

## Product Description

Broad application range due to multiple approvals



## Application range

- Plant engineering and construction Industrial machinery Air conditioning installations
- machine tools
- Mainly in dry, damp and wet interiors (including water-oil mixtures), but not for outdoor use
- For fixed installation under medium mechanical load conditions as well as occasional flexing at free, non-continuously recurring movement without tensile load or compulsory guidance
- Note: Single conductor or multi-conductor Type AWM (Appliance Wiring Material) shall be permitted for industrial machinery (US) when part of a listed assembly suitable for the intended use only. NFPA 79 Edition 2007 §12.2.7.3 (Electrical Standard for Industrial Machinery)

## Benefits

- Broad application range due to multiple approvals

## Design

- Fine strands of bare copper wires
- PVC core insulation
- PVC outer sheath, increased oil resistance grey (RAL 7001)

## Approvals (Norm references)

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

## Product features

- Flame retardant according to IEC 60332-1-2 and UL 1581 §1061 Cable Flame Test



- Increased oil resistance

### Technical Data

**Core identification code**

Black with white numbers acc. to VDE 0293

**Approvals**

H05VV5-F (HD 21.13 S1)

UL AWM Style 21098 or 2587 CSA AWM I A/B II  
A/B

**Specific insulation resistance**

> 20 GOhm x cm

**Conductor stranding**

Fine wire in accordance to VDE 0295 Class 5 / IEC  
60228 Class 5

**Minimum bending radius**

Occasional flexing: 12.5 x cable diameter  
Fixed installation: 4 x cable diameter

**Rated voltage**

HAR U0/U: 300/500 V

UL/CSA: 600 V

**Test voltage**

3000 V

**Protective conductor**

G = with protective conductor GN/YE

X = without protective conductor

**Range of temperature**

Occasional flexing: HAR: -5°C up to +70°C UL/CSA: -5°C  
up to +90 °C

Fixed installation: HAR: -40°C up to +70°C UL/CSA: -40°C  
up to +90°C

### Article List

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
ÖLFLEX® 150 QUATTRO				
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	14,2	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	9,7	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
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	7,5	28.8	95
0015303	3 G 1,5	8,1	43.0	109.8
0015304	4 G 1,5	8,9	58.0	145
0015305	5 G 1,5	10.0	72.0	168
0015307	7 G 1,5	12,3	101.0	224.2
0015312	12 G 1,5	15,1	173.0	361.7
0015318	18 G 1,5	17,8	259.0	518.3
0015325	25 G 1,5	21,5	360.0	729.9
0015334	34 G 1,5	24,7	490.0	946.6
0015341	41 G 1,5	26,8	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	10,7	96.0	210
0015405	5 G 2,5	12,1	120.0	257
0015407	7 G 2,5	14,5	168.0	340
0015412	12 G 2,5	17,7	288.0	580
0015418	18 G 2,5	21,4	432.0	850
0015425	25 G 2,5	25,8	600.0	1166

**Footnote:**

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix



T17

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 and  $\leq$  250 m, otherwise drum

Please specify the desired make-up (e.g. 1 x 600 m drum or 8 x 75 m coils)

VDE certification covers the size range up to and including 60 cores

Photographs are not to scale and do not represent detailed images of the respective products.

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