

15361000	DATA SHEET	
valid from 2025-04-08	ÖLFLEX® TRAIN 361 1,8 kV	

Application

ÖLFLEX® TRAIN 361 are halogen-free, highly flame retardant cables for use in railway vehicles.

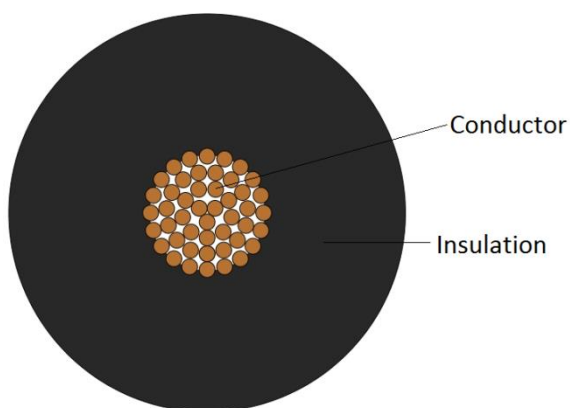
They are designed for fixed installation and for applications, where limited movement may occur. They are particularly used in areas, where human and animal life as well as valuable property are exposed to high risk of fire hazards.

ÖLFLEX® TRAIN 361 are oil-, fuel-, acid- and alkali resistant acc. to EN 50264-3-1.

Application range:

railway vehicles, connecting lamps, heating equipment, switchgear, terminal boxes and power supply

Design



Design	acc. to EN 50264-3-1, 1800 V, M
Norm references	EN 50264-3-1. Code designation M M = extra low temperature, extra oil and fuel resistant
Classification	EN 45545-2: Hazard Level HL1, HL2, HL3 NF F 16-101: Internal Category A1, A2, B External Category A1, A2, B Category C for flame propagation Category F1 for smoke
Conductor	fine wire strands of tinned copper acc. to IEC 60228 resp. EN IEC 60228, Class 5
Core isolation	electron beam cross-linked polymer compound EI 109 acc. to EN 50264-1
Core identification	black

Electrical properties at 20 °C

Nominal voltage	U ₀ / U: 1.8/3 kV AC
Max. permissible operating voltage	U _m : 3.6 kV AC V ₀ : 2.7 kV DC
Test voltage	6.5 kV AC; 15 kV DC

Creator: KASC/PDC Released: ALTE/PDC	Document: DB15361000EN Version: 08	Page 1 of 3
---	---------------------------------------	-------------

We reserve all rights according to DIN ISO 16016.

PDC 0019/06_03.23EN

15361000	DATA SHEET	
valid from 2025-04-08	ÖLFLEX® TRAIN 361 1,8 kV	

Mechanical and thermal properties

Min. bending radius	Cable diameter $\leq$ 12.0 mm: 4 x outer diameter for cautions bending: 3 x outer diameter (one bend at end of core) Cable diameter $>$ 12.0 mm: 5 x outer diameter for cautions bending: 4 x outer diameter (one bend at end of core)
Temperature range	-40 °C up to +90 °C max. conductor temp. up to +120 °C max. conductor temp. (20.000h) up to +145 °C max. conductor temp. (3.000h) - 50 °C acc. to GOST 33326-2015 and GOST 20.57.406-81 (method 203-1 und 205-1)
Short circuit temperature	max. +200 °C (5s)

Fire protection acc. to EN 50264-1 / EN 45545-2:

Classification	EN 45545-2: Hazard Level HL1, HL2, HL3
Flammability	Flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 No flame propagation acc. to: $\geq$ 12 mm: IEC 60332-3-24 resp. EN 60332-3-24 $>$ 6 mm and $<$ 12mm: IEC 60332-3-25 resp. EN 60332-3-25 $\leq$ 6 mm: EN 50305
Smoke density	acc. to EN 50264-1, light transmission: min. 70% acc. to IEC 61034-2 resp. EN 61034-2
Halogen-free	acc. to IEC 60754-1 resp. EN 60754-1 (chlorine and bromine) acc. to EN 60684-2 (fluorine)
Corrosivity	acc. to EN 50264-1, pH $\geq$ 4.3 and conductivity $\leq$ 10 μ S/mm acc. to IEC 60754-2 resp. EN 60754-2
Toxicity	acc. to EN 50264-1 ($\leq$ 3) acc. to EN 50305 acc. to EN 45545-2 ($\leq$ 6)

Fire protection acc. to NF:

Classification	NF F 16-101: Internal Category A1, A2, B External Category A1, A2, B Category C for flame propagation Category F1 for smoke
Flammability	acc. to NF C 32-070, Category C1 and C2
Smoke density	acc. to NF X 10-702
Toxicity	acc. to NF X 70-100

Creator: KASC/PDC	Document: DB15361000EN	Page 2 of 3
Released: ALTE/PDC	Version: 08	

15361000	DATA SHEET	
valid from 2025-04-08	ÖLFLEX® TRAIN 361 1,8 kV	

Material properties

Ozone resistance	acc. to EN 50264-3-1, method B acc. to EN 50305
Mineral oil resistance	acc. to EN 50264-3-1
Fuel resistance	acc. to EN 50264-3-1
Acid and alkali resistance	acc. to EN 50264-3-1
UV resistance	Acc. to EN 50525-1 are cables with black sheath suitable for a permanent outdoor use.
Tests	acc. to EN 50264-3-1
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

Art. No.	Conductor cross section [mm²]	Max. wire ø [mm]	Max. conductor resistance (20°C) [Ohm/km]	Conductor ø reference value [mm]	Core ø [mm]	Fire load reference value [KJ/m]	Weight [kg/km]
15361000	1.5	0.26	13.7	1.6	5.5 ±0.2	536	48
15361001	2,5	0.26	8.21	2.0	6.0 ±0.2	604	61
15361002	4	0.31	5.09	2.7	6.5 ±0.2	680	80
15361003	6	0.31	3.39	3.2	7.2 ±0.2	768	105
15361004	10	0.41	1.95	4.2	8.1 ±0.2	917	153
15361005	16	0.41	1.24	5.2	9.3 ±0.2	1140	224
15361006	25	0.41	0.795	6.5	10.6 ±0.3	1340	323
15361007	35	0.41	0.565	7.7	11.8 ±0.3	1539	431
15361008	50	0.41	0.393	9.7	13.5 ±0.3	1818	592
15361009	70	0.51	0.277	11.4	15.2 ±0.3	2096	801
15361010	95	0.51	0.210	13.4	17.5 ±0.3	2649	1076
15361011	120	0.51	0.164	15.0	19.0 ±0.3	2866	1329
15361012	150	0.51	0.132	17.0	20.8 ±0.3	3143	1634
15361013	185	0.51	0.108	18.5	22.8 ±0.3	3813	2011
15361014	240	0.51	0.0817	22.0	25.6 ±0.4	4317	2571
15361015	300	0.51	0.0654	23.2	27.8 ±0.4	4789	3176

Creator: KASC/PDC Released: ALTE/PDC	Document: DB15361000EN Version: 08	Page 3 of 3
---	---------------------------------------	-------------

We reserve all rights according to DIN ISO 16016.

PDC 0019/06_03.23EN