

# 318\*Y Flexible Cable - H05VV-F, PVC - 0.5mm2 to 4mm2



## Description

PVC flex cable is used as an electrical supply to many household appliances such as refrigerators, washing machines and spin dryers. Plain annealed flexible copper conductors, PVC insulated, PVC outer sheath. Not advised for outdoor use. Available in 100M reels. More details can be found below.

### **Key Features**



Voltage Rating 300/500 Volts



Minimum Bending Radius Fixed: 6 x overall diameter Flexing: 8 x overall diameter



Flame Retardancy BS EN 60332-1-2



**Temperature Limits** Fixed: +5°C to +70°C

#### **Core Colours**



#### **Standards**

- BS EN/IEC 60228
- BS EN/IEC 60332-1-2
- Conforms to H05VV-F

#### Construction

- Conductor: Class 5 Flexible Copper Conductor
- Insulation: Polyvinyl Chloride (PVC)
- Outer Sheath: Polyvinyl Chloride (PVC)
- Sheath Colour: White or Black

## **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



















## 318\*Y Flexible Cable - H05VV-F, PVC - 0.5mm² to 4mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)				
3182Y/5	0.5	2	16/0.20				
3183Y/5	0.5	3	16/0.20				
3182Y/75	0.75	2	24/0.20				
3183Y/75	0.75	3	24/0.20				
3184Y/75	0.75	4	24/0.20				
3185Y/75	0.75	5	24/0.20				
3182Y1	1	2	24/0.20				
3183Y1	1	3	32/0.20				
3184Y1	1	4	32/0.20				
3185Y1	1	5	32/0.20				
3182Y1/5	1.5	2	30/0.25				
3183Y1/5	1.5	3	30/0.25				
3184Y1/5	1.5	4	30/0.25				
3185Y1/5	1.5	5	30/0.25				
3182Y2/5	2.5	2	50/0.25				
3183Y2/5	2.5	3	50/0.25				
3184Y2/5	2.5	4	50/0.25				
3185Y2/5	2.5	5	50/0.25				
3183Y4	4	3	56/0.30				

















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## **TABLE 4D1A**

CURRENT-CARRYING CAPACITY (amperes):

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

Conductor	Reference N		Reference M		Reference	e Method C (clipped	Reference Method F								
cross-	(enclosed in conduit in thermally insulating			n conduit on a trunking etc.)		direct)	(in free air or on a perforated cable tray horizontal or vertical)								
sectional in thermally insulatir area wall etc)		wall of ill	trunking etc.)				Touching	Spaced by one diameter							
	2 cables, single- phase AC or DC	3 or4 cables, three- phase	2 cables, single- phase AC or DC	3 or4 cables, three- phase	2 cables, single- phase AC or DC flat and	3 or4 cables, three- phase AC flat and touching or	2 cables, single- phase AC or DC flat	3 cables, three- phase AC flat	3 cables, three- phase AC	2 cables, single-phase AC or DC or 3 cables three- phas AC flat					
		AC		AC	touching	trefoil			trefoil	Horizontal	Vertical				
	2	3	4	5	6	7	8	9	10	11	12				
(mm 2)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)				
1	11	10.5	13.5	12	15.5	14	-	-	-	-	-				
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-				
2.5	20	18	24	21	27	25									
4	26	24	32	28	37	33									
6	34	31	41	36	47	43									
IO	46	42	57	50	65	59									
16	61	56	76	68	87	79									
25	80	73	101	89	114	104	131	114	110	146	130				
35	99	89	125	110	141	129	162	143	137	181	162				
50	119	108	151	134	182	167	196	174	167	219	197				
70	151	136	192	171	234	214	251	225	216	281	254				
95	182	164	232	207	284	261	304	275	264	341	311				
120	210	188	269	239	330	303	352	321	308	396	362				
150	240	216	300	262	381	349	406	372	356	456	419				
185	273	245	341	296	436	400	463	427	409	521	480				
240	321	286	400	346	515	472	546	507	485	615	569				
300	367	328	458	394	594	545	629	587	561	709	659				
400	-	-	546	467	694	634	754	689	656	852	795				
500	-	-	626	533	792	723	868	789	749	982	920				
630	-	-	720	611	904	826	1005	905	855	1138	1070				
800	-	-	-	-	1030	943	1086	1020	971	1265	1188				
1000	-	-	-	-	1154	1058	1216	1149	1079	1420	1337				

















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#### **TABLE 4D1B**

**VOLTAGE DROP** (per ampere per metre):

Conductor operating temperature: 70  $^{\circ}\text{C}$ 

Conductor	2 cables	2 cables, single-phase AC								3 or 4 cables, three-phase AC													
cross-sectional area	DC	Reference Methods A & B (enclosed in conduit or			Reference Methods C & F (clipped direct, on tray or in free air)					Reference Methods A & B (enclosed in conduit or			Reference Methods C & F (clipped direct, on tray or in free air)										
		trunking)		Cables touching			Cables spaced*			1	trunking)			Cables touching, Trefoil			Cables touching, Flat			Cables spaced*, Flat			
1	2		3			4			5			6			7			8			9		
mm <sup>2</sup>	(mV/ Nm)		(mV/Afm)		(mV/Afm)			(mV/Afm)			(mV/Afm)			(mV/Afm)			(mV/Afm)			(mV/Afm)			
1	44		44			44			44			38			38			38			38		
1.5	29		29			29			29			25			25			25			25		
2.5	18		18			18			18			15			15			15			15		
4	11		11			11			11			9.5			9.5			9.5			9.5		
6	7.3		7.3			7.3			7.3			6.4			6.4			6.4			6.4		
10	4.4		4.4			4.4			4.4			3.8			3.8			3.8			3.8		
16	2.8		2.8			2.8			2.8		2.4			2.4			2.4			2.4			
		r	Х	Z	r	Х	Z	r	Х	Z	r	Х	Z	r	Х	Z	r	X	Z	r	Х	Z	
25	1.75	1.80	0.33	1.80	1.75	0.20	1.75	1.75	0.29	1.80	1.50	0.29	1.55	1.50	0.175	1.50	1.50	0.25	1.55	1.50	0.32	1.55	
35	1.25	1.30	0.31	1.30	1.25	0.195	1.25	1.25	0.28	1.30	1.10	0.27	1.10	1.10	0.170	1.10	1.10	0.24	1.10	1.10	0.32	1.15	
50	0.93	0.95	0.30	1.00	0.93	0.190	0.95	0.93	0.28	0.97	0.81	0.26	0.85	0.80	0.165	0.82	0.80	0.24	0.84	0.80	0.32	0.86	
70	0.63	0.65	0.29	0.72	0.63	0.185	0.66	0.63	0.27	0.69	0.56	0.25	0.61	0.55	0.160	0.57	0.55	0.24	0.60	0.55	0.31	0.63	
95	0.46	0.49	0.28	0.56	0.47	0.180	0.50	0.47	0.27	0.54	0.42	0.24	0.48	0.41	0.155	0.43	0.41	0.23	0.47	0.40	0.31	0.51	
120	0.36	0.39	0.27	0.47	0.37	0.175	0.41	0.37	0.26	0.45	0.33	0.23	0.41	0.32	0.150	0.36	0.32	0.23	0.40	0.32	0.30	0.44	
150	0.29	0.31	0.27	0.41	0.30	0.175	0.34	0.29	0.26	0.39	0.27	0.23	0.36	0.26	0.150	0.30	0.26	0.23	0.34	0.26	0.30	0.40	
185	0.23	0.25	0.27	0.37	0.24	0.170	0.29	0.24	0.26	0.35	0.22	0.23	0.32	0.21	0.145	0.26	0.21	0.22	0.31	0.21	0.30	0.36	
240	0.180	0.195	0.26	0.33	0.185	0.165	0.25	0.185	0.25	0.31	0.17	0.23	0.29	0.160	0.145	0.22	0.160	0.22	0.27	0.160	0.29	0.34	
300	0.145	0.160	0.26	0.31	0.150	0.165	0.22	0.150	0.25	0.29	0.14	0.23	0.27	0.130	0.140	0.190	0.130	0.22	0.25	0.130	0.29	0.32	
400	0.105	0.130	0.26	0.29	0.120	0.160	0.20	0.115	0.25	0.27	0.12	0.22	0.25	0.105	0.140	0.175	0.105	0.21	0.24	0.100	0.29	0.31	
500	0.086	0.110	0.26	0.28	0.098	0.155	0.185	0.093	0.24	0.26	0.10	0.22	0.25	0.086	0.135	0.160	0.086	0.21	0.23	0.081	0.29	0.30	
630	0.068	0.094	0.25	0.27	0.081	0.155	0.175	0.076	0.24	0.25	0.08	0.22	0.24	0.072	0.135	0.150	0.072	0.21	0.22	0.066	0.28	0.29	
800	0.053		-		0.068	0.150	0.165	0.061	0.24	0.25		-		0.060	0.130	0.145	0.060	0.21	0.22	0.053	0.28	0.29	
1000	-0.042		-		0.059	0.150	0.160	0.050	0.24	0.24		-		0.052	0.130	0.140	0.052	0.20	0.21	0.044	0.28	0.28	

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