

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



Standards

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

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.



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

ecovadis









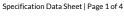












309*Y Flexible Cable - H05V2V2-F, PVC - 0.5mm² to 2.5mm² - Dimensions

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	6.8 56		
3093Y/75WH	0.75	3	24/0.20	7.2	7.2 68		
3094Y/75WH	0.75	4	24/0.20	7.7 85		20\$	
3095Y/75WH	0.75	5	24/0.20	8.5 104		20\$	
3092Y1WH	1	2	32/0.20	7.2 65		20\$	
3093Y1WH	1	3	32/0.20	7.7	7.7 77		
3094Y1WH	1	4	32/0.20	8.5	100	20\$	
3092Y1/5	1.5	2	30/0.25	8.2	80	20\$	
3093Y1/5WH	1.5	3	30/0.25	8.9 100		20\$	
3094Y1/5	1.5	4	30/0.25	10	130	20	
3092Y2/5	2.5	2	50/0.25	10 135		20\$	
3093Y2/5WH	2.5	3	50/0.25	10.8 150		20	
3094Y2/5	2.5	4	50/0.25	11.8	11.8 195		



















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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

onductor cross sectional	Single-phase AC or DC	Three-phase AC	Single-phase AC or DC		
area	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	50 50 50 50 50 50 50 50 - 50 50 50 50 50 50 50 50	146	200		
50		177	250		
70		225	310		
95	-	273	369		
120	-	316	432		
150		363	497		
185	5050 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00	414	564		
240		487	673		
300	-	560	773		
400	-	- 1117 / /1117	924		
500			1062		
630			1242		

NOTES:

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 1 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:

b) Ventilated cylindrical type drum 85 % a) Radial type drum I layer of cable: 2 layers of cable: 65 % unventilated: 75 % 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.

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

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).

















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TABLE 4F2B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 90 °C

Conductor cross- sectional area	Two-core cable or 2 x Single core cables DC	2 core cable, single-phase AC			1 x 3 core, 4 core or 5 core cable, three-phase AC			2 single-core cables, touching Single-phase AC*		
(mm²)	(mV/Nm)		(mV/Nm)		(mV/Nm)			(mV/Nm)		
4	13.20		13.20		11.10			-		
6	8.50		8.50		7.40			-		
10	5.10	5.10			4.40			-		
16	3.20	3.20			2.70			-		
		r	х	z	r	х	z	r	х	z
25	2.03	2.03	0.175	2.04	1.73	0.150	1.73	-	-	-
35	1.420		-	-	1.22	0.150	1.23	1.44	0.21	1.46
50	1.000	-	-	-	0.91	0.145	0.93	1.00	0.21	1.02
70	0.710	-	-	-	0.62	0.140	0.64	0.71	0.20	0.73
95	0.540	-	-	-	0.47	0.135	0.49	0.54	0.195	0.57
120	0.420	-	-	-	0.37	0.135	0.39	0.42	0.190	0.46
150	0.340		_	1 1 2 1 1	0.29	0.130	0.32	0.34	0.190	0.39
185	0.270	-	-	-	0.24	0.130	0.27	0.27	0.190	0.33
240	0.210	-	-	-	0.188	0.130	0.23	0.210	0.185	0.28
300	0.167	-	-	-	0.147	0.125	0.195	0.173	0.180	0.25
400	0.127	-	-	-	-	-	-	0.132	0.175	0.22
500	0.100	-	-		-		-	0.107	0.170	0.20
630	0.074	-	-	-	-	-	-	0.085	0.170	0.190

NOTES:

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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¹ The voltage drop figures given above are based on a conductor operating temperature of 90 °C and are therefore not accurate when the operating temperature is in excess of 90 °C. In the case of the 180 °C cables with a conductor temperature of 150 °C the above resistive values should be increased by a factor of 1.2.

² *A larger voltage drop will result if the cables are spaced.