

SUCOFEED – corrugated cables



HUBER+SUHNER SUCOFEED product range of foam corrugated coaxial cables with suitable stripping tools. The cables have excellent electrical, mechanical and environmental properties for indoor as well as outdoor installations.

The cables promise optimal shielding, low attenuation, low VSWR, remarkable intermodulation performance and flexibility for handling and installation on sites.

SUCOFEED cables are available as made from copper as well as from aluminium. For the US IBC market plenum rated „h“ cable is part of our corrugated cable proposition.

Features

- Low IM distortion levels
- Low loss
- Flame retardant designs available
- High power capability
- High shielding effectiveness
- UV resistant
- Guaranteed performance up to 3 GHz

Benefits

- High efficient signal distribution
- Excellent for multi-operator DAS
- Economic high performance solution if assembled with Quick-Fit connectors

SUCOFEEED – corrugated cables

1/4" high-flex



Cable design	Order/type no.	SUCOFEEED_1/4_HF	SUCOFEEED_1/4_HF_FR
	Dimension	1/4" high-flex	1/4" high-flex
	Jacket version	Standard	Flame retardant
Inner conductor	Ø in mm	1.90	1.90
Dielectric	Ø in mm	4.60	4.60
Outer conductor	Ø in mm	6.40	6.40
Jacket	Ø in mm	7.60	7.60

Electrical data			
Typ. operating frequency	GHz	≤ 18	≤ 18
Impedance	Ω	50 ± 1	50 ± 1
Capacitance	pF/m	79.7	79.7
Relative signal propagation	%	83.5	83.5
Signal delay	ns/m	4.00	4.00
Max. operating voltage	kVrms	0.6	0.6
Typ. attenuation at 1 GHz	dB/100 m	19.54	19.54
Typ. attenuation at 2 GHz	dB/100 m	28.45	28.45
Typ. attenuation at 2.2 GHz	dB/100 m	29.98	29.98
Typ. attenuation at 2.5 GHz	dB/100 m	32.17	32.17
Typ. attenuation at 3.0 GHz	dB/100 m	35.60	35.60
Max. power at 1 GHz (40 °C)	kW	≤ 0.290	≤ 0.290
Max. power at 2 GHz (40 °C)	kW	≤ 0.205	≤ 0.205
Max. power at 2.2 GHz (40 °C)	kW	≤ 0.196	≤ 0.196
Max. power at 2.5 GHz (40 °C)	kW	≤ 0.183	≤ 0.183
Max. power at 3.0 GHz (40 °C)	kW	≤ 0.167	≤ 0.167

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

For detailed data sheets please go to www.hubersuhner.com and then search for type „SUCOFEEED“.

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
	Jacket version	Standard	Flame retardant
Inner conductor	Ø in mm	2.80	2.80
Dielectric	Ø in mm	7.00	7.00
Outer conductor	Ø in mm	9.50	9.50
Jacket	Ø in mm	10.80	10.80

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

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

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

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
	Jacket version	Standard	Flame retardant
Inner conductor	Ø in mm	3.60	3.60
Dielectric	Ø in mm	9.0	9.0
Outer conductor	Ø in mm	12.20	12.20
Jacket	Ø in mm	13.40	13.40

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

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

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

SUCOFEED – corrugated cables

1/2" annular



Cable design	Order/type no.	SUCOFEED_1/2	SUCOFEED_1/2_FR
	Dimension	1/2"	1/2"
	Jacket version	Standard	Flame retardant
Inner conductor	Ø in mm	4.80	4.80
Dielectric	Ø in mm	12.10	12.10
Outer conductor	Ø in mm	13.80	13.80
Jacket	Ø in mm	15.90	15.90

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

General data			
Temp. range operating	°C	-55/+85	-40/+85
Temp. range installation	°C	-25/+60	-25/+60
Typ. weight	kg/100 m	25.0	27.6
Min. bending radius	mm	70	70

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

SUCOFEEED – corrugated cables

7/8" high-flex and annular



Cable design	Order/type no.	SUCOFEEED_7/8_HF	SUCOFEEED_7/8
	Dimension	7/8" high-flex	7/8"
	Jacket version	Standard	Flame retardant
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 at 1 GHz	dB/100 m	4.25	4.11
Typ. attenuation at 2 GHz	dB/100 m	6.42	6.11
Typ. attenuation at 2.2 GHz	dB/100 m	6.81	6.46
Typ. attenuation at 2.5 GHz	dB/100 m	7.37	6.96
Typ. attenuation at 3.0 GHz	dB/100 m	8.26	7.76
Max. power at 1 GHz (40 °C)	kW	≤ 1.940	≤ 2.190
Max. power at 2 GHz (40 °C)	kW	≤ 1.372	≤ 1.549
Max. power at 2.2 GHz (40 °C)	kW	≤ 1.308	≤ 1.476
Max. power at 2.5 GHz (40 °C)	kW	≤ 1.227	≤ 1.385
Max. power at 3.0 GHz (40 °C)	kW	≤ 1.120	≤ 1.264

General data			
Temp. range operating	°C	–55/+85	–40/+85
Temp. range installation	°C	–25/+60	–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 type „SUCOFEEED“.

SUCOFEEED – corrugated cables

7/8" annular



Cable design	Order/type no.	SUCOFEEED_7/8_FR	SUCOFEEED_7/8_LA	SUCOFEEED_7/8_LA_FR
	Dimension	7/8"	7/8" low attenuation	7/8" low attenuation
	Jacket version	Flame retardant	Standard	Flame retardant
Inner conductor	Ø in mm	9.00	9.50	9.50
Dielectric	Ø in mm	22.30	22.70	22.70
Outer conductor	Ø in mm	24.80	25.40	25.40
Jacket	Ø in mm	27.60	27.90	27.90

Electrical data				
Typ. operating frequency	GHz	≤ 5	≤ 5.0	≤ 5.0
Impedance	Ω	50 ± 1	50 ± 1	50 ± 1
Capacitance	pF/m	75.8	73.8	73.8
Relative signal propagation	%	88	90.3	90.3
Signal delay	ns/m	3.80	3.70	3.70
Max. operating voltage	kVrms	2.91	3.00	3.00
Typ. attenuation at 1 GHz	dB/100 m	4.11	3.76	3.76
Typ. attenuation at 2 GHz	dB/100 m	6.11	5.53	5.53
Typ. attenuation at 2.2 GHz	dB/100 m	6.46	5.83	5.83
Typ. attenuation at 2.5 GHz	dB/100 m	6.96	6.28	6.28
Typ. attenuation at 3.0 GHz	dB/100 m	7.76	6.97	6.97
Max. power at 1 GHz (40 °C)	kW	≤ 2190	≤ 2.440	≤ 2.440
Max. power at 2 GHz (40 °C)	kW	≤ 1.549	≤ 1.725	≤ 1.725
Max. power at 2.2 GHz (40 °C)	kW	≤ 1.476	≤ 1.645	≤ 1.645
Max. power at 2.5 GHz (40 °C)	kW	≤ 1.385	≤ 1.543	≤ 1.543
Max. power at 3.0 GHz (40 °C)	kW	≤ 1.264	≤ 1.409	≤ 1.409

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

For detailed data sheets please go to www.hubersuhner.com and then search for type „SUCOFEEED“.

SUCOFEEED – corrugated cables

1 1/4" annular



Cable design	Order/type no.	SUCOFEEED_1_1/4	SUCOFEEED_1_1/4_FR
	Dimension	1_1/4"	1_1/4"
	Jacket version	Standard	Flame retardant
Inner conductor	Ø in mm	13.10	13.10
Dielectric	Ø in mm	32.40	32.40
Outer conductor	Ø in mm	35.80	35.80
Jacket	Ø in mm	39.50	39.50

Electrical data			
Typ. operating frequency	GHz	≤ 3	≤ 3
Impedance	Ω	50 ± 1	50 ± 1
Capacitance	pF/m	76.5	76.5
Relative signal propagation	%	88	88
Signal delay	ns/m	3.80	3.80
Max. operating voltage	kVrms	4.20	4.20
Typ. attenuation at 1 GHz	dB/100 m	2.94	2.94
Typ. attenuation at 2 GHz	dB/100 m	4.43	4.43
Typ. attenuation at 2.2 GHz	dB/100 m	4.69	4.69
Typ. attenuation at 2.5 GHz	dB/100 m	5.08	5.08
Typ. attenuation at 3.0 GHz	dB/100 m	5.68	5.68
Max. power at 1 GHz (40 °C)	kW	≤ 3.120	≤ 3.120
Max. power at 2 GHz (40 °C)	kW	≤ 2.206	≤ 2.206
Max. power at 2.2 GHz (40 °C)	kW	≤ 2.104	≤ 2.104
Max. power at 2.5 GHz (40 °C)	kW	≤ 1.973	≤ 1.973
Max. power at 3.0 GHz (40 °C)	kW	≤ 1.801	≤ 1.801

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

For detailed data sheets please go to www.hubersuhner.com and then search for type „SUCOFEEED“.

SUCOFEED – corrugated cables

1 5/8" annular



Cable design	Order/type no.	SUCOFEED_1_5/8_LA	SUCOFEED_1_5/8_LA_FR
	Dimension	1 5/8" low attenuation	1 5/8" low attenuation
	Jacket version	standard	flame retardant
Inner conductor	Ø in mm	17.60	17.60
Dielectric	Ø in mm	41.00	41.00
Outer conductor	Ø in mm	46.50	46.50
Jacket	Ø in mm	50.30	50.30

Electrical data			
Typ. operating frequency	GHz	≤ 2.75	≤ 2.75
Impedance	Ω	50 ± 1	50 ± 1
Capacitance	pF/m	72.50	72.50
Relative signal propagation	%	92	92
Signal delay	ns/m	3.80	3.80
Max. operating voltage	kVrms	5.50	5.50
Typ. attenuation at 1 GHz	dB/100 m	2.25	2.25
Typ. attenuation at 2 GHz	dB/100 m	3.36	3.36
Typ. attenuation at 2.2 GHz	dB/100 m	3.56	3.56
Typ. attenuation at 2.5 GHz	dB/100 m	3.84	3.84
Typ. attenuation at 3.0 GHz	dB/100 m	4.02	4.02
Max. power at 1 GHz (40 °C)	kW	≤ 4.100	≤ 4.100
Max. power at 2 GHz (40 °C)	kW	≤ 2.899	≤ 2.899
Max. power at 2.2 GHz (40 °C)	kW	≤ 2.764	≤ 2.764
Max. power at 2.5 GHz (40 °C)	kW	≤ 2.593	≤ 2.593
Max. power at 3.0 GHz (40 °C)	kW	≤ 2.495	≤ 2.495

General data			
Temp. range operating	°C	–55/+85	–40/+85
Temp. range installation	°C	–25/+60	–25/+60
Typ. weight	kg/100 m	110.0	130.0
Min. bending radius	mm	300	300

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

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 family is a cost efficient alternative to the copper transmission lines. The performance of the aluminium cables is equivalent to the copper transmission cables. Our FR and UL types provide enhanced flame-resistance and therefore excellent choice for indoor DAS applications.

Applications

- Cost efficient solution
- High efficient signal distribution
- Excellent for multi-operator DAS
- Economic high performing solution if assembled with Quick-Fit connectors

Features

- Light weight
- Electrical performance similar to copper cables
- HUBER+SUHNER connectors are fully compatible with aluminium and copper cables
- Cables with flame-retardant jackets on request

SUCOFEEED aluminium – corrugated cables

1/2" and 7/8" light weight



Cable design	Order/type no.	SUCOFEEED_1/2_LW	SUCOFEEED_1/2_LW_LA
	Dimension	1/2"	7/8" low attenuation
	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	27.50

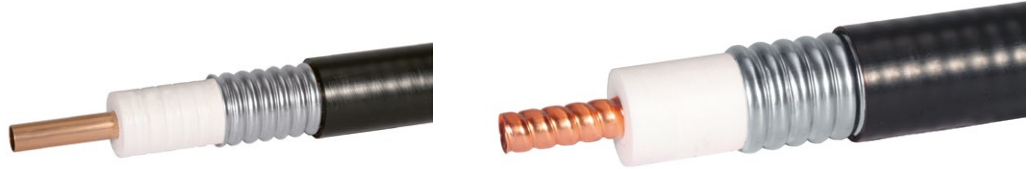
Electrical data			
Typ. operating frequency	GHz	≤ 8.8	≤ 5
Impedance	Ω	50 ± 1	50 ± 1
Capacitance	pF/m	76	74
Relative signal propagation	%	88	90
Signal delay	ns/m	3.80	3.80
Max. operating voltage	kVrms	1.95	2.95
Typ. attenuation at 1 GHz	dB/100 m	7.76	4.16
Typ. attenuation at 2 GHz	dB/100 m	11.38	6.08
Typ. attenuation at 2.2 GHz	dB/100 m	12.00	6.41
Typ. attenuation at 2.5 GHz	dB/100 m	12.90	6.88
Typ. attenuation at 3.0 GHz	dB/100 m	14.31	7.62
Max. power at 1 GHz (40 °C)	kW	≤ 1.020	≤ 2.520
Max. power at 2 GHz (40 °C)	kW	≤ 0.721	≤ 1.782
Max. power at 2.2 GHz (40 °C)	kW	≤ 0.688	≤ 1.699
Max. power at 2.5 GHz (40 °C)	kW	≤ 0.645	≤ 1.594
Max. power at 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	mm	70/125	120/250

For detailed data sheets please go to www.hubersuhner.com and then search for type „SUCOFEEED“.

SUCOFEE aluminium – corrugated cables

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



Cable design	Order/type no.	SUCOFEE_1_1/4_LW	SUCOFEE_1_5/8_LW_LA
	Dimension	1-1/4"	1-5/8" low attenuation
	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 at 1 GHz	dB/100 m	3.20	2.48
Typ. attenuation at 2 GHz	dB/100 m	4.70	3.69
Typ. attenuation at 2.2 GHz	dB/100 m	4.97	3.91
Typ. attenuation at 2.5 GHz	dB/100 m	5.34	4.21
Typ. attenuation at 3.0 GHz	dB/100 m	5.58	4.41
Max. power at 1 GHz (40 °C)	kW	≤ 3.350	≤ 4.100
Max. power at 2 GHz (40 °C)	kW	≤ 2.369	≤ 2.899
Max. power at 2.2 GHz (40 °C)	kW	≤ 2.259	≤ 2.764
Max. power at 2.5 GHz (40 °C)	kW	≤ 2.119	≤ 2.593
Max. power at 3.0 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	mm	200/400	280/500

For detailed data sheets please go to www.hubersuhner.com and then search for type „SUCOFEE“.