

## 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: -45°C up to +125°C

Highly oil- and fuel-resistant



LAPP KABEL STUTTGART ÖLFLEX® TRAIN 301 TW 300V EN 50306-2 M



UV-resistant



Temperature-resistant



Space requirement



Oil-resistant



Mechanical resistance



Halogen-free



Good chemical resistance



Rail

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

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## ÖLFLEX® TRAIN 301 TW 300V



Flame-retardant



Cold-resistant

### Benefits

Reduced insulation wall thickness, thus space-saving installation

Good chemical resistance

Resistant to mechanical influences in harsh environmental conditions

Extended temperature range

Reduced flame spreading increase the protection against damage to persons and property in the event of a fire

### Application range

For use in railway vehicles and buses, 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

### 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

## ÖLFLEX® TRAIN 301 TW 300V

### Technical Data

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 Occasional flexing: 5 x OD (OD = outer diameter)
Nominal voltage:	U <sub>0</sub> /U AC 300/500 V U <sub>m</sub> AC 550 V V <sub>0</sub> DC 410 V
Test voltage:	2,0 kV AC; 4,8 kV DC
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 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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Article number	m/ring	m/spool	m/box	Conductor cross-section (mm <sup>2</sup> )	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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