sheets please go to www.hubersuhner.com and then search for «SUCOFEED».

SUCOFEED – corrugated cables



1/2" annular

Cable design	Order/ type no.	SUCOFEED_1/2	SUCOFEED_1/2_FR
	Dimension	1/2"	1/2"
	Cable group	M12	M12
	Jacket version	standard	flame retardant
Inner conductor	(Ø in mm)	4.80	
Dielectric	(Ø in mm)	12.10	
Outer conductor	(Ø in mm)	13.80	
Jacket	(Ø in mm)	15.90	

Electrical data		
Typ. operating frequency	(GHz)	≤ 8
Impedance	(Ω)	50 ± 1
Capacitance	(pF/m)	75.9
Relative signal propagation	(%)	88
Signal delay	(ns/m)	3.80
Max. operating voltage	(kVrms)	1.60
Typ. attenuation @ 1 GHz	(dB/100 m)	7.29
Typ. attenuation @ 2 GHz	(dB/100 m)	10.62
Typ. attenuation @ 2.2 GHz	(dB/100 m)	11.20
Typ. attenuation @ 2.5 GHz	(dB/100 m)	12.02
Typ. attenuation @ 3.0 GHz	(dB/100 m)	13.31
Max. power @ 1 GHz (40 °C)	(kW)	≤ 1.040
Max. power @ 2 GHz (40 °C)	(kW)	≤ 0.735
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 0.701
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 0.658
Max. power @ 3.0 GHz (40 °C)	(kW)	≤ 0.600

General data		
Temp. range operating	(°C)	-55 / +85
Temp. range installation	(°C)	- 25 / + 60
Typ. weight	(kg/100 m)	25.0
Min. bending radius	(mm)	70

SUCOFEED – corrugated cables



7/8" high-flex and annular

Cable design	Order/ type no.	SUCOFEED_7/8_HF	SUCOFEED_7/8
	Dimension	7/8" high-flex	7/8"
	Cable group	M24	M23
	Jacket version	standard	standard
Inner conductor	(Ø in mm)	9.40	9.00
Dielectric	(Ø in mm)	22.40	22.30
Outer conductor	(Ø in mm)	25.00	24.80
Jacket	(Ø in mm)	27.50	27.60

Electrical data			
Typ. operating frequency	(GHz)	≤ 4.9	≤ 5
Impedance	(Ω)	50 ± 1	50 ± 1
Capacitance	(pF/m)	75.4	75.8
Relative signal propagation	(%)	85	88
Signal delay	(ns/m)	3.90	3.80
Max. operating voltage	(kVrms)	3.00	2.91
Typ. attenuation @ 1 GHz	(dB/100 m)	4.25	4.11
Typ. attenuation @ 2 GHz	(dB/100 m)	6.42	6.11
Typ. attenuation @ 2.2 GHz	(dB/100 m)	6.81	6.46
Typ. attenuation @ 2.5 GHz	(dB/100 m)	7.37	6.96
Typ. attenuation @ 3.0 GHz	(dB/100 m)	8.26	7.76
Max. power @ 1 GHz (40 °C)	(kW)	≤ 1.940	≤ 2.190
Max. power @ 2 GHz (40 °C)	(kW)	≤ 1.372	≤ 1.549
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 1.308	≤ 1.476
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 1.227	≤ 1.385
Max. power @ 3.0 GHz (40 °C)	(kW)	≤ 1.120	≤ 1.264

General data			
Temp. range operating	(°C)	-55 / +85	
Temp. range installation	(°C)	-25 / +60	
Typ. weight	(kg/100 m)	48.0	53
Min. bending radius	(mm)	90	120

For detailed data sheets please go to www.hubersuhner.com and then search for «SUCOFEED».

SUCOFEED – corrugated cables



7/8" annular

Cable design	Order/ type no.	SUCOFEED_7/8_FR	SUCOFEED_7/8_LA	SUCOFEED_7/8_LA_FR
	Dimension	7/8"	7/8" low attenuation	7/8" low attenuation
	Cable group	M23	M25	M25
	Jacket version	flame retardant	standard	flame retardant
Inner conductor	(Ø in mm)	9.00	9.50	
Dielectric	(Ø in mm)	22.30	22.70	
Outer conductor	(Ø in mm)	24.80	25.40	
Jacket	(Ø in mm)	27.60	27.90	

Electrical data

Typ. operating frequency	(GHz)	≤ 5	≤ 5.0
Impedance	(Ω)	50 ± 1	50 ± 1
Capacitance	(pF/m)	75.8	73.8
Relative signal propagation	(%)	88	90.3
Signal delay	(ns/m)	3.80	3.70
Max. operating voltage	(kVrms)	2.91	3.00
Typ. attenuation @ 1 GHz	(dB/100 m)	4.11	3.76
Typ. attenuation @ 2 GHz	(dB/100 m)	6.11	5.53
Typ. attenuation @ 2.2 GHz	(dB/100 m)	6.46	5.83
Typ. attenuation @ 2.5 GHz	(dB/100 m)	6.96	6.28
Typ. attenuation @ 3.0 GHz	(dB/100 m)	7.76	6.97
Max. power @ 1 GHz (40 °C)	(kW)	≤ 2.190	≤ 2.440
Max. power @ 2 GHz (40 °C)	(kW)	≤ 1.549	≤ 1.725
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 1.476	≤ 1.645
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 1.385	≤ 1.543
Max. power @ 3.0 GHz (40 °C)	(kW)	≤ 1.264	≤ 1.409

General data

Temp. range operating	(°C)	-40 / +85	-55 / +85	-40 / +85
Temp. range installation	(°C)		-25 / +60	
Typ. weight	(kg/100 m)	65.0	48	52
Min. bending radius	(mm)		120	

SUCOFEED – corrugated cables



1 1/4" annular

Cable design	Order/ type no.	SUCOFEED_1_1/4	SUCOFEED_1_1/4_FR
	Dimension	1 1/4"	1 1/4"
	Cable group	M32	M32
	Jacket version	standard	flame retardant
Inner conductor	(Ø in mm)	13.10	
Dielectric	(Ø in mm)	32.40	
Outer conductor	(Ø in mm)	35.80	
Jacket	(Ø in mm)	39.50	

Electrical data

Typ. operating frequency	(GHz)	≤ 3	
Impedance	(Ω)	50 ± 1	
Capacitance	(pF/m)	76.5	
Relative signal propagation	(%)	88	
Signal delay	(ns/m)	3.80	
Max. operating voltage	(kVrms)	4.20	
Typ. attenuation @ 1 GHz	(dB/100 m)	2.94	
Typ. attenuation @ 2 GHz	(dB/100 m)	4.43	
Typ. attenuation @ 2.2 GHz	(dB/100 m)	4.69	
Typ. attenuation @ 2.5 GHz	(dB/100 m)	5.08	
Typ. attenuation @ 2.7 GHz	(dB/100 m)	5.68	
Max. power @ 1 GHz (40 °C)	(kW)	≤ 3.120	
Max. power @ 2 GHz (40 °C)	(kW)	≤ 2.206	
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 2.104	
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 1.973	
Max. power @ 2.7 GHz (40 °C)	(kW)	≤ 1.801	

General data

Temp. range operating	(°C)	-55 / +85	-40 / +85
Temp. range installation	(°C)	-25 / +60	
Typ. weight	(kg/100 m)	92	110.0
Min. bending radius	(mm)	200	

For detailed data sheets please go to www.hubersuhner.com and then search for "SUCOFEED".

SUCOFEED – corrugated cables



1 5/8" annular

Cable design	Order/ type no.	SUCOFEED_ 1_5/8	SUCOFEED_ 1_5/8_FR	SUCOFEED_ 1_5/8_LA	SUCOFEED_ 1_5/8_LA_FR
	Dimension	1 5/8"	1 5/8"	1 5/8" low att.	1 5/8" low att.
	Cable group	M42	M42	M43	M43
	Jacket version	standard	flame retardant	standard	flame retardant
Inner conductor	(Ø in mm)	17.30		17.60	
Dielectric	(Ø in mm)	42.40		41.00	
Outer conductor	(Ø in mm)	46.50		46.50	
Jacket	(Ø in mm)	49.80		50.30	
Electrical data					
Typ. operating frequency	(GHz)	≤ 2.75			
Impedance	(Ω)	50 ± 1			
Capacitance	(pF/m)	76.80		72.50	
Relative signal propagation	(%)	87.50		92	
Signal delay	(ns/m)	3.80			
Max. operating voltage	(kVrms)	5.40		5.50	
Typ. attenuation @ 1 GHz	(dB/100 m)	2.43		2.25	
Typ. attenuation @ 2 GHz	(dB/100 m)	3.71		3.36	
Typ. attenuation @ 2.2 GHz	(dB/100 m)	3.94		3.56	
Typ. attenuation @ 2.5 GHz	(dB/100 m)	4.27		3.84	
Typ. attenuation @ 2.7 GHz	(dB/100 m)	4.48		4.02	
Max. power @ 1 GHz (40 °C)	(kW)	≤ 4.100			
Max. power @ 2 GHz (40 °C)	(kW)	≤ 2.899			
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 2.764			
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 2.593			
Max. power @ 2.7 GHz (40 °C)	(kW)	≤ 2.495			
General data					
Temp. range operating	(°C)	-55 / +85	-40 / +80	-55 / +85	-40 / +85
Temp. range installation	(°C)	-25 / +60			
Typ. weight	(kg/100 m)	144.8	160.0	110.0	130.0
Min. bending radius	(mm)	300		300	



SUCOFEEED aluminium – corrugated cables

HUBER+SUHNER SUCOFEEED_LW is a foam dielectric corrugated coaxial cable designed with an aluminium outer conductor and a copper clad inner conductor. This low weight SUCOFEEED_LW cables are a cost efficient alternative to the copper transmission lines. The performance of the aluminium cables is equivalent to the copper transmission cables.

Applications

- Feeder lines to connect antennas with cellular base stations
- Connectivity solution for distributed antenna systems (DAS)

Features

- Light weight
- Electrical performance equal to copper cables
- HUBER+SUHNER connectors are fully compatible with aluminium and copper cables
- Available with UV-resistant polyethylene jackets, flame-retardant jackets on request

SUCOFEED aluminium - corrugated cables



1/2" and 7/8" light weight

Cable design	Order/type no.	SUCOFEED_1/2_LW	SUCOFEED_7/8_LW_LA
	Dimension	1/2"	7/8" low attenuation
	Cable group	M9	M23
	Jacket version	PE	PE
Inner conductor	(Ø in mm)	4.80	9.40
Dielectric	(Ø in mm)	12.20	22.80
Outer conductor	(Ø in mm)	13.80	25.30
Jacket	(Ø in mm)	15.90	27.90

Electrical data			
Typ. Operating frequency	(GHz)	≤ 8.8	≤ 5
Impedance	(Ω)	50 ± 1	50 ± 1
Capacitance	(pF/m)	76	74
Relative signal propagation	(%)	88	90
Signal delay	(ns/m)	3.80	3.80
Max. operating voltage	(kVrms)	1.95	2.95
Typ. attenuation @ 1 GHz	(dB/100 m)	7.76	4.16
Typ. attenuation @ 2 GHz	(dB/100 m)	11.38	6.08
Typ. attenuation @ 2.2 GHz	(dB/100 m)	12.00	6.41
Typ. attenuation @ 2.5 GHz	(dB/100 m)	12.90	6.88
Typ. attenuation @ 3.0 GHz	(dB/100 m)	14.31	7.62
Max. power @ 1 GHz (40 °C)	(kW)	≤ 1.020	≤ 2.520
Max. power @ 2 GHz (40 °C)	(kW)	≤ 0.721	≤ 1.782
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 0.688	≤ 1.699
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 0.645	≤ 1.594
Max. power @ 3.0 GHz (40 °C)	(kW)	≤ 0.589	≤ 1.455

General data			
Temp. range operating	(°C)	-55 / +85	-55 / +85
Temp. range installation	(°C)	-40 / +60	-40 / +60
Typ. weight	(kg/100 m)	≤ 17.5	≤ 37
Min. bending radius (single/rep.)	(mm)	70 / 125	120 / 250

For detailed data sheets please go to www.hubersuhner.com and then search for type «SUCOFEED»

SUCOFEED aluminium - corrugated cables



1-1/4" and 1 5/8" light weight

Cable design	Order/type no.	SUCOFEED_1-1/4_LW	SUCOFEED_1-5/8_LW_LA
	Dimension	1-1/4"	1-5/8" low attenuation
	Cable group	M32	M43
	Jacket version	PE	PE
Inner conductor	(Ø in mm)	13.10	17.60
Dielectric	(Ø in mm)	32.00	41.50
Outer conductor	(Ø in mm)	36.00	46.50
Jacket	(Ø in mm)	39.20	50.30

Electrical data			
Typ. Operating frequency	(GHz)	≤ 3.60	≤ 2.75
Impedance	(Ω)	50 ± 1	50 ± 1
Capacitance	(pF/m)	75	74
Relative signal propagation	(%)	88	89
Signal delay	(ns/m)	3.8	3.8
Max. operating voltage	(kVrms)	4.2	5.6
Typ. attenuation @ 1 GHz	(dB/100 m)	3.20	2.48
Typ. attenuation @ 2 GHz	(dB/100 m)	4.70	3.69
Typ. attenuation @ 2.2 GHz	(dB/100 m)	4.97	3.91
Typ. attenuation @ 2.5 GHz	(dB/100 m)	5.34	4.21
Typ. attenuation @ 2.7 GHz	(dB/100 m)	5.58	4.41
Max. power @ 1 GHz (40 °C)	(kW)	≤ 3.350	≤ 4.100
Max. power @ 2 GHz (40 °C)	(kW)	≤ 2.369	≤ 2.899
Max. power @ 2.2 GHz (40 °C)	(kW)	≤ 2.259	≤ 2.764
Max. power @ 2.5 GHz (40 °C)	(kW)	≤ 2.119	≤ 2.593
Max. power @ 2.7 GHz (40 °C)	(kW)	≤ 2.039	≤ 2.690

General data			
Temp. range operating	(°C)	-55 / +85	-55 / +85
Temp. range installation	(°C)	-40 / +60	-40 / +60
Typ. weight	(kg/100 m)	≤ 65	≤ 99
Min. bending radius (single/rep.)	(mm)	200 / 400	280 / 500

For detailed data sheets please go to www.hubersuhner.com and then search for type «SUCOFEED»