

N2XBY Cable - 1.5mm² to 240mm²

Description

N2XBY cable is a heavy-duty, low-voltage steel tape armoured power cable expertly engineered for main power distribution networks in industrial processing plants, transformer stations, and civil infrastructure developments. The internal construction features Class 1 solid or Class 2 stranded plain annealed copper conductors insulated with premium cross-linked polyethylene for superior thermal and electrical performance. These cores are bound together with a polyvinyl chloride bedding filler, reinforced against mechanical impacts by a robust double layer of helically applied galvanised steel tape armour, and encased in a high-grade, UV-resistant PVC outer sheath making it exceptionally well-suited for static fixed installations in cable canals, concrete encasements, and direct underground burial where maximum protection against severe mechanical crush loads is essential.

Manufactured to meet the most exacting European and international technical criteria, this high-specification armoured power cable guarantees ultimate regulatory compliance within civil and industrial electrical installations. It is fully certified to international standards DIN VDE 0276-603, HD 603 S1, and IEC 60502-1, operating with a reliable low-voltage rating of 0.6/1kV. To minimise fire propagation risks, the premium outer sheath formulation provides dependable fire performance by satisfying standard vertical flame tests in accordance with IEC/EN 60332-1 specifications, and it is engineered to maintain low dielectric loss while operating up to a maximum continuous conductor temperature of plus 90 degrees Celsius.

The cable is fully rated for deployment indoors, outdoors, or pulled through underground ducts, provided the static configuration is not exposed to extreme tensile strain during laying and the double steel tape armour is securely clamped and bonded at the gland interfaces to establish an unbroken path to the primary system earth.

Key Features



Voltage Rating
600/1000 Volts



Minimum Bending Radius
12 x Overall Diameter



Flame Retardancy
BS EN/IEC 60332-1



Temperature Limits
Maximum operating temperature of conductor: +90°C
Maximum short-circuit temperature up to 5 sec: +250°C

Core Colours

2 core -	Brown	Blue			
3 core -	Brown	Blue	Green Yellow		
4 core -	Brown	Black	Grey	Green Yellow	
5 core -	Brown	Blue	Black	Grey	Green Yellow
7+ core -	Black	Green Yellow			

Standards

- IEC 60502-1
- VDE 0276-603
- BS EN/IEC 60332-1
- BS EN/IEC 60228

Construction

- **Conductor:** Class 2 stranded copper conductor
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Filler:** Polyvinyl Chloride (PVC)
- **Armour:** Double Steel Tape
- **Outer Sheath:** Polyvinyl Chloride (PVC)
- **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

N2XBY Cable - 1.5mm² to 240mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
N2XBY3X1/5	1.5	3	0.70	1.24	12.00	275
N2XBY4X1/5	1.5	4	0.70	1.24	13.00	310
N2XBY5X1/5	1.5	5	0.70	1.24	14.00	380
N2XBY2X2/5	2.5	2	0.70	1.24	13.00	275
N2XBY3X2/5	2.5	3	0.70	1.24	14.00	345
N2XBY4X2/5	2.5	4	0.70	1.24	14.00	370
N2XBY5X2/5	2.5	5	0.70	1.24	15.00	425
N2XBY2X4	4	2	0.70	1.24	14.00	320
N2XBY3X4	4	3	0.70	1.24	15.00	430
N2XBY4X4	4	4	0.70	1.24	16.00	460
N2XBY5X4	4	5	0.70	1.24	17.00	555
N2XBY2X6	6	2	0.70	1.24	15.00	390
N2XBY3X6	6	3	0.70	1.24	16.00	500
N2XBY4X6	6	4	0.70	1.24	17.00	585
N2XBY5X6	6	5	0.70	1.24	18.00	680
N2XBY2X10	10	2	0.70	1.24	17.00	495
N2XBY3X10	10	3	0.70	1.24	19.00	705
N2XBY4X10	10	4	0.70	1.24	20.00	825
N2XBY5X10	10	5	0.70	1.24	21.00	980
N2XBY2X16	16	2	0.70	1.24	19.00	650
N2XBY3X16	16	3	0.70	1.24	21.00	940
N2XBY4X16	16	4	0.70	1.24	22.00	1110
N2XBY5X16	16	5	0.70	1.24	24.00	1350
N2XBY2X25	25	2	0.90	1.24	22.00	885
N2XBY3X25	25	3	0.90	1.24	24.00	1320
N2XBY4X25	25	4	0.90	1.32	25.00	1600
N2XBY5X25	25	5	0.90	1.32	28.00	1950
N2XBY2X35	35	2	0.90	1.32	24.00	1120
N2XBY3X35	35	3	0.90	1.32	26.00	1665
N2XBY4X35	35	4	0.90	1.40	28.00	2050
N2XBY5X35	35	5	0.90	1.40	31.00	2535
N2XBY2X50	50	2	1.00	1.40	27.00	1405
N2XBY3X50	50	3	1.00	1.40	29.00	2170
N2XBY4X50	50	4	1.00	1.48	32.00	2640
N2XBY5X50	50	5	1.00	1.48	35.00	3345
N2XBY2X70	70	2	1.10	1.48	31.00	1900
N2XBY3X70	70	3	1.10	1.48	34.00	2960



Reference	Conductor Size (mm ²)	No Of Cores	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
N2XBY4X70	70	4	1.10	1.56	36.00	3620
N2XBY5X70	70	5	1.00	1.48	39.00	4515
N2XBY2X95	95	2	1.10	1.64	35.00	2495
N2XBY3X95	95	3	1.10	1.64	38.00	4015
N2XBY4X95	95	4	1.10	1.72	41.00	5360
N2XBY5X95	95	5	1.10	1.56	44.00	6040
N2XBY3X120	120	3	1.20	1.72	42.00	5220
N2XBY4X120	120	4	1.20	1.88	46.00	6590
N2XBY3X150	150	3	1.40	1.88	47.00	6405
N2XBY4X150	150	4	1.40	1.96	51.00	8095
N2XBY3X185	185	3	1.60	2.04	51.00	7720
N2XBY4X185	185	4	1.60	2.12	56.00	9790
N2XBY3X240	240	3	1.70	2.20	58.00	9960
N2XBY4X240	240	4	1.70	2.36	63.00	12595
N2XBY3X16/10	16/10	3	0.70	1.24	21.00	1085
N2XBY3X25/16	25/16	3	0.90	1.24	25.00	1500
N2XBY3X35/16	35/16	3	0.90	1.32	27.00	1865
N2XBY3X50/25	50/25	3	1.00	1.40	30.00	2380
N2XBY3X70/35	70/35	3	1.10	1.56	35.00	3240
N2XBY3X95/70	95/70	3	1.10	1.64	39.00	4635
N2XBY3X120/70	120/70	3	1.20	1.80	44.00	5825
N2XBY3X150/70	150/70	3	1.40	1.88	48.00	6890
N2XBY3X185/95	185/95	3	1.60	2.04	52.00	8415
N2XBY3X240/120	240/120	3	1.70	2.20	59.00	10680

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