



RF cable selection guide for Aerospace & Defense

Renowned expertise in customized connectivity to ensure uncompromised performance in the tightest of spaces.

Edition 2024/04

Secure and robust turnkey interconnection solutions for mission-critical applications



HUBER+SUHNER offers a complete set of radio frequency and microwave cable assemblies for defense applications featuring the SUCOFLEX® 100, MULTIFLEX CT, SPUMA RS and MINIBEND® coaxial cable families and are all MIL qualified.

In addition, HUBER+SUHNER offers configurations that incorporate stainless steel 316L connectors, which offer outstanding mechanical durability and are able to withstand extremely harsh environments. These connectors include:

- SMA, TNC and N series
- Straight male, right angle male and bulkhead types

SUCOFLEX® 100



These assemblies offer superior electrical and mechanical performance for static and dynamic applications.

MULTIFLEX CT



Featuring best-in-class phase stability versus temperature in a range between -55°C and +125°C.

SPUMA RS



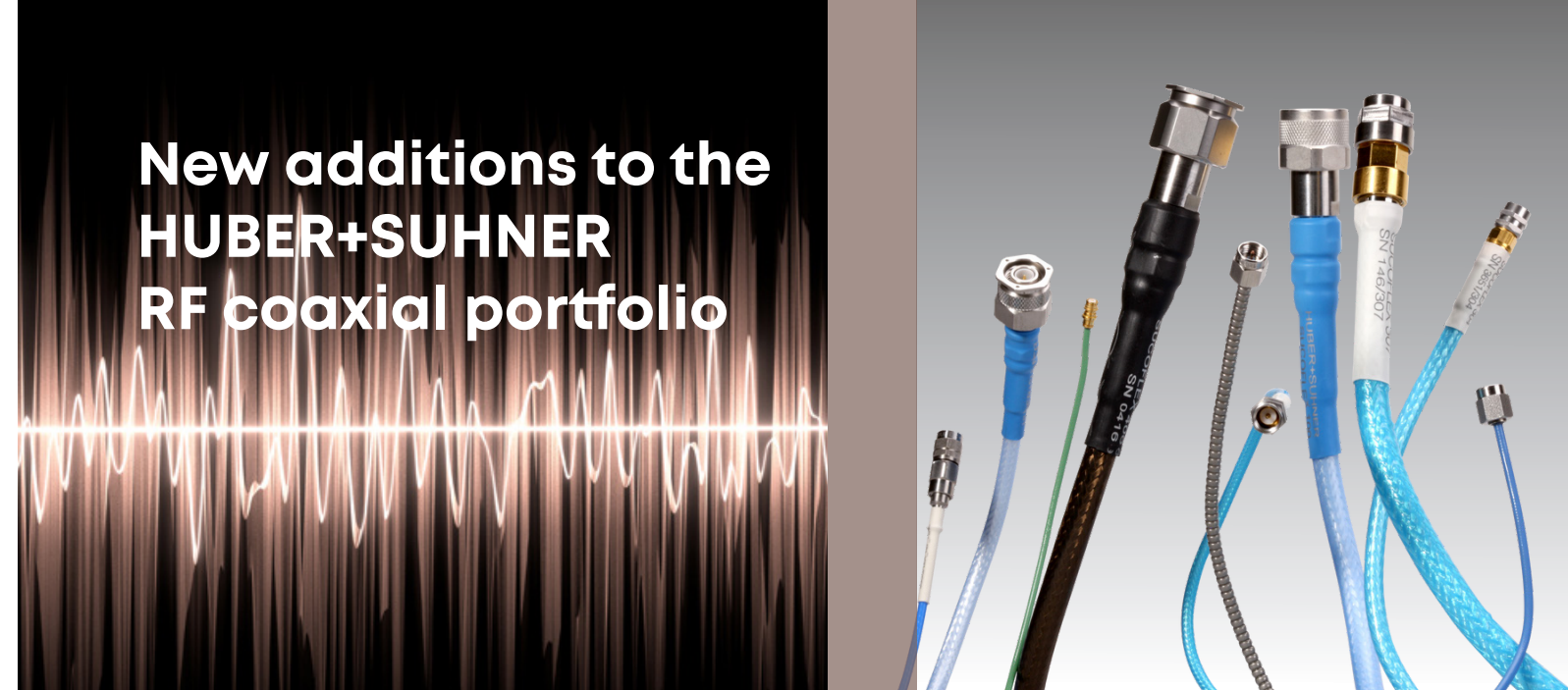
A highly flexible low loss coaxial cable for applications up to 6 GHz, is field mountable and full LSFH.

MINIBEND®

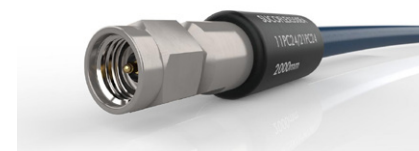


Allows bending immediately behind the connector - ideal for tight space requirements.

New additions to the HUBER+SUHNER RF coaxial portfolio



SUCOFLEX® 540, 540E, 540EA, 540S



- Frequency range up to 40 GHz
- New SK and PC2.4 connectors with excellent performance
- Long lifetime (>100'000 flex cycles)
- Excellent insertion loss
- Outstanding phase and amplitude stability with flexure and movement
- Short delivery time
- Excellent price-performance ratio

SUCOFLEX and Multiflex-CT TVAC



- Frequency range up to 70 GHz
- Broad range of outgassing free cables and connectors available
- Polyurethane jacket and armours
- Vented connectors
- Rotary swaged inner conductor
- Excellent phase stability, long flex life
- Excellent phase vs. temperature
- Armoured options available

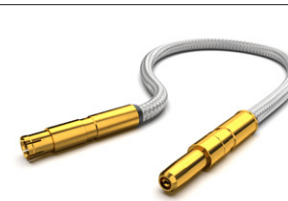
Cables for MIL-DTL-17 QPL



- MIL-DTL-17 Qualified Products List
- Applicable up to 20 GHz
- Excellent VSWR performance
- Easy to form, strip and solder, thus making installation convenient
- Small sizes permit use in high-density areas

SR_86	SR_141
SMA, SK, SMP, SMPM	SMA

NANOBEND extension



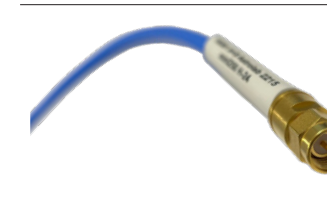
- New assemblies with end-to-end TE-Compliant NanoRF® Jack connectors.
- Available with TE-Compliant NanoRF® connectors
- Provides end-to-end solutions that include TE-branded VITA blocks

MINI141 CT



- Outstanding phase stability vs. bending - phase vs. flexure of 0.1°/GHz
- Increased system accuracy over temperature change
- Flat phase change over temperature
- 900 ppm absolute phase change

MINI250 HB



MINI250 HB (rated up to 200 mrad) is now available as an alternative to the MINI250 H

RF cable selection guide (ft) [continued]

Cable type	Outer diameter (inch)	Frequency range (GHz)	VOP (%)	Typ. insertion loss (dB/ft)							CW power (W)		Min. temp. (°C)	Max. temp. (°C)	Min. bending radius (static) (inch)	Weight (lbs/ft)	Dynamic applications	Phase stable vs. Temp.	Phase stable vs. Flexure	Halogen free	TVAC / TV	38999 suitable cable	Cable assembly only	
				@ 3 GHz	@ 6 GHz	@ 18 GHz	@ 40 GHz	@ 50 GHz	@ 60 GHz	@ 67 GHz	@ 1 GHz sea level / 25 °C	@ 18 GHz sea level / 25 °C												
MICROBEND	0.08	90	70	0.669	0.958	1.717	2.648	2.999	3.625	-	111	26	-55	200	0.06	0.008								
MICROBEND L	0.08	85	76	0.493	0.700	1.227	1.859	2.087	2.298	-	-	33	-55	200	0.20	0.007								
MINIBEND® CT	0.10	70	81	0.436	0.631	1.157	-	-	-	-	201	47	-55	200	0.20	0.003	•	•					•	•
MINIBEND	0.10	65	70	0.442	0.640	1.159	1.822	2.047	2.308	-	173	41	-55	200	0.20	0.010							•	•
MINIBEND L	0.11	50	76	0.367	0.520	0.918	1.394	1.567	-	-	288	68	-55	200	0.25	0.011							•	•
MINI141	0.15	40	76	0.213	0.305	0.549	0.823	-	-	-	590	139	-55	200	0.33	0.021							•	•
MINI141 H (32021E)	0.15	45	77	0.245	0.349	0.619	-	-	-	-	510	120	-55	200	0.33	0.008	•						•	•
MINI141 CT	0.14	40	80	0.242	0.128	0.647	0.371	-	-	-	-	65	-55	125	0.33	0.006		•	•					•
MINI250 H	0.23	26	77	0.110	-	0.350	-	-	-	-	-	261	-55	200	0.89	0.050								
MINI250 HB	0.23	26	77	0.110	-	0.350	-	-	-	-	-	261	-55	200	0.89	0.050								
Everflex 32084	0.09	40	76	0.598	0.782	1.428	2.108	-	-	-	192	45	-55	200	-	0.007	•							•
BoaFlex 32071	0.37	14	78	0.071	0.103	0.192	-	-	-	-	3300	-	-65	200	2.00	0.043							•	•
Multiflex 53 -02	0.07	100	70	0.604	0.871	1.584	2.489	2.835	3.156	3.370	30	7	-55	165	0.12	0.006	•							•
Multiflex 86	0.10	40	71	0.405	0.588	1.086	1.735	-	-	-	140	33	-65	165	0.24	0.014							•	
Multiflex 141	0.16	33	71	0.223	0.330	0.636	-	-	-	-	373	88	-65	165	0.39	0.030							•	
Multiflex 141 CT	0.17	33	84	0.175	0.258	0.493	-	-	-	-	457	108	-65	200	0.47	0.019		•					•	•
Multiflex 210 CT	0.20	30	84	0.147	0.219	0.425	-	-	-	-	628	148	-65	200	1.08	0.030		•					•	•
Multiflex 318 CT	0.30	18	84	0.098	0.148	0.304	-	-	-	-	1350	318	-65	200	1.67	0.060		•					•	•
Miniflex 36 LA	0.04	6	76	0.833	1.221	-	-	-	-	-	28	7	-55	200	0.06	0.002								
Sucoform_47_CU	0.05	40	71	0.634	0.918	1.68	2.67	-	-	-	32	8	-65	165	0.13	0.037								
Sucoform 86	0.08	40	71	0.368	0.542	1.032	1.699	-	-	-	94	38	-65	165	0.24	0.010								
Sucoform 141	0.14	33	71	0.224	0.338	0.678	-	-	-	-	484	114	-65	165	0.31	0.026								
Sucoform_250-01	0.25	18	71	0.139	0.214	0.442	-	-	-	-	920	217	-65	165	1.18	0.084								
Sucoform 141 CT	0.14	30	83	0.197	0.295	0.585	-	-	-	-	360	85	-65	200	0.31	0.022		•						
Sucoform 86 CT	0.08	40	80	0.333	0.496	0.970	1.637	-	-	-	165	39	-65	200	0.24	0.011		•						
SR_47	0.05	107	70	0.586	0.849	1.563	2.489	2.847	3.182	3.405	32	8	-55	100	0.13	0.005								
SR_86	0.09	40	70	0.345	0.509	0.974	1.611	-	-	-	130	31	-55	125	0.13	0.015								
SR_86-QPL	0.09	20	70	0.378	0.580	1.202	-	-	-	-	130	31	-40	125	0.13	0.015								
SR_118	0.12	40	80	0.208	0.299	0.535	0.830	-	-	-	598	141	-55	125	0.38	0.023								
SR_141	0.14	33	70	0.208	0.316	0.639	-	-	-	-	450	106	-55	125	0.25	0.034								
SR_141-QPL	0.14	20	70	0.215	0.325	0.653	-	-	-	-	450	106	-40	125	0.25	0.034								
SR_250	0.25	18	70	0.133	0.210	0.455	-	-	-	-	1400	330	-55	100	0.37	0.106								
SR_141 CT	0.14	33	83	0.198	0.290	0.549	-	-	-	-	364	86	-55	200	0.39	0.012		•						
SR_86 CT	0.09	40	80	0.297	0.430	0.790	1.253	-	-	-	133	31	-55	200	0.13	0.006		•						
Enviroflex_178	0.07	3	71	0.946	-	-	-	-	-	-	60	-	-40	105	0.20	0.004							•	
Enviroflex_178_D	0.10	6	70	0.946	1.458	-	-	-	-	-	60	-	-40	105	0.20	0.008							•	
Enviroflex_316	0.10	3	71	0.566	-	-	-	-	-	-	90	-	-40	105	0.20	0.011							•	
Enviroflex_316_D	0.12	6	70	0.523	0.809	-	-	-	-	-	110	-	-40	105	0.20	0.014							•	
Enviroflex_142	0.20	6	71	0.322	0.532	-	-	-	-	-	225	-	-40	105	1.18	0.040							•	
Enviroflex_400	0.20	6	70	0.342	0.560	-	-	-	-	-	225	-	-40	105	0.39	0.040							•	
Enviroflex_393	0.40	6	71	0.195	0.338	-	-	-	-	-	495	-	-40	105	1.18	0.121							•	
Enviroflex_179	0.10	3	70	0.513	-	-	-	-	-	-	45	-	-40	105	0.20	0.075							•	
Spuma_240-RS-FR	0.24	6	85	0.161	0.236	-	-	-	-	-	230	-	-40	85	0.55	0.036							•	
Spuma_400-RS-FR	0.40	6	85	0.082	0.119	-	-	-	-	-	560	-	-40	85	0.98	0.095							•	
Spuma_195-FR-01	0.19	8	76	0.214	0.311	-	-	-	-	-	160	-	-40	85	0.39	0.027							•	
Spuma_240-FR-01	0.24	6	83	0.144	0.208	-	-	-	-	-	260	-	-40	85	0.55	0.041							•	
Spuma_400-FR-01	0.40	8	85	0.073	0.107	-	-	-	-	-	600	-	-40	85	0.98	0.077							•	
Spuma_500-FR-01	0.50	8	86	0.061	0.089	-	-	-	-	-	750	-	-40	85	1.34	0.120							•	
Spuma_600	0.59	6	85	0.049	0.073	-	-	-	-	-	930	-	-40	85	1.50	0.134							•	

RF cable selection guide (m)

Cable type	Outer diameter (mm)	Frequency range (GHz)	VOP (%)	Typ. insertion loss (dB/m)							CW power (W)		Min. temp. (°C)	Max. temp. (°C)	Min. bending radius (static) (mm)	Weight (g/m)	Dynamic applications	Phase stable vs. Temp.	Phase stable vs. Flexure	Halogen free	TVAC / TV	38999 suitable cable	Cable assembly only
				@ 3 GHz	@ 6 GHz	@ 18 GHz	@ 40 GHz	@ 50 GHz	@ 60 GHz	@ 67 GHz	@ 1 GHz sea level / 40 °C	@ 18 GHz sea level / 40 °C											
SUCOFLEX 101	3.7	50	77	0.787	1.115	2.001	3.117	3.510	-	-	296	70	-55	125	11	36.0							
SUCOFLEX 101 P	3.7	50	77	1.115	1.608	2.986	4.790	5.512	-	-	275	65	-55	125	11	33.0	•		•			•	
SUCOFLEX 101 PE	3.7	50	77	1.115	1.608	2.986	4.790	5.512	-	-	59	14	-40	85	11	30.0	•					•	
SUCOFLEX 102	4.0	46	77	0.689	0.951	1.706	2.625	-	-	-	394	93	-55	125	12	40.0						•	•
SUCOFLEX 102 I	4.0	46	77	0.689	0.951	1.706	2.625	-	-	-	250	59	-40	85	12	36.0				•		•	•
SUCOFLEX 102 D	4.6	46	77	0.689	0.951	1.706	2.625	-	-	-	394	93	-55	125	15	45.0						•	•
SUCOFLEX 103	4.6	33	77	0.525	0.755	1.345	-	-	-	-	615	145	-55	125	13	53.0						•	•
SUCOFLEX 103 I	4.8	33	77	0.525	0.755	1.345	-	-	-	-	380	90	-40	85	13	53.0				•		•	•
SUCOFLEX 103 D	5.1	33	77	0.525	0.755	1.345	-	-	-	-	615	145	-55	125	20	63.0						•	•
SUCOFLEX 104	5.5	26.5	77	0.427	0.623	1.115	-	-	-	-	907	214	-55	125	16	73.0						•	•
SUCOFLEX 104 I	6.6	26.5	77	0.427	0.623	1.115	-	-	-	-	600	141	-40	85	16	82.0				•		•	•
SUCOFLEX 104 D	6.1	26.5	77	0.427	0.623	1.115	-	-	-	-	907	214	-55	125	20	96.0						•	•
SUCOFLEX 126	5.5	26.5	77	0.427	0.623	1.115	-	-	-	-	907	214	-55	125	16	70.0	•		•			•	•
SUCOFLEX 126E	5.5	26.5	77	0.427	0.623	1.115	-	-	-	-	600	141	-40	85	16	66.0	•		•			•	•
SUCOFLEX 106	7.9	18	77	0.295	0.427	0.787	-	-	-	-	1582	373	-55	125	24	142.0						•	•
SUCOFLEX 106 I	8.2	18	77	0.295	0.427	0.787	-	-	-	-	928	219	-40	85	24	144.0				•		•	•
SUCOFLEX 106 D	8.3	18	77	0.295	0.427	0.787	-	-	-	-	1582	373	-55	125	26	175.0						•	•
SUCOFLEX 118	7.9	18	77	0.295	0.427	0.787	-	-	-	-	1582	373	-55	125	24	146.0	•		•			•	•
SUCOFLEX 118 I	8.2	18	77	0.295	0.427	0.787	-	-	-	-	928	219	-40	85	24	146.0	•		•	•		•	•
SUCOFLEX 118 D	8.3	18	77	0.295	0.427	0.787	-	-	-	-	1582	373	-55	125	26	157.0	•		•			•	•
SUCOFLEX 301	3.5	18	77	0.787	1.115	2.001	-	-	-	-	115	27	-55	125	15	23.9							•
SUCOFLEX 302 D	4.3	40	77	0.755	1.050	1.837	2.854	-	-	-	394	93	-55	125	15	31.0							•
SUCOFLEX 304 D	6.0	18	77	0.492	0.689	1.214	-	-	-	-	907	214	-55	125	20	56.0							•
SUCOFLEX 307	9.0	8.0	77	0.262	0.361	-	-	-	-	-	1600	377	-55	150	50	133.0							•
SUCOFLEX 526	5.5	27	77	0.427	0.623	1.115	-	-	-	-	907	214	-55	125	16.0	70.0	•		•				•
SUCOFLEX 526 E	5.5	27	77	0.427	0.623	1.115	-	-	-	-	600	141	-40	85	16.0	66.0	•		•				•
SUCOFLEX 526 S	7.7	26.5	77	0.427	0.623	1.115	-	-	-	-	800	189	-55	125	25.4	144.0	•		•				•
SUCOFLEX 540	4.0	40.0	77	0.689	0.951	1.706	2.625	-	-	-	394	93	-55	125	12.0	40.0	•		•				•
SUCOFLEX 540 E	4.0	40.0	77	0.689	0.951	1.706	2.625	-	-	-	240	57	-40	85	12.0	36.0	•		•				•
SUCOFLEX 540 S	6.4	40	77	0.689	0.951	1.706	2.625	-	-	-	394	93	-55	125	25.4	90.0	•		•				•
SUCOFLEX 550	3.7	50	77	0.787	1.115	2.001	3.117	3.510	-	-	296	70	-55	125	11.0	36.0	•		•				•
SUCOFLEX 550 E	3.7	50	77	0.787	1.115	2.001	3.117	3.510	-	-	200	47	-40	85	11.0	33.0	•		•				•
SUCOFLEX 550 S	6.1	50	77	0.787	1.115	2.001	3.117	3.510	-	-	296	70	-55	125	25.4	78.0	•		•				•
SUCOFLEX 570	3.3	70	77	1.148	1.640	2.920	4.462	5.052	5.577	5.938	171	40	-55	125	11.0	25.0	•		•			•	•
SUCOFLEX 570 E	3.3	70	77	1.148	1.640	2.920	4.462	5.052	5.577	5.938	115	27	-40	85	11.0	20.0	•		•				•
SUCOFLEX 570S	5.8	70	77	1.148	1.640	2.920	4.462	5.052	5.577	5.938	135	32	-55	125	25.4	76.0	•		•				•
Eacon 2C	3.8	18	77	0.663	0.948	1.696	-	-	-	-	395	93	-55	200	12	39.0	•						
Eacon 4C	5.7	18	77	0.417	0.604	1.099	-	-	-	-	1032	244	-55	200	15	73.0	•						
Eacon 6C	7.7	18	77	0.282	0.410	0.764	-	-	-	-	1582	373	-55	200	24	148.0	•						
NANOBEND	1.62	110	70	2.62	3.89	7.23	10.83	11.93	13.17	13.99	79	15	-55	200	5.1	14.9						•	•

RF cable selection guide (m) [continued]

Cable type	Outer diameter (inch)	Frequency range (GHz)	VOP (%)	Typ. insertion loss (dB/m)							CW power (W)		Min. temp. (°C)	Max. temp. (°C)	Min. bending radius (static) (inch)	Weight (lbs/ft)	Dynamic applications	Phase stable vs. Temp.	Phase stable vs. Flexure	Halogen free	TVAC / TV	38999 suitable cable	Cable assembly only		
				@ 3 GHz	@ 6 GHz	@ 18 GHz	@ 40 GHz	@ 50 GHz	@ 60 GHz	@ 67 GHz	@ 1 GHz sea level / 25 °C	@ 18 GHz sea level / 25 °C													
MICROBEND	2.00	90	70	1.815	2.6	4.67	7.23	8.193	9.084	9.673	111	26	-55	200	1.5	11.9									
MICROBEND L	2.00	85	76	1.42	2.019	3.54	5.36	6.027	6.634	7.032	-	33	-55	200	5.1	10.4									
MINIBEND CT	2.50	70	81	1.736	2.5	4.54	7.13	-	-	-	201	47	-55	200	5.0	4.5	•	•					•	•	•
MINIBEND	2.50	65	70	1.3	1.878	3.41	5.357	6.098	6.789	-	173	41	-55	200	5.1	14.9									•
MINIBEND L	2.70	50	76	1.075	1.531	2.697	4.099	4.614	-	-	288	68	-55	200	6.4	16.4									•
MINI141	3.70	40	76	0.667	0.954	1.698	2.609	-	-	-	590	139	-55	200	8.4	31.3									•
MINI141 H (32021E)	3.70	45	77	0.764	1.091	1.93	2.957	-	-	-	510	120	-55	200	8.4	12.2	•								•
MINI141 CT	3.60	40	80	0.95	1.392	2.618	4.261	-	-	-	-	65	-55	125	8.4	9.5		•	•						•
MINI250 H	5.72	26	77	0.423	0.608	1.095	-	-	-	-	-	261	-55	200	22.7	74.4									
MINI250 HB	5.72	26	77	0.423	0.608	1.095	-	-	-	-	-	261	-55	200	22.7	74.4									
Everflex 32084	2.40	40	76	1.96	2.57	4.69	6.92	-	-	-	192	45	-55	200	-	10.4	•								•
BoaFlex 32071	9.50	14	78	0.23	0.34	0.63	-	-	-	-	3300	-	-65	200	50.8	63.5									•
Multiflex 53 -02	1.74	100	70	1.98	2.86	5.20	8.17	9.30	10.36	11.06	30	7	-55	165	3	8.5	•								•
Multiflex 86	2.65	40	71	1.33	1.93	3.56	5.69	-	-	-	140	33	-65	165	6	21.0									•
Multiflex 141	4.1	33	71	0.73	1.08	2.09	-	-	-	-	373	88	-65	165	10	45.0									•
Multiflex 141 CT	4.2	33	84	0.57	0.85	1.62	-	-	-	-	457	108	-65	200	12	29.0		•							•
Multiflex 210 CT	5.0	30	84	0.48	0.72	1.40	-	-	-	-	628	148	-65	200	27.50	45.0		•							•
Multiflex 318 CT	7.5	18	84	0.32	0.49	1.00	-	-	-	-	1350	318	-65	200	42.50	90.0		•							•
Miniflex 36 LA	1.0	6	76	2.73	4.01	-	-	-	-	-	28	7	-55	200	1.50	2.5									
Sucoform_47_CU	1.2	40	71	2.080	3.012	5.518	8.750	-	-	-	32	8	-65	165	3	55.0									
Sucoform 86	2.1	40	71	1.207	1.778	3.386	5.574	-	-	-	94	38	-65	165	6	15.0									
Sucoform 141	3.6	33	71	0.735	1.109	2.224	-	-	-	-	484	114	-65	165	8	38.0									
Sucoform_250-01	6.3	18	71	0.456	0.702	1.450	-	-	-	-	920	217	-65	165	30	125.0									
Sucoform 141 CT	3.58	30	83	0.646	0.968	1.919	-	-	-	-	360	85	-65	200	8	33.0		•							
Sucoform 86 CT	2.15	40	80	1.093	1.627	3.182	5.371	-	-	-	165	39	-65	200	6	16.0		•							
SR_47	1.2	107	69.5	1.923	2.787	5.128	8.166	9.341	10.440	11.170	32	8	-55	100	3.18	7.1									
SR_86	2.2	40	69.5	1.132	1.670	3.196	5.285	-	-	-	130	31	-55	125	3.18	22.8									
SR_86-QPL	2.2	20	69.5	1.240	1.903	3.944	-	-	-	-	130	31	-40	125	3.18	22.8									
SR_118	3.0	40	80	0.682	0.981	1.755	2.723	-	-	-	598	141	-55	125	9.53	34.0									
SR_141	3.6	33	69.5	0.682	1.037	2.096	-	-	-	-	450	106	-55	125	6.35	51.0									
SR_141-QPL	3.6	20	69.5	0.705	1.066	2.142	-	-	-	-	450	106	-40	125	6.35	51.2									
SR_250	6.4	18	69.5	0.436	0.689	1.493	-	-	-	-	1400	330	-55	100	10	158.0									
SR_141 CT	3.58	33	83	0.650	0.951	1.801	-	-	-	-	364	86	-55	200	10	18.0		•							
SR_86 CT	2.20	40	80	0.974	1.411	2.592	4.111	-	-	-	133	31	-55	200	3.18	9.3		•							
Enviroflex_178	1.84	3	71	3.105	-	-	-	-	-	-	60	-	-40	105	5	6.5									•
Enviroflex_178_D	2.45	6	70	3.105	4.783	-	-	-	-	-	60	-	-40	105	5	11.2									•
Enviroflex_316	2.54	3	71	1.858	-	-	-	-	-	-	90	-	-40	105	5	16.0									•
Enviroflex_316_D	3.16	6	70	1.715	2.654	-	-	-	-	-	110	-	-40	105	5	21.0									•
Enviroflex_142	5.00	6	71	1.058	1.746	-	-	-	-	-	225	-	-40	105	30	60.0									•
Enviroflex_400	5.00	6	70	1.122	1.837	-	-	-	-	-	225	-	-40	105	10	60.0									•
Enviroflex_393	10.05	6	71	0.641	1.109	-	-	-	-	-	495	-	-40	105	30	180.0									•
Enviroflex_179	2.54	3	70	1.682	-	-	-	-	-	-	45	-	-40	105	5	111.0									•
Spuma_240-RS-FR	6.17	6	85	0.528	0.774	-	-	-	-	-	230	-	-40	85	14.0	54.0									•
Spuma_400-RS-FR	10.25	6	85	0.269	0.390	-	-	-	-	-	560	-	-40	85	25.0	142.0									•
Spuma_195-FR-01	4.95	8	76	0.702	1.020	-	-	-	-	-	160	-	-40	85	10.0	39.7									•
Spuma_240-FR-01	6.17	6	83	0.472	0.682	-	-	-	-	-	260	-	-40	85	14	61.0									•
Spuma_400-FR-01	10.25	8	85	0.240	0.351	-	-	-	-	-	600	-	-40	85	25	115.0									•
Spuma_500-FR-01	12.78	8	86	0.200	0.292	-	-	-	-	-	750	-	-40	85	34	178.0									•
Spuma_600	14.99	6	85	0.161	0.240	-	-	-	-	-	930	-	-40	85	38	200.0									•



Connecting – today and beyond

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HUBER+SUHNER is certified according to ISO 9001, ISO 14001, OHSAS 18001, EN(AS) 9100, IATF 16949 and ISO/TS 22163 – IRIS.

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