N2XS(FL)2Y

Longitudinally and transversely water-tight PE medium voltage cable with copper conductor

N2XS(FL)2Y, VDE, PE medium voltage cable acc. VDE 0276-620, with copper conductor, longitudinally and transversely water-tight, for fixed installation

Info

3 voltage classes: 6/10 (12) kV, 12/20 (24) kV, 18/30 (36) kV
With copper conductor

Suitable for outdoor use

Mechanical resistance

UV-resistant

Waterproof

Application range

Power and control cable for fixed installation in the following applications:
In water, in ground, outdoors and indoors
In cable trays for power stations, industry, and distribution networks
Also suitable for applications where longitudinal and transversal water propagation inside the cable should be avoided.
Burial without additional, suitable underground protection according to HD 620/VDE 0276-620 - Part 10-C (point 4): normal minimum installation depth 0.6 m, but at least 0.8 m under roads

Product features

Suitable for installation or operation under high mechanical stress due to the PE-sheath
Current rating according to HD 620/VDE 0276-620, Part 10-C, Table 7 (buried at +20 °C ground temperature according to HD 620/VDE 0276-620, Part 10-C, point 5) for routing underground and Table 8 (in the air at an air temperature of +30 °C according to HD 620/VDE 0276-620, Part 10-C, point 5) when used outdoors; but always taking into consideration corrections/reductions to the

©2025 Lapp Group - Technical changes reserved

N2XS(FL)2Y

current rating that may be necessary according to VDE 0298-4, and VDE 0298-4 (also refer to the catalogue appendix T12) for installation in and on buildings

Norm references / Approvals

HD 620/ VDE 0276-620

Product Make-up

Copper conductor
Abbreviation "rm":
r = round conductor form;
m = multi-wire conductor
Core insulation: Cross-linked Polyethylen (XLPE)
Screen made of copper wires with one or two copper bond counter spiral
longitudinally water-tight wrapping
Metal tape firmly connected with PE sheath
Outer sheath: PE, black

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC001140 ETIM 5.0 Class-Description: Medium voltage power cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC001140 ETIM 6.0 Class-Description: Medium voltage power cable
Conductor stranding:	Multi-wire
Minimum bending radius:	Fixed installation: 15 x outer diameter
Nominal voltage:	U_0/U: 6/10 (12) kV, 12/20 (24) kV, 18/30 (36) kV
Test voltage:	Depending on nominal voltage: 6/10 kV: 15 kV 12/20 kV: 30 kV 18/30 kV: 45 kV
Temperature range:	During installation: -40 °C to +70 °C Fixed installation: -40 °C to +90 °C

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Aluminium price basis: excludes aluminium. Refer to catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index".
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
* Trade product, no Lapp product
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

©2025 Lapp Group - Technical changes reserved

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
6/10 (12) kV				
38107829	1x35 RM/16	25	518	813
38107830	1x50 RM/16	26	662	944
38107831	1x70 RM/16	27	854	1170
38107832	1x95 RM/16	29	1094	1434
38107833	1x120 RM/16	31	1334	1675
38107834	1x150 RM/25	32	1723	2020
38107835	1x185 RM/25	34	2059	2391
38106510	1X240 RM/25	36	2587	2945
38107836	1x300 RM/25	38	3163	3543
38107837	1x400 RM/35	41	4234	4450
38107838	1x500 RM/35	44	5194	5455
38107839	1x630 RM/35	48	6442	6814
12/20 (24) kV				
38107840	1x35 RM/16	29	518	963
38107841	1x50 RM/16	30	662	1100
38107842	1x70 RM/16	32	854	1336
38107843	1x95 RM/16	33	1094	1609
38107844	1x120 RM/16	35	1334	1860
1550991	1X150 RM/25	36	1723	2213
38107845	1x185 RM/25	38	2059	2595
38107846	1x240 RM/25	40	2587	3163
38107847	1x300 RM/25	42	3163	3776
38107848	1x400 RM/35	45	4234	4682
38107849	1x500 RM/35	48	5194	5726
38107850	1x630 RM/35	52	6442	7103
18/30 (36) kV				
38107851	1x95 RM/16	38	1094	1852
38107852	1x150 RM/25	41	1723	2478
38107853	1x300 RM/25	47	3163	4087
38107854	1x400 RM/35	50	4234	5016

Last Update (10.10.2025)
©2025 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16