ÖLFLEX® TRAIN 355 C 300V

Screened multi-core cable based on EN 50264-3-2 type MM S for high requirements in railway applications

ÖLFLEX® TRAIN 355 C 300V - Control cable screened EN 50264-3-2 MM S 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 MMS 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

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Interference signals


Temperature-resistant


UV-resistant

Benefits

Copper screening complies with EMC requirements and protects against electromagnetic interference
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 connecting lamps, heating equipment, switchgear, terminal boxes and power supply
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 50264-3-2
- 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
EN 45545-2 HL1, HL2, HL3
NF F 16-101 - Classification: C / F0
(flame propagation / smoke)

Product Make-up

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Conductor: Fine-wire strands of tinned copper
Insulation: Electron beam cross-linked Polymer compound EI 109
Colour of insulation: Black with white numbers
Wrapping: Halogen-free plastic foil
Screen: Tinned-copper braiding
Outer sheath: electron beam cross-linked polymer-compound EM 104
Outer sheath colour: Black

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:	U0/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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PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15355000	2 X 1.0	6.2	39.27	71.4
15355001	4 X 1.0	7.2	64.06	108.5
15355002	7 X 1.0	8.5	97.15	152
15355003	9 X 1.0	10.8	137.41	234.1
15355004	12 X 1.0	11.3	170.09	257.7
15355005	19 X 1.0	13.7	261.77	395
15355006	24 X 1.0	15.6	324.51	482.2
15355007	32 X 1.0	17.1	411.92	605.9
15355008	37 X 1.0	17.9	471.56	685.9
15355009	40 X 1.0	19.4	510.27	777.3
15355010	4 X 1.5	8.4	86.8	145.1
15355011	7 X 1.5	10.2	150.51	224
15355012	9 X 1.5	13.1	191.37	336
15355013	12 X 1.5	13.8	240	371.1
15355014	19 X 1.5	16.2	369.09	547.8
15355015	24 X 1.5	18.9	463.04	697.9
15355016	32 X 1.5	20.8	591.57	891.5
15355017	37 X 1.5	21.8	664.73	993.6
15355018	4 X 2.5	9.6	153.75	219.6
15355019	7 X 2.5	11.6	224.75	311.4
15355020	9 X 2.5	14.9	309.28	478.1
15355021	12 X 2.5	15.7	382.12	529.9
15355022	19 X 2.5	18.6	573.02	794.6
15355023	24 X 2.5	21.3	718.82	999.1

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