



# H05VV5-F



**Oil resistant PVC sheathed flexible cables.**

## Rated voltage

U<sub>0</sub>/U 300/500 V

## Standards

EN 50525-1, EN 50525-2-51, EN IEC 60332-1-2, EN IEC 60228.

## European directives

2014/35/UE (LVD) - 2011/65/CE e 2015/863/EU (RoHS).

## Conductor

Flexible annealed plain copper class 5 (EN IEC 60228).

## Insulation

PVC of type T12. Colours of the cores:

Two-core : blue-brown;

Three-core : green/yellow-blue-brown or brown-black-grey;

Four-core : green/yellow-brown-black-grey or blue-brown-black-grey;

Five-core : green/yellow-blue-brown-black-grey or blue-brown-black-grey-black.

Black cores with white progressive numbering inscription are possible

## Sheath

PVC of type TM5. Colour of the sheath: black or grey; if explicitly requested, and for agreed quantities, the cables can be supplied in other single colours.

## Marking

Continuous marking on the sheath: on one side « ICEL H05VV5-F IEMMEQU <HAR> ECOGAMMA »; on the opposite side « nominal cross section, year of production, MADE IN ITALY ».

## Guidance for Use

The cables are resistant to general purpose mineral oil.

Suitable for installations for manufacturing purposes including machines tools.

Not suitable for continuous immersion in oil

Further instructions and guidance for use are given in the EN 50565 standard.

According to CPR  
EN IEC  
60332-1-2



Minimum installation and handling temp  
+5 °C



Maximum operating temperature on the conductor

**60 °C**

Maximum short circuit temperature (max 5 sec)

**150 °C**

Minimum usage temperature  
-10 °C



Maximum tensile stress  
1,5 kg/mm<sup>2</sup>



Minimum internal bending radii  
3 ±8 times the overall diameter



Mineral Oil Resistant



Lead Free Ecogamma

**Pb free**

According to RoHS

**RoSH free**

# H05VV5-F



◁HARD▷



Number and nominal cross-sectional area of conductors n x mm <sup>2</sup>	Maximum diameter of conductor wires mm	Thickness of insulation specified value mm	Thickness of sheath specified value mm	Mean overall dimensions		Indicative cable weight g/m	Maximum resistance of conductors at 20 °C ohm/km	Minimum insulation resistance at 70 °C Mohm•km
				MIN mm	MAX mm			
2 x 0,5	0,21	0,6	0,7	5,2	6,6	52	39,0	0,013
2 x 0,75	0,21	0,6	0,8	5,7	7,2	61	26,0	0,011
2 x 1	0,21	0,6	0,8	5,9	7,5	70	19,5	0,010
2 x 1,5	0,26	0,7	0,8	6,8	8,6	92	13,3	0,010
2 x 2,5	0,26	0,8	1,0	8,4	10,6	140	7,98	0,0095
3 G 0,5	0,21	0,6	0,7	5,5	7,0	63	39,0	0,013
3 G 0,75	0,21	0,6	0,8	6,0	7,6	72	26,0	0,011
3 G 1	0,21	0,6	0,8	6,3	8,0	83	19,5	0,010
3 G 1,5	0,26	0,7	0,9	7,4	9,4	115	13,3	0,010
3 G 2,5	0,26	0,8	1,1	9,2	11,4	130	7,98	0,0095
4 G 0,5	0,21	0,6	0,8	6,2	7,9	79	39,0	0,013
4 G 0,75	0,21	0,6	0,8	6,6	8,3	88	26,0	0,011
4 G 1	0,21	0,6	0,8	6,9	8,7	105	19,5	0,010
4 G 1,5	0,26	0,7	0,9	8,2	10,2	145	13,3	0,010
4 G 2,5	0,26	0,8	1,1	10,1	12,5	210	7,98	0,0095
5 G 0,5	0,21	0,6	0,8	6,8	8,6	100	39,0	0,013
5 G 0,75	0,21	0,6	0,9	7,4	9,3	110	26,0	0,011
5 G 1	0,21	0,6	0,9	7,8	9,8	130	19,5	0,010
5 G 1,5	0,26	0,7	1,0	9,1	11,4	180	13,3	0,010
5 G 2,5	0,26	0,8	1,2	11,2	13,9	265	7,98	0,0095

If explicitly requested, and for agreed quantities, a version of the cables without the protective conductor (green/yellow) can be supplied