

## ÖLFLEX® TRAIN 315 C TW-P 300V

Shielded 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: -45 °C to +125 °C

Highly oil- and fuel-resistant

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

CE



UV-resistant



Temperature-resistant



Interference signals



Space requirement



Oil-resistant



Mechanical resistance



Halogen-free



Good chemical resistance

Last Update (17.05.2017)

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

PN 0456 / 02\_03.16

## ÖLFLEX® TRAIN 315 C TW-P 300V



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 and protected 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 P, type MM S
- EN 45545-2 HL1, HL2, HL3
- NF F 16-101 - classification: C / F0  
(flame propagation / smoke)

## ÖLFLEX® TRAIN 315 C TW-P 300V

### Design

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  
Shield: Tin-plated copper braiding  
Sheath: Electron beam cross-linked polymer-compound S2 according to EN 50306  
Sheath colour: Black

### 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  $\leq$  30 kg or  $\leq$  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.

**ÖLFLEX® TRAIN 315 C TW-P 300V**

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15315000	2 X 0.5	4.6	19366	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	42954	72.3
15315004	8 X 0.5	6.5	61263	94.36
15315005	2 X 0.75	5	25671	46.49
15315006	3 X 0.75	5.2	33711	56.09
15315007	4 X 0.75	5.7	42182	69.18
15315008	6 X 0.75	6.6	65359	96.16
15315009	8 X 0.75	7.1	83995	123.14
15315010	2 X 1	5.2	31415	54.04
15315011	3 X 1	5.5	41.97	66.42
15315012	4 X 1	6	52896	80.98
15315013	6 X 1	7.1	81745	117.48
15315014	8 X 1	8.2	105404	157.11
15315015	2 X 1.5	6.2	44094	73.57
15315016	3 X 1.5	6.5	65526	94.52
15315017	4 X 1.5	7.1	82137	118.46
15315018	6 X 1.5	8.8	117216	171.64
15315019	8 X 1.5	9.5	151.94	222.26
15315020	2 X 2.5	7.8	75424	119.8
15315021	3 X 2.5	8.2	102072	150.37
15315022	4 X 2.5	9	129754	190.63

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