

Definition

Technical definition:SZ1FZ1-K(AS+)/SZ1FZ1-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
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Applications

Installation type:FIXED

Guía de utilización:

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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

90°      

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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.

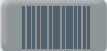





**F) Fire resistance:**

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

SZ1FZ1-K(AS+)/SZ1FZ1-K(AS+)0,6/1 kV PH90					
85700	1x25	15,6	0,9	476,3	0,78
85701	1x35	16,9	0,9	590,9	0,554
85702	1x50	18,8	1	766,8	0,386
85703	1x70	20,3	1,1	969	0,272
85704	1x95	22,2	1,1	1219,3	0,206
85705	1x120	24	1,2	1473,7	0,161
85706	1x150	26,2	1,4	1791,8	0,129
85707	1x185	28,8	1,6	2129,1	0,106
85708	1x240	31,56	1,7	2717,5	0,0801
85709	1x300	35,42	1,8	3349,1	0,0641
85710	2x1,5	11,1	0,7	223,8	13,3
85711	2x2,5	12,1	0,7	270,1	7,98
85712	2x4	14,1	0,7	365,2	4,95
85713	2x6	15,1	0,7	432,2	3,3
85714	2x10	18	0,7	625,7	1,91
85715	2x16	20	0,7	807,9	1,21
85716	2x25	23,6	0,9	1131,7	0,78







Termoestable 90°C

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85717	2x35	26,2	0,9	1431,1	0,554
85718	2x50	30,2	1	1918,3	0,386
85719	3x1,5	11,6	0,7	247,4	13,3
85720	3x2,5	12,7	0,7	303,6	7,98
85721	3x4	14,8	0,7	412,6	4,95
85722	3x6	15,9	0,7	497,1	3,3
85723	3x10	18,9	0,7	727,6	1,91
85724	3x16	21,2	0,7	967,5	1,21
85725	3x25	24,9	0,9	1356,9	0,78
85726	3x35	27,7	0,9	1737,1	0,554
85727	3x50	32,16	1	2362,8	0,386
85728	3x70	35,72	1,1	3068,6	0,272
85729	4x1,5	12,4	0,7	281,2	13,3
85730	4x2,5	13,6	0,7	347,7	7,98
85731	4x4	16	0,7	480,5	4,95
85732	4x6	17,2	0,7	583,3	3,3
85733	4x10	20,4	0,7	890,3	1,91
85734	4x16	23	0,7	1188,3	1,21
85735	4x25	27,1	0,9	1661,4	0,78
85736	4x35	30,3	0,9	2137,8	0,554
85737	4x50	35,32	1	2949,1	0,386
85738	4x70	40,58	1,1	4339,5	0,272
85739	4x95	45,6	1,1	5572,4	0,206
85740	4x120	50,36	1,2	6803,7	0,161
85741	4x150	56,38	1,4	8401,2	0,129
85742	5x1,5	13,2	0,7	319,2	13,3
85743	5x2,5	14,6	0,7	401,6	7,98

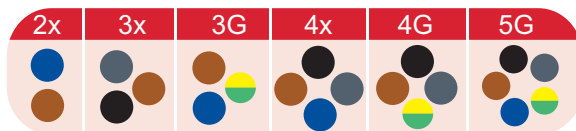


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85744	5x4	17,3	0,7	561,9	4,95
85745	5x6	18,6	0,7	685,8	3,3
85746	5x10	22,1	0,7	1049,1	1,91
85747	5x16	25	0,7	1427,4	1,21
85748	5x25	29,6	0,9	2018,9	0,78
85749	5x35	33,26	0,9	2637	0,554
85750	5x50	38,98	1	3653	0,386

Colours



Presentation

* Only available in drums