

RZ1-K (AS)

Flexible power and control cable, 0,6/1 kV
+90 °C service temperature, low-smoke, halogen free, fire retardant, cold resistant
IEC 60502-1 , UNE 21123-4 and EN 50575

Application

Flexible and halogen-free power and control cable with improved fire characteristics for fixed installations in industrial or domestic environment and public buildings. Particularly suitable for installations with limited room and/or with a lot of bends with short radius. For buildings with high concentrations of people or valuable equipment, especially in difficult evacuation conditions.

Construction



1. Conductor: Copper conductor, flexible (class 5)
2. Insulation: XLPE insulation
Identification: According to HD 308 S2
G = with green/yellow core X = without green/yellow core
3. Core covering: Halogen free compound
4. Outer sheath: Halogen free polyolefin, green

Technical information

Operating voltage		0,6/1 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C
Installation temperature		-5 °C to 50 °C
Operating temperature	fix installed	-40 °C to 90 °C
Min. bending radius mm		5 x D = outer diameter in mm

Safety parameters

Reaction to fire		EN 50399 C _{ca} – s1, d1, a1
	on request	EN 50399 B2 _{ca} – s1, 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	on request	acceptable
UV resistant	on request	EN 50618
Water resistance	on request	AD5 jets
Impact resistance	on request	AG2 medium severity

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N° of cores and cross section mm ²	Outer diameter approx. mm	Current rating air 30 °C * A max.	Current rating directly buried 25 °C ** A max.	Weight approx. kg/km
1 x 1,5	5,7	19	23	45
1 x 2,5	6,1	27	30	60
1 x 4	6,7	37	39	75
1 x 6	7,2	48	48	95
1 x 10	8,2	67	64	140
1 x 16	9,2	91	83	195
1 x 25	10,8			285
1 x 35	11,9	153	128	380
1 x 50	13,5	188	152	520
1 x 70	15,6	243	187	715
1 x 95	17,4	298	222	925
1 x 120	19,4	348	253	1.165
1 x 150	21,4	404	286	1.445
1 x 185	23,3	464	321	1.745
1 x 240	26,6	552	370	2.295
1 x 300	30,2	639	418	2.895
1 x 400	34,8	748	486	3.930
1 x 500	39,5	860	547	5.055
2 x 1,5	8,6	23	27	100
2 x 2,5	9,4	32	35	130
2 x 4	10,5	44	46	170
2 x 6	11,6	57	59	220
2 x 10	13,5	78	77	330
2 x 16	15,5	104	100	455
2 x 25	18,8	135	127	700
2 x 35	21,8	168	154	985
2 x 50	21,3	204	182	1.150
2 x 70	24,7	262	224	1.590
2 x 95	27,7	320	266	2.060
2 x 120	31,3	373	303	2.630
2 x 150	34,5	430	342	3.245
2 x 185	37,8	493	383	3.935
2 x 240	43,3	583	442	5.200
3 G 1,5	9,0	20	23	115
3 G 2,5	9,9	29	30	155
3 G 4	11,1	38	39	205
3 G 6	12,3	49	48	275
3 G 10	14,3	68	64	415
3 G 16	16,5	91	83	600
3 x 16	16,5	91	83	600
3 x 25	20,0	115	106	900
3 x 35	23,3	143	128	1.270
3 x 50	24,9	174	152	1.550
3 x 70	29,2	223	187	2.160
3 x 95	32,5	271	222	2.790
3 x 120	36,7	314	253	3.555
3 x 150	40,6	363	286	4.405
3 x 185	44,3	414	321	5.330
3 x 240	50,8	489	370	7.035

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N° of cores and cross section mm ²	Outer diameter approx. mm	Current rating air 30 °C * A max.	Current rating directly buried 20 °C ** A max.	Weight approx. kg/km
4 G 1,5	9,9	20	23	140
4 G 2,5	10,9	29	30	185
4 G 4	12,2	38	39	255
4 G 6	13,5	49	48	340
4 G 10	15,8	68	64	525
4 G 16	18,3	91	83	760
4 x 16	18,3	91	83	760
4 x 25	22,4	115	106	1.150
4 x 35	25,6	143	128	1.600
4 x 50	27,5	174	152	2.065
4 x 70	32,3	223	187	2.885
4 x 95	35,9	271	222	3.735
4 x 120	40,7	314	253	4.780
4 x 150	44,9	363	286	5.900
4 x 185	49,4	414	321	7.195
4 x 240	56,6	489	370	9.500
5 G 1,5	10,8	20	23	170
5 G 2,5	11,9	29	30	225
5 G 4	13,4	38	39	310
5 G 6	14,9	49	48	420
5 G 10	17,5	68	64	645
5 G 16	20,2	91	83	925
5 G 25	24,8	115	106	1.410
5 G 35	28,4	143	128	1.955
5 G 50	33,1	174	152	2.730
5 G 70	39,0	223	187	3.870
5 G 95	43,4	271	222	4.985
5 G 120	49,4	314	253	6.375
5 G 150	54,7	363	286	8.000

* 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.