

ÖLFLEX® TRAIN 350 300V

Multi-core cable according to EN 50264-3-2 type MM for high requirements in railway applications

ÖLFLEX® TRAIN 350 300V - Control cable EN 50264-3-2 MM, 300/500V for high requirements in railways/rolling stock
EN 45545: HL1-HL3, NF F 16-101: C/F0

Info

Meets EN 50264-3-2 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

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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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UV-resistant

Benefits

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 and buses, for fixed installations and applications where limited movement may occur

Suitable for connecting lamps, heating equipment, switchgear, terminal boxes and power supply

For use in railway vehicles, for fixed installations and applications where limited movement may occur

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 50264-3-2
- Fuel resistant acc. to EN 50264-3-2
- Acid resistant acc. to EN 50264-3-2
- Alkali resistant acc. to EN 50264-3-2
- Ozone resistant acc. to EN 50264-3-2/ EN 50305)

Current rating according to EN 50355, appendix A

Norm references / Approvals

EN 50264-3-2 type MM

EN 45545-2 HL1, HL2, HL3

NF F 16-101 - Classification: C / F0

(flame propagation / smoke)

Product Make-up

Tinned-copper strand, fine-wire

Insulation: Electron beam cross-linked Polymer compound EI 109

Colour of insulation: Black with white numbers

Outer sheath: electron beam cross-linked polymer-compound EM 104

Outer sheath colour: Black

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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
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: 300/500 V U _m AC 600 V V ₀ DC 450 V
Test voltage:	2,0 kV AC; 4,8 kV DC
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
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	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15350000	2 X 1.0	5.4	19.2	54.4
15350001	4 X 1.0	6.2	38.4	81.4
15350002	7 X 1.0	7.7	67.2	128.1
15350003	9 X 1.0	9.6	86.4	179.4
15350004	12 X 1.0	10.1	115.2	203.8
15350005	19 X 1.0	12.1	182.4	309
15350006	24 X 1.0	14.4	230.4	396.4
15350007	32 X 1.0	15.9	307.2	520.1
15350008	37 X 1.0	16.7	355.2	580.1
15350009	40 X 1.0	17.8	384	643.9
15350010	4 X 1.5	7.6	57.6	116.2
15350011	7 X 1.5	9.2	100.8	184
15350012	9 X 1.5	11.7	129.6	272.6
15350013	12 X 1.5	12.4	172.8	301.8
15350014	19 X 1.5	15.0	273.6	472.9
15350015	24 X 1.5	17.3	345.6	576.5
15350016	32 X 1.5	19.6	460.8	777.6
15350017	37 X 1.5	20.6	532.8	879.4
15350018	4 X 2.5	8.6	96	168.5
15350019	7 X 2.5	10.6	168	269.8
15350020	9 X 2.5	13.7	216	401.7
15350021	12 X 2.5	14.5	288	460.2
15350022	19 X 2.5	17.0	456	679.6
15350023	24 X 2.5	20.1	576	879.2

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