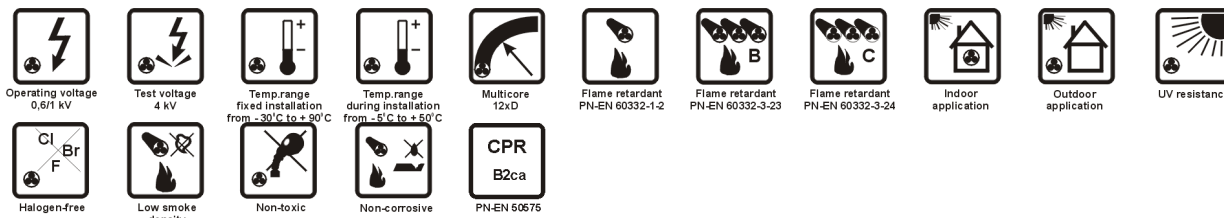
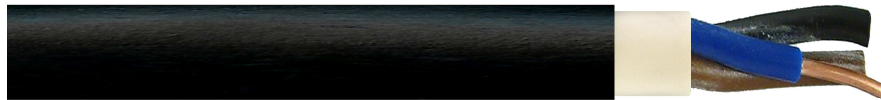


N2XH-O B2ca 0,6/1 kV, N2XH-J B2ca 0,6/1 kV

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

N2XH-O B2ca 0,6/1 kV and **N2XH-J B2ca 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.
- 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 B2ca 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.

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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	
DC conductor resistance at 20°C, maximum	Ω/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	

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
Conductor temperature limit in work conditions	+ 90°C	Smoke density per light transmittance, minimum	0.4 μS/mm
Conductor temperature limit in short-circuit	+ 250°C		PN-EN 61034-2, IEC 61034-2
Operating temperature range during operation	from -30 to +90°C	Cable combustibility	60 %
Operating temperature range during installation	from -5 to +50°C	Combustibility tests	flame retardant
Minimum bending radius: multi core cables	12 x cable diameter	≥ 25 mm ²	PN-EN 50399,
		< 25 mm ²	PN-EN 60332-1-2, IEC 60332-1-2,
		Reference standards	PN-EN 60332-3-23, IEC 60332-3-23 (cat. B)
			PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
			PN-HD 604 S1, IEC 60502-1,
			DIN VDE 0276 part 604
		CPR – reaction to fire (acc. to PN-EN 50575)	B2ca – s1b,d0,a1

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.)
	mm ²	mm	kg/km	kg/km
N2XH-O B2ca				
1897 001	2 x 1,5 RE	7.9	28.8	103
1897 002	2 x 2,5 RE	8.7	48.0	134
1897 003	2 x 4 RE	9.6	76.8	177
1897 004	2 x 6 RE	10.6	115.2	231
1897 005	2 x 10 RE	12.2	192.0	336
1897 006	2 x 16 RE	14.0	307.2	481
1897 007	2 x 25 RM	17.9	480.0	757
1897 008	2 x 35 RM	20.0	672.0	993
1897 009	2 x 50 RM	22.9	960.0	1335
1897 010	2 x 70 RM	26.8	1344.0	1876
1897 011	2 x 95 RM	30.3	1824.0	2581
1897 012	2 x 120 RM	34.1	2304.0	3160
N2XH-J B2ca				
1897 013	3 x 1,5 RE	8.3	43.2	125
1897 014	3 x 2,5 RE	9.1	72.0	163
1897 015	3 x 4 RE	10.3	115.2	220
1897 016	3 x 6 RE	11.4	172.8	292
1897 017	3 x 10 RE	13.1	288.0	431
1897 018	3 x 16 RE	15.1	460.8	628
1897 019	3 x 25 RM	19.3	720.0	982
1897 020	3 x 35 RM	21.8	1008.0	1311
1897 021	3 x 50 RM	24.7	1440.0	1752

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1897 022	3 x 70 RM	28.8	2016.0	2463
1897 023	3 x 95 RM	32.8	2736.0	3441
1897 024	3 x 120 RM	36.4	3456.0	4133
1897 025	3 x 150 RM	41.0	4320.0	5235
1897 026	3 x 185 RM	46.0	5328.0	6551
1897 027	3 x 240 RM	51.3	6912.0	8453
N2XH-J B2ca				
1897 028	4 x 1,5 RE	9.6	57.6	159
1897 029	4 x 2,5 RE	10.5	96.0	209
1897 030	4 x 4 RE	11.6	153.6	283
1897 031	4 x 6 RE	12.8	230.4	376
1897 032	4 x 10 RE	14.7	384.0	556
1897 033	4 x 16 RE	17.1	614.4	819
1897 034	4 x 25 RM	21.8	960.0	1276
1897 035	4 x 35 RM	24.4	1344.0	1692
1897 036	4 x 50 RM	27.8	1920.0	2275
1897 037	4 x 70 RM	32.4	2688.0	3198
1897 038	4 x 95 RM	37.0	3648.0	4493
1897 039	4 x 120 RM	41.2	4608.0	5417
1897 040	4 x 150 RM	46.0	5760.0	6791
1897 041	4 x 185 RM	51.6	7104.0	8492
1897 042	4 x 240 RM	57.5	9216.0	10965

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Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
		mm ²	mm	kg/km
N2XH-J B2ca				
1897 043	5 x 1,5 RE	11.1	72.0	211
1897 044	5 x 2,5 RE	12.1	120.0	275
1897 045	5 x 4 RE	13.4	192.0	369
1897 046	5 x 6 RE	14.7	288.0	485
1897 047	5 x 10 RE	17.1	480.0	722
1897 048	5 x 16 RE	19.5	768.0	1041
1897 049	5 x 25 RM	24.8	1200.0	1617

Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
		mm ²	mm	kg/km
1897 050	5 x 35 RM	27.8	1680.0	2146
1897 051	5 x 50 RM	31.9	2400.0	2901
1897 052	5 x 70 RM	37.0	3360.0	4058
1897 053	5 x 95 RM	42.3	4560.0	5697
1897 054	5 x 120 RM	46.9	5760.0	6849
1897 055	5 x 150 RM	52.7	7200.0	8633
1897 056	5 x 185 RM	58.9	8880.0	10761
1897 057	5 x 240 RM	65.7	11520.0	13894

Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
		mm ²	mm	kg/km
N2XH-J B2ca				
1897 058	7 x 1,5	11.9	100.8	254
1897 059	7 x 2,5	13.0	168.0	335
1897 060	7 x 4	14.4	268.8	457
1897 061	7 x 6	15.9	403.2	610
1897 062	7 x 10	18.5	672.0	920

Product No.	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
		mm ²	mm	kg/km
1897 063	10 x 2,5	15.9	403.2	610
1897 064	10 x 4	18.0	384.0	647
1897 065	12 x 4	18.5	460.8	731
1897 066	14 x 4	19.4	537.6	824

Other cross-sections and conductor counts available on request.
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.