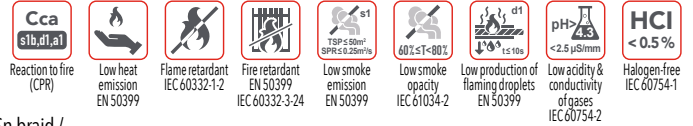


AFIRENAS SHIELD Z1C4Z1-K (AS) 300/500 V

DoP : MC05Z1C4Z1K-02. MIGUÉLEZ ARTICLE GROUP 217



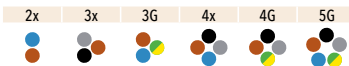
- Standard (construction/tests): EN 50525-3-11 (reference).
- Technical designation: Z1C4Z1-K (AS) 300/500 V.
- Construction:

Conductor: Copper, class 5 / Insulation: Thermoplastic polyolefin LSZH / Shield: Al/PET tape + Cu Sn braid / Oversheath: Thermoplastic polyolefin LSZH.
100% shield coverage (Cu Sn braid > 65%).

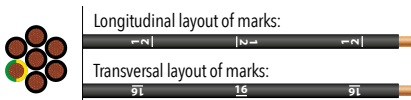
- Rated voltage (Uo/U): 300/500 V AC.
- Max. conductor temperature. Normal operation / short-circuit (t≤5s): 70 °C / 160 °C.
- Range: Multiconductor cable.
Configurations: 2x(0,5...4) mm² / 3x 0 3G(0,5...4) mm² / 4x 0 4G(0,5...4) mm² / 5G(0,75...4) mm² / (6...30) X o G 0,5 mm² (6...28) X o G 0,75 mm² / (6...24) X o G 1 mm² / (6...17) X o G 1,5 mm² / (6...12) X o G 2,5 mm².
- Reaction to fire classification (CPR - EN 50575 & EN 13501-6): Cca-s1b,d1,a1.
- Other fire performance features (when CPR Regulation is not applicable): Flame & fire retardant, halogen-free and low gas and smoke emission with low opacity/toxicity/corrosivity/conductivity (IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2 and IEC 61034-2).
- Applications: Shielded cable suitable for fixed installations that require protection against disturbances and electromagnetic interference. Especially designed to be used as a signaling, command or control cable in those installations which require electromagnetic protection (solenoid valve control, automaton and machine start-up, regulation...) and a special performance in case of fire (tunnels, high-rise buildings, fire hazard premises, airports, hospitals (or other public access premises)).
 - 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. Under normal conditions of care. 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 (mm²).
 - 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 → Green.

- 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.

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum DC resistance at 20 °C
82170200-50	2 x 0.5	0.6	7.7	76	39.0
8217020-50	2 x 0.75	0.6	7.8	81	26.0
82170200010	2 x 1	0.6	8.3	87	19.5
82170201-50	2 x 1.5	0.7	9.2	107	13.3
82170202-50	2 x 2.5	0.8	10.5	144	7.98
82170200040	2 x 4	0.8	11.8	183	4.95
82170310-50	3 G 0.5	0.6	8.0	87	39.0
8217031-750	3 G 0.75	0.6	8.2	95	26.0
82170310010	3 G 1	0.6	8.6	104	19.5
82170311-50	3 G 1.5	0.7	9.7	129	13.3
82170312-50	3 G 2.5	0.8	11.2	187	7.98
82170310040	3 G 4	0.8	12.5	237	4.95
82170410-50	4 G 0.5	0.6	8.7	100	39.0
8217041-750	4 G 0.75	0.6	8.9	110	26.0
82170410010	4 G 1	0.6	9.3	121	19.5
82170411-50	4 G 1.5	0.7	10.5	154	13.3
82170412-50	4 G 2.5	0.8	12.1	221	7.98
82170410040	4 G 4	0.8	13.6	279	4.95
8217051-750	5 G 0.75	0.6	9.6	126	26.0
82170510010	5 G 1	0.6	10.0	140	19.5
82170511-50	5 G 1.5	0.7	11.3	180	13.3
82170512-50	5 G 2.5	0.8	13.1	262	7.98
82170510040	5 G 4	0.8	14.7	341	4.95
82170610-50	6 G 0.5	0.6	10.0	127	39.0
8217061-750	6 G 0.75	0.6	10.3	142	26.0
82170610010	6 G 1	0.6	10.7	158	19.5
82170611-50	6 G 1.5	0.7	12.1	205	13.3
82170612-50	6 G 2.5	0.8	14.0	287	7.98
82170710-50	7 G 0.5	0.6	10.4	141	39.0
8217071-750	7 G 0.75	0.6	10.7	159	26.0
82170710010	7 G 1	0.6	11.1	177	19.5
82170711-50	7 G 1.5	0.7	12.6	231	13.3
82170712-50	7 G 2.5	0.8	14.7	327	7.98
82170810-50	8 G 0.5	0.6	11.3	154	39.0
8217081-750	8 G 0.75	0.6	11.5	175	26.0
82170810010	8 G 1	0.6	12.0	196	19.5
82170811-50	8 G 1.5	0.7	13.6	255	13.3
82170812-50	8 G 2.5	0.8	16.0	365	7.98
82171010-50	10 G 0.5	0.6	12.4	177	39.0
8217101-750	10 G 0.75	0.6	12.7	203	26.0
82171010010	10 G 1	0.6	13.3	230	19.5
82171011-50	10 G 1.5	0.7	15.1	310	13.3
82171012-50	10 G 2.5	0.8	17.7	443	7.98
82171210-50	12 G 0.5	0.6	12.6	194	39.0
8217121-750	12 G 0.75	0.6	13.1	227	26.0
82171210010	12 G 1	0.6	13.6	261	19.5
82171211-50	12 G 1.5	0.7	15.6	359	13.3
82171212-50	12 G 2.5	0.8	18.2	513	7.98
82171410-50	14 G 0.5	0.6	13.3	217	39.0
8217141-750	14 G 0.75	0.6	13.6	253	26.0
82171410010	14 G 1	0.6	14.4	297	19.5
82171411-50	14 G 1.5	0.7	16.4	406	13.3
82171710-50	17 G 0.5	0.6	14.6	261	39.0
8217171-750	17 G 0.75	0.6	15.0	302	26.0
82171710010	17 G 1	0.6	15.7	353	19.5
82171711-50	17 G 1.5	0.7	18.0	486	13.3
82172010-50	20 G 0.5	0.6	15.4	297	39.0
8217201-750	20 G 0.75	0.6	15.9	354	26.0
82172010010	20 G 1	0.6	16.6	415	19.5
82172410-50	24 G 0.5	0.6	16.8	332	39.0
8217241-750	24 G 0.75	0.6	17.4	394	26.0
82172410010	24 G 1	0.6	18.2	474	19.5
82172810-50	28 G 0.5	0.6	17.8	375	39.0
8217281-750	28 G 0.75	0.6	18.3	455	26.0
82172910-50	29 G 0.5	0.6	17.9	385	39.0
82173010-50	30 G 0.5	0.6	18.5	392	39.0

* 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.