

Nexans - NAYY-J/O Aluminium Conductor PVC PVC 0.6/1kV Cable - 6mm² to 630mm²



Description

NAYY cables are Low Voltage 0.6/1kV European aluminium conductor power distribution cables from Nexans. They are an alternative to copper conductor NYY cables, offering reductions in weight and initial cost. NAYY cables are available with earth cores (J) or without (O) and are mostly used within the renewable energy industry, particularly in solar farms.

The cables are unarmoured with aluminium cores, Polyvinyl Chloride (PVC) insulation and a PVC outer sheath, making them suitable for fixed installations in buildings, in free air and buried within conduit or trunking. Nexans NAYY cables are commonly used for low-voltage power distribution where the benefits of aluminium conductors are required.

Key Features



Voltage Rating
600/1000 Volts



Minimum Bending Radius
Fixed: 12 x Overall Diameter
Flexing: 15 x Overall Diameter



Flame Retardancy
BS EN/IEC 60332-1-2



Temperature Limits
Temperature Range: -5°C to +70°C

Core Colours

1 core: Green Yellow

3 core: Green Yellow Blue Brown

4 core: Green Yellow Brown Black Grey

5 core: Green Yellow Blue Brown Black Grey

7 core and above: Black with White numbers

Standards

- IEC 60502-1
- VDE 0276-603
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- HD 603

Construction

- **Conductor:** Class 1 solid or class 2 stranded aluminium
- **Insulation:** Polyvinyl Chloride (PVC)
- **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

Nexans - NAYY-J/O Aluminium Conductor PVC PVC 0.6/1kV Cable - 6mm² to 630mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
NAYY4X6	6	4	1.0	1.7	17.0	380
NAYY4X10	10	4	1.1	1.8	19.2	475
NAYY5X10	10	5	1.0	1.8	19.5	585
NAYY1X16	16	1	1.0	1.7	10.6	144
NAYY4X16	16	4	1.2	1.8	23.0	756
NAYY5X16	16	5	1.1	1.8	24.8	940
NAYY1X25	25	1	1.2	1.7	12.2	195
NAYY4X25	25	4	1.2	1.8	26.0	960
NAYY5X25	25	5	1.2	1.8	27.0	1190
NAYY1X35	35	1	1.4	1.8	13.8	258
NAYY4X35	35	4	1.2	1.8	28.4	955
NAYY5X35	35	5	1.2	2.0	30.5	1382
NAYY1X50	50	1	1.5	1.8	15.7	300
NAYY4X50	50	4	1.4	1.9	30.0	1120
NAYY5X50	50	5	1.3	2.1	36.5	1728
NAYY1X70	70	1	1.6	1.8	17.2	385
NAYY4X70	70	4	1.4	2.0	34.0	1552
NAYY5X70	70	5	1.4	2.2	44.5	2250
NAYY1X95	95	1	1.6	1.8	19.3	495
NAYY4X95	95	4	1.6	2.2	39.5	2035
NAYY5X95	95	5	1.6	2.4	47.5	3070
NAYY1X120	120	1	1.8	1.8	20.5	580
NAYY4X120	120	4	1.6	2.4	43.5	2405
NAYY5X120	120	5	1.7	2.4	53.5	3585
NAYY1X150	150	1	2.0	1.8	22.5	700
NAYY4X150	150	4	1.8	2.6	46.5	3037
NAYY5X150	150	5	1.8	2.6	56.7	4405
NAYY1X185	185	1	2.0	1.9	25.5	850
NAYY3X185	185	3	2.2	2.8	50.5	2680
NAYY4X185	185	4	2.0	2.8	51.5	3660
NAYY5X185	185	5	2.0	2.8	60.0	5490
NAYY1X240	240	1	2.2	2.0	28.5	1110
NAYY3X240	240	3	2.3	2.8	55.5	3630
NAYY4X240	240	4	2.2	3.0	58.5	4800
NAYY5X240	240	5	2.2	2.8	72.0	7000
NAYY1X300	300	1	2.4	2.0	31.0	1620
NAYY3X300	300	3	2.4	3.0	60	4500



Reference	Conductor Size (mm2)	No Of Cores	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
NAYY4X300	300	4	2.4	3.0	65.5	5690
NAYY1X400	400	1	2.6	2.0	35.0	1622
NAYY1X500	500	1	2.8	2.1	38.0	2025
NAYY1X630	630	1	2.8	2.2	44.0	2480

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