

Flexible cable for connecting small electrical appliances.

ACCORDING TO: EN 50525-2-11 / IEC 60227-5



**E<sub>ca</sub>**

## APPLICATION

Topflex<sup>®</sup> VV-F H05VV-F cable has been specially designed for connecting small home appliances such as vacuum cleaners, washing machines, refrigerators, etc. It is recommended for household installations and can also be used for light mobile services. These cables are also suitable for fixed applications in furniture, wall partitions, and in hollow spaces of prefabricated building parts.

- Mobile use.
- Domestic use.
- Domestic appliances.
- Temporary appliances.

## CONSTRUCTION

### Conductor

Electrolytic annealed copper conductor, class 5 (flexible) according to EN 60228 and IEC 60228.

### Insulation

Flexible PVC type T12 according to EN 50363-3.

The standard identification of insulated conductors, according to UNE 21089 and HD 308 is the following:

2 x	Blue + Brown
3 G	Blue + Brown + Green/Yellow
4 G	Brown + Black + Grey + Green/Yellow
5 G	Brown + Black + Grey + Blue + Green/Yellow

### Outer sheath

Flexible PVC outer sheath, type TM2 according to EN 50363-4-1. Grey, white or black are the standard outer sheath colours. Other colours available on request.

## STANDARDS / COMPLIANCE



**According to:**  
EN 50525-2-11 / IEC 60227.



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



**CPR (Construction Products Regulation)**  
E<sub>ca</sub>.



## CHARACTERISTICS



### Electrical performance

Low voltage: 300/500 V.



### Thermal performance

Maximum service temperature: 60°C.

Maximum short-circuit temperature: 150°C (max. 5 s).

Minimum service temperature: 5°C



### Fire performance

Flame non-propagation based on EN 60332-1/IEC 60332-1.

Reaction to fire CPR: E<sub>ca</sub> according to EN 50575.

Low halogen emission. Chlorine <15%.



### Mechanical performance

Minimum bending radius:

3 x cable diameter < 12 mm.

4 x cable diameter ≥ 12 mm.

Impact resistance: AG2 Medium severity.



### Environmental performance

Chemical & Oil resistance: Good.

Water resistance: AD5 Jets.



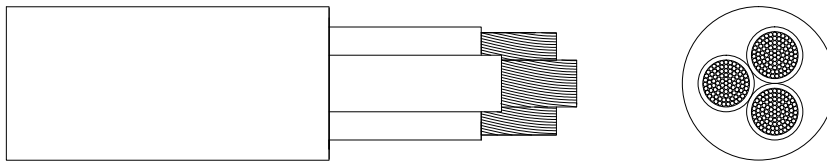
### Installation conditions

Open Air.

Buried.

In conduit.

## DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm <sup>2</sup> )	Diameter (mm)	Weight (kg/km)	Open air (A) <sup>1</sup>	Voltage drop (V/A · km) <sup>2</sup>
2 x 0,75	6,2	55	6	60,3
2 x 1	6,3	60	10	45,2
2 x 1,5	7,1	80	16	30,9
2 x 2,5	9,1	125	25	18,5
2 x 4	10,6	175	32	11,5
3 G 0,75	6,6	65	6	60,3
3 G 1	6,8	75	10	45,2
3 G 1,5	8,0	100	16	30,9
3 G 2,5	9,8	155	25	18,5
3 G 4	11,2	215	32	11,5
4 G 0,75	7,0	75	6	52,2
4 G 1	7,7	90	10	39,2
4 G 1,5	8,9	125	16	26,7
4 G 2,5	10,8	190	20	16,0
4 G 4	12,3	265	25	9,95
5 G 0,75	8,0	100	6	52,2
5 G 1	8,3	110	10	39,2
5 G 1,5	10	150	16	26,7
5 G 2,5	11,9	240	20	16,0
5 G 4	13,9	335	25	9,95

<sup>1</sup> Reference method E for one cable with adequate ventilation according to IEC60364-5-52 in open air at 30°C ambient temperature.

<sup>2</sup> At 60°C conductor temperature and  $\cos \varphi = 1$ .

For cables with 2 or 3 conductors it is supposed a single-phase circuit, for cables with 4 or 5 conductors it is supposed a three-phase circuit.