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

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. Not for installation on ladders or trays. 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
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
Ozone-resistant:	yes
Maximum 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:	6 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

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

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu [kg/km]	G [kg]
041253	01X0.5 SW	36.7	13	1.9	5	8
041254	01X0.5 WS	36.7	13	1.9	5	8
041255	01X0.75 GE	24.8	16	2.2	7,2	11
041256	01X0.75 GN	24.8	16	2.2	7,2	11
041257	01X0.75 GG	24.8	16	2.2	7,2	11
041260	01X0.75 WS	24.8	16	2.2	7,2	11
041261	01X0.75 GR	24.8	16	2.2	7,2	11
041262	01X0.75 OR	24.8	16	2.2	7,2	11
041263	01X0.75 SW	24.8	16	2.2	7,2	11
041283	01X1 GG	18.2	21	2.5	10	14
041285	01X1.5 BR	13.7	26	3	14,4	21
041286	01X1.5 DB	13.7	26	3	14,4	21
041287	01X1.5 GE	13.7	26	3	14,4	21
041288	01X1.5 GN	13.7	26	3	14,4	21
041264	01X0.75 VL	24.8	16	2.2	7,2	11
041265	01X0.75 DB	24.8	16	2.2	7,2	11
041266	01X0.75 BR	24.8	16	2.2	7,2	11
041267	01X1 SW	18.2	21	2.5	10	14
041289	01X1.5 GR	13.7	26	3	14,4	21
041290	01X1.5 HB	13.7	26	3	14,4	21
041291	01X1.5 RT	13.7	26	3	14,4	21
041292	01X1.5 VL	13.7	26	3	14,4	21
041293	01X1.5 WS	13.7	26	3	14,4	21
041268	01X1.5 GG	12.2	26	3	14,4	20
041269	01X1.5 SW	13.7	26	3	14,4	21
041294	01X1.5 OR	13.7	26	3	14,4	21
041295	01X2.5 BR	7.98	34	3.7	24	31
041296	01X2.5 DB	7.98	34	3.7	24	31
041270	01X2.5 GG	7.98	34	3.7	24	32
041297	01X2.5 GN	7.98	34	3.7	24	32
041299	01X2.5 RT	7.98	34	3.7	24	31
041271	01X2.5 SW	7.98	34	3.7	24	32
041300	01X2.5 WS	7.98	34	3.7	24	32
041272	01X4 SW	4.95	45	4.3	38,4	48
041301	01X4 GG	4.95	45	4.3	38,4	48
041273	01X6 SW	3.11	59	6.2	58	76
041303	01X6 GG	3.11	59	6.2	58	69
041274	01X10 SW	1.84	80	6.7	96	120
041304	01X10 GG	1.84	80	6.7	96	120
041275	01X16 GG	1.16	106	8.4	154	181
041276	01X16 SW	1.16	106	8.4	154	181
041305	01X16 HB	1.16	213	8.4	154	181
041277	01X25 SW	0.734	140	10.2	240	265
041358	01X25 GG			10.2	240	265

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu [kg/km]	G [kg]
041278	01X35 GG	0.529	174	11.7	336	369
041279	01X35 SW	0.529	174	11.7	336	386
041280	01X50 SW	0.391	213	13.7	480	580
041306	01X50 GG	0.391	213	13.7	480	580
041307	01X70 GG	0.27	273	15.8	672	734
041281	01X70 SW	0.27	273	15.8	672	765
041282	01X95 SW	0.195	334	17.3	912	1040
041309	01X120 SW	0.154	390	20.2	1152	1273
041310	01X150 SW	0.126	452	22.1	1440	1582
041311	01X150 GG	0.126	452	22.1	1440	1582
041312	01X185 SW	0.1	519	23.6	1776	2100
041313	01X240 SW	0.0762	619	27.7	2304	2526
041341	01X300 SW	0.0654		28.1	2880	2872

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

