NYCY Power Cable - PVC - 1.5mm² to 16mm²

Description

European Standard Cable. For use indoors, in cable ducts, outdoors and underground. Mainly used in industrial plants, local power networks and power networks if increased mechanical and electrical protection is needed.

Key Features

Voltage Rating
600/1000 Volts

Flame Retardancy
BS EN 60332-1-2

Core Colours

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

Standards

- BS EN 60228, VDE0276 part 603, VDE0276 part 627 for 7 cores and above, VDE 0293 Colour codes for multi core cable, CENELEC HD627 S1, CENELEC HD603 S2

Construction

- **Conductor**: Class 1 Solid copper conductor, Concentric Conductor: Copper Wire
- **Insulation**: Polyvinyl Chloride (PVC)
- **Sheath**: Polyvinyl Chloride (PVC)

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

NYCY Power Cable - PVC - 1.5mm² to 16mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size	Gland Size
NYCY2X1/5	1.5	2	13	200	0.5	20/16
NYCY3X1/5	1.5	3	13.2	220	0.5	20/16
NYCY4X1/5	1.5	4	14.2	250	0.5	20/16
NYCY5X1/5	1.5	5	15	330	0.6	20S
NYCY7X1/5	1.5	7	15	320	0.6	20S
NYCY8X1/5	1.5	8	17	400	0.7	20
NYCY10X1/5	1.5	10	18.4	410	0.8	20
NYCY12X1/5	1.5	12	19.4	470	0.8	20
NYCY19X1/5	1.5	19	22.5	660	0.9	25
NYCY27X1/5	1.5	27	26.5	1020	1	25
NYCY37X1/5	1.5	37	30	1280	1.1	32
NYCY48X1/5	1.5	48	32	1600	1.2	32
NYCY2X2/5	2.5	2	13.6	260	0.5	20S
NYCY3X2/5	2.5	3	14.2	280	0.6	20S
NYCY4X2/5	2.5	4	15.3	340	0.6	20S
NYCY5X2/5	2.5	5	16	400	0.6	20S
NYCY7X2/5	2.5	7	17.5	450	0.8	20
NYCY10X2/5	2.5	10	20.5	600	0.8	25
NYCY12X2/5	2.5	12	20.5	660	0.9	25
NYCY19X2/5	2.5	19	23.5	950	1	25
NYCY27X2/5	2.5	27	29.5	1610	1.2	32
NYCY37X2/5	2.5	37	33	1660	1.4	40
NYCY48X2/5	2.5	48	35	200	1.6	40
NYCY2X4	4	2	15.8	378	0.6	20S
NYCY3X4	4	3	16.3	390	0.6	20S
NYCY4X4	4	4	17.3	460	0.6	20
NYCY5X4	4	5	19	550	0.7	20
NYCY7X4	4	7	20	600	0.8	20
NYCY2X6	6	2	17	435	0.6	20S
NYCY3X6	6	3	17.3	500	0.7	20
NYCY4X6	6	4	18.5	580	0.7	20
NYCY5X6	6	5	21	700	0.8	20
NYCY7X6	6	7	22.5	790	0.9	25
NYCY2X10	10	2	18.5	520	0.7	20
NYCY3X10	10	3	20	680	0.8	20
NYCY4X10	10	4	21	765	0.8	25
NYCY5X10	10	5	23	1000	0.9	25
NYCY2X16	16	2	20.5	720	0.8	25

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size	Gland Size
NYCY3X16	16	3	23	1010	0.9	25
NYCY4X16	16	4	23	1060	0.9	25

Multicore armoured 90 °C thermosetting insulated cables. Reproduced from *BS7671:2018 Wiring Regulations*

TABLE 4E4A

CURRENT-CARRYING CAPACITY (amps)

Ambient temperature: 30°C
Ground ambient temperature: 20°C
Conductor operating temperature: 90°C

Conductor cross- sectional area	Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)		Reference Method D (direct in ground or in ducting in ground, in or around buildings)	
	1 two-core cable single-phase AC or DC	1 three- or 1 four- core cable, three- phase AC	1 two-core cable single-phase AC or DC	1 three- or 1 four- core cable, three- phase AC	1 two-core cable single-phase AC or DC	1 three- or 1 four- core cable, three- phase AC
mm2	(A)	(A)	(A)	(A)	(A)	(A)
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728		

1.Where it is intended to connect the cables in this table to equipment or accessories designed to operate at a temperature lower than the maximum operating temperature of the cable, the cables should be rated at the maximum operating temperature of the equipment or accessory (see Regulation 512.1.5).
2.Where it is intended to group a cable in this tablewith other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group (see Regulation 512.1.5).

TABLE 4E4B

VOLTAGE DROP (per ampere per metre)

Conductor operating temperature:90°C

Conductor cross sectional area	Two-core cable DC	Two-core cable, single-phase AC			Three- or four-core cable, three-phase AC		
(mm2)	(mV/Nm)	(mV/Nm)			(mV/Nm)		
1.5	31	31			27		
2.5	19	19			16		
4	12	12			10		
6	7.9	7.9			6.8		
10	4.7	4.7			4.0		
16	2.9	2.9			2.5		
		R	X	Z	R	X	Z
25	1.85	1.85	0.160	1.90	1.60	0.140	1.65
35	1.35	1.35	0.155	1.35	1.15	0.135	1.15
50	0.98	0.99	0.155	1.00	0.86	0.135	0.87
70	0.67	0.67	0.150	0.69	0.59	0.130	0.60
95	0.49	0.50	0.150	0.52	0.43	0.130	0.45
120	0.39	0.40	0.145	0.42	0.34	0.130	0.37
150	0.31	0.32	0.145	0.35	0.28	0.125	0.30
185	0.25	0.26	0.145	0.29	0.22	0.125	0.26
240	0.195	0.20	0.140	0.24	0.175	0.125	0.21
300	0.155	0.16	0.140	0.21	0.140	0.120	0.185
400	0.120	0.13	0.140	0.190	0.115	0.120	0.165

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