

TOPFLEX® V-K H05V-K & H07V-K

Electric cabinet wiring and domestic use.

ACCORDING TO: EN 50525-2-31 / IEC 60227-3



Eca

APPLICATION

Topflex® H05V-K & H07V-K cable has been specially designed for installations that require a flexible cable due to the complex nature of their layout.

This cable is especially suitable for domestic wiring.

It may also be used for equipment wiring, distributors, cabinets and lighting.

It is also recommended for installation under false ceilings. Cables with cross section up to 1 mm² are especially suited for signalling and monitoring installations.

CONSTRUCTION

Conductor

Electrolytic annealed copper conductor class 5 (flexible) according to EN 60228 and IEC 60228.








Insulation

Extra sliding flexible polyvinyl chloride insulation type T11 according to EN 50363-3.


The standard identification of insulated conductors is the following:


Blue	RAL 5012
Brown	RAL 8003
Black	RAL 9005
Red	RAL 3000
Green/Yellow	RAL 6018/1021
Grey	RAL 7000
Dark Blue	RAL 5010
White	RAL 9010
Orange	RAL 2003
Violet	RAL 4005
Pink	RAL 3015

CHARACTERISTICS

-  **Electrical performance**
Low voltage 300/500 V · 450/750 V.
Rated Voltage:
H05V-K (up to 1 mm²): 300/500 V.
H07V-K (from 1,5 mm² onwards): 450/750 V.
-  **Thermal performance**
Maximum service temperature: 70°C.
Maximum short-circuit temperature: 160°C (max. 5 s).
Minimum installation and handling temperature: 5°C.
Minimum service temperature: -40°C (fixed and protected installations).
-  **Fire performance**
Flame non-propagation according to EN 60332-1 / IEC 60332-1.
Reaction to fire CPR: Eca according to EN 50575.
Reduced halogen emission. Chlorine < 15%.
-  **Mechanical performance**
Minimum bending radius: 5x cable diameter.
-  **Environmental performance**
Chemical & Oil resistance: Acceptable.
-  **Installation conditions**
In conduit.
-  **Other**
Meter by meter marking. (from 10 mm² onwards).

STANDARDS / COMPLIANCE

 **According to**
EN 50525-2-31 / IEC 60227-3

 **Standards and approvals**
HAR / AENOR / SEC / RoHS / CE

 **CPR (Construction Products Regulation)**
Eca



DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm ²)	Diameter (mm)	Weight (kg/km)	In conduit 2 cond. (A) ¹	In conduit 3 cond. (A) ¹	Voltage drop (V/A · km) ²
1 x 0,50	2,1	8	8	-	93,4
1 x 0,75	2,3	11	11	-	62,4
1 x 1	2,5	13	14	-	46,8
1 x 1,5	2,9	19	17,5	15,5	31,9
1 x 2,5	3,6	30	24	21	19,2
1 x 4	4,1	44	32	28	11,9
1 x 6	4,6	61	41	36	7,92
1 x 10	5,9	105	57	50	4,58
1 x 16	7,0	160	76	68	2,90
1 x 25	8,7	245	101	89	1,87
1 x 35	9,9	335	125	110	1,33
1 x 50	11,8	480	151	134	0,926
1 x 70	13,5	655	192	171	0,653
1 x 95	15,6	865	232	207	0,494
1 x 120	17,3	1.095	269	239	0,386
1 x 150	19,3	1.380	-	275	0,310
1 x 185	21,5	1.675	-	314	0,254
1 x 240	24,5	2.210	-	370	0,192
1 x 300	26,9	2.795	-	430	0,153

¹ Reference method B1 for two and three loaded conductors installed in conduit on a wall according to IEC60364-5-52 in open air at 30°C ambient temperature.

² At 70°C conductor temperature, cos φ=1 and single-phase circuit.