


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® 150</b>	29.11.2013

Oil resistant multi-standard cable with H05VV5-F and AWM approval  
Wide application range due to multiple approvals



Good chemical resistance



Oil-resistant

### Info

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

### 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

### Design

Fine-wire strand made of bare copper wires  
PVC core insulation  
PVC outer sheath, high oil-resistance, grey (RAL 7001)

### 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 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

### Remark

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.

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### Technical Data

Core identification code:	Black with white numbers acc. to VDE 0293-1
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
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

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## ÖLFLEX® 150

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Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® 150				
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
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

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Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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