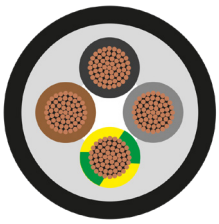
N2XH CLASS 5 LSZH LV FLEXIBLE POWER CABLE- KEMA APPROVED



APPLICATION

These flexible cables are widely used European power cables used for electricity supply for fixed installations with a voltage rating of 600/1000V in public buildings. Cables can be fixed on cable trays, within conduits or fixed to walls. This cable is not suitable for direct burial.

CABLE STANDARDS

IEC 60502-1
IEC 60288
Fire retardant to IEC 60332-3-24 Cat C
Halogen free to IEC60754-1 & 2
Low smoke to IEC 61034-2
IEC 60332-1
KEMA Approved

CONSTRUCTION

Conductor: Flexible Class 5 stranded copper

Insulation: Cross linked Polyethylene (XPLE)

Filler: Low Smoke Zero Halogen (LSZH)

Sheath: Low Smoke Zero Halogen (LSZH)

CHARACTERISTICS

Voltage Rating: 600/1000 Volts
Temperature Limits: +90°C
Minimum Bending Radius: 5 x Overall Diameter

CORE IDENTIFICATION

1 Core: Black 500mm² also in Green/Yellow
3 Core: Brown Blue Green/Yellow
4 Core: Brown Black Blue Green/Yellow
5 Core: Brown Black Grey Blue Green/Yellow

Should not be installed at temperatures below 0°C

For more information contact:
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N2XH CLASS 5 LSZH KEMA APPROVED CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE(MM²)	STRANDING (MM)	NO. OF CORES	OVERALL DIAMETER (MM)	WEIGHT (kg/km)
N2XHK1X1/5	1.5	30/0.25	1	5.4	66
N2XHK3X1/5	1.5	30/0.25	3	10.5	165
N2XHK4X1/5	1.5	30/0.25	4	11.3	193
N2XHK5X1/5	1.5	30/0.25	5	12.3	234
N2XHK1X2/5	2.5	50/0.25	1	5.8	70
N2XHK3X2/5	2.5	50/0.25	3	11.3	206
N2XHK4X2/5	2.5	50/0.25	4	12.2	243
N2XHK5X2/5	2.5	50/0.25	5	13.4	280
N2XHK1X4	4	50/0.25	1	6.3	74
N2XHK3X4	4	50/0.25	3	12.4	266
N2XHK4X4	4	50/0.25	4	13.4	320
N2XHK5X4	4	50/0.25	5	14.7	380
N2XHK1X6	6	84/0.30	1	6.8	95
N2XHK3X6	6	84/0.30	3	13.5	337
N2XHK4X6	6	84/0.30	4	14.6	411
N2XHK5X6	6	84/0.30	5	16.2	525
N2XHK1X10	10	80/0.40	1	7.9	138
N2XHK3X10	10	80/0.40	3	16	103
N2XHK4X10	10	80/0.40	4	17.5	620
N2XHK5X10	10	80/0.40	5	19.3	810
N2XHK1X16	16	126/0.40	1	9.1	199
N2XHK3X16	16	126/0.40	3	18.6	718
N2XHK4X16	16	126/0.40	4	20.3	895
N2XHK5X16	16	126/0.40	5	22.4	8515
N2XHK1X25	25	196/0.40	1	10.8	288
N2XHK3X25	25	196/0.40	3	22.7	1071
N2XHK4X25	25	196/0.40	4	24.9	1340
N2XHK5X25	25	196/0.40	5	27.5	1150
N2XHK1X35	35	276/0.40	1	11.7	381
N2XHK3X35	35	276/0.40	3	24.7	1388
N2XHK4X35	35	276/0.40	4	27.3	1752
N2XHK5X35	35	276/0.40	5	30.1	1675
N2XHK1X50	50	396/0.40	1	13.7	526
N2XHK3X50	50	396/0.40	3	29.1	1919
N2XHK4X50	50	396/0.40	4	32	2449
N2XHK5X50	50	396/0.40	5	34.7	2964
N2XHK1X70	70	396/0.50	1	15.8	720
N2XHK4X70	70	396/0.50	4	37.4	3379
N2XHK5X70	70	396/0.50	5	39.4	4055
N2XHK1X95	95	475/0.50	1	17.3	941
N2XHK4X95	95	475/0.50	4	41.2	4387
N2XHK1X120	120	608/0.50	1	19	1183
N2XHK4X120	120	608/0.50	4	45.9	5561
N2XHK1X150	150	756/0.50	1	21.4	1456
N2XHK4X150	150	756/0.50	4	51.9	7091
N2XHK1X185	185	925/0.50	1	24.2	1807
N2XHK4X185	185	925/0.50	4	59.2	8681
N2XHK1X240	240	1221/0.50	1	26.4	2295
N2XHK4X240	240	1221/0.50	4	64.4	10919
N2XHK1X300	300	1525/0.50	1	29.7	2846
N2XHK4X300	300	1525/0.50	4	72.6	13618
N2XHK1X400	400	2257/0.50	1	33.4	3681
N2XHK1X500	500	1769/0.60	1	37.3	4720

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N2XH CLASS 5 KEMA APPROVED CABLE- CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA (MM²)	ONE SINGLE CORE CABLE (LAID FLAT)		MULTICORE CABLE, 3 OR 4 LOADED CORES	
	LAID IN FREE AIR	ENCLOSED	LAID IN FREE AIR	ENCLOSED
1.5	-	20	24	31
2.5	-	28	32	40
4	56	66	40	52
6	73	82	50	64
10	91	104	69	86
16	122	132	91	112
25	164	170	126	145
35	206	207	155	174
50	250	243	189	206
70	318	298	240	254
95	392	355	296	305
120	457	404	344	348
150	525	451	395	392
185	607	510	455	444
240	727	592	534	517
300	838	668	619	595

N2XH CLASS 5 LSZH KEMA APPROVED CABLE – VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA (MM²)	TWO CORE CABLE DC mV/A/m	TWO CORE CABLE SINGLE PHASE AC mV/A/m			THREE OR FOUR CORE CABLE THREE PHASE AC mV/A/m		
1.5	32	32			27		
2.5	19	19			16		
4	12	12			10		
6	7.9	7.9			6.8		
10	4.7	4.7			4		
16	2.9	2.9			2.5		
		R	X	Z	R	X	Z
25	1.85	1.85	0.160	1.900	1.600	0.140	1.650
35	1.35	1.35	0.155	0.350	1.150	0.135	1.150
50	0.98	0.99	0.155	1.000	0.860	0.135	0.870
70	0.67	0.67	0.150	0.690	0.590	0.130	0.600
95	0.49	0.50	0.150	0.520	0.430	0.130	0.450
120	0.39	0.40	0.145	0.420	0.340	0.130	0.370
150	0.31	0.32	0.145	0.350	0.280	0.125	0.300
185	0.25	0.26	0.145	0.290	0.220	0.125	0.260
240	0.195	0.20	0.140	0.240	0.175	0.125	0.210
300	0.155	0.16	0.140	0.210	0.140	0.120	0.185

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

CONDUCTOR OPERATING TEMPERATURE: 90°C
R = RESISTIVE COMPONENT
X = REACTIVE COMPONENT
Z = IMPEDANCE VALUE

* A LARGER VOLTAGE DROP WILL RESULT IF THE CABLES ARE SPACED APART

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