ÖLFLEX® 191

Oil-resistant multi-standard cable with AWM approval
High electrical performance due to 4 kV test voltage
For various applications

Good chemical resistance

Oil-resistant

Info

Conductor cross-section up to 120 mm²
Further items with 0,5 and 0,75 mm²: see ÖLFLEX® 150
Oil-resistant according to EN 50363-4-1: TM5

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. 2015: please see the catalogue appendix table T29

Product Make-up

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

Norm references / Approvals

UL AWM Style 21098
CSA AWM I A/B II A/B
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 EN 50363-4-1: TM5

ÖLFLEX® 191

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
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_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: -5 °C to +70 °C UL/CSA: -5 °C to +90 °C Fixed installation: -40 °C to +70 °C UL/CSA: -40 °C to +90 °C

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

ÖLFLEX® 191

Part number	Number of cores and mm² 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
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

ÖLFLEX® 191

Part number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0011176	5 G 25	28.0	1200.0	1640
0011178	4 G 35	28,1	1344.0	2119
0011179	5 G 35	31,5	1680.0	2606
0011205	4 G 50	35,7	1920.0	2898
0011206	4 G 70	43.0	2688.0	4052
0011207	4 G 95	47,2	3648.0	5430
0011208	4 G 120	51.0	4608.0	6290