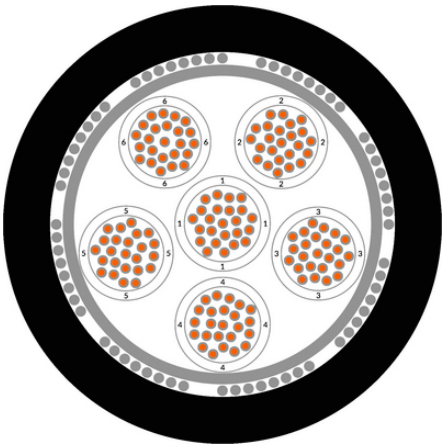
ÖLFLEX® TRAIN 315 C TW-P 300V

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

ÖLFLEX® TRAIN 315 C TW-P 300V - control cable shielded, based on 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 45545-2, based on EN 50306-4 class P, type MM S
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

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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 45545-2 HL1, HL2, HL3
Based on EN 50306-4 class P, type MM S
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
The cross-linked polymer compound is highly resistant to oils, fuels, alkalis and acids.
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: 5 x OD / 4 x OD* > 12 mm: 6 x OD / 5 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.

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PRODUCT INFORMATION

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Article number	Number of cores and mm² 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
15315033	7 X 0.5	0.1	55.67	-
15315004	8 X 0.5	6.5	61.263	94.36
15315034	13 X 0.5	0.1	90.87	-
15315035	19 X 0.5	0.1	124.99	-
15315036	37 X 0.5	0.1	237.4	-
15315037	48 X 0.5	0.1	298.353	-
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
15315038	7 X 0.75	0.1	72.56	-
15315009	8 X 0.75	7.1	83.995	123.14
15315039	13 X 0.75	0.1	127.02	-
15315040	19 X 0.75	0.1	186.47	-
15315041	37 X 0.75	0.1	332.93	-
15315042	48 X 0.75	0.1	422.464	-
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
15315043	7 X 1.0	0.1	91.35	-
15315014	8 X 1.0	8.2	105.404	157.11
15315044	13 X 1.0	0.1	158.64	-
15315045	19 X 1.0	0.1	233.59	-
15315046	37 X 1.0	0.1	445.9	-
15315047	48 X 1.0	0.1	564.997	-
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

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15315048	7 X 1.5	0.1	134.973	-
15315019	8 X 1.5	9.5	151.94	222.26
15315049	13 X 1.5	0.1	256.725	-
15315050	19 X 1.5	0.1	355.283	-
15315051	37 X 1.5	0.1	676.696	-
15315052	48 X 1.5	0.1	840	-
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
15315053	6 X 2.5	0.1	205.363	-
15315054	8 X 2.5	0.1	272.942	-
15315055	13 X 2.5	0.1	425.702	-
15315056	19 X 2.5	0.1	592.702	-
15315057	37 X 2.5	0.1	1,136.314	-

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