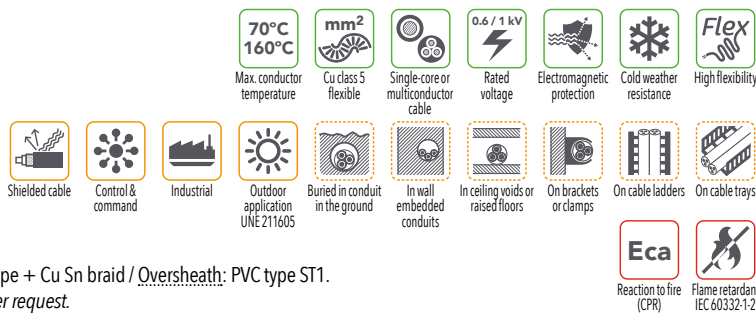


BARRYFLEX SHIELD VC4V-K 0.6/1 kV

DoP: ME1000VC4VK. MIGUÉLEZ ARTICLE GROUP 218



- Standards (construction/tests): UNE 21123-1 and IEC 60502-1.
- Technical designation: VC4V-K 0.6/1 kV.
- Construction: Conductor: Copper, class 5 / Insulation: PVC type PVC/A / Shield: Al/PET tape + Cu Sn braid / Oversheath: PVC type ST1. 100% shield coverage (Cu Sn braid > 65%). Other shield constructions or materials under request.
- Rated voltage (Uo/U): 0.6/1 kV AC.
- Max. conductor temperature. Normal operation / short-circuit (t≤5s): 70 °C / 160 °C.
- Range: Single-core or multicore cable. Configurations: 1 x (1.5...240) mm<sup>2</sup> / 2 x (1.5...150) mm<sup>2</sup> / (3-4)x or G(1.5...150) mm<sup>2</sup> / 5G(1.5...95) mm<sup>2</sup> / (6...27)G(1.5...2.5) mm<sup>2</sup>.
- Reaction to fire classification (CPR - EN 50575 & EN 13501-6): Eca
- Other fire performance features (when the CPR Regulation is not applicable): Flame retardant (IEC 60332-1-2).
- Applications\*\*\*\*: Shielded cable suitable for fixed installations that require electromagnetic protection. Especially designed to be used as a power, command or control cable in industrial plants (s≤10 mm<sup>2</sup> VFD, solenoid valves, regulation...). Perfect for protecting the cable, nearby signal cables or electronic devices against possible disturbances and interferences. Suitable for indoor and outdoor (protected from permanent and direct UV radiation) installations, on supports (brackets, clamps, cable trays or ladders), in conduits or buried in conduit.

Ambient operating temperature (ranges):

- Minimum: -30 °C (static - without exposure to movement, mechanical damages, shocks, or vibrations).
- Maximum: +50 °C.

Minimum temperature for cable laying during installation and assembly of accessories: 0 °C.

This temperature is valid for the cable itself and not for the environment.

If possible, the temperature of the cable shall be raised before laying (e.g., storing the cable in a heated room), in order to facilitate handling and reduce the risk of damages.

Minimum bending radius: 10 x D. D = overall diameter of the cable in mm.

Bending nearby the temperature limits should be carried out extra carefully.

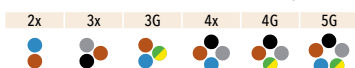
Maximum pulling force:

- If the traction force is applied on the copper conductors:  $F = 50xS(N)$ . "S" = cross sectional area of conductors (mm<sup>2</sup>).
- If the traction force is applied on the oversheath:  $F = 3xD^2(N)$ . "D" = overall diameter of the cable (mm).

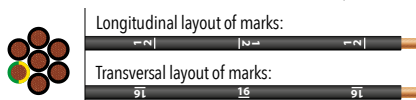
It is assumed that the cable route is well designed for the laying procedure with well-established curves and enough cable rollers (if needed). Special attention shall be paid to the required minimum bending radius.

Identification: Oversheath colour → Black (92).

Core identification for multicore cables (From 2 to 5): HD 308 S2.



Core identification for multiconductor cables (N> 5 cores): EN 50334 (N-1 numbered black cores + G/Y).



Packaging: Drum/cut to length (03).

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)	
					Ω/km	Ω/km
82180100160	1 x 16	1.0	10.5	215	1.21	
82180100250	1 x 25	1.2	12.1	299	0.780	
82180100350	1 x 35	1.2	13.3	399	0.554	
82180100500	1 x 50	1.4	15.1	572	0.386	
82180100700	1 x 70	1.4	16.9	782	0.272	
82180100950	1 x 95	1.6	19.0	1008	0.206	
82180101200	1 x 120	1.6	20.6	1244	0.161	
82180101500	1 x 150	1.8	22.8	1569	0.129	
82180101850	1 x 185	2.0	24.8	1853	0.106	
82180102400	1 x 240	2.2	28.4	2499	0.0801	
82180201-50	2 x 1.5	0.8	9.8	118	13.3	
82180202-50	2 x 2.5	0.8	10.6	149	7.98	
82180200040	2 x 4	1.0	12.6	194	4.95	
82180200060	2 x 6	1.0	13.6	250	3.30	
82180200100	2 x 10	1.0	15.4	372	1.91	
82180311-50	3 G 1.5	0.8	10.3	132	13.3	
82180312-50	3 G 2.5	0.8	11.1	173	7.98	
82180310040	3 G 4	1.0	13.2	229	4.95	
82180310060	3 G 6	1.0	14.3	304	3.30	
82180310100	3 G 10	1.0	16.3	460	1.91	
82180411-50	4 G 1.5	0.8	11.1	153	13.3	
82180412-50	4 G 2.5	0.8	12.1	210	7.98	
82180410040	4 G 4	1.0	14.5	284	4.95	
82180410060	4 G 6	1.0	15.7	381	3.30	
82180410100	4 x 10	1.0	17.8	576	1.91	
82180511-50	5 G 1.5	0.8	12.0	183	13.3	
82180512-50	5 G 2.5	0.8	13.1	247	7.98	
82180510040	5 G 4	1.0	15.8	340	4.95	
82180510060	5 G 6	1.0	17.1	458	3.30	
82180510100	5 G 10	1.0	19.5	708	1.91	
82180611-50	6 G 1.5	0.8	12.9	232	13.3	
82180612-50	6 G 2.5	0.8	14.1	295	7.98	
82180711-50	7 G 1.5	0.8	12.9	249	13.3	
82180712-50	7 G 2.5	0.8	14.1	316	7.98	
82181011-50	10 G 1.5	0.8	16.0	327	13.3	
82181012-50	10 G 2.5	0.8	17.6	400	7.98	
82181411-50	14 G 1.5	0.8	17.5	462	13.3	
82181412-50	14 G 2.5	0.8	19.3	543	7.98	
82181711-50	17 G 1.5	0.8	18.9	535	13.3	
82181712-50	17 G 2.5	0.8	20.9	631	7.98	
82181911-50	19 G 1.5	0.8	19.8	586	13.3	
82181912-50	19 G 2.5	0.8	21.9	742	7.98	
82182411-50	24 G 1.5	0.8	21.8	690	13.3	
82182412-50	24 G 2.5	0.8	24.2	867	7.98	
82182711-50	27 G 1.5	0.8	22.9	767	13.3	
82182712-50	27 G 2.5	0.8	25.4	943	7.98	

\* Color and packing codes (standard):  
 - Black oversheath (92)  
 - Drum/cut to length (03).

\* Short product code. Must be completed with the corresponding characters for 'oversheath colour' and 'packaging'. Check the 'Miguelélez product code' section on our web page, in 'Downloads'.  
 \*\* Check the CPR-classified range and the range included in the certifications indicated for each product, as well as much more information about our products, on the website: www.miguelélez.com  
 \*\*\* Dimensional and weight values are approximate and subject to normal manufacturing tolerances.  
 \*\*\*\* It is the sole responsibility of the end user to determine suitability of this product for its intended use and application. Please, consult the regulations, laws or standards that are applicable to each particular case. The installation systems and additional requirements established by any regulation, law and/or standards applicable to each particular case must be met.