N2XY IEC 60502-1 XLPE PVC 0.6/1kV Cable - 1.5mm² to 630mm²

Description

N2XY is a low-voltage unarmoured power cable designed for fixed electrical installations across industrial properties, urban networks, and power stations. The cable features a plain annealed copper conductor—available in Class 1 solid or Class 2 stranded variants—insulated with cross-linked polyethylene (XLPE), layered with a PVC bedding in a tough, UV-resistant black PVC outer sheath. It is engineered for versatile indoor and outdoor routing, fixed directly to walls, laid on cable trays, installed within conduits, or buried directly underground where adequate external mechanical protection is maintained.

Manufactured to meet the rigorous demands of modern low-voltage distribution networks, this cable is designed and tested in accordance with international standard IEC 60502-1 for extruded solid insulation power cables rated from 1 kV to 3 kV. The copper conductors conform fully to IEC/EN 60228 criteria, while the outer jacket provides reliable fire safety characteristics, proving flame retardant to BS EN/IEC 60332-1-2 standards. The entire construction satisfies CPR2017 requirements alongside national harmonisation standards including VDE 0276-603 and HD 603 S1.

Installers should maintain a minimum bending radius of 12 times the overall cable diameter for multicore configurations, increasing to 15 times the diameter for single-core variations to preserve insulation integrity. Because N2XY is an unarmoured cable line, it must never be subjected to excessive pulling tension or heavy impact stress, and must be housed within protective ducts or conduit routing if deployed in environments exposed to external mechanical hazards.

Key Features

Voltage Rating
600/1000 Volts

Minimum Bending Radius
Fixed: 12 x overall diameter

Temperature Limits
Temperature Range:-20°C to +90°C

Core Colours

3 core - Green Yellow | Blue | Brown

4 core - Green Yellow | Brown | Black | Grey

5 core - Green Yellow | Blue | Brown | Black | Grey

7 cores and above - Black cores and White numbers

Standards

- IEC 60502-1
- IEC 60332-1-2
- IEC 60228

Construction

- **Conductor**: Copper Conductor
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Bedding**: Polyvinyl Chloride (PVC)
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: Black

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

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.

ISO/IEC 17025 Accredited Testing Laboratory
31196

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.

CLEVELAND CABLE COMPANY

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

N2XY IEC 60502-1 XLPE PVC 0.6/1kV Cable - 1.5mm² to 630mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
N2XY2X1/5	1.5	2	0.10	150
N2XY3X1/5	1.5	3	10.50	160
N2XY4X1/5	1.5	4	11.30	190
N2XY5X1/5	1.5	5	12.10	220
N2XY7X1/5	1.5	7	12.90	260
N2XY10X1/5	1.5	10	15.60	355
N2XY12X1/5	1.5	12	16.10	395
N2XY14X1/5	1.5	14	16.70	435
N2XY19X1/5	1.5	19	18.40	540
N2XY24X1/5	1.5	24	21.10	670
N2XY30X1/5	1.5	30	22.20	790
N2XY40X1/5	1.5	40	24.60	1005
N2XY2X2/5	2.5	2	10.90	185
N2XY3X2/5	2.5	3	11.40	205
N2XY4X2/5	2.5	4	12.20	240
N2XY5X2/5	2.5	5	13.00	280
N2XY7X2/5	2.5	7	14.00	340
N2XY10X2/5	2.5	10	17.10	470
N2XY12X2/5	2.5	12	17.50	530
N2XY14X2/5	2.5	14	18.50	600
N2XY19X2/5	2.5	19	20.20	750
N2XY24X2/5	2.5	24	23.40	930
N2XY30X2/5	2.5	30	26.30	1160
N2XY40X2/5	2.5	40	27.30	1425
N2XY2X4	4	2	11.80	230
N2XY3X4	4	3	12.30	265
N2XY4X4	4	4	13.20	320
N2XY4X4	4	4	14.00	330
N2XY5X4	4	5	14.20	370
N2XY5X4	4	5	15.20	400
N2XY7X4	4	7	15.50	465
N2XY10X4	4	10	18.90	650
N2XY16X4	4	16	22.80	975
N2XY2X6	6	2	12.70	285
N2XY3X6	6	3	13.40	340
N2XY4X6	6	4	14.40	410
N2XY4X6	6	4	14.90	420
N2XY5X6	6	5	15.60	490

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
N2XY5X6	6	5	16.00	500
N2XY2X10	10	2	13.20	295
N2XY3X10	10	3	15.80	505
N2XY4X10	10	4	17.10	610
N2XY5X10	10	5	18.60	740
N2XY1X16	16	1	9.80	215
N2XY2X16	16	1	17.00	585
N2XY2X16	16	2	15.00	420
N2XY3X16	16	3	18.00	720
N2XY3X16/10	16	3	20.00	880
N2XY4X16	16	4	19.50	885
N2XY5X16	16	5	21.30	1070
N2XY1X25	25	1	11.30	325
N2XY2X25	25	1	20.30	860
N2XY3X25	25	3	21.50	1075
N2XY3X25/16	25	3	22.40	1225
N2XY4X25	25	4	23.60	1325
N2XY5X25	25	5	25.90	1630
N2XY1X35	35	1	12.40	410
N2XY2X35	35	1	22.30	1100
N2XY3X35	35	3	23.80	1405
N2XY3X35/16	35	3	24.40	1555
N2XY4X35	35	4	26.00	1760
N2XY5X35	35	5	28.90	2145
N2XY1X50	50	1	14.00	535
N2XY3X50	50	3	24.9	1580
N2XY3X50/25	50	3	26.80	1860
N2XY4X50	50	4	27.10	2080
N2XY5X50	50	5	29.30	2575
N2XY1X70	70	1	15.30	750
N2XY3X70/35	70	3	30.00	2600
N2XY4X70	70	4	31.40	2945
N2XY5X70	70	5	33.60	3635
N2XY1X95	95	1	17.40	1000
N2XY3X95/50	95	3	33.90	3500
N2XY4X95	95	4	35.00	3960
N2XY5X95	95	5	38.40	4930
N2XY1X120	120	1	19.20	1240
N2XY4X120	120	4	39.40	4975

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
N2XY5X120	120	5	42.50	6160
N2XY1X150	150	1	21.00	1515
N2XY4X150	150	4	43.70	6125
N2XY5X150	150	5	47.70	7590
N2XY1X185	185	1	23.10	1880
N2XY4X185	185	4	48.00	7595
N2XY5X185	185	5	52.40	9470
N2XY1X240	240	1	25.70	4395
N2XY4X240	240	4	53.60	9880
N2XY5X240	240	5	58.00	12250
N2XY1X300	300	1	27.80	2980
N2XY4X300	300	4	69.00	15140
N2XY1X400	400	1	31.00	3845
N2XY1X500	500	1	34.70	4890
N2XY1X630	630	1	46.30	6555
N2XY3X120/70	120/70	3	37.10	4440
N2XY3X150/70	150/70	3	41.60	5330
N2XY3X185/95	185/95	3	45.90	6705
N2XY3X240/120	240/120	3	51.50	8690
N2XY3X300/150	300/150	3	67.20	10645

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.