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MULTICORE CABLES-318Y PVC H05VV-F CABLE 300/500V

*318Y flexible appliance cable H05VV-F harmonised
cable*

Conductors: Plain annealed flexible copper

Insulation: PVC (Polyvinyl Chloride)

Conductor identification: 2 core: brown & blue, 3 core: brown, blue & green/yellow, 4 core: brown, grey, black & green/yellow, 5 core: brown, blue, grey, black & green/yellow

Sheath/Jacket: PVC (Polyvinyl Chloride)

Colour: Black or white

Voltage: 300/500V

Operating temp: Maximum 60°C. Minimum bending 0°C

Standards: H05VV-F

Applications: suitable for medium duty appliances - eg washing machine

Specification

3182Y

Size sqmm	RT of insulation mm	Nom diameter over laid up cores mm	Nom overall diameter mm	Weight kg/km	Part No		
					Black	White	Orange
0.5	0.6	4.7	4.7	53	37285	37284	-
0.75	0.6	5.4	5.4	63	37288	37289	37290
1.0	0.6	5.8	5.8	73	37293	37295	-
1.5	0.7	6.6	6.6	89	37299	37300	37481
2.5	0.7	7.8	7.8	140	37304	37305	-
4.0	0.8	9.0	9.0	200	37308	37309	-

3183Y

Size sqmm	RT of insulation mm	Nom diameter over laid up cores mm	Nom overall diameter mm	Weight kg/km	Part No		
					Black	White	Orange
0.5	0.6	5.2	7.0	61	37318	37319	-
0.75	0.6	5.8	7.6	74	37325	37327	37323
1.0	0.6	6.3	8.0	86	37334	37335	37616
1.5	0.7	7.1	9.1	115	37341	37342	37617
2.5	0.8	8.4	10.8	170	37346	37347	37615
4.0	0.8	9.7	12.1	250	37350	37351	-

3184Y

Size sqmm	RT of insulation mm	Nom diameter over laid up cores mm	Nom overall diameter mm	Weight kg/km	Part No		
					Black	White	Orange
0.5	0.6	5.8	7.6	73	37607	-	-
0.75	0.6	6.3	8.1	78	-	-	-
1.0	0.6	6.8	8.6	110	-	37531	-
1.5	0.7	7.8	9.8	140	37532	-	-
2.5	0.8	9.2	11.4	210	37547	37551	-
4.0	0.8	10.7	12.9	305	37575	-	-

3185Y

Size sqmm	RT of insulation mm	Nom diameter over laid up cores mm	Nom overall diameter mm	Weight kg/km	Part No		
					Black	White	Orange
0.5	0.6	6.2	8.0	87	-	-	-
0.75	0.6	7.0	8.8	105	-	37559	-
1.0	0.6	7.6	9.6	135	-	37563	-

1.5	0.7	8.7	10.7	174	37608	37560	-
2.5	0.8	10.3	12.5	265	37611	37561	-
4.0	0.8	11.9	14.3	376	-	-	-

Harmonised Codes-Technical Information

Part 1 of the designation

Table 1a: Relationship to standards

Symbol	Relationship of cable to standards
H	Cable conforming with harmonised standards
A	Recognised National Type of cable listed in the relevant Supplement to harmonised standards

Table 1b: Rated voltage

Symbol	Value, U [?] /U*
01	=100/100V; (<300/300V)
03	300/300V
05	300/500V
07	450/750V

The rated voltages not yet harmonised are given in brackets

Part 2 of the designation

Table 2a: Insulating and non-metallic sheathing materials

Note: The descriptions given for the symbols are used in certain instances to cover a group of materials which have similar performance requirements for a given cable type will be found in the appropriate cable standard.

Symbol	Material
B	Ethylene-propylene rubber
G	Ethylene-vinyl-acetate
J	Glass-fibre braid
M	Mineral
N	Polychloroprene (or equivalent material)
N2	Special polychloroprene compound for covering of welding cables according to HD 22.6
N4	Chlorosulfonated polyethylene or chlorinated polyethylene
N8	Special water resistant polychloroprene compound
Q	Polyurethane
Q4	Polyamide

R	Ordinary ethylene propylene rubber or equivalent synthetic elastomer for a continuous operating temperature of 60°C
S	Silicone rubber
T	Textile braid, impregnated or not, on assembled cores
T6	Textile braid, impregnated or not, on individual cores of a multi-core cable
V	Ordinary PVC
V2	PVC compound for a continuous operating temperature of 90°C
V3	PVC compound for cables installed at low temperature
V4	Cross-linked PVC
V5	Special oil resistant PVC compound
Z	Polyolefin-based cross-linked compound having low level of emission of corrosive gases and which is suitable for use in cables which, when burned, have low emission of smoke
Z1	Polyolefin-based thermoplastic compound having low level of emission of corrosive gases and which is suitable for use in cables which, when burned, have low emission of smoke

Table 2b Metallic coverings

Symbol	Sheath, concentric conductors and screens
C	Concentric copper conductor
C4	Copper screen as braid over the assembled cores

Table 2c: Special constructional components of a cable

Note: These symbols, when required, are to follow the symbols selected from any of the previous tables 2a and 2b.

Symbol	Constructional components
D3	Strain-bearing element consisting of one or more textile components, placed at the centre of a round cable or distributed inside a flat cable.
D5	Central heart (non strain-bearing for lift cables only)
D9	Strain-bearing element consisting of one or more metallic components, placed at the centre of a round cable or distributed inside a flat cable.

Table 2d: Special construction of cable

Note: These symbols, when required, are to follow the symbols selected from any of the previous tables 2a to 2c.

Symbol	Special construction
No Symbol	Circular construction of cable
H	Flat construction of "divisible" cables and cores, either sheathed or non-sheathed

H2	Flat construction of "non-divisible" cables and cores
H6	Flat cable having three or more cores, according to DH 359 or EN 50214
H7	Cable having a double layer insulation applied by extrusion
H8	Extensible lead

Table 2e: Conductor material

Note: These symbols, when required are to follow after a dash, the symbols selected from any previous tables 2a to 2d.

Symbol	Conductor material
No Symbol	Copper
-A	Aluminium

Table 2f: Conductor form

Note: These symbols are to follow after a dash (already included in the symbol –A, in the case of aluminium conductors) the symbols selected from any of the previous tables 2a to 2e. For cables containing two forms of conductors the symbol shall designate the form of the phase conductor only.

Symbol	Conductor form
-D	Flexible conductor for use in arc welding cables to HD 22 Part 6 (flexibility to different from class 5 of HD 383)
-E	Highly flexible conductor for use in arc welding cables to HD22 Part 6 (flexibility different from Class 6 of HD 383)
-F	Flexible conductor of a flexible cable or cord (flexibility according to Class 5 of HD 383)
-H	Highly flexible conductor of a flexible cable or cord (flexibility according to Class 6 of HD 383)
-K	Flexible conductor of a cable for fixed installations (unless otherwise specified, flexibility according to Class 5 of HD 383)
-R	Rigid, round conductor, stranded
-U	Rigid round conductor, solid
-Y	Tinsel conductor

Part 3 of the designation

Table 3: Number(s) of cores and nominal cross-section(s) of conductors

Symbol	Number and size of conductors
(number)	Number, n of cores
X	Times, where a green/yellow core is not included
G	Times, when a green/yellow core is included
(number)*	Nominal cross-section, s, of conductor in mm ²
Y	For a tinsel conductor where the cross-section is not specified

Countries are free to assign the "N" (placed after the conductor cross-section) to indicate that the cores are identified by number.

General Examples

nXs or nGs	n cores of s mm ² conductor cross-section
nXs+n-Xs-	n cores of s mm ² and n- cores of s- mm ² conductor cross-section
nXs/s-	n cores of s mm ² conductor cross-section and concentric conductor of s- mm ² cross-section
nXs + n-Xs-/s[®]	n cores of s mm ² + n- cores of s- mm ² conductor cross-section + concentric conductor of s [®] mm ² cross-section

Particular Examples

4 G 50	A cable with four cores having 50mm ² conductor cross-section, one of the cored being green/yellow
4 X 50	A4-core cable without green/yellow core, all the cores having 50mm ² conductor cross-section
3X50 + 1G25	A cable with four cores, three of which have 50mm ² conductor cross-section, while the green/yellow core has a reduced conductor cross-section of 25mm ²
3X70/35	A cable with three cores having 70mm ² conductor cross-section and a concentric conductor of 35mm ² cross-section
2 X Y	A2-core cord with tinsel conductors

Table 4: Survey of symbols and their sequence in cable designations(1)

1	2	3	4	5	6	7	8	9	10	11
Part 1	2	3	4	5	Part 2	7	8	9	Part 3	11
Related Standard	Rated voltage	Insulating material	Metallic coverings (s)	Non-metallic sheath (2)	Constructional components & special instructions	Conductor material	Conductor forms	No. of cores	Times	Conductor size mm ²
				Symbols according to table (s)						
1a	1b	2a	2b	2c and 2d	2e	2f	3			
H	01	B	C	B	D3	No	-D	1	X	Y
A	03	G	C4	G	D5	Symbol: Copper	-E	2		0.5
					D9		-F	3	G	
	05	J		J	----	-H	4			0.75
					No symbol:	-A	-K	5		
					Circular		-R		Etc	
	07	M			Construction Of cable		-U			
							-Y			
		N, N4		N, N2, 4, 8						
					H					2.5
		R		Q, Q4	H2					
					H6					4
		S		R	H7					
					H8					R
					S					
		V, V2		T, T6						
		V3, V4								16
				V, V1, V2						
		Z, Z1		V4, V5						25
				Z, Z1						etc

(1) If two or more symbols listed in the same column need to be used in a given designation, they shall follow each other in their radial sequence starting from the core axis to cable axis.

(2) The symbols might change their position in the designation with respect to the construction of the cable.

4H3A-Technical Information

**TABLE 4H3A Flexible Cords
(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
(mm²)	(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 4H1A

Rating factor for ambient temperature

60°C rubber and pvc cords::					
Ambient Temp (°C)	35	40	45	50	55
Correction factor	0.91	0.82	0.71	0.58	0.41

85°C rubber cords having h.o.f.r. sheath or a heat-resisting pvc sheath and for 85°C and 90°C heat-resisting cords: :

Ambient Temp (°C)	35 to 50	55	60	65	70
Correction factor	1.0	0.96	0.83	0.67	0.47

150°C rubber cords:

Ambient Temp (°C)	35 to 120	125	130	135	140	145
Correction factor	1.0	0.96	0.85	0.74	0.60	0.42

Glass fibre cords:

Ambient Temp (°C)	35 to 150	155	160	165	170	175
Correction factor	1.0	0.92	0.82	0.71	0.57	0.40

TABLE 4F3B

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
(mm²)	(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 rubber-insulated and pvc-insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

85°C rubber or 85°C and 90°C pvc-insulated	1.09
150°C rubber insulated	1.31
185°C glass fibre	1.43

4H3A, 17th Edition-Technical Information

**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
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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

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

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

TABLE 4F3B

VOLTAGE DROP (per ampere per metre): Conductor operating temperature: 60°C*

Conductor cross-sectional area 1 (mm ²)	d.c or single-phase a.c. 2 (mV/A/m)	three-phase a.c. 3 (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

Parts options

Part No.	Core	Size	Colour/Reference
37285	2	0.5sqmm (Class 5)	Black
37284	2	0.5sqmm (Class 5)	White
37288	2	0.75sqmm (Class 5)	Black
37289	2	0.75sqmm (Class 5)	White
37290	2	0.75sqmm (Class 5)	Orange
37293	2	1.0sqmm (Class 5)	Black
37295	2	1.0sqmm (Class 5)	White
37299	2	1.5sqmm (Class 5)	Black
37300	2	1.5sqmm (Class 5)	White
37481	2	1.5sqmm (Class 5)	Orange
37304	2	2.5sqmm (Class 5)	Black
37305	2	2.5sqmm (Class 5)	White
37308	2	4.0sqmm (Class 5)	Black
37309	2	4.0sqmm (Class 5)	White
37318	3	0.5sqmm (Class 5)	Black
37319	3	0.5sqmm (Class 5)	White
37325	3	0.75sqmm (Class 5)	Black
37327	3	0.75sqmm (Class 5)	White
37334	3	1.0sqmm (Class 5)	Black
37335	3	1.0sqmm (Class 5)	White
37616	3	1.0sqmm (Class 5)	Orange
37341	3	1.5sqmm (Class 5)	Black
37342	3	1.5sqmm (Class 5)	White
37617	3	1.5sqmm (Class 5)	Orange
37346	3	2.5sqmm (Class 5)	Black
37347	3	2.5sqmm (Class 5)	White
37615	3	2.5sqmm (Class 5)	Orange
37350	3	4.0sqmm (Class 5)	Black
37351	3	4.0sqmm (Class 5)	White
37567	4	0.75sqmm (Class 5)	Black
37550	4	0.75sqmm (Class 5)	White
37556	4	1.0sqmm (Class 5)	Black
37531	4	1.0sqmm (Class 5)	White
37532	4	1.5sqmm (Class 5)	Black
37554	4	1.5sqmm (Class 5)	White
37547	4	2.5sqmm (Class 5)	Black
37551	4	2.5sqmm (Class 5)	White
37559	5	0.75sqmm (Class 5)	White
37563	5	1.0sqmm (Class 5)	White
37560	5	1.5sqmm (Class 5)	White
37561	5	2.5sqmm (Class 5)	White
37575	4	4.0sqmm (Class 5)	Black
37607	4	0.5sqmm (Class 5)	Black
37608	5	1.5sqmm	Black
37611	5	2.5sqmm (Class 5)	Black
37628	5	0.75sqmm (Class 5)	Black
37323	3	0.75sqmm (Class 5)	Orange