

15382020	<b>DATA SHEET</b>	
Valid from: 10.12.2018	<b>ÖLFLEX® TRAIN HT 150 F 3,6kV</b>	

## Application

ÖLFLEX® TRAIN HT 150 F 3,6kV 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 F 3,6kV 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, 3600V, code designation F F = 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	black

## Electrical properties

Nominal voltage	$U_0/U$ : 3,6/6 kV AC
Max. permissible operating voltage	$U_m$ : 7,2 kV AC $V_0$ : 5,4 kV DC
Test voltage	core / core: 11 kV AC; 26 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	$\geq 12$ mm: EN 60332-3-24 / VDE 0482-332-3-24 > 6 mm and < 12mm: EN 60332-3-25 / VDE 0482-332-3-25
Smoke density	acc. to EN 50382-1, light transmission: min. 70% acc. to IEC/EN 61034-2

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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 [mm <sup>2</sup> ]	Max. wire ø [mm]	Max. DC conductor resistance (20°C) [Ohm/km]	Conductor ø reference value [mm]	Core ø min. – max. [mm]	Weight [kg/km]
15382020	2,5	0,26	8,21	2,0	7,6 - 8,9	84
15382021	4	0,31	5,09	2,5	8,1 - 9,5	102
15382022	6	0,31	3,39	3,0	9,0 - 10,6	124
15382023	10	0,41	1,95	3,9	9,5 - 11,1	170
15382024	16	0,41	1,24	5,0	10,5 - 12,3	241
15382025	25	0,41	0,795	6,4	11,8 - 13,8	329
15382026	35	0,41	0,565	7,7	13,0 - 15,2	422
15382027	50	0,41	0,393	9,2	14,4 - 16,9	571
15382028	70	0,51	0,277	11,0	16,1 - 18,9	760
15382029	95	0,51	0,210	12,5	17,5 - 20,5	984
15382030	120	0,51	0,164	14,2	19,3 - 22,6	1216
15382031	150	0,51	0,132	15,8	20,8 - 24,4	1474
15382032	185	0,51	0,108	17,5	22,6 - 26,5	1810
15382033	240	0,51	0,0817	20,1	25,4 - 29,8	2326
15382034	300	0,51	0,0654	22,5	27,7 - 32,4	2780
15382035	400	0,51	0,0486	25,8	30,8 - 36,0	3610

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