NYMJ Domestic & Industrial Cable BS50265, PVC - 1.5mm² to 16mm²

Description

NYMJ PVC wiring cable, indoor and outdoor use. Suitable for industrial or domestic applications and designed for dry, moist or wet open areas i.e. under plaster and in concrete. Not suitable for exposure to direct sunlight.

Key Features

Voltage Rating
300/500 Volts

Minimum Bending Radius
Multicore: 4 x overall diameter
Single Core: 7.5 x overall diameter

Flame Retardancy
IEC/EN 60332-1-2

Temperature Limits
Fixed: -40°C to +70°C
Flexing: -5°C to +70°C

Core Colours

2 Core - Brown, Blue

3 Core - Brown, Blue, Green Yellow

4 Core - Brown, Black, Grey, Green Yellow

5 Core - Brown, Black, Grey, Blue, Green Yellow

7 Core and above - Black with White numbers

Standards

- BS EN 50265-2-1
- VDE 0295
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- VDE 0281-1
- UNE 21031-4
- IEC 60227-4
- VDE 0250-204

Construction

- **Conductor**: Up to 10mm^2 - solid copper (Class 1)
- **Conductor**: Above 10mm^2: Stranded copper (Class 2)
- **Insulation**: Polyvinyl Chloride (PVC)
- **Filler**: Extruded Thermoplastic
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: Grey

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

NYMJ Domestic & Industrial Cable BS50265, PVC - 1.5mm² to 16mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Weight(Kg/Km)
NYMJ3X1/5	1.5	3	1/1.38	120
NYMJ4X1/5	1.5	4	1/1.38	140
NYMJ5X1/5	1.5	5	1/1.38	170
NYMJ7X1/5	1.5	7	1/1.38	210
NYMJ12X1/5	1.5	12	1/1.38	405
NYMJ3X2/5	2.5	3	1/1.78	165
NYMJ5X2/5	2.5	5	1/1.78	245
NYMJ3X4R	4	3	1/2.25	240
NYMJ5X4R	4	5	1/2.25	370
NYMJ3X6	6	3	1/2.76	330
NYMJ5X6R	6	5	1/2.76	406
NYMJ3X10BULK	10	3	1/3.56	510
NYMJ5X10BULK	10	5	1/3.56	770
NYMJ3X16BULK	16	3	7/1.70	740
NYMJ5X16BULK	16	5	7/1.70	1150

Multicore 70°C thermoplastic insulated and thermoplastic sheathed cables, non-armoured (COPPER CONDUCTORS) Reproduced from *BS7671:2018 Wiring Regulations*

For cables having flexible conductors, see section 2.4 of this Appendix in regulations for adjustment factors for current-carrying capacity and voltage drop

TABLE 4D2A

Ambient temperature: 30 °C
Conductor operating temperature: 70 °C

CURRENT-CARRYING CAPACITY (amperes):

Conductor cross-sectional area	Reference Method A (enclosed in conduit in thermally insulating wall etc)		Reference Method B (enclosed in conduit on a wall or in trunking etc)		Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)	
	1 two-core cable*, single phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC	1 two-core cable*, single-phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC	1 two-core cable*, single phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC	1 two-core cable*, single phase AC or DC	1 three-core cable* or 1 four-core cable, three phase AC
I	2	3	4	5	6	7	8	9
(mm2)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
1	11	10	13	11.5	15	13.5	17	14.5
1.5	14	13	16.5	15	19.5	17.5	22	18.5
2.5	18.5	17.5	23	20	27	24	30	25
4	25	23	30	27	36	32	40	34
6	32	29	38	34	46	41	51	43
10	43	39	52	46	63	57	70	60
16	57	52	69	62	85	76	94	80
25	75	68	90	80	112	96	119	101
35	92	83	111	99	138	119	148	126
50	110	99	133	118	168	144	180	153
70	139	125	168	149	213	184	232	196
95	167	150	201	179	258	223	282	238
120	192	172	232	206	299	259	328	276
150	219	196	258	225	344	299	379	319
185	248	223	294	255	392	341	434	364
240	291	261	344	297	461	403	514	430
300	334	298	394	339	530	464	593	497
400			470	402	634	557	715	597

* with or without a protective conductor

Multicore 70°C thermoplastic insulated and thermoplastic sheathed cables, non-armoured (COPPER CONDUCTORS) Reproduced from *BS7671:2018 Wiring Regulations*

TABLE 4D2B

VOLTAGE DROP (per ampere per metre): Conductor operating temperature: 70°C

Conductor cross-sectional area	Two-core cable, DC	Two-core cable, single-phase AC			Three- or four-core cable, three-phase AC		
1	2	3			4		
(mm2)	(mV/A/m)	(mV/A/m)			(mV/A/m)		
1	44	44			38		
1.5	29	29			25		
2.5	18	18			15		
4	11	11			9.5		
6	7.3	7.3			6.4		
10	4.4	4.4			3.8		
16	2.8	2.8			2.4		
		r	X	z	r	X	z
25	1.75	1.75	0.170	1.75	1.50	0.145	1.50
35	1.25	1.25	0.165	1.25	1.10	0.145	1.10
50	0.93	0.93	0.165	0.94	0.80	0.140	0.81
70	0.63	0.63	0.160	0.65	0.55	0.140	0.57
95	0.46	0.47	0.155	0.50	0.41	0.135	0.43
120	0.36	0.38	0.155	0.41	0.33	0.135	0.35
150	0.29	0.30	0.155	0.34	0.26	0.130	0.29
185	0.23	0.25	0.150	0.29	0.21	0.130	0.25
240	0.180	0.190	0.150	0.24	0.165	0.130	0.21
300	0.145	0.155	0.145	0.21	0.135	0.130	0.185
400	0.105	0.115	0.145	0.185	0.100	0.125	0.160