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

Suitable for outdoor use

Flame-retardant

Single halogen-free cable

Cold-resistant

Mechanical resistance

Oil-resistant

Temperature-resistant

UV-resistant

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

Application range

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
For outdoor applications

Product Make-up

Fine-wire, tinned-copper conductor
Electron beam cross-linked polyolefin copolymer insulation
Cores twisted in layers
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
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.

Technical Data

Core identification code:	Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
Classification:	ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
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: 4 x outer diameter
Nominal voltage:	Up to 1.0mm² U_0/U 300/500 V From 1.5mm² U_0/U 450/750 V 0.6/1kV from 1.5 mm² in the case of fixed and protected installation
Test voltage:	4000 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

Part number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® HEAT 125 MC 300/500V				
1024300	2 X 0,5	6.0	9.6	38
1024301	3 G 0,5	6,3	14.4	46
1024307	2 X 0,75	6,4	14.4	40
1024308	3 G 0,75	6,8	21.6	53
1024309	4 G 0,75	7,4	28.8	69
1024310	5 G 0,75	8,3	36.0	86
1024311	7 G 0,75	9.0	50.0	127
1024315	2 X 1	6,6	19.2	50
1024316	3 G 1	7.0	28.8	67
1024317	4 G 1	7,8	38.4	87
1024318	5 G 1	8,6	48.0	107
1024319	7 G 1	9,5	67.0	152
1024320	12 G 1	12,8	115.0	221
ÖLFLEX® HEAT 125 MC 450/750V				
1024323	2 X 1,5	7,6	29.0	71
1024324	3 G 1,5	8,3	43.0	96
1024325	4 G 1,5	9.0	58.0	123
1024326	5 G 1,5	10,1	72.0	156
1024327	7 G 1,5	11,2	101.0	224
1024328	12 G 1,5	15,1	173.0	316
1024333	2 X 2,5	9.0	48.0	102
1024334	3 G 2,5	9,8	72.0	145
1024335	4 G 2,5	10,8	96.0	189
1024336	5 G 2,5	11,9	120.0	235
1024337	7 G 2,5	13,2	168.0	344
1024341	4 G 4	12,7	154.0	276
1024342	5 G 4	14.0	192.0	334
1024346	4 G 6	14,1	230.0	341
1024347	5 G 6	15,8	288.0	431