

NSHXAFÖ 3 kV

halogen-free Special Rubber-Insulated Cable, 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 conductor **operating temperature** +90°C
- **Nominal voltage**
U₀/U 1,8/3 kV
- Max. permissible **operating voltage**
- in three-phase and one-phase a.c. systems U₀/U 2,1/3,6 kV
- in d.c. systems U₀/U 2,7/5,4 kV
- **Test voltage**
6 kV
- **Minimum bending radius**
flexing 10x outer Ø
fixed installation 6x outer Ø

Cable structure

- Tinned copper conductor, to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5
- EPR-insulation, compound type 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 combustion gases acc. to DIN VDE 0482-754-2, DIN EN 60754-2, IEC 60754-2
- 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
- Oil resistant acc. to DIN VDE 0473-811-404, DIN EN 60811-404
- Behaviour in fire acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2

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.
- 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.

Part no.	No. cores x cross-sec. mm ²	Outer Ø max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
38517	1 x 1,5	7,0	14,4	62,0	16
38518	1 x 2,5	7,5	24,0	76,0	14
38519	1 x 4	9,0	38,0	95,0	12
38520	1 x 6	9,5	58,0	140,0	10
38521	1 x 10	11,0	96,0	190,0	8
38522	1 x 16	13,0	154,0	270,0	6
38523	1 x 25	15,0	240,0	410,0	4
38524	1 x 35	16,5	336,0	490,0	2

Part no.	No. cores x cross-sec. mm ²	Outer Ø max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
38525	1 x 50	18,0	480,0	650,0	1
38526	1 x 70	20,5	672,0	900,0	2/0
38527	1 x 95	24,0	912,0	1200,0	3/0
38528	1 x 120	26,0	1152,0	1450,0	4/0
38529	1 x 150	28,0	1440,0	1800,0	300 kcmil
38530	1 x 185	31,0	1776,0	2200,0	350 kcmil
38531	1 x 240	34,5	2304,0	2650,0	500 kcmil
38532	1 x 300	38,0	2880,0	3250,0	600 kcmil

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