High electrical performance due to 4 kV test voltage
Multifunctional application possibilities

Info
Conductor cross-section up to 120 mm²
Oil-resistant according to HD21.1: TM5
EMC-compliant

Application range
Plant engineering Industrial machinery Heating and air-conditioning systems
In EMC-sensitive environments (electromagnetic compatibility)
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 inner sheath, grey
Tinned-copper braiding
PVC outer sheath, high oil-resistance, grey (RAL 7001)

Approvals (Norm references)
Multi-standard cables have conductor strands with nominal sizes in mm² 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 HD21.1: TM5
High degree of screening low transfer impedance (max. 250 Ω/km at 30 MHz)

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 Appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: 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.

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 according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius:	Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter
Nominal voltage:	HAR U_0/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

Part number	Number of cores and mm² per conductor	Outer diameter (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

Part number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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