



# TOPFLEX MS TRI-RATED / H07V2-K

Internal wiring of electrical cabinets. (UL, CSA, BS, EN..)

EN 50525-2-31 / UL 758 / CSA C22.2 / BS 6231

## DESIGN



E<sub>ca</sub>

### Conductor

Electrolytic copper, class 5 (flexible), based on EN60228 / IEC 60228 and BS 6360.

### Insulation

Flexible PVC, extra sliding, high service temperature type T13 according to EN 50363-1 and Class 43 UL 1581.

The standard identification of insulated conductors is the following:

Blue	RAL 5012
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
Pink	RAL 3015

Other colours available on request.

## APPLICATIONS

Topflex Tri-rated H07V2-K cable has been designed for the internal wiring of electrical cabinets, switch boards and small electrical devices. Due to its manufacturing characteristics, it can be used in conduit or in flexible motor ducts, transformers and other machinery in general.



TOP CABLE TOPFLEX MS TRIRATED H07V2-K



## CHARACTERISTICS



### Electrical performance

LOW VOLTAGE  
H05V2-K 300/500 V · H07V2-K 450/750 V ·  
BS 600/1000 V · UL 600V



### Standard

EN 50525-2-31 / UL 758 / CSA C22.2 / BS 6231



### Approvals

CE  
HAR  
CSA  
UL LISTED  
RoHS



E<sub>ca</sub>



### Thermal performance

Maximum service temperature: 90°C s/HD and BS, 105°C s/UL and CSA.  
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<sub>ca</sub>, according to EN 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 mm<sup>2</sup> onwards).



### Installation conditions

In conduit.



### Applications

Electrical panel wiring.  
Industrial use.



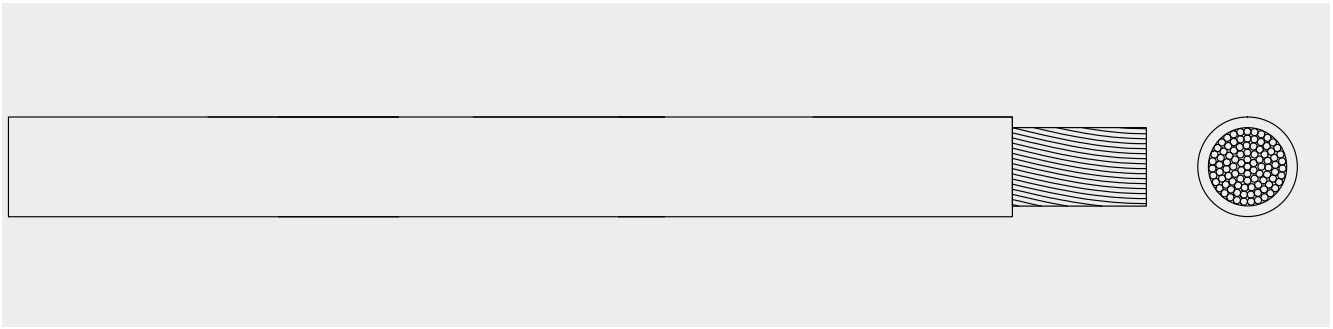
### Packaging

These cables are supplied in 100 m reels, barrels or bulk drums (see table below).

#### CROSS SECTION PACKAGING

0,50-6 mm<sup>2</sup> 100 m reels (or barrels upon request)  
10-16 mm<sup>2</sup> 100 m reels or bulk drums  
25 mm<sup>2</sup> onwards bulk drums





## DIMENSIONS

Cross section (mm <sup>2</sup> )	Diameter (mm)	Weight (Kg/km)	In conduit 2cores 30°C (A)	In conduit 3cores 30°C (A)	Voltage drop (V/A · km)
1 x 0,5	2,4	10	12	10	99,5
1 x 0,75	2,7	13	15	13	66,6
1 x 1	2,8	15	18	16	49,9
1 x 1,5	3,0	20	23	20	34,0
1 x 2,5	3,5	30	31	28	20,4
1 x 4	4,0	45	42	37	12,70
1 x 6	4,6	65	54	48	8,45
1 x 10	6,3	110	75	66	4,89
1 x 16	8,0	180	100	88	3,10
1 x 25	9,4	265	133	117	2,0
1 x 35	10,5	355	164	144	1,42
1 x 50	13,1	510	198	175	0,99
1 x 70	14,5	695	253	222	0,696
1 x 95	16,1	890	306	269	0,527
1 x 120	17,8	1.125	354	312	0,412
1 x 150	20,2	1.415	407	358	0,33
1 x 185	21,9	1.700	464	408	0,27
1 x 240	24,3	2.205	546	481	0,205
1 x 300	27,7	2.800	628	553	0,164
1 x 400	31,6	3.655	751	661	0,124

Cross section (mm <sup>2</sup> )	AWG MCM	UE Denomination CENELEC HD 21	GB Denomination EN 50525-2-31	UL Denomination UL 758	CSA Denomination CSA 22.2
1 x 0,5	22 AWG	H05V2-K	CK	Style 1015	Type TEW
1 x 0,75	20 AWG	H05V2-K	CK	Style 1015	Type TEW
1 x 1	18 AWG	H05V2-K	CK	Style 1015	Type TEW
1 x 1,5	16 AWG	H07V2-K	CK	Style 1015	Type TEW
1 x 2,5	14 AWG	H07V2-K	CK	Style 1015	Type TEW
1 x 4	12 AWG	H07V2-K	CK	Style 1015	Type TEW
1 x 6	10 AWG	H07V2-K	CK	Style 1015	Type TEW
1 x 10	8 AWG	H07V2-K	CK	Style 1028	Type TEW
1 x 16	6 AWG	H07V2-K	CK	Style 1283	Type TEW
1 x 25	4 AWG	H07V2-K	CK	Style 1283	Type TEW
1 x 35	2 AWG	H07V2-K	CK	Style 1283	Type TEW
1 x 50	1 AWG	07V2-K	CK	Style 1284	Type TEW
1 x 70	2/0 AWG	07V2-K	CK	Style 1284	Type TEW
1 x 95	3/0 AWG	07V2-K	CK	Style 1284	Type TEW
1 x 120	4/0 AWG	07V2-K	CK	Style 1284	Type TEW
1 x 150	250 MCM	07V2-K	CK	Style 1284	-
1 x 185	350 MCM	07V2-K	CK	Style 1284	-
1 x 240	450 MCM	07V2-K	CK	Style 1284	-
1 x 300	550 MCM	07V2-K	-	Style 1284	-
1 x 400	750 MCM	07V2-K	-	Style 1284	-



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](mailto:sales@topcable.com)

