

XGB

Power cable 0,6/1 kV with Cu conductors,
XLPE insulated and LSOH sheathed



APPLICATION

XGB are fire retardant power cables for domestic and industrial applications with a voltage rating of 1kV. This product range is suitable for use indoor and outdoor, protected by ducts for mechanical and UV protection. They are suitable for use in public buildings including airports, hospitals and railway stations and in any environment which would be sensitive to smoke and corrosive gases in the event of a fire due to the concentration of people or the presence of valuable equipment, especially in difficult evacuation conditions.

CONSTRUCTION

Conductors: Cu annealed conductors, class 1 or class 2 according to EN 60228
Insulation: XLPE compound DIX 1
Bedding: Extruded elastomere or plastomere compound or plastic tape
Sheath: LSOH compound, type G

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

Single-core: ● Green/Yellow OR ● Black

2-core: ● Brown ● Blue

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey

4-core (b): ● Blue ● Brown ● Black ● Grey

5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Green

Other colours available on request

TECHNICAL CHARACTERISTICS

Test voltage: 4 kV

Rated voltage: 0,6/1 kV

Bending radius (min): single-core – 15D;
multicore- 12D

Min. laying temperature: 0°C

Operating temperature: -15°C to 60°C

Max. conductor temperature: 90°C

Max. short-circuit temperature: 250°C

Flame propagation: EN 60332-1-2

Fire propagation: EN 50339, EN 60332-3-24

Low emission of halogen and corrosive gases:
EN 60754-1 i EN 60754-2

Smoke density: EN 61034-2

STANDARD

NBN HD 604 S1, part 4G

CERTIFICATION



International
Electrotechnical
Commission



SINGLE-CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)		METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm		kg/km	kg/km
					MIN	MAX		
1x1,5	RE	12,1	-	-	5,0	6,5	14,4	45
1x2,5	RE	7,41	34	45	5,5	7,0	24,0	58
1x4	RE	4,61	44	55	6,0	7,5	38,4	77
1x6	RE	3,08	57	70	6,5	8,1	57,6	100
1x10	RE	1,830	77	90	7,5	9,0	96,0	145
1x16	RM	1,150	102	115	8,5	10,1	153,6	210
1x25	RM	0,727	135	150	10,0	11,8	240,0	312
1x35	RM	0,524	169	180	11,5	13,1	336,0	418
1x50	RM	0,387	207	210	12,5	14,8	480,0	578
1x70	RM	0,268	268	260	14,5	16,7	672,0	787
1x95	RM	0,193	328	310	16,5	18,8	912,0	1050
1x120	RM	0,153	382	350	18,0	20,6	1152,0	1309
1x150	RM	0,124	443	395	18,5	23,0	1440,0	1633
1x185	RM	0,0991	509	450	21,0	25,2	1776,0	1999
1x240	RM	0,0754	604	520	23,5	28,2	2304,0	2572
1x300	RM	0,0601	699	585	26,0	31,0	2880,0	3193

current capacity values are according to DIN VDE 0298-4 standard

TWO-CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)		METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm		kg/km	kg/km
					MIN	MAX		
2x1,5	RE	12,1	23	30	7,5	10,7	28,8	159
2x2,5	RE	7,41	32	40	8,5	11,6	48,0	197
2x4	RE	4,61	42	50	9,0	12,8	76,8	251
2x6	RE	3,08	54	65	10,0	13,9	115,2	316
2x10	RE	1,830	75	90	12,5	15,8	192,0	438
2x16	RM	1,150	100	120	14,5	17,9	307,2	610
2x25	RM	0,727	127	150	18,0	21,8	480,0	912
2x35	RM	0,524	157	175	21,0	24,4	672,0	1193

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THREE- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)		METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm		kg/km	kg/km
					MIN	MAX		
3x1,5	RE	12,1	23	30	8,0	11,1	43,2	178
3x2,5	RE	7,41	32	40	9,0	12,2	72,0	227
3x4	RE	4,61	42	50	9,5	13,5	115,2	295
3x6	RE	3,08	54	65	10,5	14,7	172,8	379
3x10	RE	1,830	75	90	12,5	16,7	288,0	539
3x16	RM	1,150	100	120	15,5	19,1	460,8	774
3x25	RM	0,727	127	150	18,0	23,2	720,0	1154
3x35	RM	0,524	157	175	21,5	26,2	1008,0	1538
3x50	SM	0,387	192	205	22,0	29,8	1440,0	1696
3x70	SM	0,268	246	250	25,5	33,5	2016,0	2338
3x95	SM	0,193	299	305	28,5	37,7	2736,0	3113
3x120	SM	0,153	346	345	31,5	41,1	3456,0	3903
3x150	SM	0,124	399	390	36,0	46,3	4320,0	4887
3x185	SM	0,0991	456	440	39,5	51,4	5328,0	6012
3x240	SM	0,0754	538	510	44,5	58,0	6912,0	7748
3x300	SM	0,0601	620	580	50,0	63,6	8640,0	9626

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FOUR- CORE CABLES WITH REDUCED CORE:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)		METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm		kg/km	kg/km
					MIN	MAX		
3x25+16	RM/RE	0,727/1,150	127	150	19,5	24,2	873,6	1264
3x35+16	RM/RE	0,524/1,150	157	175	23,0	26,8	1161,6	1637
3x50+25	RM/RM	0,387/0,727	192	205	25,5	32,4	1680,0	2300
3x70+35	SM/SM	0,268/0,524	246	250	28,5	36,8	2352,0	2729
3x95+50	SM/SM	0,193/0,387	299	305	33,5	41,3	3216,0	3685
3x120+70	SM/SM	0,153/0,268	346	345	37,0	45,7	4128,0	4688
3x150+70	SM/SM	0,124/0,268	399	390	43,0	51,2	4992,0	5655
3x185+95	SM/SM	0,0991/0,193	456	440	45,5	57,2	6240,0	7059
3x240+120	SM/SM	0,0754/0,153	538	510	53,0	65,5	8064,0	9059
3x300+150	SM/SM	0,0601/0,268	620	580	59,0	73,7	10080,0	11272

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FOUR- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)		METAL WEIGHT	CABLE WEIGHT (APPROX.)
					mm	mm		
mm ²		Ω/km	A	A	MIN	MAX	kg/km	kg/km
4x1,5	RE	12,1	23	30	8,5	21,1	57,6	205
4x2,5	RE	7,41	32	40	9,5	13,1	96,0	264
4x4	RE	4,61	42	50	10,5	14,6	153,6	349
4x6	RE	3,08	54	65	12,0	16,0	230,4	455
4x10	RE	1,830	75	90	14,0	18,4	384,0	664
4x16	RM	1,150	100	120	17,0	21,0	614,4	953
4x25	RM	0,727	127	150	20,5	25,6	960,0	1439
4x35	RM	0,524	157	175	24,5	29,0	1344,0	1925
4x50	SM	0,387	192	205	26,0	34,0	1920,0	2241
4x70	SM	0,268	246	250	29,0	28,9	2688,0	3088
4x95	SM	0,193	299	305	33,5	43,2	3648,0	4119
4x120	SM	0,153	346	345	37,0	47,8	4608,0	5185
4x150	SM	0,124	399	390	41,0	53,4	5760,0	6460
4x185	SM	0,0991	456	440	46,0	59,3	7104,0	7974
4x240	SM	0,0754	538	510	53,0	67,6	6216,0	10272
4x300	SM	0,524	620	580	59,0	68,7	11520,0	12761

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FIVE- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)		METAL WEIGHT	CABLE WEIGHT (APPROX.)
					mm	mm		
mm ²		Ω/km	A	A	MIN	MAX	kg/km	kg/km
5x1,5	RE	12,1	23	30	9,5	13,0	72	234
5x2,5	RE	7,41	32	40	10,5	14,2	120	306
5x4	RE	4,61	42	50	11,5	15,8	192	408
5x6	RE	3,08	54	65	13,0	17,3	288	536
5x10	RE	1,830	75	90	15,5	19,8	480	789
5x16	RM	1,150	100	120	18,0	23,1	768	1151
5x25	RM	0,727	127	150	23,5	28,1	1200	1730

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