

## ÖLFLEX® 150 CY

Screened and oil-resistant multi-standard cable with H05VVC4V5-K and AWM approval

ÖLFLEX® 150 CY - H05VVC4V5-K harmonised PVC control cable with UL/CSA AWM, oil-resistant, screened and flexible for various applications, U<sub>0</sub>/U: 300/500 V

### Info

Oil-resistant according to EN 50363-4-1: TM5

Harmonised (HAR): H05VVC4V5-K and UL recognized

EMC-compliant



Good chemical resistance



Oil-resistant



Interference signals

### Benefits

Wide application range due to multiple certifications

### Application range

Plant engineering

Industrial machinery

Heating and air-conditioning systems

In EMC-sensitive environments

(electromagnetic compatibility)

Mainly used in dry, damp and wet interiors (including water-oil mixtures), but not for outdoor use

For fixed installation under medium mechanical load conditions, and applications with occasional flexing at free, non-continuously recurring movement without tensile load or compulsory guidance

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

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

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### Product features

Flame-retardant according to IEC 60332-1-2  
and UL 1581 §1061 Cable Flame Test  
Oil-resistant according to EN 50363-4-1: TM5  
High degree of screening  
low transfer impedance  
(max. 250  $\Omega$ /km at 30 MHz)

### Norm references / Approvals

H05VVC4V5-K (EN 50525-2-51)

UL AWM Style 21098

CSA AWM I A/B II A/B

Multi-standard cables have conductor strands with nominal sizes in mm<sup>2</sup> or AWG/kcmil. The master size is mentioned in the table below, while the equivalent size of the other system can be found in the Appendix T16 of this catalogue. For this related secondary size the cross-section of the conductor mostly works out to be greater than the specified nominal value.

### Product Make-up

Fine-wire strand made of bare copper wires  
PVC core insulation  
Cores twisted in layers  
PVC inner sheath, grey  
Tinned-copper braiding  
PVC outer sheath, high oil-resistance, 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: 20 x outer diameter<br>Fixed installation: 6 x outer diameter                                               |
| Nominal voltage:          | HAR U0/U: 300/500 V<br>UL/CSA: 600 V                                                                                            |
| Test voltage:             | 3000 V                                                                                                                          |
| Protective conductor:     | G = with GN-YE protective conductor<br>X = without protective conductor                                                         |
| Temperature range:        | Occasional flexing:<br>HAR: -5 °C to +70 °C<br>UL/CSA: +90 °C<br>Fixed installation:<br>HAR: -40 °C to +70 °C<br>UL/CSA: +90 °C |

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon

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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  $\leq 30$  kg or  $\leq 250$  m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 600 m drum or 8 x 75 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® 150 CY |                                                   |                     |                      |                |
| 0015602        | 2 X 0.75                                          | 8.5                 | 40                   | 109            |
| 0015603        | 3 G 0.75                                          | 8.9                 | 51                   | 125            |
| 0015604        | 4 G 0.75                                          | 9.6                 | 70                   | 157            |
| 0015605        | 5 G 0.75                                          | 10.3                | 77                   | 180            |
| 0015607        | 7 G 0.75                                          | 12.3                | 93                   | 226            |
| 0015612        | 12 G 0.75                                         | 14.8                | 155                  | 325            |
| 0015702        | 2 X 1.0                                           | 8.8                 | 46.4                 | 121            |
| 0015703        | 3 G 1.0                                           | 9.4                 | 76                   | 145            |
| 0015704        | 4 G 1.0                                           | 10                  | 80                   | 180            |
| 0015705        | 5 G 1.0                                           | 11                  | 95                   | 203            |
| 0015707        | 7 G 1.0                                           | 13                  | 118                  | 273            |
| 0015712        | 12 G 1.0                                          | 15.6                | 195                  | 425            |
| 0015802        | 2 X 1.5                                           | 10                  | 59.2                 | 151            |
| 0015803        | 3 G 1.5                                           | 10.5                | 84                   | 159            |
| 0015804        | 4 G 1.5                                           | 11.4                | 94.8                 | 211            |
| 0015805        | 5 G 1.5                                           | 12.7                | 122                  | 241            |
| 0015807        | 7 G 1.5                                           | 15.1                | 143                  | 306            |
| 0015812        | 12 G 1.5                                          | 17.8                | 254                  | 480            |
| 0015903        | 3 G 2.5                                           | 11.9                | 120                  | 245            |
| 0015904        | 4 G 2.5                                           | 13.2                | 170                  | 295            |
| 0015905        | 5 G 2.5                                           | 14.7                | 205                  | 365            |
| 0015907        | 7 G 2.5                                           | 17.5                | 241                  | 480            |