

RZ1MZ1-K (AS) C_{ca}

Safety cable, 0,6/1 kV
+90 °C service temperature, low smoke, zero halogen, fire retardant, armoured, UV resistant
IEC 60502-1 and EN 50575

Application

Armoured, zero halogen installation cable with improved fire characteristics for domestic and industrial application where additional protection against mechanical damage is required.
Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. For fixed installation in open air, in ducts or cable tray as well as in pipes. This type is suitable for direct ground installation without protection.

Construction



- | | | |
|----------------------|---|-------------------------------|
| 1. Conductor: | Copper conductor, bare, flexible (class 5) | |
| 2. Insulation: | XLPE compound | |
| Core identification: | According to HD 308 S2 | |
| | G = with green/yellow core | X = without green/yellow core |
| 3. Core covering: | Tape or filler | |
| 4. Inner sheath: | Halogen free compound | |
| 5. Armoring: | Galvanized steel wires (aluminium for single cores) | |
| 6. Outer sheath: | Halogen free compound, black | |

Technical information

Rated voltage	U ₀ /U	0,6/1 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C (max. 5 sec)
Min. operating temperature	fixed installation	-50 °C
Min. temperature during installation		0 °C
Min. bending radius mm	fixed installation	10 x outer diameter in mm
Safety parameters		
Reaction to fire		EN 50399 C _{ca} – s1b, d1, a1
Flame spread	single cable	IEC 60332-1-2
	bunched cables	IEC 60332-3-24
Halogen free		IEC 60754-1 /-2
Smoke density		IEC 61034-1/ -2
Additional parameters		
Chemical & Oil resistance		acceptable
Hydrocarbon resistant		
UV resistant		EN 50618
Water resistance		AD5
Impact resistance		AG4

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N° of cores and cross section mm ²	Outer diameter approx. mm	Weight approx. kg/km	Current rating air 30 °C *	Current rating ground 20 °C **
			A max.	A max.
1 x 10	14,6	341	93	77
1 x 16	15,3	405	124	100
1 x 25	17,6	550	161	129
1 x 35	18,7	665	200	155
1 x 50	20,3	825	242	183
1 x 70	22,0	1050	310	225
1 x 95	23,8	1275	377	270
1 x 120	25,5	1545	473	306
1 x 150	27,6	1855	504	343
1 x 185	29,7	2190	575	387
1 x 240	32,5	2765	679	448
1 x 300	37,7	3405	783	502
1 x 400	42,1	4440	930	591
2 x 1,5	11,9	270	26	27
2 x 2,5	12,8	315	36	35
2 x 4	13,9	385	49	46
2 x 6	14,9	455	63	58
2 x 10	17,0	615	86	77
2 x 16	19,3	820	115	100
2 x 25	25,5	1495	149	129
2 x 35	27,6	1785	185	155
3 x 1,5	12,6	295	26	27
3 x 2,5	13,5	350	36	35
3 x 4	14,6	430	49	46
3 x 6	15,9	520	63	58
3 x 10	18,1	735	86	77
3 x 16	22,7	1345	115	100
3 x 25	26,3	1800	149	129
3 x 35	29,3	2245	185	155
3 x 50	32,7	2875	225	183

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N° of cores and cross section mm ²	Outer diameter approx. mm	Weight approx. kg/km	Current rating air 30 °C *	Current rating ground 20 °C **
			A max.	A max.
4 x 1,5	13,4	355	26	27
4 x 2,5	14,3	400	36	35
4 x 4	15,8	500	49	46
4 x 6	17,2	610	63	58
4 x 10	19,7	870	86	77
4 x 16	24,5	1505	115	100
4 x 25	29,0	2040	149	129
4 x 35	31,2	2505	185	155
4 x 50	26,2	3305	225	183
4 x 70	42,3	5100	289	225
4 x 95	46,3	6170	352	270
4 x 120	51,5	7690	410	306
4 x 150	57,1	9240	473	343
4 x 185	62,6	10955	542	387
4 x 240	69,6	13720	641	448
5 G 1,5	14,1	370	26	27
5 G 2,5	15,3	455	36	35
5 G 4	17,0	580	49	46
5 G 6	18,5	735	63	58
5 G 10	23,5	1325	86	77
5 G 16	26,6	1755	115	100
5 G 25	31,2	2385	149	129
5 G 35	34,2	3010	185	155
5 G 50	39,3	3995	225	183
5 G 70	45,5	5960	289	225
7 G 1,5	14,6	420	26	27
7 G 2,5	16,1	535	36	35
10 G 1,5	17,7	570	26	27
10 G 2,5	19,8	725	36	35
12 G 1,5	17,4	580	26	27
12 G 2,5	22,2	1065	36	35
16 G 1,5	21,6	995	26	27
18 G 1,5	22,8	1070	26	27
19 G 1,5	22,8	1080	26	27
24 G 1,5	24,4	1235	26	27
37 G 1,5	28,0	1580	26	27

* Reference method F for single-core and method E for multicore cables according to IEC 60364-5-52 in open air at 30° C ambient temperature

** Reference method D2 according to IEC 60364-5-52. Directly buried at 0,7 m depth with soil thermal resistivity of 2,5 K·m/W and 20° C of ground temperature.

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.