

## 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



Rail



Good chemical resistance



Flame-retardant



Halogen-free



Cold-resistant



Oil-resistant



Temperature-resistant



UV-resistant

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

# ÖLFLEX® CLASSIC 110 H SF

## Benefits

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 0293-334
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:	U <sub>0</sub> /U: 300/500 V
Test voltage:	4000 V
Protective conductor:	G = with GN-YE protective conductor

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## ÖLFLEX® CLASSIC 110 H SF

Temperature range:

X = without protective conductor

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](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq$  30 kg or  $\leq$  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.

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Article number	Number of cores and mm <sup>2</sup> 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

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