



## NSHXAFÖ 1.8/3 kV

Halogen-free, flexible single-core rubber cable for public transport and wiring



**Info**

- Public transport
- Control panel internal wiring
- Halogen-free

**Benefits**

- Arrangements made of single-conductor cables NSHXAFö in accordance with VDE 0250 Part 606 with nominal voltage of at least U<sub>0</sub>/U: 1.8/3 kV can be used for short circuit-proof and short-to-ground-proof installation up to 1000 V in acc. with VDE 0100 Part 520 and VDE 0298 Part 3

**Application range**

- Wiring of machines, tools, devices, appliances and control cabinets
- Railway vehicles, buses, switching stations (short-circuit-proof up to 1000 V), power distributors (short-circuit-proof up to 1000 V)
- No direct burial, except of lead-through through fire separations such as sand cups
- In ducts, tubes, pipes, conduits and closed installation channels
- Bundled or for connection of movable parts

**Product features**

- Halogen-free: to protect human life and valuable assets in the event of a fire, through low smoke density and low amount of corrosive gases
- Flame-retardant according IEC 60332-1-2
- Normative rated voltage classes U<sub>0</sub>/U 0.6/1 kVAc and 3.6/6 kVAc available on request

**Norm references / Approvals**

- <VDE> certification according to the VDE cable type NSHXAFÖ 1,8/3 kV acc. VDE 0250-606

**Product make-up**

- Fine copper wire strands
- Core insulation: halogen-free rubber compound type 3GI3, according to DIN VDE 0207-20
- Outer sheath: halogen-free HM3 polymer compound according to DIN VDE 0250-606
- No outer sheath

**Technical data**

**Classification**  
 ETIM 5.0 Class-ID: EC000993  
 ETIM 5.0 Class-Description: Single core cable

**Conductor stranding**  
 Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5

**Minimum bending radius**  
 Flexible use: 10 x outer diameter  
 Fixed installation: 6 x outer diameter

**Nominal voltage**  
 U<sub>0</sub>/U: 1.8/3 kV

**Test voltage**  
 6000 V

**Temperature range**  
 Flexing: -5°C to +90°C  
 Fixed installation: -25°C to +90°C

Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3022673	1.5	7.0	14.4	60
3022674	2.5	7.5	24.0	70
3022675	4	9.0	38.4	90
3022676	6	9.5	57.6	120
3022677	10	11.0	96.0	180
3022678	16	13.0	153.6	250
3022679	25	15.0	240.0	390
3022680	35	16.5	336.0	470
3022681	50	18.0	480.0	625
3022682	70	20.5	672.0	880
3022683	95	24.0	912.0	1190
3022684	120	26.0	1,152.0	1430
3022685	150	28.0	1,440.0	1750
3022686	185	31.0	1,776.0	2160
3022687	240	34.5	2,304.0	2718
3022688	300	38.0	2,880.0	3470

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
 Photographs are not to scale and do not represent detailed images of the respective products.

**Accessories**

- V 1311 pressing pliers, hydraulic refer to page 934
- KS 20 cable shears refer to page 908