ÖLFLEX® TRAIN 327 C TW-E 300V

Screened multi-core cable according to EN 50306-4 5E type MM S for high requirements in railway applications

ÖLFLEX® TRAIN 327 C TW-E 300V - control cable shielded according to EN 50306-4 5E type MM S, 300/500V for rail vehicles/trains, EN 45545: HL1-HL3, NF F 16-101: C/F1

Info

Meets EN 50306-4 class E, type MM S and EN 45545-2
High temperature resistance: -50°C up to +125°C
Highly oil- and fuel-resistant

Rail

Good chemical resistance

Flame-retardant

Halogen-free

Cold-resistant

Mechanical resistance

Oil-resistant

Space requirement

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Interference signals

Temperature-resistant

UV-resistant

Benefits

Reduced insulation wall thickness, thus space-saving installation
Copper screening complies with EMC requirements and protects against electromagnetic interference
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

In EMC-sensitive environments
For use in railway vehicles, for fixed installations and applications where limited movement may occur
Suitable for control and monitoring circuits as well as locking circuits and internal wiring of equipment in trains and locomotives
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 50306
- Fuel resistant acc. to EN 50306
- Acid resistant acc. to EN 50306
- Alkali resistant acc. to EN 50306
- Ozone resistant acc. to EN 50306

Current rating according to EN 50355, appendix A

Norm references / Approvals

EN 50306-4 class E, type MM S
EN 45545-2 HL1, HL2, HL3
NF F 16-101 - Classification: C / F1
(flame propagation / smoke)

Product Make-up

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Tinned-copper strand, 19 or 37 wires, SRC (Special Round Conductor)
Insulation: Electron beam cross-linked Polymer compound acc. to EN 50306
Colour of insulation: White with black numbers
Screen: Tinned-copper braiding over each pair
Jacket over screen: electron beam cross-linked polymer-compound S2 acc. to EN 50306
The cross-linked polymer compound is highly resistant to oils, fuels, alkalis and acids.
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:	White with black numbers
Conductor stranding:	SRC (special round conductor) 19 or 37 wires acc. to EN 50306-1
Minimum bending radius:	Fixed installation: 5 x outer diameter Occasional flexing: 10 x outer diameter
Nominal voltage:	U_0: 600 V AC U_0/U: 300/500 V AC acc. to EN 50306 U_m: 550 V AC
Test voltage:	3,5 kV AC; 8,4 kV DC
Temperature range:	Fixed installation: -45°C to +125°C (20.000 h) -50°C acc. to GOST 20.57.406-81 Occasional flexing: -35°C to +105°C Short circuit: +160°C (5s)

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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PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15327000	2x (2X0,5)	10.7	38.87	178.98
15327001	3x (2X0,5)	11.4	58.3	211.95
15327002	4x (2X0,5)	12.4	77.74	253.53
15327003	7x (2X0,5)	14.7	136.38	374.84
15327004	2x (2X0,75)	11.5	51.5	212.9
15327005	3x (2X0,75)	12.2	77.25	249.55
15327006	4x (2X0,75)	13.4	103	306.77
15327007	7x (2X0,75)	15.9	180.64	446.95
15327008	2x (2X1)	11.9	63	234.98
15327009	3x (2X1)	12.6	94.5	281.92
15327010	4x (2X1)	13.8	126	341.82
15327011	7x (2X1)	16.5	220.93	499.43
15327012	2x (2X1,5)	13.9	90	317.42
15327013	3x (2X1,5)	14.8	136	383.34
15327014	4x (2X1,5)	16.3	181	491.8
15327015	7x (2X1,5)	19.5	320	697.3

Last Update (15.03.2024)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
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