ÖLFLEX® TRAIN 381 3,6kV

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

ÖLFLEX® TRAIN 381 3,6kV - Single-core cable EN 50264-3-1 type MM, 3,6/6kV for high requirements in railways/rolling stock 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: -50 °C up to 120 °C
Highly oil- and fuel-resistant



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

Benefits

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High electrical strength and mechanical durability due to dual-layer cable construction
Good chemical resistance please see Appendix T1
Resistant to mechanical influences in harsh environmental conditions
Extended temperature range
Reduced flame spreading increases the protection against damage to persons and property in the event of a fire

Application range

For use in railway vehicles, for fixed installations and applications where limited movement may occur
Suitable for wiring of control cabinets, distributors, converters, motors and batteries
Also applicable within oily environments and areas with increased ambient temperature

Product features

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

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

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

Current rating according to EN 50355, appendix A

Norm references / Approvals

EN 50382-2 type FF
EN 45545-2 HL1, HL2, HL3
NF F 16-101 - Classification: C / F1
(flame propagation / smoke)

Product Make-up

Tinned-copper strand, fine-wire
Insulation: Electron beam cross-linked Polymer compound EI 109
Outer sheath: electron beam cross-linked polymer-compound EM 104
Outer sheath colour: Black

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000057 ETIM 6.0 Class-Description: Low voltage power cable

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Conductor stranding:	Fine-wired/ Finely stranded according to IEC 60228, conductor class 5
Minimum bending radius:	Fixed installation: ≤ 12 mm: 3 x OD > 12 mm: 4 x OD Occasional flexing: ≤ 12 mm: 4 x OD > 12 mm ≤ 20 mm: 5 x OD > 20 mm: 6 x OD (OD = outer diameter)
Nominal voltage:	U_0/U AC 3,6/6 kV U_m AC 7,2 kV V_0 DC 5,4 kV
Test voltage:	11 kV AC; 26 kV DC
Temperature range:	Fixed installation: -45 °C to +120 °C (20.000 h) -50 °C acc. to GOST 20.57.406-81 Occasional flexing: -35 °C to +90 °C Short circuit: +200 °C (5s)

Note

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

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Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15381000	2.5	9.0	24	118.1
15381001	4.0	9.7	38.4	145.8
15381002	6.0	10.2	57.6	175.7
15381003	10.0	11.2	96	231.7
15381004	16.0	12.2	153.6	302.7
15381005	25.0	14.5	240	445.4
15381006	35.0	15.7	336	565.6
15381007	50.0	17.7	480	747
15381008	70.0	19.4	672	972.1
15381009	95.0	21.4	912	1,249.5
15381010	120.0	23.4	1152	1,556.6
15381011	150.0	25.4	1440	1895
15381012	185.0	27.5	1776	2,281.1
15381013	240.0	31.8	2304	2,982.2
15381014	300.0	33.0	2880	3,553.6

Last Update (23.12.2023)
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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.