LSOH wire with increased temperature range
FABER® THERM 145 (multicore)

Application: This electron beam cross-linked, halogen-free, insulated wire is used for the connection of lights, heating units and machines in environments with increased temperatures. In addition to a long working life and a high permissible conductor temperature it also ensures an increased current carrying capacity in comparison to conventional cables. Ship approvals (GL, DNV, LRS, BV) can be provided on request.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	cross-linked polyolefin-copolymer
Sheathing material:	cross-linked polyolefin-copolymer
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	yes
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	145 °C
Permitted outer cable temperature, fixed, °C:	-55 - +145 °C
Permitted outer cable temperature, moved, °C:	-35 - +120 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Nominal voltage	to 1 mm²: 300/500 V
	from 1,5 mm²: 450/750 V (600/1000 V for fixed and protected installation)
Test voltage	3500 V

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Ship and offshore approvals (on request):	- Germanischer Lloyd (GL)
	- Lloyd‘s Register (LR)
	- BUREU VERITAS (BV)
	- DET Norske Veritas (DNV)

FABER® THERM 145

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
041106	02X0.5 BK	36.7	13	5.3	10	39
041107	03G0.5 BK	36.7	13	5.7	14.4	47
041108	04G0.5 BK	36.7	13	6.2	19.2	51
041109	05G0.5 BK	36.7	13	7	24	63
041110	06G0.5 BK	36.7	13	7.4	29	74
041111	07G0.5 BK	36.7	13	8.1	34	85
041112	08G0.5 BK	36.7	13	9	38.4	102
041113	10G0.5 BK	36.7	13	10	48	123
041114	12G0.5 BK	36.7	13	10	58	135
041122	14G0.5 BK	36.7	13	10.5	67.2	153
041123	16G0.5 BK	36.7	13	11.3	77	176
041124	19G0.5 BK	36.7	13	12.4	91.2	213
041125	21G0.5 BK	36.7	13	13	101	234
041126	24G0.5 BK	36.7	13	14	115.2	253
041127	25G0.5 BK	36.7	13	14	120	269
041128	27G0.5 BK	36.7	13	14	130	280
041129	30G0.5 BK	36.7	13	14.6	144	311
041130	33G0.5 BK	36.7	13	15.4	158.4	343
041131	37G0.5 BK	36.7	13	16.5	178	392
041132	02X0.75 BK	24.8	16	6	14.4	40
041133	03G0.75 BK	24.8	16	6.4	22	53
041115	04G0.75 BK	24.8	16	7	29	69
041116	05G0.75 BK	24.8	16	7.9	36	85
041134	06G0.75 BK	24.8	16	8.5	43.2	101
041135	07G0.75 BK	24.8	16	9.1	50.4	115
041136	08G0.75 BK	24.8	16	10.3	58	140
041137	10G0.75 BK	24.8	16	11.4	72	167
041138	12G0.75 BK	24.8	16	11.4	86.4	183
041139	14G0.75 BK	24.8	16	12.1	101	212
041140	16G0.75 BK	24.8	16	12.8	115.2	239
041141	19G0.75 BK	24.8	16	14.1	137	290
041142	21G0.75 BK	24.8	16	14.9	151.2	323
041143	24G0.75 BK	24.8	16	16.1	173	364
041144	25G0.75 BK	24.8	16	16.1	180	371
041145	27G0.75 BK	24.8	16	16.1	194.4	387
041146	30G0.75 BK	24.8	16	16.8	216	429
041147	33G0.75 BK	24.8	16	17.5	238	468
041150	37G0.75 BK	24.8	16	19.1	266.4	550
041148	02X1 BK	18.2	21	6.6	19.2	50
041149	03G1 BK	18.2	21	7	29	65
041151	04G1 BK	18.2	21	7.7	38.4	85
041152	05G1 BK	18.2	21	8.4	48	105
041153	06G1 BK	18.2	21	9.2	58	127

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
041154	07G1 BK	18.2	21	10.2	67.2	153
041155	08G1 BK	18.2	21	11.3	77	187
041156	10G1 BK	18.2	21	12.5	96	214
041157	12G1 BK	18.2	21	12.5	115.2	230
041158	14G1 BK	18.2	21	13.2	134.4	266
041159	16G1 BK	18.2	21	13.9	154	301
041160	19G1 BK	18.2	21	15.7	182.4	377
041161	21G1 BK	18.2	21	16.5	202	419
041162	24G1 BK	18.2	21	17.7	230.4	464
041163	25G1 BK	18.2	21	17.7	240	472
041164	27G1 BK	18.2	21	17.7	259.2	488
041167	30G1 BK	18.2	21	18.3	288	536
041165	33G1 BK	18.2	21	19.4	317	605
041166	37G1 BK	18.2	21	21.2	355.2	690
041168	02X1.5 BK	13.7	26	7.8	29	69
041117	03G1.5 BK	13.7	26	8.3	43.2	96
041118	04G1.5 BK	13.7	26	9.1	58	120
041119	05G1.5 BK	13.7	26	10.1	72	156
041169	06G1.5 BK	13.7	26	11.2	86.4	187
041170	07G1.5 BK	13.7	26	12.1	101	224
041171	08G1.5 BK	13.7	26	13.5	115.2	263
041172	10G1.5 BK	13.7	26	15	144	310
041173	12G1.5 BK	13.7	26	15	173	335
041174	14G1.5 BK	13.7	26	15.9	202	383
041175	16G1.5 BK	13.7	26	16.8	230.4	443
041176	19G1.5 BK	13.7	26	19	274	554
041177	21G1.5 BK	13.7	26	20	302.4	614
041178	24G1.5 BK	13.7	26	21.7	346	741
041179	25G1.5 BK	13.7	26	21.7	360	701
041180	27G1.5 BK	13.7	26	21.7	389	723
041181	30G1.5 BK	13.7	26	22.5	432	796
041182	33G1.5 BK	13.7	26	23.5	475.2	880
041183	37G1.5 BK	13.7	26	25.5	533	1026
041184	02X2.5 BK	7.98	34	9.1	48	99
041120	03G2.5 BK	7.98	34	9.9	72	140
041185	04G2.5 BK	7.98	34	10.9	96	183
041121	05G2.5 BK	7.98	34	12.2	120	235
041186	06G2.5 BK	7.98	34	13.3	144	234
041187	07G2.5 BK	7.98	34	14.6	169	334
041188	08G2.5 BK	7.98	34	16.2	192	397
041189	10G2.5 BK	7.98	34	17.9	240	460
041190	12G2.5 BK	7.98	34	17.9	289	500
041191	14G2.5 BK	7.98	34	19.2	336	593
041192	16G2.5 BK	7.98	34	20.4	384	675
041193	19G2.5 BK	7.98	34	22.8	456	835
041194	21G2.5 BK	7.98	34	24.2	504	939
041195	24G2.5 BK	7.98	34	26.1	576	1047
041196	25G2.5 BK	7.98	34	26.1	600	1067
041197	27G2.5 BK	7.98	34	26.1	648	1107
041198	30G2.5 BK	7.98	34	27	720	1219
041199	33G2.5 BK	7.98	34	28.4	792	1349
041200	37G2.5 BK	7.98	34	30.8	888	1565
041201	02X4 BK	4.95	45	10.7	77	154
041202	03G4 BK	4.95	45	11.5	115.2	191
041203	04G4 BK	4.95	45	12.8	154	257

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
041204	05G4 BK	4.95	45	14.2	192	323
041205	06G4 BK	4.95	45	15.4	230.4	398
041206	07G4 BK	4.95	45	17	269	462
041207	08G4 BK	4.95	45	18.2	307.2	553
041208	10G4 BK	4.95	45	20.6	384	663
041209	12G4 BK	4.95	45	20.6	461	725
041210	14G4 BK	4.95	45	21	538	797
041211	02X6 BK	3.11	59	12.1	115.2	211
041212	03G6 BK	3.11	59	12.9	173	278
041213	04G6 BK	3.11	59	14.4	230.4	363
041214	05G6 BK	3.11	59	15.8	288	461
041215	06G6 BK	3.11	59	17.4	345.6	604
041216	07G6 BK	3.11	59	19.4	403.2	643
041217	02X10 BK	1.84	80	15.4	192	351
041218	03G10 BK	1.84	80	16.5	288	475
041219	04G10 BK	1.84	80	18.6	384	630
041220	05G10 BK	1.84	80	20.4	480	782
041221	06G10 BK	1.84	80	22.6	576	914
041222	07G10 BK	1.84	80	24.7	672	1092
041223	02X16 BK	1.16	106	17.5	307.2	495
041224	03G16 BK	1.16	106	19.1	461	691
041225	04G16 BK	1.16	106	21.2	614.4	905
041226	05G16 BK	1.16	106	23.6	768	1129
041227	06G16 BK	1.16	106	25.9	922	1327
041228	07G16 BK	1.16	106	28.6	1075	1590
041229	02X25 BK	0.734	140	22.7	480	833
041230	03G25 BK	0.734	140	24.4	720	1139
041231	04G25 BK	0.734	140	27.3	960	1489
041232	05G25 BK	0.734	140	30.4	1200	1863
041233	06G25 BK	0.734	140	33.6	1440	2275
041234	07G25 BK	0.734	140	37	1680	2633
041235	02X35 BK	0.529	174	25.1	672	1104
041236	03G35 BK	0.529	174	27	1008	1513
041237	04G35 BK	0.529	174	30.2	1344	1992
041238	05G35 BK	0.529	174	33.4	1680	2488
041239	02X50 BK	0.391	213	30.3	960	1573
041240	03G50 BK	0.391	213	32.5	1440	2154
041241	04G50 BK	0.391	213	36.6	1920	2819
041242	05G50 BK	0.391	213	40.3	2400	3505
041243	02X70 BK	0.27	273	34.7	1344	2157
041244	03G70 BK	0.27	273	37.2	2016	2946
041245	04G70 BK	0.27	273	41.8	2688	3888
041246	05G70 BK	0.27	273	46.6	3360	4864
041247	02X95 BK	0.195	334	39.5	1824	2763
041248	03G95 BK	0.195	334	42.6	2736	3835
041249	04G95 BK	0.195	334	47.7	3648	5052
041250	05G95 BK	0.195	334	52.9	4560	6307

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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