



TOPFLEX MS TRI-RATED

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

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

DESIGN

1. Conductor

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

2. Insulation

Flexible PVC, extra sliding, high service temperature type T13 according to UNE 21031/ HD 21 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



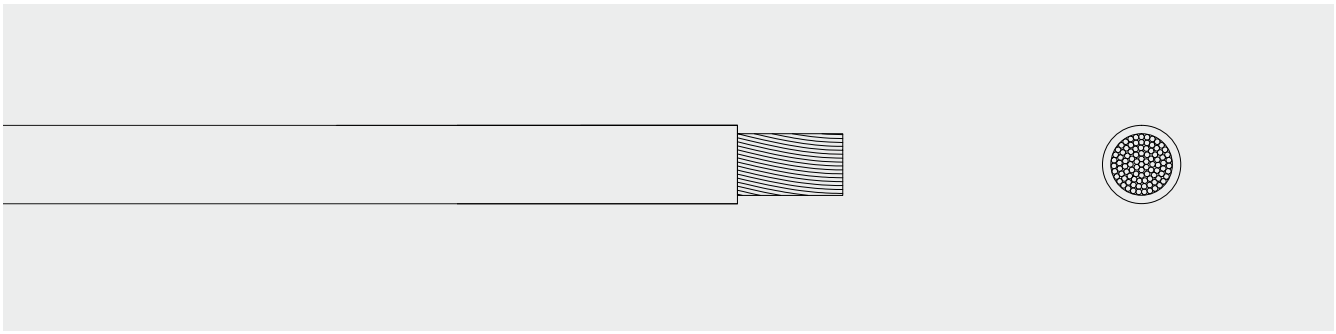
APPLICATIONS

Topflex Tri-rated 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.



This cable render is an example from this product range and does not necessarily match the selected core size or number of cores.





CHARACTERISTICS



Electrical performance

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



Standard

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



Approvals

CE
CSA
UL LISTED
RoHS



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.



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.
Industrial use.



Packaging

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

CROSS SECTION PACKAGING

0,50-6 mm² 100 m reels (or barrels upon request)
10-16 mm² 100 m reels or bulk drums
25 mm² onwards bulk drums





DIMENSIONS

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

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

See more technical data on the particular cable specification.

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

For more information: sales@topcable.com

