

3022673	DATA SHEET	
valid from: 2026-06-16	NSHXAFÖ 1,8/3 kV	

Application

NSHXAFÖ 1,8/3 kV cables are designed for use in rail-borne vehicles and buses (not EN compliant), as well as in dry rooms. They are suitable for high voltage. Continuous, busy movements, usage of these cables in moving cable carriers, respectively on motor drum guidance or under a strain of more than 15 N/mm² is not allowed. Acc. To VDE 0298-3, cables with nominal voltage U₀/U of at least 1.8 / 3 kV can be used for short circuit-proof and short-to-ground-proof installation up to 1000 V.

Design

Design	acc. to VDE 0250-606
Certification	NSHXAFÖ acc. to VDE 0250-606
	Classification of fire behaviour according to EN 13501-6 and EN 50575 (article/dimension range see www.lappkabel.com/cpr)
Conductor	tinned copper, fine wire stranding acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	halogen free, extruded rubber compound 3GI3 acc. to VDE 0207-20, colour nature outer coating (no sheath): halogen free polymer compound HM3 acc. to VDE 0207-24 colour: black

Electrical properties at 20 °C

Nominal voltage	1.8 / 3.0 kV
Test voltage	6000 V AC

Mechanical and thermal properties

Minimum bending radius	acc. to VDE 0298-3 fixed installation: 6 x outer diameter moved freely: 10 x outer diameter
Temperature range	at the conductor max. operating temperature: +90 °C at the surface fixed installation: -40 °C to +90 °C during installation: -25 °C to +70 °C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Halogen free	acc. to VDE 0472-813
Corrosivity of gases	acc. to VDE 0472-813
Smoke density	acc. to VDE 0472-816
Ozone resistance	acc. to VDE 0472-805, test method B
Oil resistance	acc. to VDE 0207-24
Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
General requirements	A part of these cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).
Note	Trade product, no LAPP product

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