

H05VV-F & H07VV-F

Flexible cable for connecting small electrical appliances.

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



APPLICATION

H05VV-F & H07VV-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, class 5 (flexible) according to EN 60228 and IEC 60228.

Insulation

Flexible PVC, type T12 according to EN 50363-3 and type PVC/D according to IEC 60227-1.

The standard identification of insulated conductors, according to UNE 21089-1 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, type TM2 according to EN 50363-4-1 and type PVC/ST5 according to IEC 60227-1.

Grey, white or black are the standard outer sheath colours.

Other colours available on request.

CHARACTERISTICS



Electrical performance

Low voltage: 300/500 V. 450/750V

Rated Voltage: H05VV-F (up to 1mm²) 300/500V

H07VV-F (from 1.5mm² onwards) 450/750V



Thermal performance

Maximum conductor temperature: 70°C.

Maximum short-circuit temperature: 160°C (max. 5 s).

Minimum service temperature: 5°C



Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Reaction to fire CPR: E_{ca} 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.

STANDARDS / COMPLIANCE



According to:

EN 50525-2-11 / IEC 60227-5



Standards and approvals

HAR / AENOR / SEC / RoHS / CE



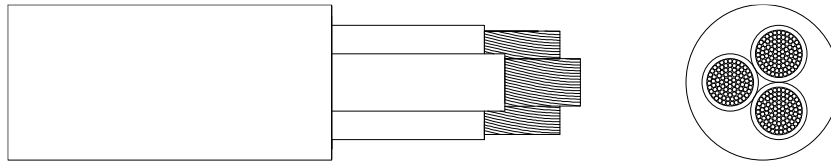
CPR (Construction Products Regulation)

E_{ca}



H05VV-F & H07VV-F

DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm ²)	Diameter (mm)	Weight (kg/km)	Open air (A) ¹	Voltage drop (V/A · km) ²
2 x 0,75	6,2	55	6	62,2
2 x 1	6,3	60	10	46,6
2 x 1,5	7,1	80	16	31,8
2 x 2,5	9,1	125	25	19,1
2 x 4	10,6	175	32	11,8
3 G 0,75	6,6	65	6	62,2
3 G 1	6,8	75	10	46,6
3 G 1,5	8,0	100	16	31,8
3 G 2,5	9,8	155	25	19,1
3 G 4	11,2	215	32	11,8
4 G 0,75	7,0	75	6	53,8
4 G 1	7,7	90	10	40,4
4 G 1,5	8,9	125	16	27,5
4 G 2,5	10,8	190	20	16,5
4 G 4	12,3	265	25	10,2
5 G 0,75	8,0	100	6	53,8
5 G 1	8,3	110	10	40,4
5 G 1,5	10	150	16	27,5
5 G 2,5	11,9	240	20	16,5
5 G 4	13,9	335	25	10,2

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

² At 70°C conductor temperature and $\cos \varphi = 1$.

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

SHORT-CIRCUIT CURRENT-CARRYING CAPACITIES

Time (s)	0,1	0,2	0,3	0,5	1	1,5	2	2,5	3
A/mm ²	364	257	210	163	115	94	81	73	66

CORRECTION FACTORS TEMPERATURE

Air T. (°C)	20	25	30	35	40	45	50	55
Factor	1,15	1,08	1	0,91	0,82	0,71	0,58	0,41