

N2XH Class 5 Mains Cable - Non Armoured, LSZH - 1.5mm² to 630mm²



Description

These flexible cables are widely used European power cables used for electricity supply for fixed installations with a voltage rating of 600/1000V AC and 1.8kV DC. The cable is primarily used in public buildings where there is risk due to fumes and halogens in case of a fire. Cables can be fixed on cable trays, within conduits or fixed to walls. This cable is not suitable for direct burial.

Key Features



Voltage Rating 600V-1000V AC 1.8kV DC



Minimum Bending Radius 6 x overall diameter



Flame Retardancy BS EN/IEC 60332-1-2 BS EN/IEC 60332-3-24



Temperature Limits Temperature Range: -40 to 90°C

Core Colours



Standards

- IEC 60502-1
- BS EN/IEC 60332-3-24
- BS EN/IEC 60228
- VDE 0276
- IEC/EN 61034-1/2,
- BS EN/IEC 60332-1-2
- IEC/EN 60754-1/2

Construction

- Conductor: Class 5 flexible, stranded copper
- Insulation: Cross Linked polyethylene (XLPE)
- Bedding: Low Smoke Zero Halogen (LSZH)
- Outer Sheath: Low Smoke Zero Halogen (LSZH)
- Sheath Colour: Black

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.







CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis



















N2XH Class 5 Mains Cable - Non Armoured, LSZH - 1.5mm² to 630mm² - Dimensions

Reference	Conductor Size (mm2)	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	



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Reference	Conductor Size (mm2)	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	
N2XHK5X95	95	5	475/0.50	51.3	5390	
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	
N2XHK2X240	240	2	1221/0.50	59.1	6600	
N2XHK3X240	240	3	1221/0.50	63.7	8600	
N2XHK4X240	240	4	1221/0.50	64.4	10919	
N2XHK1X300	300	1	1525/0.50	29.7	2846	
N2XHK3X300	300	3	1525/0.50	73.2	10860	
N2XHK4X300	300	4	1525/0.50	72.6	13618	
N2XHK1X400	400	1	2257/0.50	33.4	3681	
N2XHK3X400	400	3	2257/0.50	83.3	14010	
N2XHK4X400	400	4	2257/0.50	82.9	17550	
N2XHK1X500	500	1	1769/0.60	37.3	4720	
N2XHK1X630	630	1	2257/0.60	50.4	6440	

















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ELECTRICAL PROPERTIES

Class 5 Flexible N2XH Cables

Ambient temperature: 30 °C Conductor operating temperature: 90 °C

Conductor Size	CURRENT-CARRYING CAPACITY		RESISTANCE		SHORT CIRCUIT CURRENT	Approx Voltage	Impedence	Reactance
	In Free Air at 30 ⁰ Degrees	Underground at 20 ⁰ Degrees	DC at 20 ⁰ Degrees	AC at 90 ⁰ Degrees	1 Second Maximum	Drop	at 50 Hz	at 50 Hz
(mm²)	(Amps)	(Amps)	(Ω/KM)	(Ω/KM)	kA	(VA/Km)	(Ω/Km)	(Ω/Km)
1.5	26	27	13.30	17.00	0.21	33.9	17.00	0.1
2.5	36	35	7.98	10.40	0.36	20.8	10.40	0.09
4	42	37	4.95	6.47	0.57	12.90	6.47	0.09
6	55	49	3.30	4.32	0.86	8.60	4.32	0.09
10	74	65	1.91	2.56	1.43	5.10	2.56	0.08
16	100	84	1.210	1.620	2.29	3.20	1.62	0.08
25	135	107	0.780	0.986	3.58	2.00	0.99	0.08
35	169	129	0.554	0.710	5.00	1.40	0.716	0.08
50	207	153	0.386	0.527	7.15	1.10	0.533	0.08
70	268	188	0.272	0.365	10.00	0.70	0.374	0.08
95	328	226	0.206	0.263	13.60	0.50	0.275	0.08
120	383	257	0.161	0.208	17.20	0.40	0.233	0.08
150	444	287	0.129	0.170	21.40	0.40	0.188	0.08
185	510	324	0.106	0.136	26.50	0.30	0.158	0.08
240	607	375	0.801	0.104	34.30	0.30	0.131	0.08
300	703	419	0.0641	0.0850	42.90	0.20	0.110	0.07
400	823	464	0.0486	0.0680	57.20	0.20	0.0976	0.07
500	946	524	0.0384	0.0540	71.50	0.20	0.0884	0.07
630	1,088	595	0.0287	0.0450	90.10	0.10	0.0832	0.07

Current ratings based on IEC 60364-5-52

 $Conditions \ for \ installation \ underground \ (Trefoil) - Thermal \ resistivity \ of \ soil: 2.5 \ K.m/W - Burying \ depth: 0.7 \ m$

Conditions for installation in air (Trefoil)

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