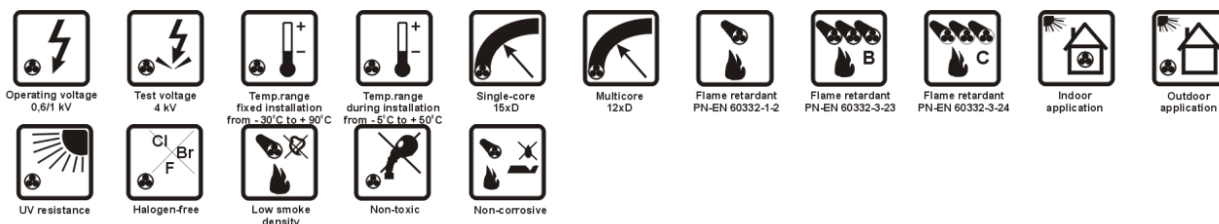
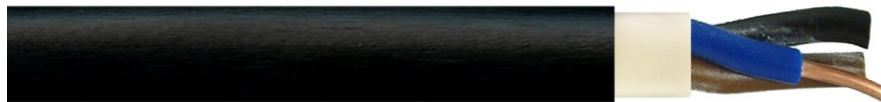


N2XH-O 0,6/1 kV, N2XH-J 0,6/1 kV

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XLPE INSULATED AND HALOGEN FREE MATERIAL SHEATHED CONTROL CABLES**APPLICATIONS**

N2XH-O 0,6/1 kV and **N2XH-J 0,6/1 kV** power cables are designed for electric power transmission. They are also applied in control, protection and monitoring systems in power engineering.

The cables are suitable for industrial applications, such as production plants or air-conditioning systems operating in dry and wet locations, also for outdoor installations. Cables can be laid in concrete. Laying cables in water or direct earth burial is only permitted if additional protection is used.

Halogen free cables shall be applied in locations where, in case of fire, higher safety for human beings and expensive electronic equipment is required. The cables are flame retardant and their smoke emission is low, emitted fumes are non toxic and non corrosive.

CONSTRUCTION

- bare annealed copper conductors meeting requirements of PN-EN 60228 standard:
 - RE** - class 1 circular single-wire,
 - RM** - class 2 circular multi-wire,
 - SM** - class 2 sector shaped multi-wire.
- cross-linked polyethylene (XLPE) insulation, colours:
 - in accordance with PN-HD 308 standard,
 - or black and white conductor number printed on it;
 - green-yellow protective conductor in the outer layer in **N2XH-J 0,6/1 kV** cable,
- insulated conductors laid-up into a cable core,
- inner covering made of halogen free compound (HFFR),
- cable sheath made of halogen free compound (HFFR), black, other colours also available.

AVAILABLE UPON REQUEST

Steel wire or **steel tape armoured** cables as above applied in locations where enhanced protection against mechanical damages is required.

N2XH-O 0,6/1 kV, N2XH-J 0,6/1 kV

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CHARACTERISTICS

Conductor cross-section	mm ²	1,5	2,5	4	6	10	16	25	35
DC conductor resistance at 20°C, maximum	Ω/km	12.1	7.41	4.61	3.08	1.83	1.15	0.727	0.524
Conductor cross-section	mm ²	50	70	95	120	150	185	240	300
DC conductor resistance at 20°C, maximum	Ω/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601

Operating voltage U ₀ /U	0.6/1 kV	Corrosivity of emitted gases per	PN-EN 60754-1, PN-EN 60754-2,
Voltage test	4.0 kV rms		IEC 60754-2
Insulation resistance, minimum	100 MΩ·km	pH, approximate conductivity, approximate	6.8 0.4 μS/mm
Conductor temperature limit in work conditions	+ 90°C	Smoke density per light transmittance, minimum	PN-EN 61034-2, IEC 61034-2
Conductor temperature limit in short-circuit	+ 250°C		70 %
Operating temperature range during operation	from -30 to +90°C	Cable combustibility	flame retardant
Operating temperature range during installation	from -5 to +50°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2, PN-EN 60332-3-23, IEC 60332-3-23 (cat. B) PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
Minimum bending radius: single core cables	15 x cable diameter	Reference standards	PN-HD 604 S1, IEC 60502-1, DIN VDE 0276 part 604
Minimum bending radius: multi core cables	12 x cable diameter		

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Fire load
	mm ²	mm	kg/km	kg/km	kWh/m
N2XH-O					
0968 075	1 x 4 RE	6.2	38.4	75	0.22
0968 013	1 x 6 RE	6.7	57.6	97	0.25
0968 012	1 x 10 RE	7.5	96.0	139	0.30
0968 011	1 x 16 RE	8.4	153.6	198	0.36
0968 010	1 x 25 RM	10.3	240.0	296	0.50
0968 009	1 x 35 RM	11.3	336.0	389	0.57
0968 008	1 x 50 RM	12.7	480.0	517	0.71
0968 007	1 x 70 RM	14.5	672.0	718	0.83
0968 006	1 x 95 RM	16.4	912.0	1012	1.00
0968 005	1 x 120 RM	18.1	1152.0	1207	1.14
0968 027	1 x 150 RM	20.0	1440.0	1501	1.49
0968 025	1 x 185 RM	22.4	1776.0	1872	1.77
0968 004	1 x 240 RM	24.8	2304.0	2385	2.18
0968 093	1 x 300 RM	27.0	2880.0	2951	2.46
N2XH-O					
0968 078	2 x 1,5 RE	7.9	28.8	102	0.49
0968 036	2 x 2,5 RE	8.7	48.0	133	0.57
0968 074	2 x 4 RE	9.6	76.8	175	0.69
0968 023	2 x 6 RE	10.6	115.2	230	0.81
0968 076	2 x 10 RE	12.2	192.0	335	1.03
0968 002	2 x 16 RE	14.0	307.2	481	1.35
0968 081	2 x 25 RM	17.9	480.0	757	2.04
0968 094	2 x 35 RM	20.0	672.0	996	2.47
0968 097	2 x 50 RM	22.9	960.0	1338	3.30
0968 095	2 x 70 RM	26.8	1344.0	1882	4.11
0968 096	2 x 95 RM	30.3	1824.0	2594	5.16
0968 098	2 x 120 RM	34.1	2304.0	3179	6.02

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Fire load
	mm ²	mm	kg/km	kg/km	kWh/m
N2XH-J					
0968 022	3 x 1,5 RE	8.3	43.2	117	0.52
0968 016	3 x 2,5 RE	9.1	72.0	155	0.60
0968 015	3 x 4 RE	10.1	115.2	210	0.72
0968 026	3 x 6 RE	11.2	172.8	281	0.84
0968 032	3 x 10 RE	12.9	288.0	419	1.05
0968 033	3 x 16 RE	14.9	460.8	614	1.35
0968 034	3 x 25 RM	19.1	720.0	962	2.07
0968 050	3 x 35 RM	21.6	1008.0	1290	2.41
0968 099	3 x 50 RM	24.5	1440.0	1725	3.24
0968 090	3 x 70 RM	28.6	2016.0	2431	3.94
0968 100	3 x 95 RM	32.6	2736.0	3409	4.85
0968 101	3 x 120 RM	36.4	3456.0	4133	5.71
N2XH-J					
0968 045	4 x 1,5 RE	9.0	57.6	139	0.59
0968 037	4 x 2,5 RE	9.9	96.0	186	0.69
0968 049	4 x 4 RE	11.0	153.6	256	0.82
0968 047	4 x 6 RE	12.2	230.4	344	0.95
0968 018	4 x 10 RE	14.1	384.0	519	1.22
0968 017	4 x 16 RE	16.5	614.4	774	1.52
0968 055	4 x 25 RM	21.2	960.0	1211	2.31
0968 085	4 x 35 RM	23.8	1344.0	1619	2.68
0968 054	4 x 50 RM	27.2	1920.0	2184	3.59
0968 060	4 x 70 RM	31.8	2688.0	3085	4.44
0968 053	4 x 95 RM	36.4	3648.0	4364	5.42
0968 068	4 x 120 RM	40.6	4608.0	5266	6.28

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Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Fire load
		mm ²	mm	kg/km	kWh/m
N2XH-J					
0968 038	5 x 1,5 RE	9.7	72.0	173	0.67
0968 019	5 x 2,5 RE	10.7	120.0	234	0.78
0968 020	5 x 4 RE	12.0	192.0	325	0.92
0968 029	5 x 6 RE	13.3	288.0	440	1.08
0968 021	5 x 10 RE	15.7	480.0	674	1.37
0968 028	5 x 16 RE	18.1	768.0	995	1.70

Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Fire load
		mm ²	mm	kg/km	kWh/m
0968 041	5 x 25 RM	23.4	1200.0	1569	2.60
0968 014	5 x 35 RM	26.4	1680.0	2104	3.07
0968 031	5 x 50 RM	30.1	2400.0	2834	4.10
0968 051	5 x 70 RM	35.6	3360.0	4043	5.04
0968 030	5 x 95 RM	40.5	4560.0	5671	6.09
0968 079	5 x 120 RM	45.1	5760.0	6845	7.05

Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Fire load
		mm ²	mm	kg/km	kWh/m
N2XH-JZ					
0968 061	7 x 1,5	10.5	100.8	201	0.81
0968 039	10 x 1,5	13.0	144.0	280	1.11
0968 086	12 x 1,5	13.4	172.8	313	1.25
0968 040	14 x 1,5	14.1	201.6	351	1.38
0968 073	19 x 1,5	15.8	273.6	453	1.70
0968 064	24 x 1,5	18.3	345.6	565	2.21
0968 001	30 x 1,5	19.4	432.0	670	2.56
0968 108	40 x 1,5	21.9	576.0	950	3.20
N2XH-JZ					
0968 065	7 x 2,5	11.6	168.0	276	0.95
0968 062	10 x 2,5	14.5	240.0	389	1.34
0968 102	12 x 2,5	15.0	288.0	440	1.46

Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Fire load
		mm ²	mm	kg/km	kWh/m
0968 103	14 x 2,5	16.0	336.0	504	1.62
0968 104	19 x 2,5	17.7	456.0	645	1.99
0968 105	24 x 2,5	20.8	576.0	819	2.60
0968 106	30 x 2,5	22.0	720.0	977	3.02
0968 066	40 x 2,5	24.6	960.0	1390	3.83
N2XH-JZ					
0968 077	7 x 4	13.0	268.8	390	1.12
0968 109	10 x 4	16.6	384.0	562	1.60
0968 107	12 x 4	17.1	460.8	638	1.74
0968 110	14 x 4	18.0	537.6	723	1.92
0968 111	19 x 4	20.0	729.6	936	2.42

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.