


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
<b>ÖLFLEX® HEAT 125 C MC</b>		05.11.2015

Electron beam cross-linked cables for more demanding application requirements  
 For safety in areas with high density of people  
 Reduction of flame propagation, density and toxicity of smoke gases in event of fire  
 Minimises damage to buildings and equipment caused by the formation of toxic acid fumes in fires  
 Certified for maritime applications  
 Copper braiding screens the cable against electromagnetic interference



Suitable for outdoor use



Flame-retardant



Single halogen-free cable



Cold-resistant



Mechanical resistance



Oil-resistant



Interference signals




Temperature-resistant



UV-resistant

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### Info

Substitutes previous ÖLFLEX® HEAT 145 C MC  
Improved characteristics in the event of a fire  
GL - Germanischer Lloyd approved

### Application range

For outdoor applications  
For the wiring and connection of lighting, heating appliances, control cabinets, and distributors in mechanical and plant engineering  
For use in traffic regulation systems and outdoors  
Coil winding, electromagnets, pumps, electrical systems  
Heat treatment plants, pressure die casting, heating and cooling technology

### Product Make-up

Fine-wire, tinned-copper conductor  
Electron beam cross-linked polyolefin copolymer insulation  
Cores twisted in layers  
Tinned-copper braiding  
Outer sheath: electron beam cross-linked polyolefin copolymer, black

### Norm references / Approvals

GL - Germanischer Lloyd approved  
Based on EN 50525-3-21 and EN 50525-3-41


### Product features

Fire behaviour:  
- Halogen-free (IEC 60754-1)  
- No corrosive gases (IEC 60754-2)  
- Low smoke density (IEC 61034-2)  
- Flame-retardant (IEC 60332-1-2,  
NF C 32-070 (C1) and  
NF-F 16-101 (Class C))  
- Low toxicity (EN 50305)  
No flame-propagation according to IEC 60332-3-22, IEC 60332-3-24 and IEC 60332-3-25 (Flame spread on vertical cable bundle)  
Oil-resistant acc. IEC 60227-1 (ST9) and EN 50264-1 (EM104)  
UV-resistant according to ISO 4892-2  
Ozone-resistant according to EN 50396

### Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
Photographs are not to scale and do not represent detailed images of the respective products.

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### Technical Data

Core identification code:	Colour-coded according to VDE 0293-308, refer to Appendix T9 or black with white numbers refer to article table
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Specific insulation resistance:	>2 TOhm x cm
Conductor stranding:	Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 5 x outer diameter
Nominal voltage:	Up to 1.0mm <sup>2</sup> U <sub>0</sub> /U 300/500 V From 1.5mm <sup>2</sup> U <sub>0</sub> /U 450/750 V 0.6/1kV from 1.5 mm <sup>2</sup> in the case of fixed and protected installation
Test voltage:	C/C 4000 V, C/S 2500 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Occasional flexing: -35 °C to +120 °C Fixed installation: -55 °C to +125 °C Temporary (3.000h): up to +145 °C

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## ÖLFLEX® HEAT 125 C MC

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Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 125 C MC 300/500 V - colour-coded				
1024400	2 X 0,5	6,8	41.0	45
1024401	3 G 0,5	7,1	45.5	59
1024407	2 X 0,75	7,2	46.0	79
1024408	3 G 0,75	7,6	57.9	96
1024409	4 G 0,75	8,4	64.0	116
1024410	5 G 0,75	9,1	77.4	139
1024415	2 X 1	7,4	56.0	90
1024416	3 G 1	8.0	65.3	104
1024417	4 G 1	8,6	78.1	129
1024418	5 G 1	9,6	89.4	153
ÖLFLEX® HEAT 125 C MC 450/750 V - colour-coded				
1024423	2 X 1,5	8,6	65.0	114
1024424	3 G 1,5	9,1	83.0	132
1024425	4 G 1,5	10.0	100.0	163
1024426	5 G 1,5	11,1	125.0	200
1024433	2 X 2,5	10.0	112.0	157
1024434	3 G 2,5	10,7	146.0	198
1024435	4 G 2,5	11,6	167.0	236
1024436	5 G 2,5	12,9	200.0	287
1024441	4 G 4	13,7	237.0	317
1024446	4 G 6	15,1	318.0	404
1024451	4 G 10	19,3	558.0	669
ÖLFLEX® HEAT 125 C MC 300/500 V - Black with white numbers				
1024480	2 X 0,75	7,2	46.0	79
1024481	3 X 0,75	7,6	57.9	96
1024482	4 X 0,75	8,4	64.0	116
1024411	7 G 0,75	10.0	102.0	186
1024483	7 X 0,75	10.0	102.0	186
1024412	12 G 0,75	13,4	177.0	219
1024484	2 X 1	7,4	56.0	90
1024485	3 X 1	8.0	65.3	104
1024419	7 G 1	10,3	113.3	211
1024420	12 G 1	14.0	188.1	266



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ÖLFLEX® HEAT 125 C MC 450/750 V - Black with white numbers				
1024486	2 X 1,5	8,6	65.0	114
1024487	4 X 1,5	10.0	100.0	163
1024427	7 G 1,5	12.0	149.0	273
1024488	7 X 1,5	12.0	149.0	273
1024428	12 G 1,5	16,3	280.0	371
1024489	3 X 2,5	10,7	146.0	198
1024490	4 X 2,5	11,6	167.0	236
1024437	7 G 2,5	14,4	288.0	385
1024438	12 G 2,5	19,3	477.3	569