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 = fine stranded - DIN EN IEC 60228 (VDE 0295)
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
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
Min. 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

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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	G [kg]
041253	1X0.5 BK	40.1	13	1.9	5	8
041267	1X1 BK	20	21	2.5	10	14
041269	1X1.5 BK	13.7	26	3	14.4	21
041271	1X2.5 BK	8.21	34	3.7	24	32
041397	01X2.5 GY	8.21	34	3.7	24	31
041398	01X2.5 OG	8.21	34	3.7	24	31
041272	1X4 BK	5.09	45	4.3	38.4	48
041273	1X6 BK	3.39	59	6.2	58	76
041274	1X10 BK	1.84	80	6.7	96	120
041275	1X16 GN-YE	1.24	106	8.4	154	181
041276	1X16 BK	1.24	106	8.4	154	181
041277	1X25 BK	0.734	140	10.2	240	265
041278	1X35 GN-YE	0.529	174	11.7	336	369
041279	1X35 BK	0.529	174	11.7	336	386
041280	1X50 BK	0.393	213	13.7	480	580
041281	1X70 BK	0.277	273	15.8	672	765
041282	1X95 BK	0.21	334	17.3	912	1040
041312	1X185 BK	0.1	519	23.6	1776	2100

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