NSGAFÖU 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 DIN VDE 0250-602

Temperature range	flexible -25°C to +80°C fixed -40°C to +80°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: rubber (polychloropren) acc. to DIN VDE 0207-21 (compound type 5GM3)
- Colour: see table

PROPERTIES

- resistant to: oil

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- 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

Colour: black

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
38501	1 x 1.5	16	5.1 - 7.0	14.4	65.0
38502	1 x 2.5	14	5.6 - 7.5	24.0	80.0
38503	1 x 4	12	6.2 - 9.0	38.0	95.0
38504	1 x 6	10	6.7 - 9.5	58.0	110.0
38505	1 x 10	8	8.1 - 11.0	96.0	165.0
38506	1 x 16	6	9.1 - 13.0	154.0	235.0
38507	1 x 25	4	11.1 - 15.0	240.0	360.0
38508	1 x 35	2	12.3 - 16.5	336.0	460.0
38509	1 x 50	1	13.8 - 18.0	480.0	620.0
38510	1 x 70	2/0	15.5 - 20.5	672.0	820.0
38511	1 x 95	3/0	17.7 - 24.0	912.0	1070.0
38513	1 x 120	4/0	19.2 - 26.0	1152.0	1330.0
38514	1 x 150	300 kcmil	21.1 - 28.0	1440.0	1620.0
38512	1 x 185	350 kcmil	23.1 - 31.0	1776.0	1960.0
38515	1 x 240	500 kcmil	26.0 - 34.5	2304.0	2570.0
38516	1 x 300	600 kcmil	28.4 - 38.0	2880.0	3180.0

Colour: orange

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
17001252	1 x 1.5	16	5.1 - 7.0	14.4	65.0
710665	1 x 2.5	14	5.6 - 7.5	24.0	80.0
710666	1 x 4	12	6.2 - 9.0	38.0	95.0
710223	1 x 6	10	6.7 - 9.5	58.0	110.0
17000914	1 x 10	8	8.1 - 11.0	96.0	165.0
17000915	1 x 16	6	9.1 - 13.0	154.0	235.0
17000916	1 x 25	4	11.1 - 15.0	240.0	360.0
17000917	1 x 35	2	12.3 - 16.5	336.0	460.0
17000918	1 x 50	1	13.8 - 18.0	480.0	620.0
17000919	1 x 70	2/0	15.5 - 20.5	672.0	820.0
17000920	1 x 95	3/0	17.7 - 24.0	912.0	1070.0
17000921	1 x 120	4/0	19.2 - 26.0	1152.0	1330.0
17000922	1 x 150	300 kcmil	21.1 - 28.0	1440.0	1620.0
17000923	1 x 185	350 kcmil	23.1 - 31.0	1776.0	1960.0
17000924	1 x 240	500 kcmil	26.0 - 34.5	2304.0	2570.0
17001253	1 x 300	600 kcmil	28.4 - 38.0	2880.0	3180.0

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