CLEVELAND CABLE COMPANY
A WORLD POWER IN CABLE SUPPLY

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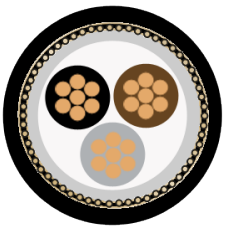
NYCY PVC POWER CABLE



APPLICATION

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

CABLE 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

Insulation: Polyvinyl Chloride (PVC)

Binding Tape: Polyvinyl Chloride (PVC)

Concentric Conductor: Copper Wire

Sheath: Polyvinyl Chloride (PVC)

CHARACTERISTICS

Voltage Rating: 600/1000 Volts

Temperature Limits: Fixed: -20°C to +70°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

2 Core:	Brown	Blue		
3 Core:	Brown	Black	Grey	
4 Core:	Brown	Black	Grey	Blue
5 Core:	Brown	Black	Grey	Blue
	G/Y			

Should not be installed at temperatures below 0^{O}C or above +60^{O}C

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NYCY PVC POWER CABLE- DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM^2)	CONDUCTOR SIZE	NO OF CORES	WEIGHT (KG/KM)	OVERALL DIAMETER (MM)	GLAND SIZE (MM)	NYLON CLEAT SIZE
NYCY2X1/5	1.5	SOLID	2	200	13	20/16	0.5
NYCY3X1/5	1.5	SOLID	3	220	13.2	20/16	0.5
NYCY4X1/5	1.5	SOLID	4	250	14.2	20/16	0.5
NYCY5X1/5	1.5	SOLID	5	330	15	20s	0.6
NYCY7X1/5	1.5	SOLID	7	320	15	20s	0.6
NYCY8X1/5	1.5	SOLID	8	400	17	20	0.7
NYCY10X1/5	1.5	SOLID	10	410	18.4	20	0.8
NYCY12X1/5	1.5	SOLID	12	470	19.4	20	0.8
NYCY19X1/5	1.5	SOLID	19	660	22.5	25	0.9
NYCY27X1/5	1.5	SOLID	27	1020	26.5	25	1.0
NYCY37X1/5	1.5	SOLID	37	1280	30	32	1.1
NYCY48X1/5	1.5	SOLID	48	1600	32	32	1.2
NYCY2X2/5	2.5	SOLID	2	260	13.6	20s	0.5
NYCY3X2/5*	2.5	SOLID	3	280	14.2	20s	0.6
NYCY4X2/5	2.5	SOLID	4	340	15.3	20s	0.6
NYCY5X2/5	2.5	SOLID	5	400	16	20s	0.6
NYCY7X2/5	2.5	SOLID	7	450	17.5	20	0.8
NYCY10X2/5	2.5	SOLID	10	600	20.5	25	0.8
NYCY12X2/5	2.5	SOLID	12	660	20.5	25	0.9
NYCY19X2/5	2.5	SOLID	19	950	23.5	25	1.0
NYCY27X2/5	2.5	SOLID	27	1610	29.5	32	1.2
NYCY37X2/5	2.5	SOLID	37	1660	33	40	1.4
NYCY48X2/5	2.5	SOLID	48	2000	35	40	1.6
NYCY3X4	4	SOLID	3	390	16.3	20s	0.6
NYCY4X4	4	SOLID	4	460	17.3	20	0.6
NYCY5X4	4	SOLID	5	550	19	20	0.7
NYCY7X4	4	SOLID	7	600	20	20	0.8
NYCY2X6	6	SOLID	2	435	17	20s	0.6
NYCY3X6	6	SOLID	3	500	17.3	20	0.7
NYCY4X6	6	SOLID	4	580	18.5	20	0.7
NYCY5X6	6	SOLID	5	700	21	20	0.8
NYCY7X6	6	SOLID	7	790	22.5	25	0.9
NYCY2X10	10	SOLID	2	520	18.5	20	0.7
NYCY3X10	10	SOLID	3	680	20	20	0.8
NYCY4X10	10	SOLID	4	765	21	25	0.8
NYCY5X10	10	SOLID	5	1000	23	25	0.9
NYCY2X16	16	SOLID	2	720	20.5	25	0.8
NYCY3X16	16	SOLID	3	1010	23	25	0.9
NYCY4X16	16	SOLID	4	1060	23	25	0.9

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NYCY PVC POWER CABLE - CURRENT CARRYING CAPACITY (AMPERES)

CONDUCTOR CROSS – SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, 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
1	2	3	4	5	6	7
(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

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

NYCY PVC POWER CABLE - VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA MM²	TWO CORE CABLE DC	TWO CORE CABLE SINGLE-PHASE AC MV/A/M	THREE OR FOUR CORE CABLE THREE-PHASE AC MV/A/M
(MM²)	(MV/A /M)	(MV/A/M)	(MV/A/M)
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	6.8
16	2.9	2.9	2.5

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

CONDUCTOR OPERATING TEMPERATURE: 90°C

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