

15382040	DATA SHEET	
Valid from: 10.12.2018	ÖLFLEX® TRAIN HT 150 FF 1,8kV	

Application

ÖLFLEX® TRAIN HT 150 FF 1,8kV are single core silicone rubber insulated high temperature cables for railway rolling stock, having special fire performance.

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 HT 150 FF 1,8kV are ozone-, oil-, acid and alkali-resistant according to EN 50382-2.

Application range:

Railway vehicles: Wiring of control cabinets, distributors, converters, motors and batteries

Design

Design/type-standard	according to EN 50382-2, 1800V, code designation FF FF = low temperature resistant, oil-resistant
Classification	EN 45545-2: Hazard Level HL1, HL2, HL3
Conductor	fine wire strands of tinned copper acc. to IEC/EN 60228 resp. VDE 0295, Class 5
Separator	semi-conductive tape, black
Core insulation	silicone compound type EI 111 according to EN 50382-2
Core identification	white
Sheath	silicone compound type EM 107 according to EN 50382-2, black

Electrical properties

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	core / core: 6,5 kV AC; 15 kV DC

Mechanical and thermal properties

Min. bending radius	fixed installation: 3 x cable diameter occasional flexing: 5 x cable diameter
Temperature range	-40 °C to +150 °C max. conductor temperature
Short circuit temperature	max. +250°C (5s)

Fire protection according to EN 50382-2 / EN 45545:

Classification	EN 45545-2: Hazard Level HL1, HL2, HL3
Flammability	acc. to EN 60332-1-2 resp. VDE 0482-332-1-2
No flame propagation acc. to	≥ 12 mm: EN 60332-3-24 / VDE 0482-332-3-24 > 6 mm and < 12mm: EN 60332-3-25 / VDE 0482-332-3-25

AbN
automation

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Smoke density	acc. to EN 50382-1, light transmission: min. 70% acc. to IEC/EN 61034-2
Halogen-free	acc. to IEC/EN 60754-1 (chlorine and bromine) acc. to EN 60684-2 (fluorine)
Corrosivity	acc. to EN 50382-1: pH ≥ 4.3 and conductivity ≤ 10µS/mm acc. to IEC/EN 60754-2
Toxicity	acc. to EN 50382-1 (≤ 3) acc. to EN 50305

Material properties

Ozone resistance	acc. to EN 50382-2 / EN 50305
Mineral oil resistance	acc. to EN 50382-2 / EN 60811-2-1
Acid and alkali resistance	acc. to EN 50382-2 / EN 60811-2-1
Tests	acc. to EN 50382-2

Article number	Conductor cross section [mm²]	Max. wire ø [mm]	Max. DC conductor resistance (20°C) [Ohm/km]	Conductor ø reference value [mm]	Outer ø min. – max. [mm]	Weight [kg/km]
15382040	1,5	0,26	13,7	1,5	6,8 - 7,9	63
15382041	2,5	0,26	8,21	2,0	7,2 - 8,4	76
15382042	4	0,31	5,09	2,5	7,7 - 9,0	93
15382043	6	0,31	3,39	3,0	8,2 - 9,6	115
15382044	10	0,41	1,95	3,9	9,4 - 11,0	168
15382045	16	0,41	1,24	5,0	10,5 - 12,2	236
15382046	25	0,41	0,795	6,4	12,3 - 14,4	339
15382047	35	0,41	0,565	7,7	13,6 - 15,9	432
15382048	50	0,41	0,393	9,2	15,0 - 17,5	583
15382049	70	0,51	0,277	11,0	16,8 - 19,7	780
15382050	95	0,51	0,210	12,5	19,0 - 22,2	1039
15382051	120	0,51	0,164	14,2	20,8 - 24,3	1276
15382052	150	0,51	0,132	15,8	22,3 - 26,1	1539
15382053	185	0,51	0,108	17,5	24,5 - 28,6	1871
15382054	240	0,51	0,0817	20,1	27,1 - 31,7	2417
15382055	300	0,51	0,0654	22,5	29,5 - 34,6	2760
15382056	400	0,51	0,0486	25,8	33,2 - 38,9	3620

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