ÖLFLEX® TRAIN 310 TW-P 300V

Multi-core cable according to EN 50306-4 1P type MM for high requirements in railway applications

ÖLFLEX® TRAIN 310 TW-P 300V - control cable according EN 50306-4 1P type MM, 300/500V for rail vehicles/trains, EN 45545: HL1-HL3, NF F 16-101: C/F0, NFPA 130

Info
Meets EN 50306-4 class P, type MM and
EN 45545-2
High temperature resistance: -50 °C up to 120 °C
Highly oil- and fuel-resistant

Rail

Good chemical resistance

Flame-retardant

Halogen-free

Cold-resistant

Mechanical resistance

Oil-resistant

Space requirement

Last Update (26.01.2026)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

ÖLFLEX® TRAIN 310 TW-P 300V


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 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
EN 45545-2 HL1, HL2, HL3
NF F 16-101: see data sheet
Compliant with NFPA 130

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 insulation: White with black numbers
The cross-linked polymer compound is highly resistant to oils, fuels, alkalis and acids.

Last Update (26.01.2026)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

ÖLFLEX® TRAIN 310 TW-P 300V

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: ≤ 12 mm: 4 x OD / 3 x OD* > 12 mm: 5 x OD / 4 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
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Fixed installation: -40 °C to +120 °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 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.

LAPP

ÖLFLEX® TRAIN 310 TW-P 300V

PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15310030	2 X 0.5	|	9.6	-
15310031	3 X 0.5	|	14.4	-
15310000	4 X 0.5	4.6	19.2	41.7
15310024	6 X 0.5	5.4	28.8	60
15310001	7 X 0.5	5.4	33.6	63.51
15310032	8 X 0.5	|	38.4	-
15310002	13 X 0.5	7.8	62.4	120.45
15310003	19 X 0.5	8.6	91.2	157.19
15310004	37 X 0.5	11.4	177.6	285.06
15310033	48 X 0.5	|	230.4	-
15310034	2 X 0.75	|	14.4	-
15310035	3 X 0.75	|	21.6	-
15310005	4 X 0.75	5.1	28.8	55.29
15310036	6 X 0.75	|	43.2	-
15310006	7 X 0.75	6.0	50.4	83.91
15310037	8 X 0.75	|	57.6	-
15310007	13 X 0.75	8.7	93.6	161.87
15310008	19 X 0.75	9.6	136.8	213.91
15310009	37 X 0.75	12.8	266.4	392.13
15310010	48 X 0.75	14.7	346	489
15310038	2 X 1.0	|	19.2	-
15310039	3 X 1.0	|	28.8	-
15310011	4 X 1.0	5.4	38.4	67.78
15310040	6 X 1.0	|	57.6	-
15310012	7 X 1.0	6.5	67.2	105.98
15310041	8 X 1.0	|	76.8	-
15310013	13 X 1.0	9.3	124.8	200.43
15310014	19 X 1.0	10.4	182.4	267.49
15310015	37 X 1.0	13.9	355.2	497.75
15310042	48 X 1.0	|	460.8	-
15310043	2 X 1.5	|	28.8	-
15310044	3 X 1.5	|	43.2	-
15310016	4 X 1.5	6.5	57.6	98.42
15310045	6 X 1.5	|	86.4	-

PN 0456 / 02_03.16

LAPP

ÖLFLEX® TRAIN 310 TW-P 300V

PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15310017	7 X 1.5	8.2	108	170.32
15310046	8 X 1.5	|	115.2	-
15310018	13 X 1.5	11.3	187.2	294.53
15310019	19 X 1.5	12.6	273.6	395.64
15310020	37 X 1.5	17.0	532.8	727.91
15310047	48 X 1.5	|	691.2	-
15310021	2 X 2.5	7.2	49.2	106.11
15310022	3 X 2.5	7.6	73.8	130.81
15310023	4 X 2.5	8.4	98.4	165.38
15310048	6 X 2.5	|	144	-
15310049	7 X 2.5	|	168	-
15310050	8 X 2.5	|	192	-
15310051	13 X 2.5	|	312	-
15310052	19 X 2.5	|	456	-
15310053	37 X 2.5	|	888	-