

H05V-K (X05V-K)
(does not affect the separate, VDE approved H05V-K product)

DB 45 1000 1 EN
valid from: 16.10.2015

Application

H05V-K (X05V-K) are wiring cables with thermoplastic PVC-insulation for protected, stationary installation inside devices as well as inside or on lamps. Suitable for installation inside of closed conduits and cable ducting systems and on or under plaster, but only as part of signal or control circuits.

Under individual part numbers, different core insulation colours and package types are offered for diverse application types. More and more automatic harnessing machines are made use of by the manufacturing sector for the harnessing of such hook-up wires. Especially therefor, we offer parts with embossed cable marking instead of printing and which are delivered inside big one-way cardboard boxes with enhanced cable amount per box. Further standard package types are classic coils with standard order length as well as spools with winded, fix standard length of this wire.

Package types

Coils:	Seven-digit part without final, alphabetic character
Plastic spool:	Eight-digit part with final letter "S" on the eighth place
Small version of big one-way cardboard box:	Eight-digit part with final letter "K" on the eighth place
Big version of big one-way cardboard box:	Eight-digit part with final letter "E" on the eighth place

Design

acc. to EN 50525-2-31 (VDE 0285-525-2-31)

Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228 (VDE 0295), Class 5
Core insulation	PVC compound type TI 1 acc. to EN 50363-3 (VDE 0207-363-3)

Electrical properties

Nominal voltage U_0/U	300 / 500 V
Test voltage	2000 V AC

Mechanical and thermal properties

Minimum bending radius	at intended use:	4 x outer diameter
	for cautious bending:	2 x outer diameter
Temperature range	Fixed installation (without vibration):	-40 °C to +80 °C
	Moved operation:	+5 °C to +70 °C
	Laying/ handling:	Min. +5 °C
	Short-circuit and ground leakage:	Max. +160 °C
	Ambient temperature at storage:	Max. +40 °C
	Max. conductor temperature:	+70 °C
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2 (VDE 0482-332-1-2)	
Tests	acc. to EN 60811-1-4 (VDE 0473-811-1-4); EN 50395 (VDE 0481-395); EN 50396 (VDE 0473-396);	

The cable is characterized with the <HAR> HAR-sign or HAR-identification thread.

EU-Directives	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive), and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).
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