



XVB

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

APPLICATION

Installation cable with XLPE insulation and PVC outer sheath, for domestic and industrial installations. These cables may be laid indoors and outdoors, in soil (if protected by a conduitsystem or other equivalent protection against mechanical damage), under minimum 3 cm of concrete. These cables are intended to be used in the power frequency of 49 Hz to 61 Hz.

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: PVC compound DMV 2

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

STANDARD

NBN HD 604 S1, part 4G

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:

● Grey

Other colours available on request

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	mm		
mm ²		Ω/km	A	A	MIN	MAX	kg/km	kg/km
1x1,5	RE	12,1	-	-	5,0	6,5	14,4	47
1x2,5	RE	7,41	34	45	5,5	7,0	24,0	60
1x4	RE	4,61	44	55	6,0	7,5	38,4	79
1x6	RE	3,08	57	70	6,5	8,1	57,6	102
1x10	RE	1,830	77	90	7,5	9,0	96,0	148
1x16	RM	1,150	102	115	8,5	10,1	153,6	213
1x25	RM	0,727	135	150	10,0	11,8	240,0	316
1x35	RM	0,524	169	180	11,5	13,1	336,0	422
1x50	RM	0,387	207	210	12,5	14,8	480,0	582
1x70	RM	0,268	268	260	14,5	16,7	672,0	493
1x95	RM	0,193	328	310	16,5	18,8	912,0	1056
1x120	RM	0,153	382	350	18,0	20,6	1152,0	1316
1x150	RM	0,124	443	395	18,5	23,0	1440,0	1641
1x185	RM	0,0991	509	450	21,0	25,2	1776,0	2008
1x240	RM	0,0754	604	520	23,5	28,2	2304,0	2583
1x300	RM	0,0601	699	585	26,0	31,0	2880,0	3206

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	mm		
mm ²		Ω/km	A	A	MIN	MAX	kg/km	kg/km
2x1,5	RE	12,1	23	30	7,5	10,7	28,8	162
2x2,5	RE	7,41	32	40	8,5	11,6	48,0	201
2x4	RE	4,61	42	50	9,0	12,8	76,8	255
2x6	RE	3,08	54	65	10,0	13,9	115,2	320
2x10	RE	1,830	75	90	12,5	15,8	192,0	443
2x16	RM	1,150	100	120	14,5	17,9	307,2	616
2x25	RM	0,727	127	150	18,0	21,8	480,0	920
2x35	RM	0,524	157	175	21,0	24,4	672,0	1202

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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	mm		
mm ²		Ω/km	A	A	MIN	MAX	kg/km	kg/km
3x1,5	RE	12,1	23	30	8,0	11,1	43,2	182
3x2,5	RE	7,41	32	40	9,0	12,2	72,0	230
3x4	RE	4,61	42	50	9,5	13,5	115,2	299
3x6	RE	3,08	54	65	10,5	14,7	172,8	384
3x10	RE	1,830	75	90	12,5	16,7	288,0	545
3x16	RM	1,150	100	120	15,5	19,1	460,8	781
3x25	RM	0,727	127	150	18,0	23,2	720,0	1163
3x35	RM	0,524	157	175	21,5	26,2	1008,0	1548
3x50	SM	0,387	192	205	22,0	29,8	1440,0	1706
3x70	SM	0,268	246	250	25,5	33,5	2016,0	2350
3x95	SM	0,193	299	305	28,5	37,7	2736,0	3128
3x120	SM	0,153	346	345	31,5	41,1	3456,0	3921
3x150	SM	0,124	399	390	36,0	46,3	4320,0	4909
3x185	SM	0,0991	456	440	39,5	51,4	5328,0	6038
3x240	SM	0,0754	538	510	44,5	58,0	6912,0	7780
3x300	SM	0,0601	620	580	50,0	63,6	8640,0	9663

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FOUR- CORE CABLES WITH REDUCED

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
3x25+16	RM/RE	0,727/1,150	127	150	19,5	24,2	873,6	1273
3x35+16	RM/RE	0,524/1,150	157	175	23,0	26,8	1161,6	1674
3x50+25	RM/RM	0,387/0,727	192	205	25,5	32,4	1680,0	2313
3x70+35	SM/SM	0,268/0,524	246	250	28,5	36,8	2352,0	2745
3x95+50	SM/SM	0,193/0,387	299	305	33,5	41,3	3216,0	3704
3x120+70	SM/SM	0,153/0,268	346	345	37,0	45,7	4128,0	4710
3x150+70	SM/SM	0,124/0,268	399	390	43,0	51,2	4992,0	5681
3x185+95	SM/SM	0,0991/0,193	456	440	45,5	57,2	6240,0	7091
3x240+120	SM/SM	0,0754/0,153	538	510	53,0	65,5	8064,0	9098
3x300+150	SM/SM	0,0601/0,268	620	580	59,0	73,7	10080,0	11317

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

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	209
4x2,5	RE	7,41	32	40	9,5	13,1	96,0	269
4x4	RE	4,61	42	50	10,5	14,6	153,6	354
4x6	RE	3,08	54	65	12,0	16,0	230,4	460
4x10	RE	1,830	75	90	14,0	18,4	384,0	662
4x16	RM	1,150	100	120	17,0	21,0	614,4	960
4x25	RM	0,727	127	150	20,5	25,6	960,0	1438
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	3089
4x95	SM	0,193	299	305	33,5	43,2	3648,0	4122
4x120	SM	0,153	346	345	37,0	47,8	4608,0	5173
4x150	SM	0,124	399	390	41,0	53,4	5760,0	6467
4x185	SM	0,0991	456	440	46,0	59,3	7104,0	7962
4x240	SM	0,0754	538	510	53,0	67,6	6216,0	10261
4x300	SM	0,524	620	580	59,0	68,7	11520,0	12753

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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	239
5x2,5	RE	7,41	32	40	10,5	14,2	120	310
5x4	RE	4,61	42	50	11,5	15,8	192	413
5x6	RE	3,08	54	65	13,0	17,3	288	541
5x10	RE	1,830	75	90	15,5	19,8	480	496
5x16	RM	1,150	100	120	18,0	23,1	768	1160
5x25	RM	0,727	127	150	23,5	28,1	1200	1741

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