

Various applications

PVC sheath, approved



# ÖLFLEX® 191

Oil-resistant multi-standard cable with AWM approval

LAPP KABEL STUÏTGART ÖLFLEX® 191



Info

- Conductor cross-section up to 120 mm<sup>2</sup>
- Oil-resistant according to EN 50363-4-1: TM5
- Missing dimensions: See ÖLFLEX® 150

**Benefits**

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

**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**

- 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)

**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: 15 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**  
4000 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)
0011222	7 G 0.75	8.3	50.4	116
0011223	9 G 0.75	10.5	64.8	152
0011224	12 G 0.75	11.2	86.4	194
0011113	3 G 1.0	6.7	28.8	66
0011114	4 G 1.0	7.2	38.4	81
0011115	5 G 1.0	8.1	48.0	95
0011116	7 G 1.0	8.9	67.2	125
0011117	12 G 1.0	12.0	115.2	211
0011118	18 G 1.0	14.4	172.8	309
0011119	25 G 1.0	17.3	240.0	413
0011136	2 X 1.5	6.9	28.8	74
0011137	3 G 1.5	7.3	44.0	91
0011138	4 G 1.5	8.2	58.0	112
0011139	5 G 1.5	9.0	72.0	136
0011140	7 G 1.5	10.0	101.0	179
0011125	9 G 1.5	12.6	129.6	230
0011142	12 G 1.5	13.4	173.0	313
0011143	18 G 1.5	16.1	260.0	444
0011144	25 G 1.5	19.5	360.0	620
0011150	3 G 2.5	8.4	72.0	138
0011151	4 G 2.5	9.1	96.0	182

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0011152	5 G 2.5	10.2	120.0	216
0011153	7 G 2.5	11.3	168.0	286
0011160	3 G 4	9.9	115.2	202
0011161	4 G 4	10.8	154.0	245
0011162	5 G 4	12.1	192.0	310
0011167	7 G 4	13.4	268.8	470
0011165	4 G 6	13.0	231.0	398
0011166	5 G 6	14.5	288.0	479
0011169	4 G 10	16.5	384.0	559
0011170	5 G 10	18.4	480.0	782
0011172	4 G 16	22.1	615.0	904
0011173	5 G 16	24.3	768.0	1171
0011175	4 G 25	25.2	960.0	1299
0011176	5 G 25	28.0	1,200.0	1640
0011178	4 G 35	28.1	1,344.0	2119
0011179	5 G 35	31.5	1,680.0	2606
0011205	4 G 50	35.7	1,920.0	2898
0011206	4 G 70	43.0	2,688.0	4052
0011207	4 G 95	47.2	3,648.0	5430
0011208	4 G 120	54.2	4,608.0	6290

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**

- ÖLFLEX® 150 refer to page 46
- ÖLFLEX® CONTROL TM refer to page 50
- ÖLFLEX® TRAY II refer to page 52

**Accessories**

- SKINTOP® CLICK refer to page 657
- SKINTOP® ST-M refer to page 654
- KT cable shears refer to page 908