



309-Y, H05V2V2-F, 05V2V2-F*

300/500V

BS EN 50525-2-11

Heat resistant PVC insulated and sheathed flexible cords

APPLICATIONS

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

Standard length cable packing

500 or 1000 m on drums.
Other forms of packing and delivery are available on request.

CONSTRUCTION

Conductors:	Annealed copper, class 5 flexible conductor acc. to EN 60228
Insulation:	Heat resistant PVC 90°C type T13
Sheath:	Heat resistant PVC 90°C type TM3



CHARACTERISTICS

Colour of sheath:	white, black-UV resistant, 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 6 and more: green-yellow, + black with white numbering
Maximum conductor operating temperature:	+90°C
Lowest ambient temperature for fixed installation:	-30°C
Lowest installation temperature:	-5°C
Maximum short-circuit conductor temperature:	+150°C
Minimum bending radius:	6 × D, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm ²
Test voltage:	2000V

Fire performance

Flame retardant:

EN 60332-1-2

Technical and Electrical Characteristics

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n × mm²	mm	kg/km	Ω/km
H05V2V2-F, 05V2V2-F*			
2x0,5*	5,8	44	39
2x0,75	6,2	52	26
2x1	6,4	58	19,5
2x1,5	7,4	80	13,3
2x2,5	9,2	124	7,98
2x4	10,3	168	4,95
3x0,5*	6,1	51	39
3x0,75	6,6	62	26
3x1	6,8	70	19,5
3x1,5	8,1	100	13,3
3x2,5	9,9	155	7,98
3x4	11,1	212	4,95
4x0,5*	6,7	61	39
4x0,75	7,2	74	26
4x1	7,6	88	19,5
4x1,5	9,0	125	13,3
4x2,5	10,8	189	7,98
4x4	12,2	260	4,95
4x6*	13,8	355	3,3
5x0,5*	7,3	74	39
5x0,75	8,0	94	26
5x1	8,3	108	19,5
5x1,5	10,0	158	13,3

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n × mm²	mm	kg/km	Ω/km
5x2,5	12,1	237	7,98
5x4	13,7	332	4,95
5x6*	15,1	438	3,3
6x0,5*	8,3	94	39
6x0,75*	8,9	115	26
7x1*	9,2	138	19,5
H05V2V2H2-F			
2x0,75	3,9 x 6,2	39	26,0
2x1	4,0 x 6,4	45	19,5

*based on norm

Current rating

Cross-section	Current ratings	
	Single phase	Three phase
mm²	A	A
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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