

# H05V-K / H07V-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: PVC, T11 quality
- Colour: black, blue, brown, grey, pink, red, light blue, violet, white, yellow, green, yellow/green, orange.  
As two-colour: any combination (H05V-K)

## Functional characteristics

- Rated voltage  
H05V-K: U<sub>0</sub>/U 300/500 V  
H07V-K: U<sub>0</sub>/U 450/750 V
- Max. operating temperature: 70°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

Fitted inside pipes or ducts, including metal, either visible or recessed, or similar closed systems, but only inside buildings. Suitable for static, 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 (H07V-K).  
(CEI 20-40, HD 516)

## H05V-K

Formation	Ø approx. conductor	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

## H07V-K

Formation	Ø approx. conductor	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	36
1 x 10	4,0	1,0	6,8	1,91	109	50
1 x 16	5,0	1,0	8,1	1,21	163	68
1 x 25	6,2	1,2	10,2	0,780	251	89
1 x 35	7,4	1,2	11,7	0,554	347	110
1 x 50	8,9	1,4	13,9	0,386	493	134
1 x 70	10,5	1,4	16,0	0,272	680	171
1 x 95	12,2	1,6	18,2	0,206	910	207
1 x 120	13,8	1,6	20,2	0,161	1140	239
1 x 150	15,4	1,8	22,5	0,129	1420	275
1 x 185	16,9	2,0	24,9	0,106	1730	314
1 x 240	19,5	2,2	28,4	0,0801	2270	369

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