

N2XH Class 5 Flexible LSZH LV Power Cable KEMA Approved



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.

Key Features



Installation Guidelines

Should not be installed at temperatures below 0°C



Voltage Rating

600/1000 Volts



Minimum Bending Radius

As Per Manufacturers Datasheet

Construction

- **Conductor:** Flexible class 5 stranded copper
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Bedding:** LSZH (Low smoke Zero Halogen)
- **Sheath:** Low smoke Zero Halogen (LSZH) to BS 7655

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

Core Colours

1 Core -	Black	500mm also in	Green	Yellow		
3 Core -	Brown	Blue	Green	Yellow		
4 Core -	Brown	Black	Grey	Green	Yellow	
5 Core -	Brown	Black	Grey	Blue	Green	Yellow

N2XH Class 5 Flexible LSZH LV Power Cable KEMA Approved - Dimensions

Reference	Conductor Size (mm ²)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)
N2XHK1X1/5	1.5	1	30/0.25	5.4	66
N2XHK3X1/5	1.5	3	30/0.25	10.5	165
N2XHK4X1/5	1.5	4	30/0.25	11.3	193
N2XHK5X1/5	1.5	5	30/0.25	12.3	234
N2XHK1X2/5	2.5	1	50/0.25	5.8	70
N2XHK3X2/5	2.5	3	50/0.25	11.3	206
N2XHK4X2/5	2.5	4	50/0.25	12.2	243
N2XHK5X2/5	2.5	5	50/0.25	13.4	280
N2XHK1X4	4	1	50/0.25	6.3	74
N2XHK3X4	4	3	50/0.25	12.4	266
N2XHK4X4	4	4	50/0.25	13.4	320
N2XHK5X4	4	5	50/0.25	14.7	380
N2XHK1X6	6	1	84/0.30	6.8	95
N2XHK3X6	6	3	84/0.30	13.5	337
N2XHK4X6	6	4	84/0.30	14.6	411
N2XHK5X6	6	5	84/0.30	16.2	525
N2XHK1X10	10	1	80/0.40	7.9	138
N2XHK3X10	10	3	80/0.40	16	103
N2XHK4X10	10	4	80/0.40	17.5	620
N2XHK5X10	10	5	80/0.40	19.3	810
N2XHK1X16	16	1	126/0.40	9.1	199
N2XHK3X16	16	3	126/0.40	18.6	718
N2XHK4X16	16	4	126/0.40	20.3	895
N2XHK5X16	16	5	126/0.40	22.4	851
N2XHK1X25	25	1	196/0.40	10.8	288
N2XHK3X25	25	3	196/0.40	22.7	1071
N2XHK4X25	25	4	196/0.40	24.9	1340
N2XHK5X25	25	5	196/0.40	27.5	1150
N2XHK1X35	35	1	276/0.40	11.7	381
N2XHK3X35	35	3	276/0.40	24.7	1388
N2XHK4X35	35	4	276/0.40	27.3	1752
N2XHK5X35	35	5	276/0.40	30.1	1675
N2XHK1X50	50	1	396/0.40	13.7	526
N2XHK3X50	50	3	396/0.40	29.1	1919
N2XHK4X50	50	4	396/0.40	32	2449
N2XHK5X50	50	5	396/0.40	34.7	1964
N2XHK1X70	70	1	396/0.50	15.8	720
N2XHK4X70	70	4	396/0.50	37.4	3379

Reference	Conductor Size (mm ²)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)
N2XHK5X70	70	5	396/0.50	39.4	4055
N2XHK1X95	95	1	475/0.50	17.3	941
N2XHK4X95	95	4	475/0.50	41.2	4387
N2XHK1X120	120	1	608/0.50	19	1183
N2XHK4X120	120	4	608/0.50	45.9	5561
N2XHK1X150	150	1	756/0.50	21.4	1456
N2XHK4X150	150	4	756/0.50	51.9	7091
N2XHK1X185	185	1	925/0.50	24.2	1807
N2XHK4X185	185	4	925/0.50	59.2	8681
N2XHK1X240	240	1	1221/0.50	26.4	2295
N2XHK4X240	240	4	1221/0.50	64.4	10919
N2XHK1X300	300	1	1525/0.50	29.7	2846
N2XHK4X300	300	4	1525/0.50	72.6	13618
N2XHK1X400	400	1	2257/0.50	33.4	3681
N2XHK1X500	500	1	1769/0.60	37.3	4720

N2XS2Y CABLE - CURRENT CARRYING CAPACITY

CONDUCTOR CROSS – SECTIONAL AREA	REFERENCE METHOD A (ENCLOSED IN CONDUIT THERMALLY INSULATING WALL ETC)		REFERENCE METHOD B (ENCLOSED IN CONDUIT ON A WALL OR IN TRUNKING ETC)		REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD F (IN FREE AIR ON A PERFORATED CABLE TRAY HORIZONTAL / VERTICAL)				
							TOUCHING			SPACED BY ONE DIAMETER	
	2 CABLES, SINGLE - PHASE AC OR DC	3 OR 4 CABLES, 3 PHASE AC	2 CABLES, SINGLE - PHASE AC OR DC	3 OR 4 CABLES, THREE PHASE AC OR DC	2 CABLES, SINGLE - PHASE AC OR DC FLAT AND TOUCHING	3 OR 4 CABLES, THREE - PHASE AC FLAT AND TOUCHING OR TREFOIL	2 CABLES, SINGLE - PHASE AC OR DC FLAT	3 CABLES, THREE -PHASE AC FLAT	3 CABLES, THREE PHASE AC TREFOIL	2 CABLES, SINGLE PHASE AC OR DC OR 3 CABLES THREE-PHASE AC FLAT	
										HORIZONTAL	VERTICAL
(MM²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
25	80	73	101	89	114	104	131	114	110	146	130
35	99	89	125	110	141	129	162	143	137	181	162
50	119	108	151	134	182	167	196	174	167	219	197
70	151	136	192	171	234	214	251	225	216	281	254
95	182	164	232	207	284	261	304	275	264	341	311
120	278	249	354	312	413	379	437	400	383	500	454
150	318	285	393	342	476	436	504	464	444	577	527
185	362	324	449	384	545	500	575	533	510	661	605
240	424	380	528	450	644	590	679	634	607	781	719
300	486	435	603	514	743	681	783	736	703	902	833
400	–	–	683	584	868	793	940	868	823	1085	1008
500	–	–	783	666	990	904	1083	998	946	1253	1169
630	–	–	900	764	1130	1033	1254	1151	1088	1454	1362
800	–	–	–	–	1288	1179	1358	1275	1214	1581	1485
1000	–	–	–	–	1443	1323	1520	1436	1349	1775	1671

N2XS2Y CABLE - VOLTAGE DROP

CROSS SECTIONAL AREA	2 CABLES DC	2 CABLES SINGLE-PHASE AC MV/A/M						3 OR 4 CABLES THREE-PHASE AC MVAM								
		REFERENCE METHOD G (ON TRAY OR IN FREE AIR)						REFERENCE METHODS C, F AND G (CLIPPED DIRECT, ON TRAY OR IN FREE AIR)								
		CABLES TOUCHING			CABLES SPACED*			CABLES TOUCHING, TREFOIL			CABLES TOUCHING, FLAT			CABLES SPACED*, FLAT		
MM²	MV/A/M	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
35	1.250	1.250	0.200	1.250	1.250	0.280	1.300	1.100	0.170	1.100	1.100	0.240	1.100	1.100	0.320	1.150
50	0.930	0.930	0.190	0.950	0.930	0.280	0.970	0.800	0.170	0.820	0.800	0.240	0.840	0.800	0.320	0.860
70	0.630	0.630	0.185	0.660	0.630	0.270	0.690	0.550	0.160	0.570	0.550	0.240	0.600	0.550	0.310	0.630
95	0.460	0.470	0.180	0.500	0.470	0.270	0.540	0.410	0.160	0.430	0.410	0.230	0.470	0.400	0.310	0.510
120	0.360	0.370	0.180	0.410	0.370	0.260	0.450	0.320	0.150	0.360	0.320	0.230	0.400	0.320	0.300	0.440
150	0.320	0.320	0.165	0.360	0.320	0.250	0.410	0.280	0.140	0.310	0.280	0.165	0.320	0.280	0.240	0.370
185	0.250	0.260	0.165	0.300	0.250	0.250	0.360	0.220	0.140	0.260	0.220	0.165	0.280	0.220	0.240	0.330
240	0.190	0.200	0.160	0.250	0.195	0.250	0.310	0.170	0.140	0.220	0.170	0.165	0.240	0.170	0.240	0.290
300	0.155	0.160	0.160	0.220	0.155	0.250	0.290	0.140	0.140	0.195	0.135	0.160	0.210	0.135	0.240	0.270
500	0.093	0.125	0.170	0.210	0.165	0.240	0.290	0.105	0.145	0.180	0.145	0.200	0.250	0.190	0.240	0.310
630	0.073	0.105	0.165	0.195	0.150	0.230	0.270	0.092	0.145	0.170	0.135	0.195	0.240	0.175	0.230	0.290

Conductor Operating Temperature: 90°C

r = Resistive Component
x = Reactive Component
z = Impedance Value

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