



PLATFORM PVC H07VVH6-F

A 300/500 volt (0.75 and 1.00mm) and 450/750 volt (1.5-70mm) PVC insulated and PVC sheathed flexible flat cable suitable for energy transmission and control applications. Ideal for use on conveyor and festoon systems and on handling equipment. The lightweight flat profile gives opportunity for installation in confined spaces and tight bending radii.

The cable is suitable for indoor and outdoor applications offering good durability at low temperatures.

CONSTRUCTION

Plain copper class 5 conductor with PVC insulation, colour coded cores to 5 core, 6 cores and above number coded with green yellow CPC. Threads are placed in each group or cores in order to effect stripping of outer sheath. The construction is also available with halogen free materials.

TECHNICAL DATA

BS EN 50214

HD 359 S2 IEC 60227 part 6

Nominal Voltage	300/500v 0.75 and 1.00mm cross sections 450/750 1.5mm and above
Test Voltage	3000v
Operating Temperature Static	-35°C to +70°C
Operating Temperature Flexing	-20°C to +60°C
Bending Radius	10 x cable thickness
Current Rating Table	4F3A & 4F3B

PLATFORM PVC DIMENSIONS

[illegible]



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Table 4F3A

Flexible cords, non-armoured (Copper Conductors)

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

Conductor Cross sectional area	Current carrying capacity		Maximum mass supportable by twin flexible cord (see regulations 522.7.2 & 559.6.1.5)
	Single-phase a.c.	Three-phase a.c.	
1	2	3	4
(mm ²)	(A)	(A)	(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

NOTES:

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

RATING FACTOR FOR AMBIENT TEMPERATURE					
60°C thermoplastic or thermosetting insulated cords:					
Ambient Temp (°C)	35	40	45	50	55
Rating Factor	0.91	0.82	0.71	0.58	0.41

RATING FACTOR FOR AMBIENT TEMPERATURE						
180°C thermosetting insulated cords:						
Ambient Temp (°C)	35 to 120	125	130	135	140	145
Rating Factor	1.0	0.96	0.85	0.74	0.60	0.42

RATING FACTOR FOR AMBIENT TEMPERATURE						
90°C thermoplastic or thermosetting insulated cords:						
Ambient Temp (°C)	35 to 50	55	60	65	70	-
Rating Factor	1.0	0.96	0.83	0.67	0.47	-

RATING FACTOR FOR AMBIENT TEMPERATURE						
Glass fibre cords:						
Ambient Temp (°C)	35 to 150	155	160	165	170	175
Rating Factor	1.0	0.92	0.82	0.71	0.57	0.40

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TABLE 4F3B

Flexible cords, non-armoured (Copper Conductors)

VOLTAGE DROP (per ampere per metre)

Conductor operating temperature: 60°C*

Conductor Cross sectional area	d.c or Single-phase a.c.	Three-phase a.c.
1	2	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

NOTES:

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

90°C thermoplastic or thermosetting insulated	1.09
180°C thermosetting insulated	1.31
185°C glass fibre	1.43

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