

H05VV-F, 05VV-F*

H05VVH2-F, 05VVH2-F*

300/500V



DIN VDE 0281-5, BS 6500, BS 7919,
NF C 32-201-5, PN-HD 21.5 S3

PVC insulated and sheathed flexible cords



CONSTRUCTION

Conductors:	annealed copper, class 5 flexible conductor acc. to EN 60228
Insulation:	PVC type TI2
Sheath:	PVC type TM2

CHARACTERISTIC

Colour of sheath:	white, black, grey
Core identification:	
2-core:	blue, brown
3-core:	green-yellow, blue, brown
4-core:	green-yellow, brown, black, grey
5-core:	green-yellow, blue, brown, black, grey
7 and more:	green-yellow, + core black with white numbering
Maximum conductor operating temperature:	+70°C
Lowest ambient temperature for fixed installation:	-40°C
Lowest installation temperature:	-5°C
Maximum short-circuit conductor temperature:	+150°C
Minimum bending radius:	6 x D, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm ²
Test voltage:	2000V
Flame retardant:	IEC 60332-1-2

APPLICATIONS

In domestic premises, kitchens, offices; for household appliances, including in damp premises; for medium duties (eg. washing machines, spin dryers, and refrigerators).

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request
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Number and cross-sectional area of conductor	Maximum diameter of wires in conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm ²	mm	mm	mm	mm	kg/km	Ω/km
2x0,5*	0,21	0,6	0,8	5,02	34	39,0
2x0,75	0,21	0,6	0,8	5,8	46	26,0
2x1	0,21	0,6	0,8	6,08	53	19,5
2x1,5	0,26	0,7	0,8	6,9	71	13,3
2x2,5	0,26	0,8	1	8,56	111	7,98
2x4	0,31	0,8	1,1	9,8	155	4,95
2x6*	0,31	0,8	1	10,46	194	3,30
3x0,5*	0,21	0,6	0,8	5,31	40	39,0
3x0,75	0,21	0,6	0,8	6,12	55	26,0
3x1	0,21	0,6	0,8	6,42	65	19,5
3x1,5	0,26	0,7	0,9	7,52	90	13,3
3x2,5	0,26	0,8	1,1	9,38	142	7,98
3x4	0,31	0,8	1,2	10,69	199	4,95
3x6*	0,31	0,8	1,2	11,54	258	3,30
3x10*	0,41	1	1,3	14,59	425	1,91
3x16*	0,41	1	1,3	17,06	623	1,21
3x25*	0,41	1,2	1,6	21,04	957	0,780
3x35*	0,41	1,2	1,6	22,62	1248	0,554
4x0,5*	0,21	0,6	0,8	5,81	49	39,0
4x0,75	0,21	0,6	0,8	6,77	68	26,0
4x1	0,21	0,6	0,9	7,29	83	19,5
4x1,5	0,26	0,7	1	8,52	115	13,3
4x2,5	0,26	0,8	1,1	10,26	174	7,98
4x4	0,31	0,8	1,2	11,69	246	4,95
4x6*	0,31	0,8	1,2	12,69	322	3,30
4x10*	0,41	1	1,3	16,08	533	1,91
4x16*	0,41	1	1,5	19,26	802	1,21
4x25*	0,41	1,2	1,8	23,65	1227	0,780
4x35*	0,41	1,2	1,8	25,41	1607	0,554

*based on norm

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Number and cross-sectional area of conductor	Maximum diameter of wires in conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm ²	mm	mm	mm	mm	kg/km	Ω/km
5x0,5*	0,21	0,6	0,8	6,36	60	39,0
5x0,75	0,21	0,6	0,9	7,57	86	26,0
5x1	0,21	0,7	1,1	9,49	145	19,5
5x1,5	0,26	0,7	1,1	9,49	145	13,3
5x2,5	0,26	0,8	1,2	11,33	218	7,98
5x4	0,31	0,8	1,4	13,1	312	4,95
5x6*	0,31	0,8	1,3	14,16	406	3,30
5x10*	0,41	1	1,4	17,93	673	1,91
5x16*	0,41	1	1,6	21,43	1010	1,21
7x1,5*	0,26	0,7	1,2	11,1	199	13,3

*based on norm

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Number and cross-sectional area of conductor	Maximum diameter of wires in conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm ²	mm	mm	mm	mm	kg/km	Ω/km
2x0,75	0,21	0,6	0,8	4,0 x 6,3	40	26,0
2x1	0,21	0,6	0,8	4,0 x 6,4	45	19,5
2x1,5*	0,26	0,8	0,8	4,7 x 7,8	63	13,3
2x2,5*	0,26	0,8	1,0	5,6 x 8,8	90	7,98

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Current rating

Cross-section, mm ²	Current ratings in Ampere (A)	
	Single phase	Three phase
0,5	3	3
0,75	6	6
1	10	10
1,5	16	16
2,5	25	20
4	32	25

These values apply to the majority of cases. Further information should be sought in unusual cases eg.:

- when high ambient temperatures are involved, ie. above 30°C
- where long lengths are used
- where ventilation is restricted

where the cords are used for other purposes, eg. internal wiring of apparatus.



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