

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

Benefits

Last Update (05.05.2021)

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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

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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 0293-334 |
| 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: | U0/U: 300/500 V |
| Test voltage: | 4000 V |
| Protective conductor: | G = with GN-YE protective conductor |

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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

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 ² 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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