# ÖLFLEX® CLASSIC 135 CH

Screened halogen-free control cable with improved fire characteristics

ÖLFLEX® CLASSIC 135 CH -halogen-free control cable, HFFR, flexible and screened for various applications, $U_0$/U: 300/500V

**Info**
CPR: Article number choice under www.lappkabel.com/cpr
For use within public buildings and industrial plants
New: Extended application range
GL certified and cold flexible down to -25°C




Interference signals

Halogen-free

Flame-retardant

**Benefits**
Easy installation due to flexible design
Space-saving installation due to small cable diameters
Certified for maritime applications
Substitutes ÖLFLEX® 120 CH

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You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

# ÖLFLEX® CLASSIC 135 CH

## Application range

Public buildings like airports or railway stations
Plant engineering
Industrial machinery
Heating and air-conditioning systems
Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards
In EMC-sensitive environments
(electromagnetic compatibility)
Note: for the use of AWM (Appliance Wiring Material) cables in industrial machinery (USA) according to NFPA 79 Ed. 2015: please see the catalogue appendix table T29

## Product features

Flame-retardant according to IEC 60332-1-2
(flame spread on a single cable)
No flame-propagation according to IEC 60332-3-22 and IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)
Halogen-free according to IEC 60754-1
(amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
Low smoke density according to IEC 61034-2
UL Cable Flame Test

## Norm references / Approvals

UL AWM style 21089
Based on EN 50525-3-11
Based on EN 50525-2-51
Germanischer Lloyd (GL)
certificate no. 11 120-14 HH

## Product Make-up

Fine-wire strand made of bare copper wires
Core insulation: Halogen-free
Cores twisted in layers
Halogen-free plastic foil wrapping
Tinned-copper braiding
Outer sheath: Special halogen-free compound, grey (similar to RAL 7001)

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## Technical Data

| | |
|---|---|
| Classification: | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable |
| Core identification code: | Black with white numbers acc. to VDE 0293-1 |
| Conductor stranding: | Fine wire according to VDE 0295,<br>class 5/IEC 60228 class 5 |
| Minimum bending radius: | Occasional flexing: 20 x outer diameter<br>Fixed installation: 6 x outer diameter |
| Nominal voltage: | U0/U: 300/500 V<br>UL: 600 V |
| Test voltage: | Core/core: 4000 V<br>Core/screen: 2000 V |
| Protective conductor: | G = with GN-YE protective conductor<br>X = without protective conductor |
| Temperature range: | Occasional flexing: -25°C to +70°C (UL: +75°C)<br>Fixed installation: -40°C to +80°C (UL: +75°C) |

## Note

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.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

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| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| ÖLFLEX® CLASSIC 135 CH | | | | |
| 1123200 | 2 X 0.5 | 5.9 | 36 | 51 |
| 1123201 | 3 G 0.5 | 6.2 | 43 | 61 |
| 1123202 | 3 X 0.5 | 6.2 | 43 | 61 |
| 1123203 | 4 G 0.5 | 6.6 | 49 | 72 |
| 1123204 | 4 X 0.5 | 6.6 | 49 | 72 |
| 1123205 | 5 G 0.5 | 7.1 | 57 | 85 |
| 1123206 | 5 X 0.5 | 7.1 | 57 | 85 |
| 1123208 | 7 G 0.5 | 7.7 | 69 | 103 |
| 1123209 | 7 X 0.5 | 7.7 | 69 | 103 |
| 1123213 | 12 G 0.5 | 10.1 | 104 | 165 |
| 1123217 | 18 G 0.5 | 11.8 | 141 | 236 |
| 1123220 | 25 G 0.5 | 13.7 | 224 | 324 |
| 1123232 | 2 X 0.75 | 6.3 | 43 | 60 |
| 1123233 | 3 G 0.75 | 6.6 | 52 | 77 |
| 1123234 | 3 X 0.75 | 6.6 | 52 | 77 |
| 1123235 | 4 G 0.75 | 7.1 | 61 | 87 |
| 1123236 | 4 X 0.75 | 7.1 | 61 | 87 |
| 1123237 | 5 G 0.75 | 7.9 | 72 | 106 |
| 1123238 | 5 X 0.75 | 7.9 | 72 | 106 |
| 1123241 | 7 G 0.75 | 8.5 | 89 | 129 |
| 1123242 | 7 X 0.75 | 8.5 | 89 | 129 |
| 1123247 | 12 G 0.75 | 11.1 | 138 | 211 |
| 1123248 | 12 X 0.75 | 11.1 | 138 | 211 |
| 1123251 | 18 G 0.75 | 13 | 211 | 307 |
| 1123254 | 25 G 0.75 | 15.1 | 280 | 413 |
| 1123266 | 2 X 1 | 6.6 | 51 | 79 |
| 1123267 | 3 G 1 | 6.9 | 62 | 88 |
| 1123268 | 3 X 1 | 6.9 | 62 | 88 |
| 1123269 | 4 G 1 | 7.4 | 74 | 106 |
| 1123270 | 4 X 1 | 7.4 | 74 | 106 |
| 1123271 | 5 G 1 | 8.3 | 88 | 124 |
| 1123272 | 5 X 1 | 8.3 | 88 | 124 |
| 1123274 | 7 G 1 | 8.9 | 112 | 155 |
| | | | | |

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| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| 1123275 | 7 X 1 | 8.9 | 112 | 155 |
| 1123280 | 12 G 1 | 11.7 | 185 | 250 |
| 1123281 | 12 X 1 | 11.7 | 185 | 250 |
| 1123284 | 18 G 1 | 14.1 | 268 | 368 |
| 1123290 | 25 G 1 | 16.2 | 354 | 493 |
| 1123291 | 25 X 1 | 16.2 | 354 | 493 |
| 1123306 | 2 X 1.5 | 7.2 | 65 | 91 |
| 1123307 | 3 G 1.5 | 7.6 | 82 | 112 |
| 1123308 | 3 X 1.5 | 7.6 | 82 | 112 |
| 1123309 | 4 G 1.5 | 8.4 | 100 | 141 |
| 1123310 | 4 X 1.5 | 8.4 | 100 | 141 |
| 1123311 | 5 G 1.5 | 9.1 | 119 | 161 |
| 1123312 | 5 X 1.5 | 9.1 | 119 | 161 |
| 1123314 | 7 G 1.5 | 10 | 154 | 206 |
| 1123315 | 7 X 1.5 | 10 | 154 | 206 |
| 1123320 | 12 G 1.5 | 13.4 | 268 | 355 |
| 1123324 | 18 G 1.5 | 15.8 | 373 | 517 |
| 1123328 | 25 G 1.5 | 18.2 | 530 | 705 |
| 1123339 | 2 X 2.5 | 8.6 | 96 | 128 |
| 1123340 | 3 G 2.5 | 9.1 | 118 | 157 |
| 1123342 | 4 G 2.5 | 10 | 147 | 201 |
| 1123344 | 5 G 2.5 | 11.1 | 176 | 248 |
| 1123346 | 7 G 2.5 | 12 | 253 | 313 |
| 1123349 | 12 G 2.5 | 16.3 | 385 | 524 |
| 1123359 | 3 G 4 | 10.6 | 178 | 231 |
| 1123360 | 4 G 4 | 11.8 | 248 | 291 |
| 1123361 | 5 G 4 | 13.3 | 269 | 361 |
| 1123362 | 7 G 4 | 14.6 | 371 | 468 |
| 1123366 | 3 G 6 | 12.7 | 240 | 318 |
| 1123367 | 4 G 6 | 14.2 | 343 | 437 |
| 1123368 | 5 G 6 | 15.5 | 441 | 510 |
| 1123369 | 7 G 6 | 17 | 510 | 662 |
| 1123372 | 4 G 10 | 17.2 | 495 | 685 |
| 1123373 | 5 G 10 | 19.5 | 592 | 824 |
| | | | | |

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| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| 1123374 | 7 G 10 | 21.4 | 820 | 1067 |
| 1123377 | 4 G 16 | 20.2 | 736 | 1036 |
| 1123378 | 5 G 16 | 22.6 | 895 | 1285 |
| 1123381 | 4 G 25 | 25.1 | 1129 | 1663 |
| 1123382 | 5 G 25 | 28 | 1400 | 1976 |
| 1123385 | 4 G 35 | 28.2 | 1546 | 2052 |

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1235106 0013611 0034312 1123161 53019011 0031324 281607 52005980 0026232 0027371 0029200 19022000 52103445LF 0026123 0036918 38100857 381166911 381166913 59000340 70261139 79485200 19157000 0026172 1026725 53112050LF 79104400 44422019 49002 52103160LF 53112040+79100400