

## NSHXAFÖ 3kV Halogen-Free Single



**NSHXAFÖ** is a VDE-approved, 1.8/3kV, halogen-free polymer insulated, black halogen-free jacketed single conductor. This oil-resistant and flame-retardant cable is particularly suitable for protection against short circuits in laying and for inherently earth-fault-proof routing in trains and buses. **NSHXAFÖ** is considered to be short-circuit-proof in switching equipment and distributors up to 1000 volt. Also suitable for laying in dry environments. Maximum permissible operating voltage for three and one-phase alternating current operation  $U_o/U$  is 2.1/3.6kV. For direct current operation  $U_o/U$  is 2.7/5.4kV.



### Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC-60228 CL-5
- EPR Rubber (3GI3) core insulation
- Halogen-free polymer (GM3) outer jacket
- Black (RAL 9005)
- **Oil & chemical resistant**

### Technical:

- Working voltage: 1800/ 3000 volts
- Test voltage: 6000 volts
- Flexing bending radius:  $10 \times \varnothing$
- Static bending radius:  $6 \times \varnothing$
- Flexing temp:  $-5^\circ \text{C}$  to  $+100^\circ \text{C}$
- Static temp:  $-25^\circ \text{C}$  to  $+100^\circ \text{C}$
- Flame retardant: IEC 60332.1
- Insulation resistance:  $> 20 \text{ M}\Omega \times \text{km}$

### Approvals:

- VDE-0250 Part-606
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm <sup>2</sup> 7821601	1	.276" / 7.0mm	9	44
14 AWG (50/30) 2,50mm <sup>2</sup> 7821401	1	.295" / 7.5mm	16	50
12 AWG (56/28) 4,0mm <sup>2</sup> 7821201	1	.354" / 9.0mm	25	64
10 AWG (84/28) 6,0mm <sup>2</sup> 7821001	1	.374" / 9.5mm	38	77
8 AWG (80/26) 10,0mm <sup>2</sup> 7820801	1	.433" / 11.0mm	64	124
6 AWG (128/26) 16,0mm <sup>2</sup> 7820601	1	.512" / 13.0mm	103	174
4 AWG (200/26) 25,0mm <sup>2</sup> 7820401	1	.591" / 15.0mm	161	265
2 AWG (280/26) 35,0mm <sup>2</sup> 7820201	1	.650" / 16.5mm	225	319
1 AWG (400/26) 50,0mm <sup>2</sup> 7820101	1	.709" / 18.0mm	322	423
2/0 AWG (356/24) 70,0mm <sup>2</sup> 7822101	1	.807" / 20.5mm	451	597
3/0 AWG (485/24) 95,0mm <sup>2</sup> 7823101	1	.945" / 24.0mm	612	798
4/0 AWG (514/24) 120,0mm <sup>2</sup> 7824101	1	1.024" / 26.0mm	775	966
300 MCM (765/24) 150,0mm <sup>2</sup> 7823001	1	1.102" / 28.0mm	966	1184
350 MCM (944/24) 185,0mm <sup>2</sup> 7823501	1	1.220" / 31.0mm	1191	1449
500MCM (1225/24) 240,0mm <sup>2</sup> 7825001	1	1.358" / 34.5mm	1546	1828
600MCM (1530/24) 300,0mm <sup>2</sup> 7826001	1	1.496" / 38.0mm	1932	2327

\* Additional sizes may be available.