

# H05V2-K / H07V2-K

Construction:	BS EN 50525-2-31 (BS 6004) GOST R MEK 60227-3 (IEC 60227-3)
Flame propagation:	BS EN 60332-1-2
Low Voltage Directive:	2006/95/EC
RoHS Directive:	2011/65/EC



## Description

- Conductor: plain copper wire, flexible, class 5
- Insulation: special 90°C PVC, TI3 quality
- Colour: black, blue, brown, grey, orange, pink, red, light blue, violet, white, yellow, green, yellow/green, orange.  
As two-colour: any combination (H05V2-K)

## Functional characteristics

- Rated voltage:
  - H05V2-K: U<sub>0</sub>/U 300/500 V
  - H07V2-K: U<sub>0</sub>/U 450/750 V
- Max. operating temperature: 90°C
- Min. operating temperature: -10°C (without mechanical shocks)
- Max. short circuit temperature: 160°C

## Special features

Good sliding properties in pipes, good abrasion resistance, easy stripping.

## Installation conditions

- Minimum installation temperature: 5°C
- Recommended minimum bending radius: 4 times the cable diameter
- Recommended maximum tensile stress: 50 N/mm<sup>2</sup> of the cross-section of the copper

## Use and installation method

For use inside electrical equipment in which the cabling operates in high temperature zones. Not to be used in contact with objects at temperatures above 85°C. Not allowed for static installation in distribution systems if the temperature exceeds 70°C.

Suitable for static and protected use inside lighting equipment or inside switching or control equipment, for alternating current up to 1000 V or direct current up to 750 V to ground (H07V2-K). (CEI 20-40, HD 516)

## H05V2-K

Formation	Approx. conductor Ø	Average insulation thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Current rating in pipe in air at 30°C
n° x mm <sup>2</sup>	mm	mm	mm	Ω/km	kg/km	A
1 x 0,5	0,9	0,6	2,5	39,0	9	3
1 x 0,75	1,1	0,6	2,7	26,0	11	6
1 x 1	1,3	0,6	2,8	19,5	14	10

## H07V2-K

Formation	Approx. conductor Ø	Average insulation thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Current rating in pipe in air at 30°C
n° x mm <sup>2</sup>	mm	mm	mm	Ω/km	kg/km	A
1 x 1,5	1,5	0,7	3,4	13,3	20	16
1 x 2,5	2,0	0,8	4,1	7,98	31	20
1 X 4	2,5	0,8	4,8	4,95	45	25
1 X 6	3,0	0,8	5,3	3,30	65	48
1 X 10	4,0	1,0	6,8	1,91	109	66
1 X 16	5,0	1,0	8,1	1,21	163	88
1 X 25	6,2	1,2	10,2	0,780	251	117
1 X 35	7,4	1,2	11,7	0,554	347	144

N.B. Permissible current rating values are according to three-phase circuit