ÖLFLEX® TRAIN 325 C TW-E 300V

Shielded multi-core cable according to EN 50306-4 3E type MM S for high requirements in railway applications

ÖLFLEX® TRAIN 325 C TW-E 300V - control cable shielded according to EN 50306-4 3E type MM S, 300/500V for rail vehicles/trains, EN 45545: HL1-HL3, NF F 16-101: C/F0

Info
Meets EN 50306-4 class E, type MM S and EN 45545-2
High temperature resistance: -45°C to +125°C
Highly oil- and fuel-resistant

CE

UV-resistant

Temperature-resistant

Interference signals

Space requirement

Oil-resistant

Mechanical resistance

Halogen-free

Good chemical resistance

Last Update (16.05.2017)

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


Flame-retardant


Cold-resistant

Benefits

Reduced insulation wall thickness, therefore a space-saving installation
Copper shielded complies with EMC requirements and protects against electromagnetic interference
Resistant to mechanical influences in harsh environmental conditions
Extended temperature range
Reduced flame spreading for protection against damage to persons and property in the event of a fire

Application range

In EMC-sensitive environments
For use in railway vehicles and buses, for fixed installation and applications where limited movement is to be expected
Suitable for control and monitoring circuits as well as locking circuits and internal wiring of equipment in trains and locomotives
Can also be used in oily environments and areas with increased ambient temperature

Product features

Fire behaviour in accordance with EN/IEC:
- Halogen-free according to EN 60754-1
- No corrosive gases according to EN 60754-2
- No fluorine according to EN 60684-2
- No toxic gases according to EN 50305
- Low smoke density according to EN 61034-2
- Flame-retardant according to EN 60332-1-2
- No flame propagation according to EN 60332-3-24 / EN 60332-3-25 / EN 50305

Fire behaviour in accordance with NF:
- Toxicity of combustion gases according to NF X 70-100
- Low smoke density according to NF X 10-702
- No flame propagation according to NF C 32-070, cat. C1 and C2

Chemical properties:
- Oil-resistant according to EN 50306
- Fuel-resistant according to EN 50306
- Acid-resistant according to EN 50306
- Alkali-resistant according to EN 50306
- Ozone-resistant according to EN 50306

Norm references / approvals

EN 50306-4 class E, type MM S
EN 45545-2 HL1, HL2, HL3
NF F 16-101 - classification: C / F0
(flame propagation / smoke)

ÖLFLEX® TRAIN 325 C TW-E 300V

Design

Sheath colour: Black
Tin-plated copper strand, 19- or 37-wire, SRC (Special Round Conductor)
Insulation: Electron beam cross-linked polymer compound according to EN 50306
Core colour: White with black numbers
Wrapping: Halogen-free plastic film (optional)
Shield: Tin-plated copper braiding
Sheath: Electron beam cross-linked polymer-compound S2 according to EN 50306

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Core identification code:	White with black numbers
Conductor design:	SRC (special round conductor) 19- or 37-wire according. to EN 50306-1
Minimum bending radius:	Fixed installation: 10 x outer diameter Occasional flexing: 10 x outer diameter
Nominal voltage:	U_0/U AC 300/500 V U_m AC 550 V V_0 DC 410 V Fixed installation: U_0/U AC 0.6/1 kV U_m AC 1.2 kV V_0 DC 0.9 kV
Test voltage:	Core/core: 3,5 kV AC; 8,4 kV DC Core/screen: 3,5 kV AC; 8,4 kV DC
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Fixed installation: -45°C to +125°C (20,000 h) Occasional flexing: -35°C to +105°C Short circuit: +160°C (5s)

Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they available and have been released for publication.
Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"
Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred packaging (e.g. 1 x 500 m drum or 5 x 100 m rings)
Photographs 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

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15325000	2 X 0.5	6	19.37	57.36
15325001	3 X 0.5	6.2	24.88	64.85
15325002	4 X 0.5	6.6	30.87	74.62
15325003	6 X 0.5	7.4	42.95	95.06
15325004	8 X 0.5	8	61.26	121.54
15325005	2 X 0.75	6.4	25.67	65.89
15325006	3 X 0.75	6.7	33.71	78.02
15325007	4 X 0.75	7	42.18	89.21
15325008	6 X 0.75	8	65.36	120.98
15325009	8 X 0.75	8.7	83.99	153.1
15325010	2 X 1	6.7	31.42	76.14
15325011	3 X 1	7	41.97	89.46
15325012	4 X 1	7.4	52.9	105.59
15325013	6 X 1	8.5	81.75	144.07
15325014	8 X 1	9.2	105.4	180.36
15325015	2 X 1.5	7.6	44.09	98.95
15325016	3 X 1.5	7.9	65.53	121.02
15325017	4 X 1.5	8.5	82.14	145.09
15325018	6 X 1.5	9.8	117.22	196.01
15325019	8 X 1.5	10.8	151.94	249.75
15325020	2 X 2.5	8.8	75.42	141.64
15325021	3 X 2.5	9.2	102.07	173.32
15325022	4 X 2.5	10	129.75	210.67

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