

ÖLFLEX® TRAIN 315 C TW-P 300V

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

ÖLFLEX® TRAIN 315 C TW-P 300V - control cable shielded according to EN 50306-4 3P 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 P, type MM S and EN 45545-2

High temperature resistance: -50 °C up to +125 °C

Highly oil- and fuel-resistant

LAPP KABEL STUTTGART ÖLFLEX® TRAIN 315 C TW-P 300V EN 50306-4 3P MM S



Rail



Good chemical resistance



Flame-retardant



Halogen-free



Cold-resistant



Mechanical resistance



Oil-resistant



Space requirement

Last Update (07.10.2021)

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

PN 0456 / 02_03.16

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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 and protected installation 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 P, type MM S

EN 45545-2 HL1, HL2, HL3

NF F 16-101 - Classification: C / F0

(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
Wrapping: Halogen-free plastic foil
Screen: Tinned-copper braiding
Outer sheath: electron beam cross-linked polymer-compound S2 acc. to EN 50306
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
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
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 \leq 30 kg or \leq 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)	Weight (kg/km)
15315000	2 X 0.5	4.6	19.366	37.82
15315001	3 X 0.5	4.8	24.88	44.57
15315002	4 X 0.5	5.2	30.87	54.47
15315003	6 X 0.5	6.0	42.954	72.3
15315004	8 X 0.5	6.5	61.263	94.36
15315005	2 X 0.75	5.0	25.671	46.49
15315006	3 X 0.75	5.2	33.711	56.09
15315007	4 X 0.75	5.7	42.182	69.18
15315008	6 X 0.75	6.6	65.359	96.16
15315009	8 X 0.75	7.1	83.995	123.14
15315010	2 X 1.0	5.2	31.415	54.04
15315011	3 X 1.0	5.5	41.97	66.42
15315012	4 X 1.0	6.0	52.896	80.98
15315013	6 X 1.0	7.1	81.745	117.48
15315014	8 X 1.0	8.2	105.404	157.11
15315015	2 X 1.5	6.2	44.094	73.57
15315016	3 X 1.5	6.5	65.526	94.52
15315017	4 X 1.5	7.1	82.137	118.46
15315018	6 X 1.5	8.8	117.216	171.64
15315019	8 X 1.5	9.5	151.94	222.26
15315020	2 X 2.5	7.8	75.424	119.8
15315021	3 X 2.5	8.2	102.072	150.37
15315022	4 X 2.5	9.0	129.754	190.63

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