

N2XH

Safety cable, multicore, 0.6/1kV, Euroclass Cca

Halogen-free, with improved fire characteristics,
CENELEC HD 604 S1, VDE 0276-604



- 1 Conductor: solid/stranded
- 2 Insulation: cross-linked PE, zero halogen
- 3 Filler: flame retardant, zero halogen
- 4 Sheath: FRNC/LSZH



Description

For permanent installation in dry, damp or wet areas, on or behind plasterwork or in walls or concrete. Also suitable for outdoor applications. The cable should only be laid directly in earth or water if a protective conduit is used.
Permitted operating temperature at conductor of +90°C.

Construction

Conductor	Bare copper, solid or stranded, IEC 60228 and EN 60228 (VDE 0295)
Core colours	CENELEC HD 308 S2, VDE 0293
Filler	Halogen-free compound or plastic tape
Insulation	Cross-linked Polyethylene, CENELEC HD 604 S1 and VDE 0276-604
Outer sheath material	Flame retardant Polyolefin compound, CENELEC HD 604 S1 and VDE 0276-604 "HM4"

General Properties

Installation temperature	-5 °C - +50 °C
Operating temperature	-45 °C - +90 °C

Mechanical properties

Minimum bending during installation (multi core)	12 x D
Minimum bending radius permanent (multi core)	12 x D
Remarks bending radius	*50% reduction if installation at 30°C and with a template

Standards

Reaction to fire (Euroclasses)	EN 13501-6
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame Propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Flame Spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD

Note

Additional dimensions available on request.

Versions

Material number	Product	Reaction To Fire	Diameter mm ²	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction	Packing unit
19052400CZ	N2XH-J 2 x 1.5	Cca-s1a,d1,a1	1.5	11.5	29	180	0.38	solid	LN	
18820100CZ	N2XH-J 3 x 1.5	Cca-s1a,d1,a1	1.5	9.3	43	200	0.44	solid	LNPE	by the metre
17009500CZ	N2XH-J 7 x 1.5	Cca-s1a,d1,a1	1.5	14.0	101	310	0.73	solid	5LNPE	by the metre
17009900CZ	N2XH-J 12 x 1.5	Cca-s1a,d1,a1	1.5	18.0	173	460	1.03	solid	10LNPE	by the metre
18820400CZ	N2XH-J 3 x 2.5	Cca-s1a,d1,a1	2.5	10.3	72	250	0.51	solid	LNPE	by the metre
18834900CZ	N2XH-J 3 x 4	Cca-s1a,d1,a1	4	11	115	330	0.60	solid	LNPE	by the metre
18821000CZ	N2XH-J 3 x 6	Cca-s1a,d1,a1	6	12.5	173	410	0.70	solid	LNPE	by the metre
19050500CZ	N2XH-J 3 x 10	Cca-s1a,d1,a1	10	14.2	288	550	0.83	solid	LNPE	by the metre
16998100CZ	N2XH-J 3 x 70	Cca-s1a,d1,a1	70	26.9	2,016	2,550	3.81	stranded	LNPE	by the metre
16998500CZ	N2XH-J 3 x 95	Cca-s1a,d1,a1	95	30	2,736	3,360	3.40	stranded	LNPE	by the metre
16998400CZ	N2XH-J 3 x 120	Cca-s1a,d1,a1	120	33.2	3,456	4,160	3.97	stranded	LNPE	by the metre
16998600CZ	N2XH-J 3 x 150	Cca-s1a,d1,a1	150	37.1	4,320	5,180	4.93	stranded	LNPE	by the metre
18820200CZ	N2XH-J 4 x 1.5	Cca-s1a,d1,a1	1.5	10.2	58	230	0.52	solid	3LPE	by the metre
18820500CZ	N2XH-J 4 x 2.5	Cca-s1a,d1,a1	2.5	11.1	96	290	0.60	solid	3LPE	by the metre
18820800CZ	N2XH-J 4 x 4	Cca-s1a,d1,a1	4	12.4	154	380	0.72	solid	3LPE	by the metre
18821100CZ	N2XH-J 4 x 6	Cca-s1a,d1,a1	6	13.6	230	490	0.83	solid	3LPE	by the metre
18821400CZ	N2XH-J 4 x 10	Cca-s1a,d1,a1	10	15.7	384	670	1.03	solid	3LPE	by the metre
18821700CZ	N2XH-J 4 x 16	Cca-s1a,d1,a1	16	19.1	614	960	1.50	stranded	3LPE	by the metre
16998602CZ	N2XH-J 4 x 25	Cca-s1a,d1,a1	25	23.6	960	1,450	2.14	stranded	3LPE	by the metre
18802800CZ	N2XH-J 4 x 35	Cca-s1a,d1,a1	35	26	1,344	1,850	2.57	stranded	3LPE	by the metre
16998700CZ	N2XH-J 4 x 50	Cca-s1a,d1,a1	50	27.6	1,920	2,410	3.15	stranded	3LPE	by the metre
18803000CZ	N2XH-J 4 x 70	Cca-s1a,d1,a1	70	34.6	2,688	3,340	4.17	stranded	3LPE	by the metre
18822400CZ	N2XH-J 4 x 95	Cca-s1a,d1,a1	95	39.1	3,648	4,380	5.16	stranded	3LPE	by the metre
16998800CZ	N2XH-J 4 x 120	Cca-s1a,d1,a1	120	39.2	4,608	5,421	5.37	stranded	3LPE	by the metre
16998900CZ	N2XH-J 4 x 150	Cca-s1a,d1,a1	150	43.6	5,760	6,690	6.61	stranded	3LPE	by the metre
18820302CZ	N2XH-J 5 x 1.5	Cca-s1a,d1,a1	1.5	11.8	72	270	0.62	solid	3LNPE	by the metre
18820602CZ	N2XH-J 5 x 2.5	Cca-s1a,d1,a1	2.5	12.7	120	340	0.71	solid	3LNPE	by the metre
18835700CZ	N2XH-J 5 x 4	Cca-s1a,d1,a1	4	13.4	192	450	0.85	solid	3LNPE	by the metre
18835800CZ	N2XH-J 5 x 6	Cca-s1a,d1,a1	6	14.9	288	560	0.99	solid	3LNPE	by the metre
18821500CZ	N2XH-J 5 x 10	Cca-s1a,d1,a1	10	17.1	480	790	1.22	solid	3LNPE	by the metre
18821800CZ	N2XH-J 5 x 16	Cca-s1a,d1,a1	16	21.3	768	1,085	1.87	stranded	3LNPE	by the metre
18822000CZ	N2XH-J 5 x 25	Cca-s1a,d1,a1	25	25.5	1,200	1,620	3.32	stranded	3LNPE	by the metre
19259500CZ	N2XH-J 5 x 35	Cca-s1a,d1,a1	35	28.5	1,680	2,163	4.12	stranded	3LNPE	by the metre
16997800CZ	N2XH-J 5 x 70	Cca-s1a,d1,a1	70	37.6	3,360	4,326	4.51	stranded	3LNPE	by the metre
16998000CZ	N2XH-J 5 x 95	Cca-s1a,d1,a1	95	45.8	4,560	5,800	5.23	stranded	3LNPE	by the metre
16998200CZ	N2XH-J 5 x 120	Cca-s1a,d1,a1	120	45.8	5,760	6,070	6.90	stranded	3LNPE	by the metre
16998300CZ	N2XH-J 5 x 150	Cca-s1a,d1,a1	150	51	7,200	7,680	8.52	stranded	3LNPE	by the metre

DoP on request. Euroclass B2_{ca} also available.