

XGB C_{ca} – s1, d2, a1

Safety installation cable, 0,6/1 kV
+90 °C service temperature, low smoke, zero halogen, fire retardant
NBN HD 604-5-L and EN 50575

Application

Zero halogen installation cable with improved fire characteristics for various industrial and domestic applications where no mechanical damage is to be expected. Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. For fixed installation in air, in ducts or cable tray, in pipes as well as embedded in concrete or masonry. Outdoor laying of non-UV resistant type only permitted when protected from direct sunlight and other external impacts. UV resistant version on request. 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: Halogen free
4. Outer sheath: Halogen free compound, green

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	-15 °C
Min temperature during installation		-5 °C
Min. bending radius mm	fixed installation	15 x outer diameter in mm (single core) 12 x outer diameter in mm (multicore)
Safety parameters		
Reaction to fire		EN 50399 C _{ca} – s1, d2, 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		
UV resistance	on request	EN 50289-4-17 Method A (720h) - particularly fitted for Belgian climate.

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N° of cores and cross section mm ²	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
1 x 16 RM	9,0	148	210
1 x 25 RM	10,6	230	310
1 x 35 RM	11,7	322	400
1 x 50 RM	13,1	460	530
1 x 70 RM	15,0	644	740
1 x 95 RM	16,9	874	1000
1 x 120 RM	18,5	1104	1240
1 x 150 RM	20,6	1380	1520
1 x 185 RM	22,8	1702	1900
1 x 240 RM	25,5	2208	2460
1 x 300 RM	28,2	2760	3070
2 x 1,5 RE	9,3	28	125
2 x 2,5 RE	10,1	46	160
2 x 4 RE	11,1	74	210
2 x 6 RE	12,1	111	260
2 x 10 RE	13,7	184	370
2 x 16 RE	16,5	295	570
2 x 25 RE	20,7	460	900
2 x 35 RE	22,9	672	1170
3 x 1,5 RE	9,7	42	140
3 x 2,5 RE	10,6	69	180
3 x 4 RE	11,7	111	250
3 x 6 RE	12,8	166	320
3 x 10 RE	14,9	276	480
3 x 16 RM	17,7	442	730
3 x 25 RM	21,9	690	1130
3 x 35 RM	24,9	966	1495
3 x 50 SM	25,9	1380	1810
3 x 70 SM	29,1	1932	2450
3 x 95 SM	32,3	2622	3250
3 x 120 SM	35,2	3312	3970
3 x 150 SM	40,1	4140	4000
3 x 185 SM	44,5	5106	6240
3 x 240 SM	49,8	6624	8010
3 x 300 SM	55,1	9000	9950
3 x 25 RM+16RM	23,0	910	1300
3 x 35 RM+16RM	25,3	1114	1650
3 x 50 SM+25RM	29,2	1610	2200
3 x 70 SM+35RM	32,4	2254	2940
3 x 95 SM+50RM	37,4	3082	4030
3 x 120 SM+70RM	41,2	3956	5030
3 x 150 SM+70RM	46,0	4484	6130

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3 x 185 SM+95RM	50,7	5980	7650
3 x 240 SM+120RM	57,9	7728	9970
3 x 300 SM+150RM	64,9	9660	12490
4 x 1,5 RE	10,4	56	170
4 x 2,5 RE	11,4	92	220
4 x 4 RE	12,6	148	300
4 x 6 RE	13,8	221	390
4 x 10 RM	16,3	368	600
4 x 16 RM	19,2	589	910
4 x 25 RM	24,1	920	1420
4 x 35 RM	26,9	1288	1880
4 x 50 SM	29,5	1840	2390
4 x 70 SM	32,6	2576	3180
4 x 95 SM	37,4	3496	4360
4 x 120 SM	41,4	4416	5390
4 x 150 SM	46,2	5520	6670
4 x 185 SM	50,9	6808	8250
4 x 240 SM	58,1	8832	10800
4 x 300 SM	65,1	11040	13560
5 x 1,5 RE	11,2	69	195
5 x 2,5 RE	12,3	115	260
5 x 4 RE	13,7	184	360
5 x 6 RE	15,4	276	490
5 x 10 RM	17,8	460	720
5 x 16 RM	21,8	736	1150
5 x 25 RM	26,4	1150	1730
7 x 1,5 RE	12,1	97	245
7 x 2,5 RE	13,3	161	330
9 x 1,5 RE	14,5	125	340
9 x 2,5 RE	16,1	207	450
10 x 1,5 RE	15,6	138	400
10 x 2,5 RE	17,4	230	540
12 x 1,5 RE	16,0	166	330
12 x 2,5 RE	17,9	276	590
14 x 1,5 RE	16,9	194	480
14 x 2,5 RE	18,7	263	650
16 x 1,5 RE	17,8	221	540
16 x 2,5 RE	20,4	368	770
19 x 1,5 RE	18,6	263	600
19 x 2,5 RE	21,4	437	870
21 x 1,5 RE	20,4	290	710
21 x 2,5 RE	22,5	483	950
24 x 1,5 RE	22,2	332	840
24 x 2,5 RE	24,8	552	1150

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	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
27 x 1,5 RE	22,6	373	890
27 x 2,5 RE	25,3	621	1220
30 x 1,5 RE	23,5	414	960
30 x 2,5 RE	26,3	690	1330
37 x 1,5 RE	25,2	511	1125
37 x 2,5 RE	28,2	851	1565
40 x 1,5 RE	26,4	552	1225
40 x 2,5 RE	29,5	920	1700

The above mentioned cross section also exists with green/yellow conductor.

G = with green/yellow core

X = without green/yellow core

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,