

Various applications

PVC sheath, approved



# ÖLFLEX® 150

Oil resistant multi-standard cable with H05VV5-F and AWM approval



**Benefits**

- Wide application range due to multiple approvals

**Application range**

- Plant engineering  
Industrial machinery  
Heating and air-conditioning systems
- Machine tools
- 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 Ed. 2012: please see the catalogue appendix table T29

**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

**Norm references / Approvals**

- H05VV5-F (EN 50525-2-51)
- UL AWM Style 21098 or 2587  
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
- PVC outer sheath, high oil-resistance, grey (RAL 7001)

**Info**

- Oil-resistant according to EN 50363-4-1: TM5
- Harmonised (HAR): H05VV5-F and UL recognized

**Technical data**

**Classification**  
ETIM 5.0 Class-ID: EC000104  
ETIM 5.0 Class-Description: Control cable

**Core identification code**  
Black with white numbers acc. to VDE 0293-1

**Specific insulation resistance**  
> 20 GOhm x cm

**Conductor stranding**  
Fine wire according to VDE 0295, class 5/IEC 60228 class 5

**Minimum bending radius**  
Occasional flexing: 12.5 x outer diameter  
Fixed installation: 4 x outer diameter

**Nominal voltage**  
HAR U<sub>0</sub>/U: 300/500 V  
UL/CSA: 600 V

**Test voltage**  
3000 V

**Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor

**Temperature range**  
Occasional flexing:  
HAR: -5°C to +70°C  
UL/CSA: -5°C to +90°C  
Fixed installation:  
HAR: -40°C to +70°C  
UL/CSA: -40°C to +90°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® 150</b>				
0015002	2 X 0.5	5.9	9.6	47
0015003	3 G 0.5	6.2	14.4	62.4
0015004	4 G 0.5	6.8	19.2	68.2
0015005	5 G 0.5	7.4	24.0	87.1
0015007	7 G 0.5	9.0	33.6	118.7
0015012	12 G 0.5	11.1	58.0	198
0015018	18 G 0.5	13.2	86.4	328
0015025	25 G 0.5	16.0	120.0	380.4
0015034	34 G 0.5	18.1	164.0	509
0015041	41 G 0.5	19.7	197.0	595
0015102	2 X 0.75	6.3	14.4	61
0015103	3 G 0.75	6.7	21.6	75.6
0015104	4 G 0.75	7.2	28.8	83.9
0015105	5 G 0.75	8.1	36.0	113.3
0015107	7 G 0.75	9.9	50.0	145
0015112	12 G 0.75	12.0	86.0	244.9
0015118	18 G 0.75	14.4	130.0	327.7
0015125	25 G 0.75	17.1	180.0	466.4
0015134	34 G 0.75	19.7	245.0	626.5
0015141	41 G 0.75	21.6	296.0	748
0015202	2 X 1.0	6.6	19.2	80
0015203	3 G 1.0	7.0	28.8	79
0015204	4 G 1.0	7.8	38.4	98.6
0015205	5 G 1.0	8.6	48.0	132.1
0015206	6 G 1.0	9.5	57.6	150

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0015207	7 G 1.0	10.4	67.0	169.3
0015212	12 G 1.0	12.8	115.0	285.9
0015218	18 G 1.0	15.1	173.0	405.2
0015225	25 G 1.0	18.0	240.0	569.5
0015234	34 G 1.0	20.9	326.0	741.7
0015241	41 G 1.0	22.8	394.0	886
0015250	50 G 1.0	25.0	480.0	1072.2
0015302	2 X 1.5	7.6	28.8	95
0015303	3 G 1.5	8.3	43.0	109.8
0015304	4 G 1.5	9.0	58.0	145
0015305	5 G 1.5	10.1	72.0	168
0015307	7 G 1.5	12.5	101.0	224.2
0015312	12 G 1.5	15.1	173.0	361.7
0015318	18 G 1.5	18.0	259.0	518.3
0015325	25 G 1.5	21.4	360.0	729.9
0015334	34 G 1.5	25.0	490.0	946.6
0015341	41 G 1.5	27.2	591.0	1136
0015402	2 X 2.5	9.2	48.0	159
0015403	3 G 2.5	9.9	72.0	170
0015404	4 G 2.5	10.8	96.0	210
0015405	5 G 2.5	12.1	120.0	257
0015407	7 G 2.5	14.7	168.0	340
0015412	12 G 2.5	17.9	288.0	580
0015418	18 G 2.5	21.6	432.0	850
0015425	25 G 2.5	25.6	600.0	1166

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100kg. 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 ≤ 30 kg or ≤ 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 are not to scale and do not represent detailed images of the respective products.

**Similar products**

- H05VV-F
- ÖLFLEX® 140\* refer to page 44
- ÖLFLEX® 191 refer to page 48

**Accessories**

- SKINTOP® CLICK refer to page 657
- SKINTOP® ST-M refer to page 654

ÖLFLEX®  
UNITRONIC®  
ETHERLINE®  
HITRONIC®  
EPIC®  
SKINTOP®  
SILVYN®  
FLEXIMARK®  
ACCESSORIES  
APPENDIX