

TOPFLEX® V-K H05V-K & H07V-K

Electric cabinet wiring and domestic use.

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



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 specially 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 (PVC), type TII, 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

Other colours available on request.

BOX COLOUR GUIDE

Colours	Cross-Section	Length per box	Colours	Cross-Section	Length per box
Violet	0,75 mm ²	100 m	Blue	2,5 mm ²	100 m or 200 m
Green	1 mm ²	100 m or 200 m	Brown	4 mm ²	100 m or 200 m
Red	1,5 mm ²	100 m or 200 m	Grey	6 mm ²	100 m or 200 m

STANDARDS / COMPLIANCE

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

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

CPR (Construction Products Regulation)
E_{ca}.

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 service temperature: -40°C (fixed and protected installations).
- Fire performance**
Flame non-propagation according to EN 60332-1 and IEC 60332-1.
Reduced halogen emission. Chlorine <15%.
Reaction to fire CPR: E_{ca} according to EN 50575.
- Mechanical performance**
Minimum bending radius: x5 cable diameter.
- Environmental performance**
Chemical performance:
Chemical & Oil resistance: Acceptable.
Water resistance:
Water resistance: AD3 Sprays.
- Installation conditions**
In conduit.
- Other**
Meter by meter marking. (from 10 mm² onwards).

Packaging
Small cross sections (from 0,75 mm² to 6 mm²) are supplied in high resistant colour boxes (see table below). Medium cross sections (from 10 mm² to 35 mm²) are supplied in 100 m sealed coils. Cross sections > 35 mm² are supplied in drums.



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DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm²)	Diameter (mm)	Weight (kg/km)	Open air 30°C (A)	Buried 20°C (A)	Voltage drop (V/A · km)
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	160	76	68	2,9
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	0,31
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 x 400	31,6	3.655	751	661	0,124