

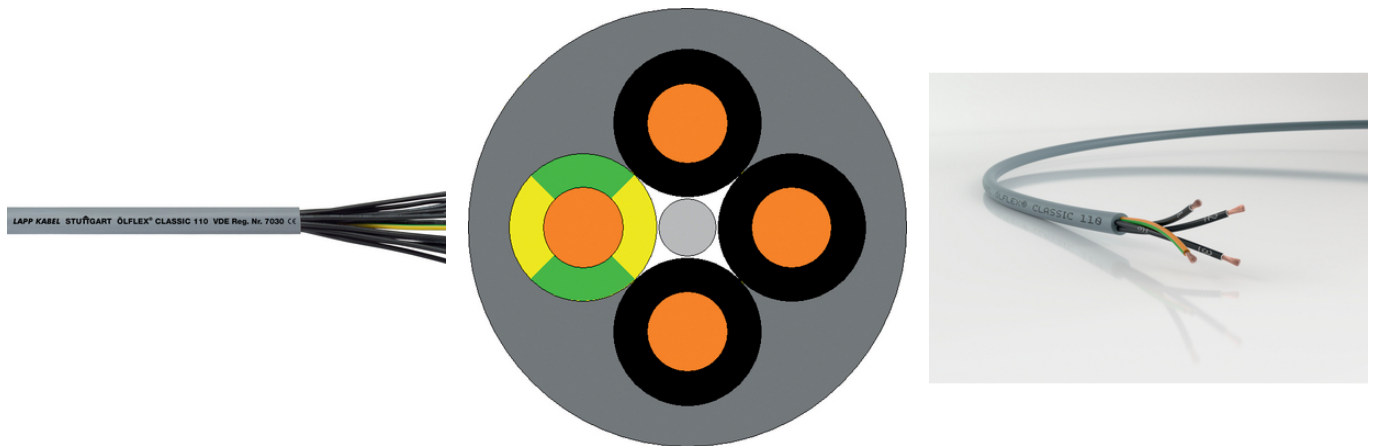
## ÖLFLEX® CLASSIC 110





VDE-registered oil-resistant PVC control cable for a wide range of applications

ÖLFLEX® CLASSIC 110 - PVC control cable, VDE registered, oil resistant and flexible for various applications, 300/500V, also for YSLY or YY

### Info

CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)  
 VDE certificate of conformity with  
 factory surveillance



-  Good chemical resistance
-  Oil-resistant
-  Power chain
-  Torsion-resistant

### Benefits

Wide choice of standardized lengths and individual cuts  
 Very broad range, items with up to 100 conductors

### Application range

For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load

Dry or damp rooms that are subject to medium mechanical loads

Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

In power chains for a travelling distance up to 5 m and 0,2 ... 1 million bending cycles, for following dimensions: 0,5 to 2.5mm<sup>2</sup> and 2 to 7 conductors

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## ÖLFLEX® CLASSIC 110

### Product features

Flame-retardant according IEC 60332-1-2  
Good chemical resistance, see catalogue appendix T1  
Oil-resistant according to DIN EN 50290-2-22 (TM54)

### Norm references / Approvals

VDE reg. no. 7030 for the following sizes:  
up to 2.5 mm<sup>2</sup>: 2 - 65 cores  
from 4 mm<sup>2</sup>: 2 - 7 cores  
from 25 mm<sup>2</sup>: 2 - 5 cores

### Product Make-up

Fine-wire strand made of bare copper wires  
PVC insulation LAPP P8/1  
Cores twisted in layers  
PVC outer sheath, grey (similar 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 DIN EN 60228 (VDE 0295), class 5 / IEC 60228 class 5   |
| Torsion movement in WTG:  | TW-0 & TW-1, refer to Appendix T0   |
| Minimum bending radius:   | Occasional flexing: 10 x outer diameter<br>In power chains: 15 x outer diameter<br>Fixed installation: 4 x outer diameter |
| Nominal voltage:          | U <sub>0</sub> /U: 300/500 V  |
| Test voltage:             | 4000 V  |
| Protective conductor:     | G = with GN-YE protective conductor<br>X = without protective conductor   |
| Temperature range:        | Occasional flexing: -15 °C to +70 °C<br>In power chains: -5 °C to +70 °C<br>Fixed installation: -40 °C to +80 °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.

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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| Article number      | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---------------------|---|---------------------|----------------------|----------------|
| ÖLFLEX® CLASSIC 110 |   |                     |                      |                |
| 1119752             | 2 X 0.5   | 4.8                 | 9.6                  | 35             |
| 1119003             | 3 G 0.5   | 5.1                 | 14.4                 | 42             |
| 1119753             | 3 X 0.5   | 5.1                 | 14.4                 | 42             |
| 1119004             | 4 G 0.5   | 5.7                 | 19.2                 | 54             |
| 1119754             | 4 X 0.5   | 5.7                 | 19.2                 | 54             |
| 1119005             | 5 G 0.5   | 6.2                 | 24                   | 63             |
| 1119755             | 5 X 0.5   | 6.2                 | 24                   | 63             |
| 1119007             | 7 G 0.5   | 6.7                 | 33.6                 | 81             |
| 1119757             | 7 X 0.5   | 6.7                 | 33.6                 | 81             |
| 1119010             | 10 G 0.5  | 8.6                 | 48                   | 116            |
| 1119012             | 12 G 0.5  | 8.9                 | 58                   | 131            |
| 1119014             | 14 G 0.5  | 9.5                 | 67                   | 153            |
| 1119018             | 18 G 0.5  | 10.5                | 86.4                 | 188            |
| 1119021             | 21 G 0.5  | 11.7                | 101                  | 221            |
| 1119025             | 25 G 0.5  | 12.4                | 120                  | 261            |
| 1119030             | 30 G 0.5  | 13.3                | 144                  | 304            |
| 1119035             | 35 G 0.5  | 14.5                | 168                  | 356            |
| 1119040             | 40 G 0.5  | 15.4                | 192                  | 400            |
| 1119052             | 52 G 0.5  | 17.3                | 250                  | 517            |
| 1119061             | 61 G 0.5  | 18.5                | 293                  | 603            |
| 1119065             | 65 G 0.5  | 19.6                | 312                  | 644            |
| 1119080             | 80 G 0.5  | 21.1                | 384                  | 780            |
| 1119100             | 100 G 0.5   | 23.6                | 480                  | 975            |
| 1119802             | 2 X 0.75  | 5.4                 | 14.4                 | 45             |
| 1119103             | 3 G 0.75  | 5.7                 | 21.6                 | 55             |
| 1119803             | 3 X 0.75  | 5.7                 | 21.6                 | 55             |
| 1119104             | 4 G 0.75  | 6.2                 | 28.8                 | 66             |
| 1119804             | 4 X 0.75  | 6.2                 | 28.8                 | 66             |
| 1119105             | 5 G 0.75  | 6.7                 | 36                   | 79             |
| 1119805             | 5 X 0.75  | 6.7                 | 36                   | 79             |
| 1119107             | 7 G 0.75  | 7.3                 | 50                   | 101            |
| 1119807             | 7 X 0.75  | 7.3                 | 50                   | 101            |
| 1119109             | 9 G 0.75  | 9.4                 | 65                   | 137            |

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|----------------|---|---------------------|----------------------|----------------|
| 1119110        | 10 G 0.75   | 9.6                 | 72                   | 150            |
| 1119112        | 12 G 0.75   | 9.9                 | 86                   | 171            |
| 1119812        | 12 X 0.75   | 9.9                 | 86                   | 171            |
| 1119115        | 15 G 0.75   | 10.9                | 108                  | 209            |
| 1119117        | 15 X 0.75   | 10.9                | 108                  | 209            |
| 1119116        | 16 G 0.75   | 11.1                | 115.2                | 220            |
| 1119118        | 18 G 0.75   | 11.7                | 130                  | 244            |
| 1119121        | 21 G 0.75   | 13                  | 151                  | 286            |
| 1119125        | 25 G 0.75   | 13.8                | 180                  | 337            |
| 1119126        | 26 G 0.75   | 14.2                | 187.2                | 350            |
| 1119134        | 34 G 0.75   | 15.9                | 245                  | 448            |
| 1119141        | 41 G 0.75   | 17.4                | 296                  | 538            |
| 1119150        | 50 G 0.75   | 19.2                | 360                  | 648            |
| 1119151        | 51 G 0.75   | 19.2                | 367                  | 646            |
| 1119161        | 61 G 0.75   | 20.5                | 439                  | 779            |
| 1119165        | 65 G 0.75   | 21.8                | 468                  | 832            |
| 1119180        | 80 G 0.75   | 23.6                | 576                  | 1019           |
| 1119200        | 100 G 0.75  | 26.4                | 718                  | 1271           |
| 1119852        | 2 X 1.0   | 5.7                 | 19.2                 | 53             |
| 1119203        | 3 G 1.0   | 6                   | 28.8                 | 65             |
| 1119853        | 3 X 1.0   | 6                   | 28.8                 | 65             |
| 1119204        | 4 G 1.0   | 6.5                 | 38.4                 | 79             |
| 1119854        | 4 X 1.0   | 6.5                 | 38.4                 | 79             |
| 1119205        | 5 G 1.0   | 7.1                 | 48                   | 94             |
| 1119855        | 5 X 1.0   | 7.1                 | 48                   | 94             |
| 1119206        | 6 G 1.0   | 8                   | 58                   | 113            |
| 1119207        | 7 G 1.0   | 8                   | 67                   | 126            |
| 1119857        | 7 X 1.0   | 8                   | 67                   | 126            |
| 1119208        | 8 G 1.0   | 9.5                 | 77                   | 149            |
| 1119209        | 9 G 1.0   | 10                  | 86                   | 164            |
| 1119210        | 10 G 1.0  | 10.2                | 96                   | 180            |
| 1119212        | 12 G 1.0  | 10.5                | 115                  | 205            |
| 1119862        | 12 X 1.0  | 10.5                | 115                  | 205            |
| 1119214        | 14 G 1.0  | 11.2                | 134                  | 238            |

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| Article number | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 1119216        | 16 G 1.0  | 11.8                | 153.6                | 266            |
| 1119218        | 18 G 1.0  | 12.7                | 173                  | 320            |
| 1119868        | 18 X 1.0  | 12.7                | 173                  | 320            |
| 1119220        | 20 G 1.0  | 13.4                | 192                  | 330            |
| 1119870        | 20 X 1.0  | 13.4                | 192                  | 330            |
| 1119225        | 25 G 1.0  | 14.7                | 240                  | 408            |
| 1119226        | 26 G 1.0  | 15.1                | 249                  | 424            |
| 1119234        | 34 G 1.0  | 17.1                | 326                  | 551            |
| 1119236        | 36 G 1.0  | 17.4                | 346                  | 578            |
| 1119241        | 41 G 1.0  | 18.8                | 394                  | 661            |
| 1119250        | 50 G 1.0  | 20.6                | 480                  | 797            |
| 1119256        | 56 G 1.0  | 21.4                | 538                  | 888            |
| 1119261        | 61 G 1.0  | 22.1                | 586                  | 958            |
| 1119265        | 65 G 1.0  | 23.6                | 624                  | 1033           |
| 1119280        | 80 G 1.0  | 25.3                | 768                  | 1251           |
| 1119300        | 100 G 1.0   | 28.3                | 960                  | 1560           |
| 1119902        | 2 X 1.5   | 6.3                 | 29                   | 68             |
| 1119303        | 3 G 1.5   | 6.7                 | 43                   | 84             |
| 1119903        | 3 X 1.5   | 6.7                 | 43                   | 84             |
| 1119304        | 4 G 1.5   | 7.2                 | 58                   | 104            |
| 1119904        | 4 X 1.5   | 7.2                 | 58                   | 104            |
| 1119305        | 5 G 1.5   | 8.1                 | 72                   | 128            |
| 1119905        | 5 X 1.5   | 8.1                 | 72                   | 128            |
| 1119306        | 6 G 1.5   | 8.4                 | 86.4                 | 157            |
| 1119307        | 7 G 1.5   | 8.9                 | 101                  | 166            |
| 1119907        | 7 X 1.5   | 8.9                 | 101                  | 166            |
| 1119308        | 8 G 1.5   | 10.6                | 115                  | 210            |
| 1119313        | 8 X 1.5   | 10.6                | 116                  | 210            |
| 1119309        | 9 G 1.5   | 11.4                | 130                  | 221            |
| 1119310        | 10 G 1.5  | 11.6                | 143                  | 243            |
| 1119311        | 11 G 1.5  | 11.6                | 158                  | 258            |
| 1119312        | 12 G 1.5  | 12                  | 173                  | 279            |
| 1119912        | 12 X 1.5  | 12                  | 173                  | 279            |
| 1119314        | 14 G 1.5  | 12.7                | 202                  | 323            |

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|----------------|---|---------------------|----------------------|----------------|
| 1119316        | 16 G 1.5  | 13.4                | 230.4                | 361            |
| 1119318        | 18 G 1.5  | 14.4                | 259                  | 407            |
| 1119321        | 21 G 1.5  | 15.7                | 302                  | 469            |
| 1119325        | 25 G 1.5  | 16.9                | 360                  | 560            |
| 1119326        | 26 G 1.5  | 17.3                | 374.4                | 582            |
| 1119332        | 32 G 1.5  | 18.7                | 461                  | 704            |
| 1119334        | 34 G 1.5  | 19.4                | 490                  | 746            |
| 1119341        | 41 G 1.5  | 21.3                | 591                  | 895            |
| 1119350        | 50 G 1.5  | 23.5                | 720                  | 1089           |
| 1119361        | 61 G 1.5  | 25.2                | 878                  | 1309           |
| 1119365        | 65 G 1.5  | 26.7                | 936                  | 1398           |
| 1119952        | 2 X 2.5   | 7.5                 | 48                   | 101            |
| 1119403        | 3 G 2.5   | 8.1                 | 72                   | 132            |
| 1119404        | 4 G 2.5   | 8.9                 | 96                   | 163            |
| 1119405        | 5 G 2.5   | 10                  | 120                  | 200            |
| 1119407        | 7 G 2.5   | 11.1                | 168                  | 267            |
| 1119412        | 12 G 2.5  | 14.8                | 288                  | 445            |
| 1119414        | 14 G 2.5  | 15.8                | 336                  | 515            |
| 1119418        | 18 G 2.5  | 17.8                | 432                  | 648            |
| 1119425        | 25 G 2.5  | 20.8                | 600                  | 890            |
| 1119434        | 34 G 2.5  | 24.4                | 816                  | 1208           |
| 1119450        | 50 G 2.5  | 29.4                | 1200                 | 1754           |
| 1119503        | 3 G 4.0   | 9.9                 | 115                  | 201            |
| 1119504        | 4 G 4.0   | 10.8                | 154                  | 249            |
| 1119505        | 5 G 4.0   | 12.1                | 192                  | 294            |
| 1119507        | 7 G 4.0   | 13.4                | 269                  | 407            |
| 1119511        | 11 G 4.0  | 17.6                | 422                  | 634            |
| 1119512        | 12 G 4.0  | 18.1                | 461                  | 660            |
| 1119603        | 3 G 6.0   | 11.7                | 172.8                | 289            |
| 1119604        | 4 G 6.0   | 13                  | 230                  | 365            |
| 1119605        | 5 G 6.0   | 14.5                | 288                  | 447            |
| 1119607        | 7 G 6.0   | 16                  | 403                  | 600            |
| 1119613        | 3 G 10.0  | 14.6                | 288                  | 466            |
| 1119614        | 4 G 10.0  | 16.2                | 384                  | 590            |

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|----------------|---|---------------------|----------------------|----------------|
| 1119615        | 5 G 10.0  | 18.1                | 480                  | 722            |
| 1119617        | 7 G 10.0  | 20                  | 672                  | 968            |
| 1119624        | 4 G 16.0  | 18.8                | 614                  | 1087           |
| 1119625        | 5 G 16.0  | 21.2                | 768                  | 1370           |
| 1119627        | 7 G 16.0  | 23.4                | 1075                 | 1779           |
| 1119634        | 4 G 25.0  | 23.5                | 960                  | 1582           |
| 1119635        | 5 G 25.0  | 26.4                | 1200                 | 1998           |
| 1119636        | 7 G 25.0  | 29.1                | 1680                 | 2825           |
| 1119644        | 4 G 35.0  | 26.4                | 1344                 | 2106           |
| 1119645        | 5 G 35.0  | 29.6                | 1680                 | 2635           |

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