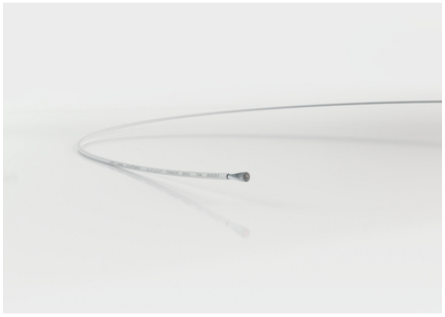
ÖLFLEX® TRAIN 301 TW 300V

Single-core cable according to EN 50306-2 type M for high requirements in railway applications

ÖLFLEX® TRAIN 301 TW-E 300V - single core according to EN 50306-2 type M, 300/500V for rail vehicles/trains, EN 45545: HL1-HL3, NF F 16-101: C/F0

Info
Meets EN 50306-2 type M and
EN 45545-2
High temperature resistance: -50 °C up to +125 °C
Highly oil- and fuel-resistant



CE

Rail

Good chemical resistance

Flame-retardant

Halogen-free

Cold-resistant

Mechanical resistance

Oil-resistant

Space requirement

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Temperature-resistant

UV-resistant

Benefits

Reduced insulation wall thickness, thus space-saving installation
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 and protected installation and applications where limited movement may occur
Suitable for switchboards and control panels of 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 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 50306-2, type M
EN 45545-2 HL1, HL2, HL3
NF F 16-101 - Classification: C / F0
(flame propagation / smoke)

Product Make-up

Tinned-copper strand, 19 or 37 wires, SRC (Special Round Conductor)
Insulation: Electron beam cross-linked Polymer compound acc. to EN 50306
Colour of core insulation: white

Technical Data

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ÖLFLEX® TRAIN 301 TW 300V

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000993 ETIM 5.0 Class-Description: Single core cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000993 ETIM 6.0 Class-Description: Single core cable
Conductor stranding:	SRC (special round conductor) 19 or 37 wires acc. to EN 50306-1
Minimum bending radius:	Fixed installation: 4 x OD 3 x OD for careful bending, once at connecting terminal
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: -40 °C to +125 °C (20.000 h) -50 °C acc. to GOST 20.57.406-81

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
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	m/ring	m/spool	m/box	Conductor cross-section (mm^2)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15301000	100	-	-	0.5	1.3	4.8	5.83
15301000S	-	500	-	0.5	1.3	4.8	5.83
15301000K	-	-	3000	0.5	1.3	4.8	5.83
15301001	100	-	-	0.75	1.5	7.2	8.45
15301001S	-	500	-	0.75	1.5	7.2	8.45
15301001K	-	-	3000	0.75	1.5	7.2	8.45
15301002	100	-	-	1.0	1.6	9.6	10.99
15301002S	-	500	-	1.0	1.6	9.6	10.99
15301002K	-	-	2500	1.0	1.6	9.6	10.99
15301003	100	-	-	1.5	2.1	14.4	16.63
15301003S	-	250	-	1.5	2.1	14.4	16.63
15301003K	-	-	2500	1.5	2.1	14.4	16.63
15301004	100	-	-	2.5	2.7	24.4	28.04
15301004S	-	250	-	2.5	2.7	24.4	28.04
15301004K	-	-	2000	2.5	2.7	24.4	28.04

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