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N2XCH

Safety cable, 0,6/1 kV
+90 °C service temperature, low smoke, zero halogen, fire retardant, concentric copper conductor
DIN VDE 0276-604 and EN 50575

Application

Zero halogen power cable with concentric copper conductor and 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 indoors, in air or concrete. Outdoor laying only permitted when protected from direct sunlight and other external impacts. Underground installation is allowed provided that the cable is installed in a sufficiently drained tube (no water accumulation).

Construction

1. Conductor: Copper conductor, bare, solid (class 1) or stranded (class 2)
2. Insulation: XLPE
   Core identification: according to HD 308 S2
3. Core covering: Tape or filler
4. Concentric conductor: Bare copper wires with counter helix of copper tape
5. Outer sheath: Halogen free compound, 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. operating temperature	fixed installation	-30 °C
Min. temperature during installation		-5 °C
Min. bending radius mm	fixed installation	15 x outer diameter in mm

Safety parameters

Reaction to fire		EN 50399 C_{ca} – s1, d2, a1
	on request	EN 50399 $B2_{ca}$ – s1, d1, a1
Flame spread	single cable	IEC 60332-1-2
	bunched cables	IEC 60332-3-24
Zero halogen		IEC 60754-1 /-2
Smoke density		IEC 61034-1/ -2

Issue 02.10.2019

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N° of cores and cross section mm²	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
2 x 1,5 RE/1,5	12	52	166
2 x 2,5 RE/2,5	13	80	208
2 x 4 RE/4	14	123	320
2 x 6 RE/6	15	182	410
2 x 10 RE/10	17	312	550
2 x 16 RE/16	19	489	780
3 x 1,5 RE/1,5	12	73	250
3 x 2,5 RE/2,5	13	113	320
3 x 4 RE/4	14	168	400
3 x 6 RE/6	16	250	500
3 x 10 RE/10	18	408	750
3 x 16 RM/16	21	643	1000
3 x 25 RM/16	24	902	1600
3 x 35 RM/16	27	1190	1900
3 x 50 RM/25	30	1723	2400
3 x 70 SM/35	34	2410	2615
3 x 95 SM/50	38	3296	3636
3 x 120 SM/70	43	4236	4606
4 x 1,5 RE/1,5	13	88	235
4 x 2,5 RE/2,5	14	138	302
4 x 4 RE/4	15	208	411
4 x 6 RE/6	17	309	527
4 x 10 RE/10	19	504	762
4 x 16 RM/16	22	796	1139
4 x 25 RM/16	27	1142	1634
4 x 35 RM/16	29	1526	2080
4 x 50 RM/25	33	2203	2790
4 x 70 SM/35	41	3082	3550
4 x 95 SM/50	46	4208	4800
4 x 120 SM/70	50	5388	6556
4 x 150 SM/70	55	6540	7904
4 x 185 SM/95	62	8159	9950
4 x 240 SM/120	68	10546	12912
7 x 1,5 RE/2,5	16	139	380
7 x 2,5 RE/2,5	18	208	480
7 x 4 RE/4	19	320	650
7 x 6 RE/6	20	470	850

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N° of cores and cross section mm²	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
12 x 1,5 RE/2,5	20	214	550
12 x 2,5 RE/2,5	21	334	750
12 x 4 RE/6	21	528	775
24 x 1,5 RE/6	25	413	950
24 x 2,5 RE/10	23	696	1106
30 x 1,5 RE/6	27	499	1100
30 x 2,5 RE/10	30	840	1500

RE = round solid, class 1
RM = round stranded, class 2
SM = sector-shaped, stranded, class 2

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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