

XTCuZ1-K

Safety power and control cable, 0,6/1 kV
+90 °C service temperature, screened, low smoke, zero halogen, fire retardant, oil, UV, water and oil resistant
IEC 60092-353

Application

Flexible zero halogen power supply and control cable with improved fire characteristics. Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. For fixed installation and occasional free flexing indoors in dry, damp and wet conditions, as well as outdoor. Recommended for marine applications.

Construction



- | | |
|----------------------|-------------------------------------------------------------------------------------------------|
| 1. Conductor: | Copper conductor, bare, flexible (class 5) |
| 2. Insulation: | XLPE Cross-linked polyethylene type HF XLPE-90 °C according to IEC 60092-360 |
| Core identification: | According to HD 308 S2 |
| 3. Bedding: | Thermoplastic polyolefin, natural colour, with low smoke and halogen free under fire conditions |
| | For single-cores and multi-cores from 25 mm ² |
| 4. Screen: | Laminated Alu/PETP tape with overlapping tinned copper wire braid |
| 5. Outer sheath: | Zero halogen thermoplastic polyolefin, type SHF1 according to IEC 60092-360, black |

Technical information

Rated voltage	U ₀ /U	0,6/1 kV
Test voltage		4 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C (max, 5 sec)
Min. installation temperature		-15 °C
Min. operating temperature	fixed installed	-40 °C
Min. bending radius mm	fixed installed	6 x outer diameter in mm

Safety parameters

Flame spread	single cable	IEC 60332-1
	bunched cables	IEC 60332-3-22
Halogen free		IEC 60754-1 & -2
Smoke density		IEC 61034

Additional parameters

Impact resistant	AG3
Oil resistant	
UV resistant	EN 50618
Water resistant	AD6

Additional approvals

Impact resistant	ABS, DNV-GL, BUREAU VERITAS, LLOYD'S REGISTER
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N° of cores and cross section mm ²	Current rating open air A	Outer diameter approx. mm	Weight approx. kg/km
1 x 2,5	25	8,2	110
1 x 4	35	8,9	135
1 x 6	46	9,5	160
1 x 10	64	10,5	215
1 x 16	88	11,5	275
1 x 25	117	13,4	385
1 x 35	147	14,3	490
1 x 50	180	16,7	680
1 x 70	233	18,7	900
1 x 95	285	20,2	1.125
1 x 120	333	22,4	1.400
1 x 150	386	24,3	1.700
1 x 185	444	26,4	2.020
1 x 240	528	29,5	2.585
1 x 300	612	32,6	3.245
1 x 400	716	37,7	4.240
1 x 630	947	47,3	7.045
2 x 1,5	23	8,6	115
2 x 2,5	31	9,5	135
2 x 4	43	10,7	180
2 x 6	55	11,3	220
2 x 10	75	15,3	475
2 x 16	100	17,3	630
3 x 1,5	23	9,1	135
3 x 2,5	31	10,0	170
3 x 4	43	11,4	225
3 x 6	55	12,4	285
3 x 10	75	15,5	475
3 x 16	87	17,7	655
3 x 25	110	22,1	1.120
3 x 35	137	24,6	1.470
3 x 50	167	28,7	2.005
3 x 70	214	32,1	2.685
3 x 95	259	36,2	3.445
3 x 120	301	41,1	4.450
3 x 150	347	45,7	5.470
3 x 185	397	50,6	6.620
3 x 240	468	57,2	8.565
4 x 1,5	20	9,9	155
4 x 2,5	28	10,9	205
4 x 4	37	12,4	275
4 x 6	47	13,8	405
4 x 10	65	17,1	585
4 x 16	87	19,9	840
4 x 25	110	24,7	1.400
4 x 35	137	26,5	1.825
4 x 50	167	32,3	2.530
4 x 70	214	36,1	3.400

All information is for guidance only without liability. Subject to change without notice.

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N° of cores and cross section mm ²	Current rating open air A	Outer diameter approx. mm	Weight approx. kg/km
4 x 95	259	40,8	4.475
4 x 120	301	46,2	5.635
4 x 150	347	50,7	6.955
4 x 185	397	56,2	8.415
4 x 240	468	63,7	10.920
5 x 1,5	20	10,9	190
5 x 2,5	28	12,1	245
5 x 4	37	14,3	385
5 x 6	47	15,7	480
5 x 10	65	18,6	710
5 x 16	87	21,8	1.020
5 x 25	110	27	1.700
5 x 35	137	29,6	2.235
5 x 50	167	35,2	3.065
7 x 1,5	11	11,5	230
7 x 2,5	15	13,8	360
12 x 1,5	9	15,2	405
12 x 2,5	12,5	16,6	530

Current-carrying capacities, in amperes, are calculated according to reference method F for single-core and method E for multicore cables according to IEC 60092-352 in open air at 45°C ambient temperature.