

ÖLFLEX® TRAIN 340 600V

Multi-core cable according to EN 50264-3-2 type MM for high requirements in railway applications

ÖLFLEX® TRAIN 340 600V - Control cable EN 50264-3-2 MM, 0,6/1kV for high requirements in railways/rolling stock
EN 45545: HL1-HL3, NF F 16-101: C/F0

Info

Meets EN 50264-3-2 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



Temperature-resistant

Last Update (21.02.2024)

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Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

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UV-resistant

Benefits

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 installations and applications where limited movement may occur

Suitable for connecting lamps, heating equipment, switchgear, terminal boxes and power supply

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 50264-3-2
- Fuel resistant acc. to EN 50264-3-2
- Acid resistant acc. to EN 50264-3-2
- Alkali resistant acc. to EN 50264-3-2
- Ozone resistant acc. to EN 50264-3-2/ EN 50305)

Current rating according to EN 50355, appendix A

Norm references / Approvals

EN 50264-3-2 type MM

EN 45545-2 HL1, HL2, HL3

NF F 16-101 - Classification: C / F0
(flame propagation / smoke)

Product Make-up

Tinned-copper strand, fine-wire

Insulation: Electron beam cross-linked Polymer compound EI 109

Colour of insulation: Black with white numbers

Outer sheath: electron beam cross-linked polymer-compound EM 104

Outer sheath colour: Black

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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:	Black with white numbers
Conductor stranding:	Fine-wired/ Finely stranded according to IEC 60228, conductor class 5
Minimum bending radius:	Fixed installation: ≤ 12 mm: 3 x OD > 12 mm: 4 x OD Occasional flexing: ≤ 12 mm: 4 x OD > 12 mm ≤ 20 mm: 5 x OD > 20 mm: 6 x OD (OD = outer diameter)
Nominal voltage:	U ₀ /U AC 0.6/1 kV U _m AC 1.2 kV V ₀ DC 0.9 kV
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: -45°C to +120°C (20.000 h) -50°C acc. to GOST 20.57.406-81 Occasional flexing: -35°C to +90°C Short circuit: +200°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 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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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15340040	2 X 0.5	5.7	9.6	49
15340041	4 X 0.5	6.6	19.2	70
15340042	7 X 0.5	7.9	33.6	103
15340043	9 X 0.5	9.8	43.2	152
15340044	12 X 0.5	10.5	57.6	165
15340045	19 X 0.5	12.4	91.2	242
15340046	24 X 0.5	14.7	115.2	312
15340047	32 X 0.5	16.2	153.6	399
15340048	37 X 0.5	17.5	177.6	470
15340049	40 X 0.5	18.5	192	521
15340050	2 X 0.75	6.1	14.4	59
15340051	4 X 0.75	7.0	28.8	84
15340052	7 X 0.75	8.5	50.4	128
15340053	9 X 0.75	10.8	64.8	194
15340054	12 X 0.75	11.4	86.4	208
15340055	19 X 0.75	13.8	136.8	320
15340056	24 X 0.75	15.9	172.8	393
15340057	32 X 0.75	17.9	230.4	522
15340058	37 X 0.75	18.9	266.4	592
15340059	40 X 0.75	20.0	288	656
15340060	2 X 1.0	6.4	19.2	68
15340061	4 X 1.0	7.4	38.4	99
15340062	7 X 1.0	8.9	67.2	150
15340063	9 X 1.0	11.4	86.4	227
15340064	12 X 1.0	12.0	115.2	245
15340065	19 X 1.0	14.5	182.4	377
15340066	24 X 1.0	16.8	230.4	468
15340067	32 X 1.0	18.9	307.2	623
15340068	37 X 1.0	19.9	355.2	702
15340069	40 X 1.0	21.2	384	785
15340000	2 X 1.5	7.4	28.8	94.1
15340001	3 X 1.5	7.9	43.2	113.5
15340025	3 G 1.5	7.9	43.2	113.5
15340002	4 X 1.5	8.6	57.6	139.6

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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15340026	4 G 1.5	8.6	57.6	139.6
15340070	7 X 1.5	10.6	100.8	217
15340071	9 X 1.5	13.7	129.6	332
15340072	12 X 1.5	14.5	172.8	364
15340073	19 X 1.5	17.4	273.6	554
15340074	24 X 1.5	20.1	345.6	684
15340075	32 X 1.5	22.6	460.8	908
15340076	37 X 1.5	23.8	532.8	1027
15340003	2 X 2.5	8.2	48	127.4
15340004	3 X 2.5	8.7	72	156.9
15340027	3 G 2.5	8.7	72	156.9
15340005	4 X 2.5	9.6	96	195
15340028	4 G 2.5	9.6	96	195
15340077	7 X 2.5	11.8	168	302
15340078	9 X 2.5	15.3	216	465
15340079	12 X 2.5	16.1	288	504
15340080	19 X 2.5	19.4	456	776
15340081	24 X 2.5	22.9	576	1000
15340006	2 X 4.0	9.6	76.8	178.5
15340007	3 X 4.0	10.2	115.2	222.9
15340008	4 X 4.0	11.4	153.6	284.5
15340009	2 X 6.0	10.8	115.2	244.2
15340010	3 X 6.0	11.5	172.8	308
15340011	4 X 6.0	13.0	230.4	393.4
15340012	2 X 10.0	13.2	192	377.3
15340013	3 X 10.0	14.0	288	479.6
15340014	4 X 10.0	15.4	384	604
15340015	2 X 16.0	15.2	307.2	551.9
15340016	3 X 16.0	16.2	460.8	708
15340017	4 X 16.0	18.2	614.4	916.2
15340018	2 X 25.0	19.0	480	857
15340019	3 X 25.0	20.2	720	1,101.5
15340020	4 X 25.0	22.7	960	1,420.9
15340021	2 X 35.0	21.4	672	1,140.9

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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
15340022	3 X 35.0	23.0	1008	1,488.8
15340023	2 X 50.0	26.2	960	1,626.5
15340024	3 X 50.0	28.0	1440	2,101.1