# ÖLFLEX® TRAIN 371 1,8kV

Single core cable according to EN 50264-3-1 type MM for high requirements in railway applications

ÖLFLEX® TRAIN 371 1.8kV - single core cable according to EN 50264-3-1 type MM, for rail vehicles/trains, 1.8/3kV, EN 45545: HL1-HL3, NF F 16-101: C/F1

**Info**
Meets EN 50264-3-1 type MM and
EN 45545-2
High temperature resistance: -45 °C to 90 °C
Highly oil- and fuel-resistant


- UV-resistant
- Temperature-resistant
- Oil-resistant
- Mechanical resistance
- Halogen-free
- Good chemical resistance
- Rail
- Flame-retardant
- Cold-resistant

Last Update (17.05.2017)

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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## Benefits
High dielectric strength and mechanical durability due to dual-layer cable construction
Good chemical resistance
Resistant to mechanical influences in harsh environmental conditions
Extended temperature range
Reduced flame spreading for protection against damage to persons and property in the event of a fire

## Application range
For use in railway vehicles and buses, for fixed installation and applications where limited movement is to be expected
Suitable for wiring of control cabinets, distributors, converters, motors and batteries
Can also be used in oily environments and areas with increased ambient temperature

## Product features
Fire behaviour in accordance with EN/IEC:
- Halogen-free according to EN 60754-1
- No corrosive gases according to EN 60754-2
- No fluorine according to EN 60684-2
- No toxic gases according to EN 50305
- Low smoke density according to EN 61034-2
- Flame-retardant according to EN 60332-1-2
- No flame propagation according to EN 60332-3-24 / EN 60332-3-25 / EN 50305

Fire behaviour in accordance with NF:
- Toxicity of combustion gases according to NF X 70-100
- Low smoke density according to NF X 10-702
- No flame propagation according to NF C 32-070, cat. C1 and C2

Chemical properties:
- Oil-resistant according to EN 50264-3-1
- Fuel-resistant according to EN 50264-3-1
- Acid-resistant according to EN 50264-3-1
- Alkali-resistant according to EN 50264-3-1
- Ozone-resistant according to EN 50264-3-1/
EN 50305)

## Norm references / approvals
EN 50264-3-1 type MM
EN 45545-2 HL1, HL2, HL3
NF F 16-101 - classification: C / F1
(flame propagation / smoke)

## Design
Tin-plated copper strand, fine-wire
Insulation: Electron beam cross-linked polymer compound EI 109
Sheath: Electron beam cross-linked polymer-compound EM 104
Sheath colour: Black

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## Technical Data

| | |
|---|---|
| Classification: | ETIM 5.0 Class-ID: EC000057<br>ETIM 5.0 Class-Description: Power cable |
| Conductor design: | Fine-wired according to IEC 60228 / VDE 0295, braided conductor class 5 |
| Minimum bending radius: | Fixed installation:<br>≤ 12 mm: 3 x OD<br>> 12 mm: 4 x OD<br>Occasional flexing:<br>≤ 12 mm: 4 x OD<br>> 12 mm ≤ 20 mm: 5 x OD<br>> 20 mm: 6 x OD<br>(OD = outer diameter) |
| Nominal voltage: | $U_0$/U AC 1.8/3 kV<br>$U_m$ AC 3,6 kV<br>$V_0$ DC 2,7 kV |
| Test voltage: | 6,5 kV AC; 15 kV DC |
| Temperature range: | Fixed installation: -45°C to +90°C<br>Occasional flexing:<br>-35°C to +90°C<br>Short circuit: +200°C (5s) |

## Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they available and have been released for publication.
Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"
Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred packaging (e.g. 1 x 500 m drum or 5 x 100 m rings)
Photographs 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 | Conductor cross-section (mm²) | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| 15371000 | 1.5 | 5.8 | 14.4 | 56.3 |
| 15371001 | 2.5 | 6.2 | 24 | 66.7 |
| 15371002 | 4 | 6.9 | 38.4 | 89.7 |
| 15371003 | 6 | 7.4 | 57.6 | 115.6 |
| 15371004 | 10 | 8.8 | 96 | 173.3 |
| 15371005 | 16 | 9.8 | 153.6 | 243.6 |
| 15371006 | 25 | 12.1 | 240 | 374.3 |
| 15371007 | 35 | 13.3 | 336 | 487.7 |
| 15371008 | 50 | 15.3 | 480 | 659.4 |
| 15371009 | 70 | 17 | 672 | 875.3 |
| 15371010 | 95 | 19.8 | 912 | 1,180.3 |
| 15371011 | 120 | 21.4 | 1152 | 1,440.6 |
| 15371012 | 150 | 23.8 | 1440 | 1,787.7 |
| 15371013 | 185 | 25.7 | 1776 | 2,166.2 |
| 15371014 | 240 | 29.2 | 2304 | 2,774.8 |
| 15371015 | 300 | 30.4 | 2880 | 3,366.8 |

Last Update (17.05.2017)

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