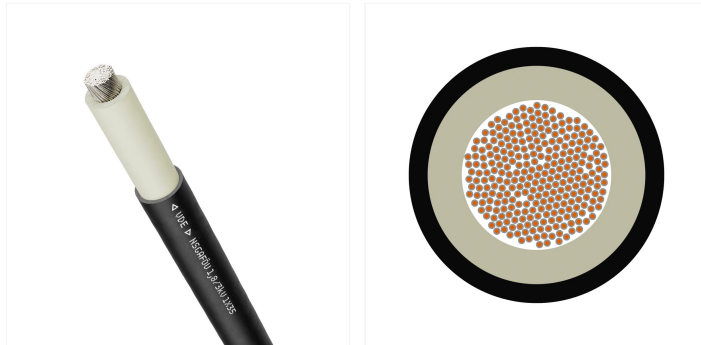


**NSGAFÖU 1,8/3kV 1X10****Article No.:** 1600304Power and control cable; 1X10; VDE certified;  $U_0/U$ : 1.8/3 kV; Fixed Installation**Details****Benefits**

- Cable certified in accordance with VDE type NSGAFÖU, with <VDE> testing mark for proven reliability and quality.
- Suitable for short circuit- and short-to-ground-proof installation up to 1000 V due to high mechanical strength.

**Application**

- For wiring circuits inside machines.
- Suitable for wiring inside control cabinets.
- Compliant with standards for use in railway vehicles and buses.
- Suitable for use in AC and DC charging infrastructures for electromobility.
- For fixed installation in ducts and closed installation channels.
- Can be used in dry and oily environments.
- Flexible use at temperatures down to -25°C.

**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.

Trade product, not a LAPP product.

**Remarks**

Trade product, not a LAPP product.

Technical Data

**General information**

Product type	Power and control cable
Copper index	645 lb/10000 ft
Industry segment	Assembly Machines Automotive Construction Machinery Energy Heating, Ventilation, Air Conditioning & Refrigeration Intralogistics & Material handling Lifts & Elevators Machine Tools Process Industry Rolling Stock Ships & boats Solar

**Electrical parameters**

Nominal voltage	$U_0/U$ : 1.8/3 kV AC rms according to IEC
test voltage	6 kV
Current rating according to	VDE 0298-4

**Product design**

N-german standard cables	NSGAFÖU 1.8/3 kV
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Cable dimension	1X10
Nominal cross section conductor (mm <sup>2</sup> )	10 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
Max. outer diameter	0.433 in
Cable form	Round
Core insulation base material	Rubber
Insulation color	natural
base material coating	Rubber

**Product features**

Application area	Fixed Installation
For torsional load	No
Protected against short circuits and earth faults	Yes
Minimum bending radius, stationary	6 x outer diameter
Minimum bending radius in inch, fixed installation	2.598 in
Minimum bending radius, occasionally moved	10 x outer diameter
Minimum bending radius in mm, occasionally moved	4.331 in
Temperature, fixed installation	-40 °C to 90 °C max. conductor temperature
Installation temperature min.	-25 °C
Max. assembly temperature	80 °C
Storage temperature max.	-25 °C
Storage temperature maximum	80 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2
UV-resistant	Yes
weather resistant	No

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Ozone-resistant	No
Halogenfree	No
Oil resistant	Yes
Oil resistance according to	VDE 0207-21
PWIS-free	No
Permanently immersible in water	No

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**Certifications and standards**

CE marking	No
EAC certified	Yes
EAC certification number	RU C-DE.ПБ74.B.00314/21
UL recognized	No
UL listed	No
cUR recognized	No
cUL listed	No
CSA certified	No
VDE certified	Yes
Product standard VDE	VDE 0250-602
HAR-certified	No
CPR fire class	Eca
Resistance to flame propagation tested according to UN/ECE-R118	No

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**NSGAFÖU 1,8/3 kV**

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Min. outer diameter	Max. outer diameter	Copper index
1600300	NSGAFÖU 1,8/3kV 1X1,5	1.5 mm <sup>2</sup>		0.276 in	96.75 lb/10000 ft
1600301	NSGAFÖU 1,8/3kV 1X2,5	2.5 mm <sup>2</sup>		0.295 in	161.25 lb/10000 ft
1600302	NSGAFÖU 1,8/3kV 1X4	4 mm <sup>2</sup>		0.354 in	258 lb/10000 ft
1600303	NSGAFÖU 1,8/3kV 1X6	6 mm <sup>2</sup>		0.374 in	387 lb/10000 ft
1600304	NSGAFÖU 1,8/3kV 1X10	10 mm <sup>2</sup>		0.433 in	645 lb/10000 ft
1600305	NSGAFÖU 1,8/3kV 1X16	16 mm <sup>2</sup>		0.512 in	1032 lb/10000 ft
1600306	NSGAFÖU 1,8/3kV 1X25	25 mm <sup>2</sup>		0.591 in	1612.6 lb/10000 ft
1600307	NSGAFÖU 1,8/3kV 1X35	35 mm <sup>2</sup>		0.65 in	2257.6 lb/10000 ft
1600308	NSGAFÖU 1,8/3kV 1X50	50 mm <sup>2</sup>		0.709 in	3225.1 lb/10000 ft
1600309	NSGAFÖU 1,8/3kV 1X70	70 mm <sup>2</sup>		0.807 in	4515.2 lb/10000 ft
1600310	NSGAFÖU 1,8/3kV 1X95	95 mm <sup>2</sup>		0.945 in	6127.7 lb/10000 ft
1600311	NSGAFÖU 1,8/3kV 1X120	120 mm <sup>2</sup>		1.024 in	7740.3 lb/10000 ft
1600312	NSGAFÖU 1,8/3kV 1X150	150 mm <sup>2</sup>		1.102 in	9675.4 lb/10000 ft
1600313	NSGAFÖU 1,8/3kV 1X185	185 mm <sup>2</sup>		1.22 in	11932.9 lb/10000 ft
1600314	NSGAFÖU 1,8/3kV 1X240	240 mm <sup>2</sup>		1.358 in	15482.16 lb/10000 ft
3026826	NSGAFÖU 1,8/3kV 1X300	300 mm <sup>2</sup>		1.496 in	19350.7 lb/10000 ft

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