

Definition

Technical definition: H05VV5-F

Voltage rating: 300/500 V



Max. operative temperature:

operating service:60°C

short-circuit (5 s.) :.....150°C



Voltage test: H05VV5-F-----2000 V (5 min.)

Constructive description: according to UNE 21031-13:

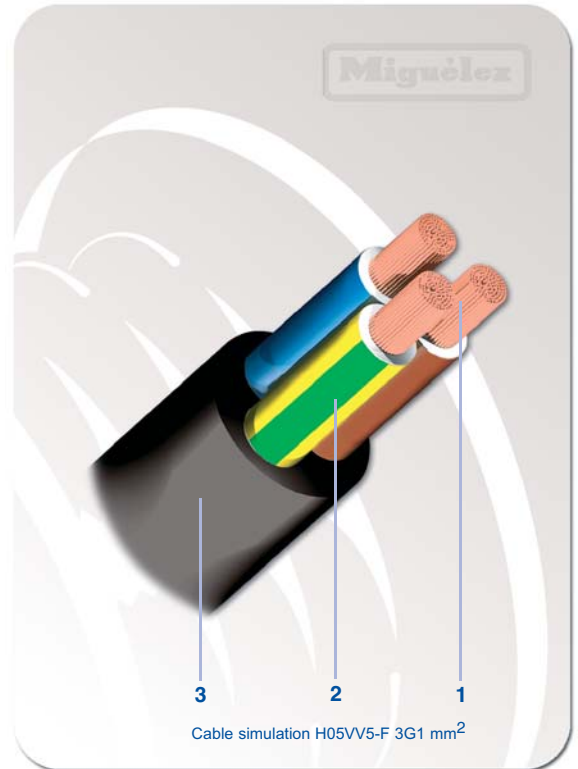
- 1** Flexible electrolytic copper conductor class 5 according to UNE-EN 60228/ EN 60228 /IEC 60228 standard.
- 2** PVC insulation type T1 2 according to UNE 21031-1.
- 3** PVC outer sheath, special nitroxil / PVC compound type TM 5 according to UNE 21031-1 standard. They appear in multi core formation of 2 to 5 isolated phases of 1 mm².



Rank of temperatures of storage, transport and handling

T. minimum °C: +5 *T. maximum* °C: +40 (1)

(1) Exposed to the sun, the surface temperature of the cable can exceed the value given, but limited to a maximum of 60°C.



Cable simulation H05VV5-F 3G1 mm²

Applications

Installation type:MOBILE Ordinary or normal service. Use when risks of mechanical injuries and efforts are weak, and when risk of mechanical injury is weak, a situation which can be found in the use of machinery of small / medium dimensions in domestic commercial equipment.

Users Guide:

H05VV5-F: use "for the interconnection of parts of equipment used for manufacturing, including machines tool.

Whenever the cable does not undergo mechanical efforts during its movement, can be moved once installed, in special for the replaced one, maintenance, fits and inspection of the machinery...

The cables are resistant to mineral oils of general use, but they are not designed to stay in a continuous oil immersion.

They are prepared for using inside constructions. The contamination by acid hydrocarbons must be avoided and alkalis and the cables must be protected from mechanical damages. (UNE 21176)

Functional characteristics

A) Flexibility:

The use of flexible copper conductor forming a rope yarn of some very fine threads in the combination with the isolation equips these cables with exceptional degrees of flexibility.



B) Non flame propagation test:

The composition of the isolation of PVC type TM5, guarantees the non flame propagation according to UNE-EN 60332-2-1 ; EN 60332-2-1 ; IEC 60332-2-1 standards.



C) Suitable for mobile uses:

Standard UNE 21176 recommends its use for light mobile services, extra-light, ordinary even staying temporarily outdoors.



D) Water resistant:

Use condition AD2 (probability of rain drops falling vertically) according to UNE 21176 ANEXO C standard.



E) Sheath resistance to mineral oil:

Its presence is allowed in mineral oils according to EN 60811-2-1(*).



(*) The Barryflex-oil cables fulfill the exigencies of the norm IN 60811-2-1 in section 10 (Test of resistance to the mineral oil, for covers). This norm specifies for the resistance test a mineral oil with the following characteristics: - aniline Point: 93°C+3°C (colorant additive of habitual use in oils and varnishes for wood); - Viscosity to 100 OC: 20 centistokes + - 1 centistokes; - Flash point: 245°C +6°C.v. In most of oils of industrial use, we found inferior values (less aggressive) to the determined ones for the test. Any type of oil, whose characteristics surpass the indicated ones, would entail a variation of the conditions of test, not being able to make sure the integrity of the cable in the presence of this oil. In such case it must be consulted with cable manufacturer.

300 V - 500 V



H05VV5-F



Dimensional characteristics

Code	Nominal Cross section	Ø Overall	Insulation thickness	Weight	Conductor resistance 20°C
	mm ²	mm	mm	Kg/km	Ohm/km
H05VV5-F					
82401	2x1	7.08	0,6	70,7	19,5
82402	3G1	7.15	0,6	76,0	19,5
82403	4G1	7.95	0,6	92,5	19,5
81105	5G1	8.9	0,6	112	19,5

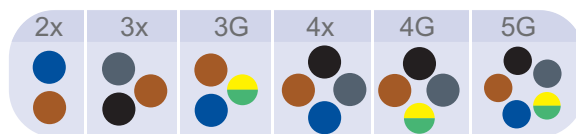
Available references of permanent stock and **Integrated Service** net

Presentation

Boxes, packages and standard pallet sizes

Cable type	M. pallet	Nominal cross section	m./coils
BARRYFLEX oil H05VV5-F	7.200	2x1	100
BARRYFLEX oil H05VV5-F	7.200	3G1	100
BARRYFLEX oil H05VV5-F	6.000	4G1	100
BARRYFLEX oil H05VV5-F	4.800	5G1	100

Colours



PVC 60°C

300-500 V