

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

Benefits

Last Update (04.10.2025)
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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16



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

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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

X = without protective conductor

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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
1002145	25 G 1.0	15.0	240	515
1002147	73 G 1.0	25.3	700.8	1402
1002152	25 G 1.5	17.2	360	704
1002159	5 G 6.0	14.5	288	541
1002160	7 G 6.0	16.0	403.2	712