

UNIRAIL S 50264-3-1 600V M FR

Fire-resistant single-core railway cable according to EN 50264-3-1 type M and EN 50200

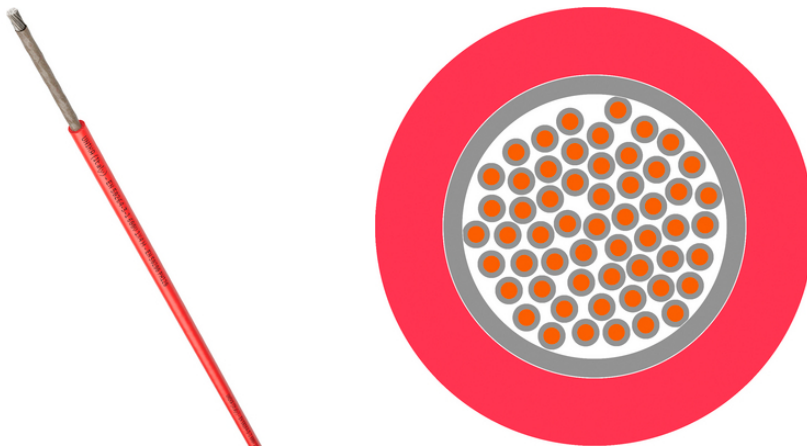
UNIRAIL S 50264-3-1 600V M FR - Fire-resistant control cable for railways/rolling stock
120 min. circuit integrity according to EN 50200
EN 45545 HL3

Info

Meets EN 50264-3-1 type M and
EN 45545-2

Circuit integrity according to EN 50200 up to 120 minutes

Highly oil- and fuel-resistant



Rail



Good chemical resistance



Flame-retardant



Halogen-free



Cold-resistant



Mechanical resistance



Oil-resistant



Temperature-resistant

Benefits

For protection against personal injury and damage to property.

Insulation integrity for up to 120 minutes under the effect of fire (classification PH120 according to EN 50200). Guarantees

Last Update (19.12.2024)

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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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functional integrity and the power supply in the event of an emergency.

Compliant with standards for use in rail vehicles: fire safety and cable design requirements according to EN 50264-3-1, type M; fire behaviour in accordance with EN 45545-2, hazard level HL3.

The cross-linked insulation material promotes longevity at high temperatures or with high current loads, and provides high dielectric strength.

Halogen-free and highly flame-retardant materials reduce the risk of fire propagation, high smoke density and toxic fumes in case of fire

Application range

For wiring safety-related components in railway vehicles.

Typical application areas are emergency power circuits for alarm, lighting and communication purposes, which must maintain their function for a certain period of time in the event of a fire.

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

Can be used in dry, damp and especially in harsh and oily environments.

The cross-linked polymer compound is highly resistant to oils, fuels, alkalis and acids.

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

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 50264-3-1 type M

DIN EN 45545-2 (HL3)

EN 50200

Product Make-up

Tinned-copper strand, fine-wire

Mica tape wrapping

Insulation: Cross-linked polymer compound EI 109

Colour of core insulation: red

Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC000993

ETIM 5.0 Class-Description: Single core cable

Classification ETIM 6:

ETIM 6.0 Class-ID: EC000993

ETIM 6.0 Class-Description: Single core 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: 4 x OD > 12 mm: 5 x OD
Nominal voltage:	U ₀ /U AC 0.6/1 kV U _m AC 1.2 kV V ₀ DC 0.9 kV
Test voltage:	3,5 kV AC; 8,4 kV DC
Temperature range:	Fixed installation: -40 °C to +90 °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.

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)
15382100	1 X 0.5	2.2	4.8
15382101	1 X 0.75	2.4	7.2
15382102	1 X 1.0	2.6	9.6
15382103	1 X 1.5	3.1	14.4
15382104	1 X 2.5	3.5	24
15382105	1 X 4.0	4.1	38.4
15382106	1 X 6.0	4.6	57.6
15382107	1 X 10.0	5.5	96
15382108	1 X 16.0	6.7	153.6
15382109	1 X 25.0	8.5	240
15382110	1 X 35.0	9.8	336
15382111	1 X 50.0	11.5	480
15382112	1 X 70.0	13.6	672
15382113	1 X 95.0	15.1	912
15382114	1 X 120.0	17.1	1152
15382115	1 X 150.0	19.1	1440
15382116	1 X 185.0	21.3	1776
15382117	1 X 240.0	24.1	2304
15382118	1 X 300.0	26.7	2880
15382119	1 X 400.0	30.5	3840