

### Product Description

High electrical performance due to 4kV test voltage; For multi-purpose applications



### Application range

- Plant engineering and construction Industrial machinery Air conditioning installations
- In EMI critical environment (electromagnetic interference)
- 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

- High electrical performance due to 4kV test voltage
- For multi-purpose applications

### Design

- Fine strands of bare copper wires
- PVC core insulation
- PVC inner sheath, grey
- tinned copper braid
- 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
- High coverage degree of the screen low transfer impedance (max. 250 Ohm/km at 30 MHz)

Technical Data

Core identification code

Black with white numbers acc. to VDE 0293

Approvals

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: 20 x cable diameter  
Fixed installed: 6 x outer diameter

Rated voltage

HAR U0/U: 300/500 V

UL/CSA: 600 V

Test voltage

4000 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® 191 CY				
3023436	3 G 0,5	8.0	46.9	122
3025753	4 G 0,5	8,5	47.4	130
0011230	2 X 0,75	8,1	38.4	102
0011231	3 G 0,75	8,5	47.2	115
0011232	4 G 0,75	9.0	55.8	131
0011233	5 G 0,75	9,9	66.4	155
0011234	7 G 0,75	10,5	85.9	187
0011235	12 G 0,75	14.0	145.0	312
0011236	18 G 0,75	16,1	198.3	413



0011237	25 G 0,75	18,9	261.5	548
0011202	2 X 1,0	8.0	48.0	126
0011180	3 G 1,0	8,8	55.8	122
0011181	4 G 1,0	9,6	80.8	157
0011182	5 G 1,0	10,1	89.4	183
0011183	7 G 1,0	10,7	99.9	207
0011184	12 G 1,0	14,6	175.7	342
0011185	18 G 1,0	16,5	241.7	472
0011186	25 G 1,0	19,2	341.7	648
0011302	2 X 1,5	8,9	64.7	156
0011187	3 G 1,5	9,3	89.1	166
0011188	4 G 1,5	10,1	96.6	191
0011189	5 G 1,5	11.0	111.2	222
0011190	7 G 1,5	12,1	145.2	270
0011191	12 G 1,5	16.0	257.0	464
0011192	18 G 1,5	18,8	382.8	679
0011193	25 G 1,5	22,9	546.2	952
0011194	3 G 2,5	10,9	111.1	221
0011195	4 G 2,5	11,4	140.6	269
0011196	5 G 2,5	12,9	167.3	325
0011197	7 G 2,5	14,1	240.0	421
30010542	12 G 2,5	17,9	414.9	769
30010543	18 G 2,5	22.0	626.1	1102
30010544	4 G 4	13,6	236.7	462
30010545	5 G 4	14,9	277.8	535
30010546	7 G 4	16,2	393.4	735
30010548	4 G 6	15,8	317.1	574
3023130	5 G 6	17,3	413.7	737
30010547	7 G 6	18,8	563.8	950
3023131	4 G 10	19,5	550.4	946
30010639	4 G 16	24,7	819.1	1189
3023132	4 G 25	28,5	1165.0	1691.67
30010928	4 G 35	31,7	1683.0	2700
3026535	4 G 50	39,7	2342.0	3362
3025946	4 G 70	44,8	3229.0	4490
3025947	4 G 95	50.0	4010.0	5540
3026536	4 G 120	61,3	5012.0	6960

**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)

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