

N2XSH



6/10 kV, 12/20 kV, 18/30 kV, Copper conductor, XLPE insulated, halogen-free outer sheath



TECHNICAL DATA

Medium voltage cable acc. to DIN VDE 0276-622, HD 622 S1

Temperature range	flexible -5°C to +70°C fixed -5°C to +70°C
Permissible operating temperature of the conductor	+90°C
Short circuit temperature at the conductor	+250°C (Short circuit temperature max. 5 s)
Nominal voltage	see table
Operating voltage	see table
Test voltage	see table
Minimum bending radius	15x Outer-Ø

CABLE STRUCTURE

- Copper conductor bare, stranded acc. to DIN VDE 0295 Class 2 / IEC 60228 Class 2
- Inner conductive layer
- Core insulation: XLPE acc. to HD 620 S2 (compound type DIX8)
- Outer conductive layer
- Conductive wrapping
- Screen: braiding of copper wires with one or two counter helix conductors
- Wrapping
- Outer sheath: halogen-free polymer
- Sheath colour: black

PROPERTIES

- halogen-free

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- 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
- bundle fire test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2

APPLICATION

Suitable for indoor installation and in cable ducts, outdoors and in the ground only as protected installation, as well as for installation on cable trays for industrial systems, switch-boards and power stations. Good laying properties favour laying even with difficult routing. The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assure a construction free of partial discharges with high operational reliability.

NOTES

- rm = round, stranded conductor
- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for maximum operational reliability, the core insulation and the outer conductive layer are simultaneously extruded and permanently welded together. For installation, a peeling tool is recommended.

6/10 kV

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Operating voltage ¹⁾ max. kV	Test voltage kV	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
11023707	1 x 35 rm / 16	2	12	21	23.0 - 28.0	518.0	900.0
11023708	1 x 50 rm / 16	1	12	21	24.0 - 29.0	662.0	1040.0
11023709	1 x 70 rm / 16	2/0	12	21	25.0 - 31.0	854.0	1260.0
11023710	1 x 95 rm / 16	3/0	12	21	26.0 - 32.0	1094.0	1540.0
11023711	1 x 120 rm / 16	4/0	12	21	28.0 - 34.0	1334.0	1790.0
11023712	1 x 150 rm / 25	300 kcmil	12	21	29.0 - 35.0	1723.0	2160.0
11023713	1 x 185 rm / 25	350 kcmil	12	21	31.0 - 37.0	2059.0	2530.0
11023714	1 x 240 rm / 25	500 kcmil	12	21	33.0 - 39.0	2587.0	3090.0
11023715	1 x 300 rm / 25	600 kcmil	12	21	36.0 - 41.0	3163.0	3680.0
11023716	1 x 400 rm / 35	750 kcmil	12	21	38.0 - 45.0	4234.0	4650.0
11023717	1 x 500 rm / 35	1000 kcmil	12	21	41.0 - 48.0	5194.0	5740.0

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12/20 kV

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Operating voltage ¹⁾ max. kV	Test voltage kV	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
11023718	1 x 35 rm / 16	2	24	42	27.0 - 32.0	518.0	1060.0
11023719	1 x 50 rm / 16	1	24	42	28.0 - 33.0	662.0	1210.0
11023720	1 x 70 rm / 16	2/0	24	42	30.0 - 35.0	854.0	1450.0
11023721	1 x 95 rm / 16	3/0	24	42	31.0 - 36.0	1094.0	1740.0
11023722	1 x 120 rm / 16	4/0	24	42	32.0 - 38.0	1334.0	2000.0
11023723	1 x 150 rm / 25	300 kcmil	24	42	33.0 - 39.0	1723.0	2370.0
11023724	1 x 185 rm / 25	350 kcmil	24	42	35.0 - 41.0	2059.0	2750.0
11021526	1 x 240 rm / 25	500 kcmil	24	42	38.0 - 44.0	2587.0	3330.0
11023726	1 x 300 rm / 25	600 kcmil	24	42	40.0 - 46.0	3163.0	3920.0
11023727	1 x 400 rm / 35	750 kcmil	24	42	43.0 - 49.0	4234.0	4920.0
11023728	1 x 500 rm / 35	1000 kcmil	24	42	46.0 - 52.0	5194.0	6020.0

18/30 kV

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Operating voltage ¹⁾ max. kV	Test voltage kV	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
11023729	1 x 50 rm / 16	1	36	63	32.0 - 38.0	662.0	1450.0
11023730	1 x 70 rm / 16	2/0	36	63	34.0 - 40.0	854.0	1690.0
11023731	1 x 95 rm / 16	3/0	36	63	35.0 - 41.0	1094.0	2000.0
11023732	1 x 120 rm / 16	4/0	36	63	37.0 - 43.0	1334.0	2270.0
11023733	1 x 150 rm / 25	300 kcmil	36	63	38.0 - 44.0	1723.0	2660.0
11023734	1 x 185 rm / 25	350 kcmil	36	63	40.0 - 46.0	2059.0	3040.0
11023735	1 x 240 rm / 25	500 kcmil	36	63	42.0 - 48.0	2587.0	3640.0
11023736	1 x 300 rm / 25	600 kcmil	36	63	45.0 - 51.0	3163.0	4250.0
11023737	1 x 400 rm / 35	750 kcmil	36	63	48.0 - 54.0	4234.0	5290.0
11023738	1 x 500 rm / 35	1000 kcmil	36	63	51.0 - 57.0	5194.0	6450.0

1) max. permissible operating voltage three-phase alternating current (AC) conductor/conductor