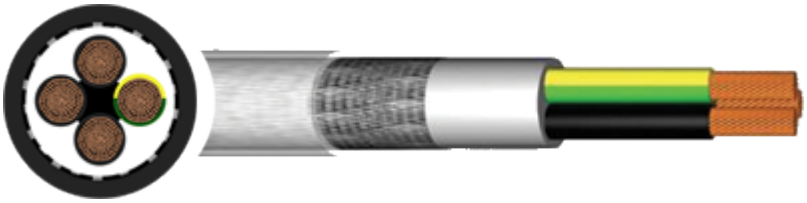
CLEVELAND CABLE COMPANY

SY Control Flex - Temporary Power Leads



Pre-cut & bespoke PVC SY Control cable with a large range of connectors. Flexible, with a high resistance to mechanical stress. For the events/generator industries & film/theatre applications. Available in both single and 3 phase 230V-415V. 3 and 5 core from 2.5mm up to 50mm and single core from 50mm up to 240mm. Cut in standard lengths of 5, 10, 15, 20 and 25 metres or bespoke to customers individual requirements. We can also produce as lug to lug or powerlock to lug.

Should not be installed below 0°C

For more information please consult a member of the Cleveland Cable Sales Team

Key Features

Voltage Rating
230-415V

Temperature Limits
Ambient Temperature: -25°C to +60°C

Construction

- **Conductor**: Plain Annealed Stranded Copper Conductors
- **Insulation**: Polyvinyl Chloride (PVC)
- **Bedding**: Polyvinyl Chloride (PVC)
- **Sheath**: Transparent PVC
- **Armour**: Galvanised Steel Wire Braid Armour

Standards

- Generally to BS EN 50525-2-11, VDE 0250

Core Colours

Core IDs

2 core

Blue | Brown

3 core

Blue | Brown | Green Yellow

4 core

Brown | Black | Grey | Green Yellow

5 core

Blue | Brown | Black | Grey | Green Yellow

SY Control Flex - Temporary Power Leads - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	End 1	End 2	Length(m)	Voltage	Protection Type	Poles	Amperes
3 X 2.5 SY	2.5	3	Plug	Connector	5	230V	IP44	3P	16A
5 X 2.5 SY	2.5	5	Plug	Connector	5	415V	IP44	5P	16A
3 X 4.0 SY	4	3	Plug	Connector	5	230V	IP44	3P	32A
5 X 4.0 SY	4	5	Plug	Connector	5	415V	IP44	5P	32A

Multi core non-armoured 90 °C and 180°C thermosetting insulated flexible cables with sheath Reproduced from BS7671:2018 Wiring Regulations

TABLE 4F2A

CURRENT-CARRYING CAPACITY (Amps)

Ambient temperature: 30 °C
Conductor operating temperature: 90 °C

Conductor cross sectional area	Single-phase AC or DC	Three-phase AC	Single-phase AC or DC
	1 x 2 core cable, with or without protective conductor	1 x 3 core, 4 core or 5 core cable	2 single-core cables, touching
(mm^2)	(A)	(A)	(A)
4	42	37	-
6	55	49	-
10	76	66	-
16	103	89	-
25	136	119	-
35	-	146	200
50	-	177	250
70	-	225	310
95	-	273	369
120	-	316	432
150	-	414	497
185	-	487	564
240	-	560	673
300	-	394	773
400	-	-	924
500	-	-	1062
630	-	-	1242

NOTES:

1 The current ratings tabulated are for cables in free air but may also be used for cables resting on a surface. If the cable is to be wound on a drum on load the ratings should be reduced in accordance with ***NOTE 2*** below and for cables which may be covered, ***NOTE 3 below.***

2 **Flexible cables wound on reeling drums**
The current ratings of cables used on reeling drums are to be reduced by the following factors:

a) Radial type drum
ventilated: 85 %
unventilated: 75 %

b) Ventilated cylindrical type drum
I layer of cable: 85 %
2 layers of cable: 65 %
3 layers of cable: 45 %
4 layers of cable: 35 %

A radial type drum is one where spiral layers of cable are accommodated between closely spaced flanges; if fitted with solid flanges the ratings given above should be reduced and the drum is described as non-ventilated. If the flanges have suitable apertures the drum is described as ventilated.

A ventilated cylindrical cable drum is one where layers of cable are accommodated between widely spaced flanges and the drum and end flanges have suitable ventilating apertures.

3 Where cable may be covered over or coiled up whilst on load, or the air movement over the cable restricted, the current rating should be reduced.

It is not possible to specify the amount of reduction but the table of rating factors for reeling drums can be used as a guide.

4 For 180 °C cables, the rating factors for ambient temperature allow a conductor operating temperature up to 150 °C.
Consult the cable manufacturer for further information.

5 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).

6 Where it is intended to group a cable in this table with 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).

For more information contact: **01642 241 133**

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