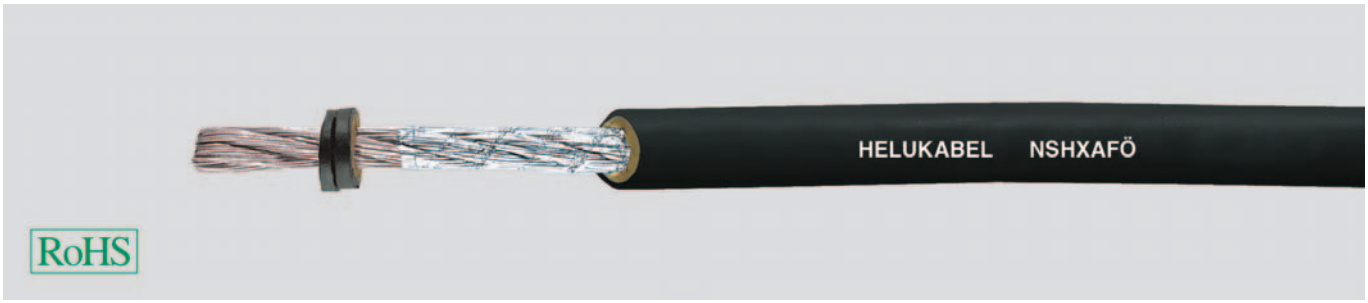
NSHXAFö 3kV halogen-free Special Rubber-Insulated Cable, VDE approved, short-circuit up to 1000 V



Technical data

- Special rubber core cable acc. to E DIN VDE 0250 part 606
- **Temperature range** flexing -25°C to +70°C fixed installation -40°C to +90°C
- Permissible **operating temperature** at conductor +90°C
- **Nominal voltage** U_0/U 1,8/3 kV
- Highest permissible **operating voltage** in three-phase and one-phase a.c. systems U_0/U 2,1/3,6 kV in d.c. systems U_0/U 2,7/5,4 kV
- **Test voltage** 6 kV
- **Minimum bending radius** flexing 10x outer Ø fixed 6x outer Ø

Cable structure

- Tinned copper conductor, fine wire to DIN VDE 0295 cl.5, BS 6360 cl.5 and/or IEC 60228 cl.5
- EPR-insulation, 3GI3 acc. to DIN VDE 0207 part 20
- Outer casing: halogen-free polymer compound HM3 acc. to DIN VDE 0207 part 24
- Colour black

Properties

Tests

- Corrosiveness of corrosive gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 607542 (equivalent DIN VDE 0472 part 813)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (equivalent DIN VDE 0472 part 816)
- Oil resistant acc. to DIN VDE 0473-811-404, DIN EN 60811-404
- Behaviour in fire to DIN VDE 0482-332-1-2 DIN EN 60332-2-1, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

Particularly suitable for protection against short circuits in laying and for inherently earth-fault-proof routing in rail vehicles and omnibuses. Also suitable for laying in dry environments. In switching units and distributors, they are considered to be short circuit and inherently earth proof to 1000 V. Note: Considered as being short-circuit safe and inherently earth-fault-proof are those operating materials and conducting assemblies where because of suitable measures and/or means applied, neither a short circuit nor a short to ground is to be expected under operating conditions which are in accordance with those specified for the intended application.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
38517	1 x 1,5	5,9	14,4	62,0	16
38518	1 x 2,5	6,2	24,0	76,0	14
38519	1 x 4	6,8	38,0	95,0	12
38520	1 x 6	7,4	58,0	140,0	10
38521	1 x 10	8,7	96,0	190,0	8
38522	1 x 16	9,5	154,0	270,0	6
38523	1 x 25	11,9	240,0	410,0	4
38524	1 x 35	13,1	336,0	490,0	2

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
38525	1 x 50	14,5	480,0	650,0	1
38526	1 x 70	16,3	672,0	900,0	4
38527	1 x 95	19,2	912,0	1200,0	3/0
38528	1 x 120	21,0	1152,0	1450,0	4/0
38529	1 x 150	22,8	1440,0	1800,0	300 kcmil
38530	1 x 185	24,8	1776,0	2200,0	350 kcmil
38531	1 x 240	27,1	2304,0	2650,0	500 kcmil
38532	1 x 300	30,3	2880,0	3250,0	600 kcmil

Dimensions and specifications may be changed without prior notice. (RK01)

Suitable accessories can be found in Chapter X.

- Core end sleeve - ADI
- Core end sleeve - ADU