ÖLFLEX® CLASSIC 110 H SF

Halogen-free control cable, EN 45545-2 certified, oil resistant and very flexible

ÖLFLEX® CLASSIC 110 H - halogen-free control cable, HFFR, oil-resistant, very flexible and cold-resistant down to -30°C for various applications, EN 45545-2 certified for railway/rolling stock application

Info
EN 45545-2 HL1, HL2, HL3
High flexibility and oil-resistance
Other sizes on request

CE

UV-resistant

Temperature-resistant

Oil-resistant

Halogen-free

Good chemical resistance

Rail

Flame-retardant

Cold-resistant

Benefits

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Easy handling and installation due to very flexible cable type
Wide application range due to excellent product features
EN 45545-2 certified for rolling stock applications

Application range

Railway applications
Public buildings like airports or railway stations
Plant engineering, Industrial machinery
Heating and air-conditioning systems
Stage applications
Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards

Product features

Flame-retardant according to IEC 60332-1-2
(flame spread on a single cable)
No flame-propagation according to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)
Halogen-free according to IEC 60754-1
(amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
Low smoke density according to IEC 61034-2
Oil-resistant according to EN 50363-4-1 (TM5)
and UL OIL RES I and UL OIL RES II
UV and weather-resistant according to ISO 4892-2
Ozone-resistant according to EN 50396

Norm references / Approvals

EN 45545-2 HL1, HL2, HL3
Based on EN 50525-3-11
Based on EN 50525-2-51

Product Make-up

Extra-fine wire strand made of bare copper wires
Core insulation: Halogen-free
Cores twisted in layers
Outer sheath: Special halogen-free compound, black

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000104
	ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104
	ETIM 6.0 Class-Description: Control cable
Core identification code:	Black with white numbers acc. to VDE 0293-1
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	Occasional flexing: 10 x outer diameter
	Fixed installation: 4 x outer diameter
Nominal voltage:	U0/U: 300/500 V
Test voltage:	4000 V
Protective conductor:	G = with GN-YE protective conductor

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X = without protective conductor

Temperature range: Occasional flexing: -30°C to +70°C
                                                Fixed installation: -40°C to +80°C

Note

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

Copper price basis: EUR 150/100 kg. 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

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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

Prices are net prices without VAT and surcharges. Sale to business customers only.

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1002140	5 G 0.5	6.3	24	83
1002141	3 G 1.0	6.1	28.8	75
1002142	5 G 1.0	7.3	48	123
1002143	7 G 1.0	8.1	67.2	159
1002144	13 G 1.0	11.4	124.8	295
1002145	25 G 1.0	15.0	240	515
1002146	43 G 1.0	19.8	412.8	899
1002147	73 G 1.0	25.3	700.8	1402
1002148	3 G 1.5	6.8	43.2	96
1002149	5 G 1.5	8.3	72	163
1002150	7 G 1.5	9.0	100.8	208
1002151	13 G 1.5	13.0	187.2	394
1002152	25 G 1.5	17.2	360	704
1002153	43 G 1.5	22.6	619.2	1198
1002154	61 G 1.5	25.6	878.4	1637
1002155	3 G 2.5	8.3	72	147
1002156	5 G 2.5	10.1	120	255
1002157	7 G 2.5	11.2	168	333
1002158	3 G 6.0	11.7	172.8	321
1002159	5 G 6.0	14.5	288	541
1002160	7 G 6.0	16.0	403.2	712
1002161	5 G 10.0	18.4	480	915
1002162	5 G 16.0	22.3	768	1344
1002163	5 G 35.0	31.1	1680	2778