# ÖLFLEX® CLASSIC 110 H

Halogen-free control cable, oil resistant and very flexible

ÖLFLEX® CLASSIC 110 H - halogen-free control cable, HFFR, oil-resistant, very flexible and cold-resistant down to -30 °C for various applications, CPR

## Info

CPR: Article number choice under www.lappkabel.com/cpr
High flexibility and oil-resistance
UL AWM recognized




Suitable for outdoor use

Good chemical resistance

Flame-retardant

Halogen-free

Cold-resistant

Oil-resistant

UV-resistant

## Benefits

Easy handling and installation due to very flexible cable type
Wide application range due to excellent product features

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Note: for the use of AWM (Appliance Wiring Material) cables in industrial machinery (USA) according to NFPA 79: please see the catalogue appendix table T29

## Application range

Public buildings like airports or railway stations
Plant engineering, Industrial machinery
Heating and air-conditioning systems
Stage applications
Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards
Intended for use under the European Construction Product Regulation (CPR), refer to catalogue appendix T14
Suitable for outdoor use, taking into account the temperature range.

## 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)
UL Cable Flame Test
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
Oil-resistant according to EN 50363-4-1 (TM5)
and UL OIL RES I and UL OIL RES II
UV and weather-resistant according to ISO 4892-2
Ozone-resistant according to EN 50396

## Norm references / Approvals

UL AWM style 21089
Based on EN 50525-3-11
Based on EN 50525-2-51

## Product Make-up

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

## Technical Data

| | |
|---|---|
| Classification ETIM 5: | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable |
| Classification ETIM 6: | ETIM 6.0 Class-ID: EC000104<br>ETIM 6.0 Class-Description: Control cable |
| Core identification code: | Black with white numbers acc. to VDE 0293-334 |
| Conductor stranding: | Fine wire according to VDE 0295,<br>class 5/IEC 60228 class 5 |
| Minimum bending radius: | Occasional flexing: 10 x outer diameter<br>Fixed installation: 4 x outer diameter |
| Nominal voltage: | U0/U: 300/500 V<br>UL: 600 V |


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| | |
|---|---|
| Test voltage: | 4000 V |
| Protective conductor: | G = with GN-YE protective conductor<br>X = without protective conductor |
| Temperature range: | Occasional flexing: -30 °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 and graphics 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

| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| ÖLFLEX® CLASSIC 110 H U0/U: 300/500 V | | | | |
| 10019900 | 2 X 0.5 | 5.1 | 9.6 | 41 |
| 10019901 | 3 G 0.5 | 5.4 | 14.4 | 49 |
| 10019902 | 3 X 0.5 | 5.4 | 14.4 | 49 |
| 10019903 | 4 G 0.5 | 5.8 | 19.2 | 58 |
| 10019904 | 4 X 0.5 | 5.8 | 19.2 | 58 |
| 10019905 | 5 G 0.5 | 6.3 | 24 | 69 |
| 10019906 | 7 G 0.5 | 6.9 | 33.6 | 87 |
| 10019907 | 12 G 0.5 | 9.1 | 57.6 | 141 |
| 10019910 | 2 X 0.75 | 5.5 | 14.4 | 51 |
| 10019911 | 3 G 0.75 | 5.8 | 21.6 | 61 |
| 10019912 | 3 X 0.75 | 5.8 | 21.6 | 61 |
| 10019913 | 4 G 0.75 | 6.3 | 28.8 | 73 |
| 10019914 | 4 X 0.75 | 6.3 | 28.8 | 73 |
| 10019915 | 5 G 0.75 | 6.9 | 36 | 87 |
| 10019916 | 5 X 0.75 | 6.9 | 36 | 87 |
| 10019917 | 7 G 0.75 | 7.5 | 50.4 | 111 |
| 10019918 | 7 X 0.75 | 7.5 | 50.4 | 111 |
| 10019919 | 9 G 0.75 | 9.6 | 64.8 | 150 |
| 10019920 | 12 G 0.75 | 10.1 | 86.4 | 186 |
| 10019921 | 18 G 0.75 | 12 | 129.6 | 265 |
| 10019922 | 25 G 0.75 | 14.1 | 180 | 365 |
| 10019960 | 2 X 1.0 | 5.8 | 19.2 | 59 |
| 10019961 | 3 G 1.0 | 6.1 | 28.8 | 72 |
| 10019962 | 3 X 1.0 | 6.1 | 28.8 | 72 |
| 10019963 | 4 G 1.0 | 6.6 | 38.4 | 87 |
| 10019964 | 4 X 1.0 | 6.6 | 38.4 | 87 |
| 10019965 | 5 G 1.0 | 7.3 | 48 | 104 |
| 10019967 | 7 G 1.0 | 8.1 | 67.2 | 138 |
| 10019968 | 8 G 1.0 | 9.7 | 76.8 | 164 |
| 10019969 | 12 G 1.0 | 10.7 | 115.2 | 225 |
| 10019970 | 14 G 1.0 | 11.4 | 134.4 | 261 |
| 10019971 | 18 G 1.0 | 12.9 | 172.8 | 328 |
| 10019972 | 25 G 1.0 | 15 | 240 | 445 |
| | | | | |

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PRODUCT INFORMATION

| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| 10019973 | 41 G 1.0 | 19.2 | 393.6 | 719 |
| 10019930 | 2 X 1.5 | 6.4 | 28.8 | 76 |
| 10019931 | 3 G 1.5 | 6.8 | 43.2 | 94 |
| 10019980 | 3 X 1.5 | 6.8 | 43.2 | 94 |
| 10019932 | 4 G 1.5 | 7.4 | 57.6 | 115 |
| 10019933 | 5 G 1.5 | 8.3 | 72 | 142 |
| 10019934 | 7 G 1.5 | 9 | 100.8 | 184 |
| 10019981 | 8 G 1.5 | 10.8 | 115.2 | 218 |
| 10019982 | 9 G 1.5 | 11.6 | 129.6 | 245 |
| 10019935 | 12 G 1.5 | 12.2 | 172.8 | 308 |
| 10019936 | 14 G 1.5 | 13 | 201.6 | 357 |
| 10019937 | 18 G 1.5 | 14.6 | 259.2 | 449 |
| 10019938 | 25 G 1.5 | 17.2 | 360 | 617 |
| 10019927 | 34 G 1.5 | 19.8 | 489.6 | 821 |
| 10019944 | 2 X 2.5 | 7.6 | 48 | 113 |
| 10019945 | 3 G 2.5 | 8.3 | 72 | 146 |
| 10019946 | 4 G 2.5 | 9 | 96 | 180 |
| 10019947 | 5 G 2.5 | 10.1 | 120 | 221 |
| 10019948 | 7 G 2.5 | 11.2 | 168 | 295 |
| 10019949 | 12 G 2.5 | 15.1 | 288 | 491 |
| 10019950 | 4 G 4.0 | 10.8 | 153.6 | 268 |
| 10019951 | 5 G 4.0 | 12.1 | 192 | 328 |
| 10019952 | 7 G 4.0 | 13.4 | 268.8 | 438 |
| 10019953 | 4 G 6.0 | 13 | 230.4 | 391 |
| 10019954 | 5 G 6.0 | 14.5 | 288 | 478 |
| 10019975 | 7 G 6.0 | 16 | 403.2 | 638 |
| 10019851 | 4 G 10.0 | 16.2 | 384 | 635 |
| 10019852 | 5 G 10.0 | 18.1 | 480 | 775 |
| 10019849 | 4 G 16.0 | 18.8 | 614.4 | 930 |
| 10019853 | 5 G 16.0 | 21.2 | 768 | 1147 |
| 10019854 | 4 G 25.0 | 23.5 | 960 | 1442 |
| 10019855 | 5 G 25.0 | 26.4 | 1200 | 1773 |
| 10019856 | 4 G 35.0 | 26.6 | 1344 | 1917 |

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