NSHXAFÖ 1,8/3 kV

short-circuit and earth-fault proof up to 1000 V, oil resistant, for increased mechanical stress



TECHNICAL DATA

Rubber sheathed single core cable acc. to E DIN VDE 0250-606

Temperature range	flexible -25°C to +70°C fixed -40°C to +90°C
Permissible operating temperature of the conductor	+90°C
Nominal voltage	AC U_0/U 1800/3000 V
Max. permissible operating voltage	alternating current (AC) conductor/earth 2100 V three-phase alternating current (AC) conductor/conductor 3600 V direct current (DC) conductor/earth 2700 V direct current (DC) conductor/conductor 5400 V
Test voltage	6000 V
Minimum bending radius	flexible 10x Outer-Ø fixed 6x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: rubber (EPR) acc. to DIN VDE 0207-20 (compound type 3GI3)
- x = without protective conductor
- Outer cladding: halogen-free polymer acc. to DIN VDE 0207-24 (compound type HM3)
- Colour: black

PROPERTIES

- resistant to: oil
- halogen-free

TESTS

- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404

APPLICATION

For use in rail vehicles and buses, as well as in dry rooms. The cable is short-circuit and earth-fault proof in switchgear and distribution boards up to 1000 V. Normative permissible laying types are: in pipes, closed installation ducts, for connecting moving parts, device wiring and bundled. Not for use on cable ladders and cable trays.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer-Ø max. mm	Cu-weight kg/km	Weight kg/km, approx.
38517	1 x 1.5	16	7.0	14.4	62.0
38518	1 x 2.5	14	7.5	24.0	76.0
38519	1 x 4	12	9.0	38.0	95.0
38520	1 x 6	10	9.5	58.0	140.0
38521	1 x 10	8	11.0	96.0	190.0
38522	1 x 16	6	13.0	154.0	270.0
38523	1 x 25	4	15.0	240.0	410.0
38524	1 x 35	2	16.5	336.0	490.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer-Ø max. mm	Cu-weight kg/km	Weight kg/km, approx.
38525	1 x 50	1	18.0	480.0	650.0
38526	1 x 70	2/0	20.5	672.0	900.0
38527	1 x 95	3/0	24.0	912.0	1200.0
38528	1 x 120	4/0	26.0	1152.0	1450.0
38529	1 x 150	300 kcmil	28.0	1440.0	1800.0
38530	1 x 185	350 kcmil	31.0	1776.0	2200.0
38531	1 x 240	500 kcmil	34.5	2304.0	2650.0
38532	1 x 300	600 kcmil	38.0	2880.0	3250.0

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