Curly Flex PVC Cable - 0.75mm² to 2.5mm²

Description

Curly Flex PVC cable is constructed using finely stranded Class 5 copper conductors to facilitate smooth movement during extension and retraction cycles. Both the internal core insulation and the outer jacket are composed of Polyvinyl Chloride (PVC), a material selected for its versatility and cost-effectiveness in controlled environments. While less resilient than rubber-based alternatives, this construction provides sufficient protection for light-to-medium mechanical applications and is specifically designed for use in dry or damp indoor settings where exposure to harsh chemicals or extreme industrial fluids is minimal.

This cable is frequently specified for commercial and domestic applications, including portable office equipment, handheld power tools, and height-adjustable workstations. Its electrical characteristics typically include a voltage rating of 300/500V, with a thermal operating range generally between +5°C and +70°C for flexible use. To prevent internal conductor fatigue, the bending radius is recommended at approximately 10 to 15 times the outer diameter. These features make it a dependable choice for providing power and control signals to modular furniture, lighting systems, and light-duty machinery where a compact footprint is required.

The technical advantage of this spiralised PVC configuration over a standard straight lead is its efficient management of excess cable length within limited spatial constraints. The inherent memory of the coiled PVC allows the cable to expand as needed and retract immediately, which prevents entanglement and protects the cable from being crushed or caught in moving parts. Furthermore, the spiral design naturally dissipates mechanical tension, reducing the physical strain on termination points and connectors. This ensures a higher degree of operational safety and tidiness in environments where equipment is frequently repositioned or adjusted.

Key Features

Core Colours

3 core - Green Yellow | Blue | Brown

4 core - Green Yellow | Brown | Black | Grey

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

Standards

Construction

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

Curly Flex PVC Cable - 0.75mm² to 2.5mm² - Dimensions

Reference	Overall Spiral Diameter (mm)	Extended Length (mm)	Unextended Length (mm)	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)
CURLYFLEXPVC3X/75	34.00	5000	1000	0.75	3	9.30
CURLYFLEXPVC4X/75	34.00	5000	1000	0.75	4	9.40
CURLYFLEXPVC5X/75	37.00	5000	1000	0.75	5	10.00
CURLYFLEXPVC3X1	35.00	5000	1000	1	3	9.50
CURLYFLEXPVC4X1	35.00	5000	1000	1	4	9.50
CURLYFLEXPVC5X1	40.00	5000	1000	1	5	12.0
CURLYFLEXPVC3X1/5	36.00	5000	1000	1.5	3	10.00
CURLYFLEXPVC4X1/5	41.00	5000	1000	1.5	4	11.40
CURLYFLEXPVC5X1/5	50.00	5000	1000	1.50	5	13.00
CURLYFLEXPVC3X2/5	42.00	5000	1000	2.5	3	11.30
CURLYFLEXPVC4X2/5	47.00	5000	1000	2.5	4	12.30
CURLYFLEXPVC5X2/5	52.00	5000	1000	2.50	5	14.00

TABLE 4F3A - Flexible cables, non-armoured (COPPER CONDUCTORS) Reproduced from BS7671:2018 Wiring Regulations

CURRENT-CARRYING CAPACITY (amperes): and MASS SUPPORTABLE (kg):

Conductor cross sectional area	Current-carrying capacity		Maximum mass supportable by twin flexible cable (see Regulations 522.7.2 and 559.5.2
	Single-phase AC 2	Three-phase AC 3	
(mm2)	(Amps)	(Amps)	(kg)
0.5	3	3	2
0.75	6	6	3
1	10	10	5
1.25	13	-	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

Where cable is on a reel see the notes to Table 4F1A.

RATING FACTOR FOR AMBIENT TEMPERATURE

60 °C thermoplastic or thermosetting insulated cable:	Ambient temperature	35 °C	40 °C	45 °C	50 °C	55 °C		
	Rating factor	0.91	0.82	0.71	0.58	0.41		
90 °C thermoplastic or thermosetting insulated cable:	Ambient temperature	35 to 50 °C	55 °C	60 °C	65 °C	70 °C		
	Rating factor	1.0	0.96	0.83	0.67	0.47		
110 °C flexible cable:	Ambient temperature	35 to 80 °C		85 °C	90 °C	95 °C	100 °C	105 °C
	Rating factor	1.0		0.96	0.85	0.74	0.60	0.42
150 °C flexible cable:	Ambient temperature	35 to 120 °C		125 °C	130 °C	135 °C	140 °C	145 °C
	Rating factor	1.0		0.96	0.85	0.74	0.60	0.42
Glass fibre flexible cable:	Ambient temperature	35 to 50 °C		155 °C	160 °C	165 °C	170 °C	175 °C
	Rating factor	1.0		0.92	0.82	0.71	0.57	0.40

TABLE 4F3B - Flexible cables, non-armoured (COPPER CONDUCTORS) Reproduced from BS7671:2018 Wiring Regulations

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 60 °C

Conductor cross sectional area	DC or single-phase AC	Three-phase AC 3
(mm^2)	(mV/A/m)	(mV/A/m)
0.5	93	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

NOTE:
The values above are for 60 °C thermoplastic or thermosetting insulated flexible cables and for other types of flexible cable they are to be multiplied by the following factors:

FOR:		
90 °C	thermoplastic or thermosetting insulated	1.09
110 °C	thermoplastic or thermosetting insulated	1.17
150 °C	thermoplastic or thermosetting insulated	1.31
185 °C	glass fibre	1.43