

Definition

Technical definition:SZ1MZ1-K(AS+)0,6/1 kV PH90

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



Max operative temperature:

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

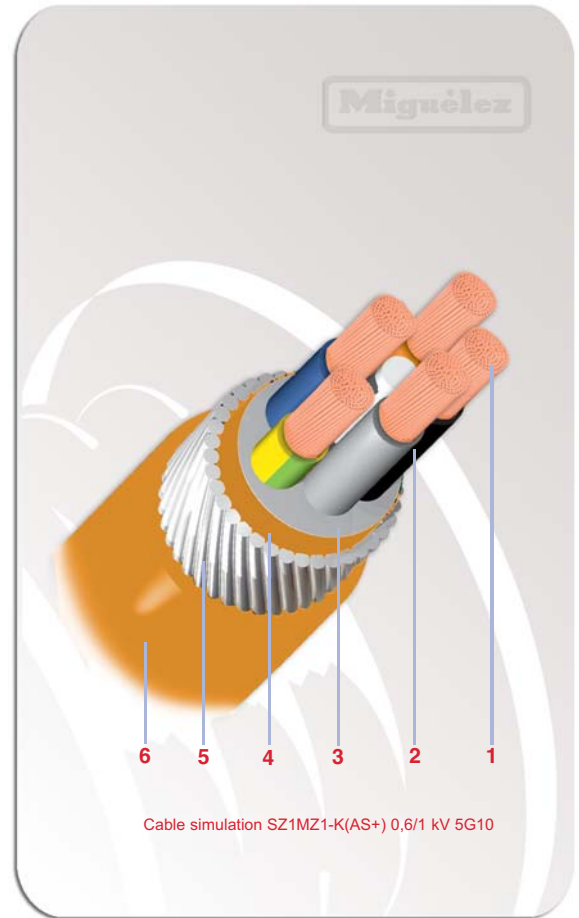


Voltage test: Alternating current.....3.5 kV.
Direct current..... 8.5 kV.

Constructive description:

according to EA 025 standard:

- 1 Flexible electrolytic copper conductor class 5 according to UNE-EN 60228/ EN 60228 /IEC 60228 standard.
- 2 Isolation made of a special cross-linked halogen free compound.
- 3 Polyolefine stuffed(for multi-core from 10 mm2 section).
- 4 Polyolefine inner sheath according to UNE 21123-4 annexed 1 index 1.
- 5 Double steel wire armour (or aluminium for a single-core cables) Applied in helix form.
- 6 Outer



Applications

Installation type:FIXED

SZ1MZ1-K (AS+) 0,6/1 kV PH90: These cables are recommended for all those facilities in which we should maintain the integrity of the circuits although these are affected directly by the fire. Specially recommended for circuits of security, for example:
These cables are adapted to use in non independent circuits of security and circuits of services with centralized independent sources. Alarm circuits, signaling and emergency lighting systems, acoustic signaling, smoke extractors, water pumps for fire extinction. Highly recommended in agricultural / cattle production plants or facilities, where the presence of rodents can suppose a threat for the integrity of the cable. Also it is highly recommended in public lightning installations.

Functional characteristics

A) Non flame propagation test:

The composition of the isolation of thermoplastic polyolefine, guarantees the non-flame propagation of the flame according to: UNE-EN 60332-2-1 ; EN 60332-2-1 ; IEC 60332-2-1 standards.



B) 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.



C) Density of smoke (smoke-screening):

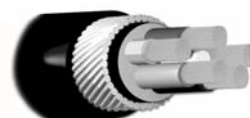
In case of fire, avoids loss of visibility due to smoke produced by cable combustion, according to UNE EN 61034-2 / EN 61034-2 / IEC 61034-2 standards.



0,6 / 1 kV



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**D) Acidity and gases corrosivity:**

In case of fire, the index acidity and the conductivity the emanated gases according to **UNE EN 50267-2-3 / EN 50267-2-3 / IEC 60754-2+A1** standards. minimum PH $\geq 4,3$ / maximum conductivity ($\mu\text{S}/\text{cm}$) ≤ 100 .

**E) Halogenous determination:**

In case of fire, the emission of monoxide of carbon, carbon dioxide and hydrochlorate acid is lower to 0.5 %, according to: **UNE EN 50267-2-1/ EN 50267-2-1 / IEC 60754-1** standards.

**F) Fire resistance:**

According to **UNE-EN 50200 / EN 50200** standards.



* For cables of diameter over 20 mm or nominal cross section over 2.5 mm².
UNE EN 50362 standard will be applied.

Dimensional characteristics

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

SZ1MZ1-K(AS+) 0,6/1 kV PH90					
85650	2x1,5	12,1	0,7	308,7	13,3
85651	2x2,5	13,1	0,7	361	7,98
85652	2x4	15,1	0,7	478,7	4,95
85653	2x6	16,1	0,7	556,2	3,3
85654	2x10	19	0,7	773,7	1,91
85655	2x16	21,2	0,7	987,1	1,21
85656	2x25	26,2	0,9	1027,7	0,78
85657	3x1,5	12,6	0,7	335,9	13,3
85658	3x2,5	13,7	0,7	406,1	7,98
85659	3x4	15,8	0,7	539,5	4,95
85660	3x6	16,9	0,7	634,5	3,3
85661	3x10	19,7	0,7	876,6	1,91
85662	3x16	23,8	0,7	882,3	1,21
85663	3x25	27,5	0,9	1259,9	0,78
85664	4x1,5	13,4	0,7	383,2	13,3
85665	4x2,5	14,6	0,7	459,5	7,98
85666	4x4	17	0,7	621,1	4,95

Termoestabile 90°C

0,6 / 1 kV



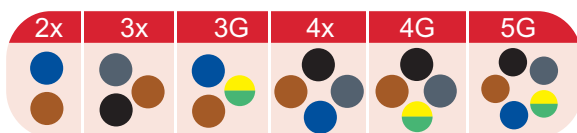
SZ1MZ1-K(AS+) 0,6/1 kV PH90

Next

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

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85667	4x6	18,2	0,7	738,7	3,3
85668	4x10	21,2	0,7	1029,2	1,91
85669	4x16	25,6	0,7	1071,5	1,21
85670	4x25	29,7	0,9	1540,7	0,78
85671	4x35	33,06	0,9	2022,5	0,554
85672	4x50	38,88	1	2812,1	0,386
85673	4x70	42,94	1,1	3704	0,272
85674	4x95	47,8	1,1	4821,3	0,206
85675	5x1,5	14,2	0,7	431,3	13,3
85676	5x2,5	15,6	0,7	527,3	7,98
85677	5x4	18,3	0,7	722,2	4,95
85678	5x6	19,6	0,7	861	3,3
85679	5x10	24,7	0,7	941	1,91
85680	5x16	27,6	0,7	1298,2	1,21
85681	5x25	32,36	0,9	1895,8	0,78

Colours



Presentation

* Only available in drums