Kabel und Leitungen · fils et câbles · kabels en draden · cables and wires

YMz1K ss

Flexible power 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 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, grey or 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
Min. installation temperature		0 °
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 (depending on cross section)		EN 50399 C_{ca} – s1a, d1, a1
		EN 50399 $B2_{ca}$ – s1a, 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
Approvals		KEMA-KEUR, AENOR, CE, RoHS

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N° of cores and cross section mm²	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 2,5	7,1	39	35	75
1 x 4	7,6	53	46	95
1 x 6	8,2	68	58	120
1 x 10	9,1	93	77	165
1 x 16	10,1	124	100	225
1 x 25	11,3	161	129	305
1 x 35	12,2	200	155	400
1 x 50	13,9	242	183	535
1 x 70	15,8	310	225	730
1 x 95	17,6	377	270	945
1 x 120	19,5	437	306	1.185
1 x 150	21,7	504	343	1.470
1 x 185	23,8	575	387	1.770
1 x 240	26,7	679	448	2.310
1 x 300	29,5	783	502	2.905
1 x 400	34,2	930	592	3.825
1 x 500	37,9	1.070	670	4.885
2 x 1,5	9,3	26	27	125
2 x 2,5	9,8	36	35	145
2 x 4	10,8	49	46	190
2 x 6	11,8	63	58	245
2 x 10	13,6	86	77	355
2 x 16	15,3	115	100	495
3 G 1,5	10,4	26	27	155
3 G 2,5	10,9	36	35	190
3 G 4	11,9	49	46	240
3 G 6	13,0	63	58	310
3 G 10	14,8	86	77	450
3 x 16	16,8	115	100	645
3 x 25	21,4	149	129	1.020
3 x 35	23,8	185	155	1.345
3 x 50	27,2	225	183	1.825
3 x 70	30,3	289	225	2.470
3 x 95	35,2	352	270	3.245
3 x 120	39,1	410	306	4.095
3 x 150	43,9	473	343	5.105
3 x 185	48,6	542	387	6.195

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N° of cores and cross section mm²	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	11,2	26	27	180
4 G 2,5	11,9	36	35	225
4 G 4	12,9	49	46	290
4 G 6	14,3	63	58	380
4 G 10	16,3	86	77	565
4 x 16	18,8	115	100	815
4 x 25	23,8	149	129	1.275
4 x 35	25,9	185	155	1.700
4 x 50	30,1	225	183	2.310
4 x 70	34,8	289	225	3.185
4 x 95	39,9	352	270	4.185
4 x 120	44,8	410	306	5.305
4 x 150	49,3	473	343	6.548
4 x 185	54,8	542	387	7.965
4 x 240	61,7	641	448	10.370
5 G 1,5	12,6	26	27	230
5 G 2,5	13,2	36	35	275
5 G 4	14,4	49	46	355
5 G 6	15,9	63	58	470
5 G 10	18,0	86	77	685
5 G 16	20,9	115	100	1.000
5 G 25	25,9	149	129	1.550
5 G 35	28,3	185	155	2.050
5 G 50	33,7	225	183	2.840
5 G 70	38,6	289	225	3.905
5 G 95	43,5	352	270	5.080
5 G 120	49,5	410	306	6.395
5 G 150	55,1	473	343	7.935

* 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.

In all cases it is supposed a single-phase circuit.

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

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