

H05V-K 300/500 V & H07V-K 450/750 V

PVC Insulated Single Core Wire



Application

H05V-K: For protected fixed installations inside appliances and in or on lighting fittings. For installations in pipes on and under plaster, however, only for signal circuit.

H07V-K: For indoor fixed installations in dry locations, in electrical equipment, switchboards and distributors. Should be installed in surface mounted or embedded conduits, for protected fixed installations in or on lighting fittings. Suitable for installations in machines for nominal voltages up to 1.000 V alternating current or up to 750 V to earth direct current. Cannot be used for installations under the wall surface.

Construction

Conductor material	Fine stranded bare copper
Insulation	Polyvinylchloride (PVC)

Standards and Certifications

EN 50525-3-31

DIN EN 60228 class 5 (construction)

This cable is VDE HAR certified



Technical Data

Nominal voltage H05V-K U ₀ /U	[V]	300 / 500 V
Nominal voltage H07V-K U ₀ /U	[V]	450 / 750 V
Test voltage H05V-K	[V]AC	2000
Test voltage H07V-K	[V]AC	2500
Temperature range	in motion °C	+5°C till +70°C
Operating temperature	short circuit °C	160°C
Short circuit time	max. [sec]	5
Bending radius	min. x diameter	4

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Fire classification CPR class

Reaction to fire EN 60332-1-2 - Eca

Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
H05V-K			
0.5	2.6	10	39
0.75	2.8	12	26
1	2.9	14	19.5
H07V-K			
1.5	3.5	21	13.3
2.5	4.3	32	7.98
4	4.9	47	4.95
6	5.5	67	3.30
10	7.1	115	1.91
16	8.4	175	1.21
25	10.6	280	0.780
35	12.1	375	0.554
50	14.4	550	0.386
70	16.6	760	0.272
95	18.8	1020	0.206
120	20.9	1270	0.161
150	23.3	1600	0.129
185	25.8	1960	0.106
240	29.4	2550	0.0801

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