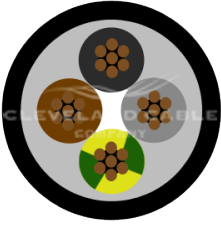


N2XH-J LSZH LV POWER CABLE



APPLICATION

These 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

BS EN / IEC 60332-3-24 (c)
 VDE 0276

CONSTRUCTION

Conductor:

Up to 6mm²: Class 1 solid copper conductor
 Above 10mm²: Class 2 stranded copper

Insulation: Cross linked Polyethylene (XPLE)
 Type 2X11

Sheath: LSZH (Low Smoke Zero Halogen)
 Type HM4

CHARACTERISTICS

Voltage Rating: 600/1000 Volts

Temperature Limits: +90°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

- 3 Core:** Brown Blue Green/Yellow
- 4 Core:** Brown Black Grey Green/Yellow
- 5 Core:** Brown Black Grey Blue Green/Yellow

Should not be installed at temperatures below 0°C

N2XH-J LSZH POWER CABLE - CABLE DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO. OF CORES	OVERALL DIAMETER (MM)	WEIGHT (KG/KM)
N2XH3X1/5	1.5	1/1.38	3	11	170
N2XH4X1/5	1.5	1/1.38	4	12	200
N2XH5X1/5	1.5	1/1.38	5	13	245
N2XH3X2/5	2.5	1/1.78	3	12	220
N2XH4X2/5	2.5	1/1.78	4	12.2	239
N2XH5X2/5	2.5	1/1.78	5	14	300
N2XH3X4	4	1/2.25	3	13	285
N2XH4X4	4	1/2.25	4	13	318
N2XH5X4	4	1/2.25	5	15	410
N2XH3X6	6	1/2.76	3	14	365
N2XH4X6	6	1/2.76	4	14	414
N2XH5X6	6	1/2.76	5	16	530
N2XH3X10	10	7/1.35	3	16	520
N2XH4X10	10	7/1.35	4	17.5	620
N2XH5X10	10	7/1.35	5	19	770
N2XH3X16	16	7/1.70	3	18	780
N2XH4X16	16	7/1.70	4	20.3	895
N2XH5X16	16	7/1.70	5	21	1160
N2XH4X25	25	7/2.14	4	24.5	1350
N2XH5X25	25	7/2.14	5	25	1658
N2XH4X35	35	7/2.52	4	28.5	1875
N2XH5X35	35	7/2.52	5	29	2184
N2XH4X50	50	19/1.78	4	31.1	2550
N2XH5X50	50	19/1.78	5	33	2881
N2XH4X70	70	19/2.14	4	36.2	3010
N2XH5X70	70	19/2.14	5	37	4056
N2XH1X95	95	19/2.52	1	17.3	3960
N2XH4X95	95	19/2.52	4	40.6	941
N2XH5X95	95	19/2.52	5	41	5455
N2XH1X120	120	37/2.03	1	22	1250
N2XH4X120	120	37/2.03	4	45.4	5160
N2XH5X120	120	37/2.03	5	48	5760
N2XH1X150	150	37/2.25	1	24	1700
N2XH4X150	150	37/2.25	4	49.5	6150
N2XH1X185	185	37/2.52	1	25	2200
N2XH4X185	185	37/2.52	4	54.4	7780
N2XH1X240	240	61/2.25	1	28	2750
N2XH4X240	240	61/2.25	4	61.5	9550
N2XH1X300	300	61/2.52	1	32	3300
N2XH4X300	300	61/2.52	4	64.6	12450

N2XH-J LSZH POWER CABLE - CARRYING CAPACITY (AMPERES)

NOMINAL CROSS SECTIONAL AREA (MM ²)	ONE SINGLE CORE CABLE		MULTICORE CABLE, 3 OR 4 LOADED CORES		2 OR 3 SINGLE CORE CABLES, LAID TREFOIL	
	LAID IN FREE AIR	ENCLOSED	LAID IN FREE AIR	ENCLOSED	LAID IN FREE AIR	ENCLOSED
1.5	33	48	24	31	26	33
2.5	43	63	32	40	34	42
4	57	82	42	52	44	54
6	72	102	53	64	56	67
10	99	136	74	86	77	89
16	131	176	98	112	102	115
25	177	229	133	145	138	148
35	217	275	162	174	170	177
50	265	326	197	206	207	209
70	336	400	250	254	263	256
95	415	480	308	305	325	307
120	485	548	359	348	380	349
150	557	616	412	392	437	393
185	646	698	475	444	507	445
240	774	815	564	517	604	517
300	901	927	-	-	697	583

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

N2XH-J LSZH POWER CABLE - VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA (MM ²)	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		
		R	X	Z	R	X	Z
1.5	31			31			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

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.