



TOPFLEX V-K H05V-K & H07V-K

Electric cabinet wiring and domestic use.

EN 50525-2-31 / IEC 60227-3

DESIGN



E_{ca}

Conductor

Electrolytic copper, class 5 (flexible), based on EN 60228 and IEC 60228.

Insulation

Extra sliding PVC.

The standard identification of insulated conductors is the following:

Blue	RAL 5015
Brown	RAL 8003
Black	RAL 9005
Red	RAL 3000
Green/yellow	RAL 1021 / RAL 6018
Grey	RAL 7000
Dark Blue	RAL 5003
White	RAL 9010
Orange	RAL 2003
Violet	RAL 4005

Other colours available on request

APPLICATIONS

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.





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."



Standard

EN 50525-2-31 / IEC 60227-3



Approvals

CE
 SEC
 HAR
 AENOR
 SASO
 RoHS



E_{ca}



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 based on UNE-EN 60332-1 and IEC 60332-1.
 Reaction to fire CPR: E_{ca} according to 50575.



Mechanical performance

Minimum bending radius: x5 cable diameter.



Chemical performance

Chemical & Oil resistance: Acceptable.



Water performance

Water resistance: AD3 Sprays.



Other

Meter by meter marking (from 10 mm² onwards).



Installation conditions

In conduit.



Applications

Electrical panel wiring.
 Domestic use.



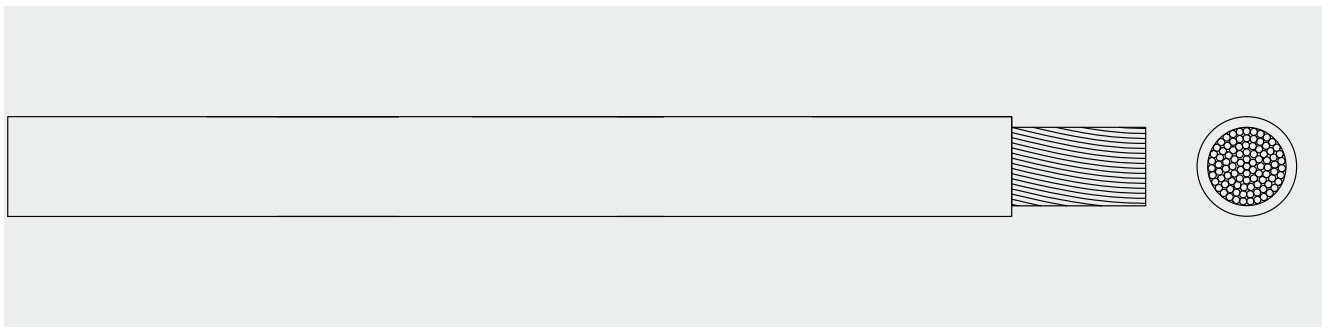
Packaging

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.

BOX COLOUR GUIDE

COLOUR	CROSS-SECTION	LENGHT (M) PER BOX
Violet	0,75 mm ²	100 m
Green	1 mm ²	100 m or 200 m
Red	1,5 mm ²	100 m or 200 m
Blue	2,5 mm ²	100 m or 200m
Brown	4 mm ²	100 m or 200m
Grey	6 mm ²	100 m or 200m





DIMENSIONS

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



Maximum current capacity according to IEC 60364-5-52.

For other installation conditions, please refer to correction factors in the appendix to this catalogue.

See more technical data on the particular cable specification and on its Declaration of Performance (DoP)

Top Cable reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.

For more information please contact sales@topcable.com

