

## Definition

**Technical definition:** .....RVMV-K 0.6/1 kV

**Voltage rating:** ..... 0.6/1 kV



**Max. operative temperature:**

operating service: .....90°C  
short-circuit (5 s.).....250°C



**Voltage test:**      **Alternating current.....3.5 kV.**  
                             **Direct current.....8.5 kV.**

**Constructive description:**

Built according to UNE 21123-2:

- 1 Flexible electrolytic copper conductor class 5 according to UNE-EN 60228/ EN 60228 /IEC 60228 standard.
- 2 XLPE insulation type DIX 3 according to UNE HD 603-1 index 2A.
- 3 Stuffed of PVC (for multicore from 10 mm<sup>2</sup> size).
- 4 PVC inner sheath type DMV-18 according to UNE HD 603-1 index 4A standard.
- 5 Steel wire galvanized armour index
- 6 PVC outer sheath type DMV-18, according to UNE HD 603-1 index 4A.



They appear in single-core formation and multicore of 1 to 5 insulated phases, depending on the installation necessities.

**Minimum temperature allowed for the cable laying during its installation and assembly of accessories:**      0°C



## Applications

**Installation type:** ..... FIXED

**Users Guide:**

**RVMV:** " for the transport and distribution of electrical energy in fixed facilities, protected or not. Adapted for inner and outer facilities, on supports (outdoors), in tubes or buried. Unsuitable for facilities of feeding of submerged pumps." (UNE 21123-2)

On the other hand, it's specially indicated for its use in fixed facilities, in which a high risk of explosion exists; gas stations or pyrotechnics warehouses or with inflammable products. Its use in fixed facilities is recommended to be able to put possible mechanical aggressions, and tensile stress.

**Suitable methods of installation:**

The horizontal range between the clips will not be more than 20 times the diameter of the cable. The distance also is valid between points of support in case of tending on grids carries cables or on trays. In no case this distance must exceed 80 cm.

## Functional characteristics

**A) Mechanical protection:**

The application of a double steel wire armour (or aluminum for the single-core ones) offers an excellent protection against accidental blows, crushing or possible perforations.



**B) Tensile strenght:**

The steel wire galvanized armour allows the cable stay under permanent tensile stress.



**C) Non flame propagation test:**

The composition of the isolation of PVC type DMV-18, guarantees non-flame porpagation according to UNE-EN 60332-2-1 ; EN 60332-2-1 ; IEC 60332-2-1 standards.



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**D) Non fire propagation test:**

According to UNE EN 50266-2-4 / EN 50266-2-4 / IEC 60332-3 ; UNE EN 50266-2-5 / EN 50266-2-5 / IEC 60332-3 standards.

**E) High temperature on service:**

The isolation of XLPE, improves the capacity of power transmission, elevating temperature in permanent service up to 90°C and short - circuit (5 s.) up to 250 °C, in contrast with 70/160 °C of PVC.

**F) Outdoor behaviour:**

It provides an optimal protection before possible environmental agents, allowing its outdoor installation, underground, even in the presence of non permanent humidity.

*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

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Code	Nominal cross section	Ø Overall	Insulation thickness	Weight	Conductor resistance 20°C
85101	2x1,5	11,5	0,7	268,3	13,3
85102	2x2,5	12,4	0,7	314,3	7,98
85103	2x4	13,8	0,7	390,3	4,95
85104	2x6	14,6	0,7	455,5	3,3
85105	2x10	17,7	0,7	667,2	1,91
85106	2x16	19,9	0,7	869,2	1,21
85107	2x25	24,3	0,9	892,3	0,78
85108	3x1,5	11,9	0,7	288,9	13,3
85109	3x2,5	12,9	0,7	347,9	7,98
85110	3x4	14,4	0,7	440,7	4,95
85111	3x6	15,3	0,7	518,1	3,3
85112	3x10	18,5	0,7	768,3	1,91
85113	3x16	22,7	0,7	774,5	1,21
85114	3x25	25,5	0,9	1108,4	0,78
85115	4x1,5	12,7	0,7	327,1	13,3






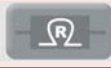
XLPE 90°C

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Next

Code	Nominal cross section	Ø Overall	Insulation thickness	Weight	Conductor resistance 20°C
					
	mm <sup>2</sup>	mm	mm	Kg/km	Ohm/km

RVMV 0,6/1KV					
85116	4x2,5	13,8	0,7	395,8	7,98
85117	4x4	15,4	0,7	506	4,95
85118	4x6	16,4	0,7	600,3	3,3
85119	4x10	19,88	0,7	904,5	1,91
85120	4x16	24,28	0,7	937,4	1,21
85121	4x25	27,48	0,9	1364,1	0,78
85122	4x35	30,74	1	1820,2	0,554
85123	4x50	36,66	1,1	2527,9	0,386
85124	4x70	41,12	1,1	3450,3	0,272
85125	4x95	45,28	0,7	4431,6	0,206
85126	5x1,5	13,5	0,7	369,7	13,3
85127	5x2,5	14,7	0,7	453,5	7,98
85128	5x4	16,5	0,7	583	4,95
85129	5x6	17,7	0,7	704,3	3,3
85130	5x10	22,98	0,7	794,9	1,91
85131	5x16	26,18	0,7	1138,9	1,21
85132	5x25	29,84	0,9	1676,2	0,78

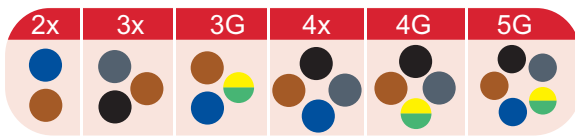
RVMV-K 0,6/1 kV



### Presentation

\* Only available in drums

### Colours



XLPE 90°C

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