

# barryflex múltiple VV-F

ES05VV-F

## Definition

Technical definition: ..... ES05VV-F

Voltage rating: ..... 300/500 V



Max. operative temperature:

operating service: ..... 60°C

short-circuit (5 s.): ..... 150°C



Voltage test: ES05VV-F -----2000 V (5 min.)

Constructive description: according to UNE 21031-5:

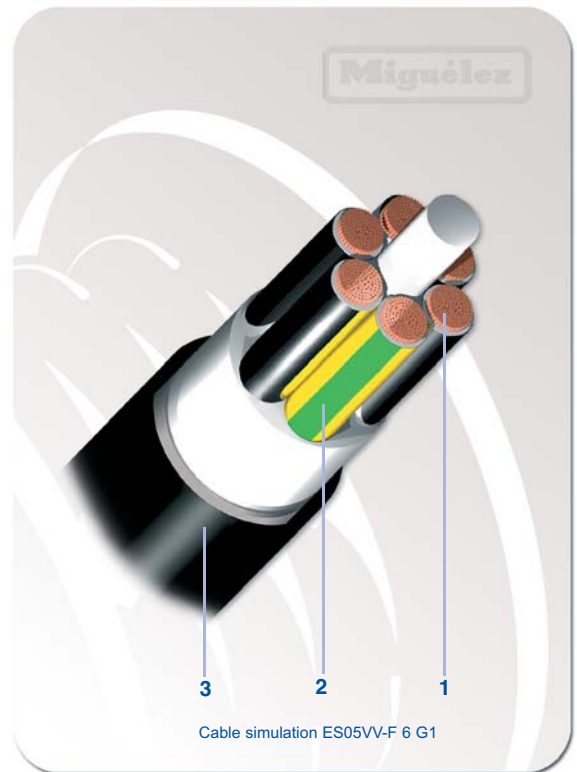
- 1 Flexible electrolytic copper conductor class 5 according to UNE-EN 60228/ EN 60228 /IEC 60228 standard.
- 2 PVC insulation type TI 2 according to UNE 21031-1.
- 3 PVC outer sheath type TM 2 according to UNE 21031-1. They appear in multicore formation of 6 to 60 insulated phases of 1 mm<sup>2</sup> section. Preferent number of conductors 6,7,12,18,27,36,48,60.



Rank of temperatures of storage, transport and handling:

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

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



## Applications

Installation type: .....MOBILE Regular or ordinary service

### Users Guide (1):

**ES05VV-F:** " its use is recommended when a special resistance to the action of mineral oils is not required: for the interconnection of parts of machinery used for the manufacture, including tool machines. Whenever the cable does not undergo mechanical efforts during its movement, can be moved once installed, in special for the repstoration, maintenance, fits and inspection of the machine. Provided to be used inside buildings. Must avoid contamination by acid hydrocarbons and alkalis and cables must be protected from mechanical damages. Its installation in conduits is recommended when its movement in use is not necessary." (UNE 21176)

(1) Cables BARRYFLEX Múltiple VV-F, technical definition: ES05VV-F are not armonized cables. Its construction and use is regulated by the Spanish norm UNE 21031-5 first complement. However, this norm says that its use is the anticipated one for cables according to norm UNE 21031 part 13 chapter 3, when a special resistance to the action of mineral oils is not required, being left its guide of use assigned to this norm with the indicated reservation.

## Functional characteristics

### A) Flexibility:

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



### B) Non flame propagation test:

The composition of the isolation of PVC type TI 1, assures the nonpropagation of the flame 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 resistance:

Use condition AD2 (Probability of rain drops falling vertically) according to UNE 21176 ANNEXED C .





### Dimensional Characteristics

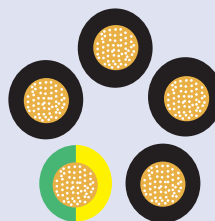
Code	Nominal cross section	Ø Overall	Insulation thickness	Weight	Conductor resistance 20°C
	mm <sup>2</sup>	mm	mm	Kg/km	Ohm/km
<b>ES05VV-F UNE 21031.5 Standard First Complement</b>					
81106	6G1	10.2	0,6	161	19,5
81107	7G1	11.5	0,6	168.3	19,5
81600	8G1	12.8	0,6	201	19,5
81108	10G1	13	0,6	237	19,5
81109	12G1	13.6	0,6	287	19,5
81110	14G1	15.4	0,6	314	19,5
81111	16G1	15.9	0,6	349	19,5
81112	18G1	16.3	0,6	384	19,5
81113	19G1	16.5	0,6	397	19,5
82400	20G1	17	0,6	420	19,5
81114	24G1	19	0,6	489	19,5
81115	27G1	19.6	0,6	551	19,5
81116	30G1	20.8	0,6	598	19,5
81119	37G1	21.9	0,6	718	19,5



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

### Colours

Identified according to the color code harmonized norm **UNE EN 50334** being made up of green a yellow grounding wire (if it's available) and the rest of the black conductors with numeration in white or yellow, at intervals of 50 mm.



### Presentation

#### Boxes, packages and standard pallet sizes

Cable type	M. pallet	Nominal cross section	m.coil
BARRYFLEX múltiple vv-f	4.800	6G1	100
BARRYFLEX múltiple vv-f	4.800	7G1	100

\* Rest of sizes: available in drums