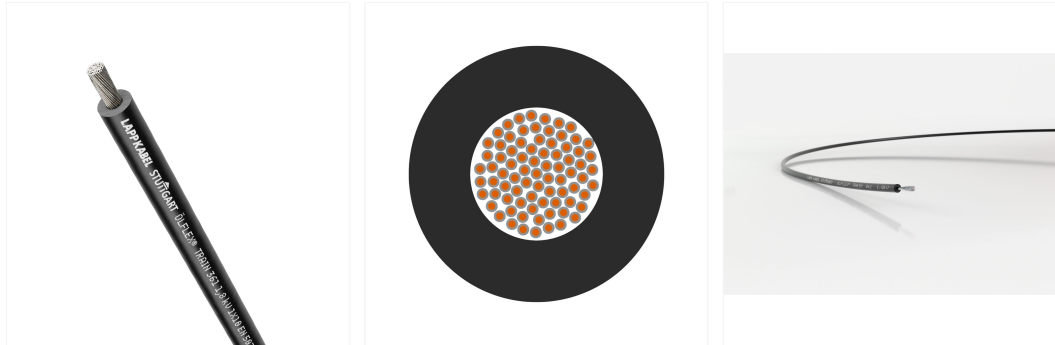


## ÖLFLEX® TRAIN 361 1,8kV 1X1,5 BK

**Article No.:** 15361000

Railway cable; 1X1.5; EN 50264-3-1; Type M;  $U_0/U$ : 1.8/3 kV; -40 - 120 °C; Electron-beam cross-linked polymer compound; ; black



### Details

#### Benefits

- For the protection of people and property.
- Compliant with standards for use in railway vehicles: fire safety and cable design requirements according to DIN EN 50264-3-1, type M; fire behavior test according to DIN EN 45545-2, hazard levels HL1, HL2 and HL3.
- Fire behavior also certified in accordance with NF testing standards from AFNOR (depending on the item, see Technical Data).
- Electron beam cross-linked insulating material enables use at very low and high temperatures (see technical data).
- Halogen free and highly flame retardant materials reduce the risk of flame propagation, high smoke density and toxic flue gases in the event of a fire.

#### Application

- Wide range of uses in railway vehicles.
- Typical areas of application are heaters, switchgear, connection boxes, lighting, etc.
- Can be used in dry, damp and, especially, harsh and oily environments.
- The electron beam cross-linked polymer compound is highly resistant to oils, fuels, alkaline solutions and acids.
- Suitable for outdoor use.

#### Notes

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

### Remarks

### Technical Data

#### General information

Brand	ÖLFLEX®
Product type	Railway cable
Copper index	96.77 lb/10000 ft
Industry segment	Rolling Stock

#### Electrical parameters

Nominal voltage	$U_0/U$ : 1.8/3 kV AC rms according to IEC
Maximum operating voltage $U_m$	3,6 kV AC
test voltage	6.5 kV
Current rating according to	EN 50355
Short-circuit temperature [5s]	200 °C

#### Product design

Type designation for rolling stock cables	Type M
Cable dimension	1X1.5
Nominal cross section conductor (mm <sup>2</sup> )	1.5 mm <sup>2</sup>
Conductor material	Tin-plated Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	No

Number of cores	1
Shielded	No
Nominal conductor diameter	0.22 in
Cable form	Round
Core insulation base material	Electron-beam cross-linked polymer compound
Conductor wrapping	Special tape
Single core color	black
Single conductor identification	Single-colored

**Product features**

Application area	Fixed Installation
Minimum bending radius, stationary	4 x outer diameter
Temperature, fixed installation	-40 °C to 120 °C max. conductor temperature -50 °C according to GOST
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2 EN 50305 NF-C 32-070 (C1) NF-C 32-070 (C2) NF-F 16-101 (A1) NF-F 16-101 (A2) NF-F 16-101 (B) NF-F 16-101 (C)
low smoke density according to	EN 50306-1 IEC 61034-2 NF X 10-702
low toxicity of combustion gases	EN 50264-1 EN 50305 NF X 70-100
Corrosiveness of combustion gases according to	EN 50306-1 IEC 60754-2
UV-resistant	Yes
UV-resistant according to	EN 50525-1 (cables with a black jacket are suitable for permanent outdoor use)
Ozone-resistant	Yes

ozone resistant according to	EN 50264-3-1, method B
Chemical resistant	Yes
Acid-resistant	Yes
Acid-resistant according to	EN 50264-3-1
Alkali resistant	Yes
Alkali-resistant according to	EN 50264-3-1
Halogenfree	Yes
Halogen-free according to	IEC 60754-1 EN 60684-2
Oil resistant	Yes
Oil resistance according to	EN 50264-3-1
Fuel-resistant	Yes
Fuel-resistant according to	EN 50264-3-1
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L

#### Certifications and standards

CE marking	No
EAC certified	Not required
EAC certification number	Отказное письмо № 62, 04276
VDE certified	No
Resistance to flame propagation tested according to UN/ECE-R118	No
Tested for fire protection for railway vehicles	Yes
Fire protection for railway vehicles hazard level	EN 45545-2 HL1 EN 45545-2 HL2 EN 45545-2 HL3
Standard for railway vehicles	EN 50264-3-1

**ÖLFLEX® TRAIN 361 1,8kV**

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Nominal conductor diameter	Copper index
15361000	ÖLFLEX® TRAIN 361 1,8kV 1X1,5 BK	1.5 mm <sup>2</sup>	0.22 in	96.77 lb/10000 ft
15361001	ÖLFLEX® TRAIN 361 1,8kV 1X2,5 BK	2.5 mm <sup>2</sup>	0.236 in	161.28 lb/10000 ft
15361002	ÖLFLEX® TRAIN 361 1,8kV 1X4 BK	4 mm <sup>2</sup>	0.264 in	258.04 lb/10000 ft
15361003	ÖLFLEX® TRAIN 361 1,8kV 1X6 BK	6 mm <sup>2</sup>	0.283 in	387.06 lb/10000 ft
15361004	ÖLFLEX® TRAIN 361 1,8kV 1X10 BK	10 mm <sup>2</sup>	0.323 in	645.09 lb/10000 ft
15361005	ÖLFLEX® TRAIN 361 1,8kV 1X16 BK	16 mm <sup>2</sup>	0.362 in	1032.15 lb/10000 ft
15361006	ÖLFLEX® TRAIN 361 1,8kV 1X25 BK	25 mm <sup>2</sup>	0.413 in	1612.73 lb/10000 ft
15361007	ÖLFLEX® TRAIN 361 1,8kV 1X35 BK	35 mm <sup>2</sup>	0.461 in	2257.83 lb/10000 ft
15361008	ÖLFLEX® TRAIN 361 1,8kV 1X50 BK	50 mm <sup>2</sup>	0.539 in	3225.42 lb/10000 ft
15361009	ÖLFLEX® TRAIN 361 1,8kV 1X70 BK	70 mm <sup>2</sup>	0.606 in	4515.65 lb/10000 ft
15361010	ÖLFLEX® TRAIN 361 1,8kV 1X95 BK	95 mm <sup>2</sup>	0.701 in	6128.39 lb/10000 ft
15361011	ÖLFLEX® TRAIN 361 1,8kV 1X120 BK	120 mm <sup>2</sup>	0.764 in	7741.12 lb/10000 ft
15361012	ÖLFLEX® TRAIN 361 1,8kV 1X150 BK	150 mm <sup>2</sup>	0.843 in	9676.4 lb/10000 ft
15361013	ÖLFLEX® TRAIN 361 1,8kV 1X185 BK	185 mm <sup>2</sup>	0.917 in	11934.23 lb/10000 ft

V1.1