

## UNIRAIL S 50264-3-2 600V MMS FR

Fire-resistant multi-core railway cable according to EN 50264-3-2 type MMS and EN 50200

UNIRAIL S 50264-3-2 600V MMS FR - Fire-resistant screened control cable for railways/rolling stock  
120 min. circuit integrity according to EN 50200

EN 45545 HL3

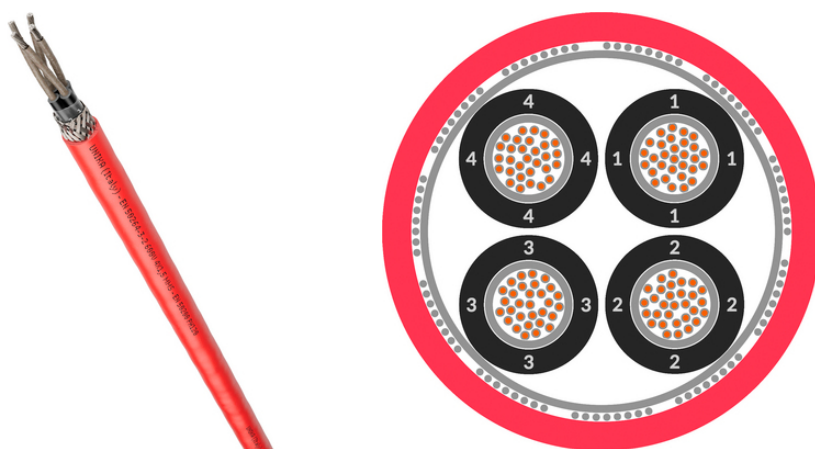
### Info

Meets EN 50264-3-2 type MMS 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

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## UNIRAIL S 50264-3-2 600V MMS FR

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 DIN EN 50264-3-2, type MMS; fire behaviour in accordance with DIN EN 45545-2, hazard level HL3.

The cross-linked insulation and sheath materials promote longevity at high temperatures or with a high current load, and provide high dielectric strength.

Ideal protection against electromagnetic interference due to copper shielding braid with high degree of coverage

### Application range

For wiring safety-related components in railway vehicles.

Especially for environments where electromagnetic compatibility (EMC) is required.

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.

### 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 50264-3-2 type MMS

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 insulation: Black with white numbers

Wrapping: Non-hygroscopic tape

Tinned copper screen braiding

Outer sheath: Cross-linked polymer-compound EM 104

### 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

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## UNIRAIL S 50264-3-2 600V MMS FR

	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: 10 x outer diameter
Nominal voltage:	U <sub>0</sub> /U AC 0.6/1 kV U <sub>m</sub> AC 1.2 kV V <sub>0</sub> DC 0.9 kV
Test voltage:	3,5 kV AC; 8,4 kV DC
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
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 <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)
15382190	2 X 1.5	9.0	66
15382191	3 X 1.5	9.5	86
15382192	4 X 1.5	10.5	106
15382193	2 X 2.5	10.0	90
15382194	3 X 2.5	10.7	120
15382195	4 X 2.5	11.7	149