

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

# TOPFLEX MS



# TRI-RATED

The universal cable

## DESIGN

### Conductor

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

### Insulation

Flexible PVC, high service temperature type T13 according to UNE 21031/HD 21 and Class 43 UL 1581. The special material used for insulation provides extra sliding properties to the cable.

## APPLICATIONS

The 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.

### Packaging

Small cross sections (from 0,75 mm<sup>2</sup> to 6 mm<sup>2</sup>) are supplied in high resistant boxes (see table below). Medium cross sections (from 10 mm<sup>2</sup> to 35 mm<sup>2</sup>) are supplied in 100 m sealed coils. Cross sections > 35 mm<sup>2</sup> are supplied in drums.

## BOX COLOUR GUIDE

STYLE	CROSS SECTION	PACKAGING
1015	0,75-6 mm <sup>2</sup>	High resistant boxes
1028	10 mm <sup>2</sup>	Sealed coils
1283	16-35 mm <sup>2</sup>	Sealed coils
1284	>50 mm <sup>2</sup>	Drums



## CHARACTERISTICS

- Flexible conductor class 5
- Minimum bending radius: 5 x cable diameter
- Chemical & oil resistance: acceptable
- Minimum service temperature: -40°C (Fixed and protected installation)
- Meter by meter marking: from 10mm<sup>2</sup> onwards
- Maximum service temperature: 90°C s/HD and BS, 105°C s/UL y CSA
- Flame non-propagation
- Maximum short-circuit temperature: 160°C (max. 5 s)
- Water resistance AD3 Sprays

## INSTALLATION CONDITIONS

- In conduit
- Electrical panel wiring

TOPFLEX TRI-RATED					
DIMENSIONS					
Cross section (mm <sup>2</sup> )	Diameter (mm)	Weight (Kg/km)	In conduit 2 cores 30°C (A)	In conduit 3 cores 30°C (A)	Voltage drop (V/A · km)
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

TOPFLEX TRI-RATED					
DIMENSIONS					
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
0,75	20 AWG	H05V2-K	CK	Style 1015	Type TEW
1	18 AWG	H05V2-K	CK	Style 1015	Type TEW
1,5	16 AWG	H07V2-K	CK	Style 1015	Type TEW
2,5	14 AWG	H07V2-K	CK	Style 1015	Type TEW
4	12 AWG	H07V2-K	CK	Style 1015	Type TEW
6	10 AWG	H07V2-K	CK	Style 1015	Type TEW
10	8 AWG	H07V2-K	CK	Style 1028	Type TEW
16	6 AWG	H07V2-K	CK	Style 1283	Type TEW
25	4 AWG	H07V2-K	CK	Style 1283	Type TEW
35	2 AWG	H07V2-K	CK	Style 1283	Type TEW
50	1 AWG	07V2-K	CK	Style 1284	Type TEW
70	2/0 AWG	07V2-K	CK	Style 1284	Type TEW
95	3/0 AWG	07V2-K	CK	Style 1284	Type TEW
120	4/0 AWG	07V2-K	CK	Style 1284	Type TEW
150	250 MCM	07V2-K	CK	Style 1284	-
185	350 MCM	07V2-K	CK	Style 1284	-
240	450 MCM	07V2-K	CK	Style 1284	-
300	550 MCM	07V2-K	-	Style 1284	-
400	750 MCM	07V2-K	-	Style 1284	-

For further technical data please request this cable's technical datasheet.

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

