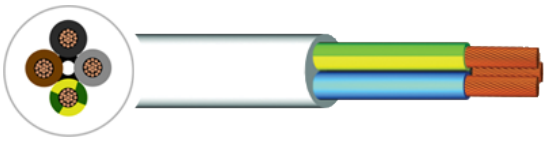
309*Y Flexible Cable - H05V2V2-F, PVC - 0.5mm² to 2.5mm²



Description

309*Y Flexible PVC Cable used in the installation of external electrical appliances. Generally used with appliances that reach / maintain hot temperatures such as heaters. Temperature limits of the 309*Y PVC cable range from -5 to +90°C.

Key Features

Voltage Rating
300/500 Volts

Minimum Bending Radius
Fixed: 6 x overall diameter
Flexing: 10 x overall diameter

Flame Retardancy
BS EN 60332-1-2

Temperature Limits
Temperature Range: 0°C to +90°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

Standards

- Conforms to H05V2V2-F
- BS EN/IEC 60228
- BS EN/IEC 60332-1-2
- BS EN 50525-2-11

Construction

- **Conductor**: Class 5 flexible, stranded copper
- **Insulation**: Polyvinyl Chloride (PVC)
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: White

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

309*Y Flexible Cable - H05V2V2-F, PVC - 0.5mm² to 2.5mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Gland Size
3092Y/5WH	0.5	2	16/0.20	6.3	46	20/16
3093Y/5WH	0.5	3	16/0.20	6.5	66	20/16
3094Y/5WH	0.5	4	16/0.20	7.2	70	20/16
3092Y/75WH	0.75	2	24/0.20	6.8	56	20S
3093Y/75WH	0.75	3	24/0.20	7.2	68	20S
3094Y/75WH	0.75	4	24/0.20	7.7	85	20S
3095Y/75WH	0.75	5	24/0.20	8.5	104	20S
3092Y1WH	1	2	32/0.20	7.2	65	20S
3093Y1WH	1	3	32/0.20	7.7	77	20S
3094Y1WH	1	4	32/0.20	8.5	100	20S
3092Y1/5	1.5	2	30/0.25	8.2	80	20S
3093Y1/5WH	1.5	3	30/0.25	8.9	100	20S
3094Y1/5	1.5	4	30/0.25	10	130	20
3092Y2/5	2.5	2	50/0.25	10	135	20S
3093Y2/5WH	2.5	3	50/0.25	10.8	150	20
3094Y2/5	2.5	4	50/0.25	11.8	195	20

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

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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

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.

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