



N2XBY

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

APPLICATION

Distribution power cable for static application, mostly in ground, but also in water, within facilities, in cable canals, in concrete. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Applied in conditions requiring protection against heavier mechanical damages, but where cables are not exposed to heavier tensile strain.

CONSTRUCTION

Conductors: Cu, class1 or 2 according to EN 60228
Insulation: XLPE compound DIX 3
Bedding: Extruded elastomere or plastomere compound or plastic tape
Armour: two galvanized steel tapes
Sheath: PVC compound DMV 6

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

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:

● Black

Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: Eca
 Test voltage: 4 Kv
 Rated voltage: 0,6/1 kV
 Bending radius (min): single-core- 15D;
 multicore- 12D
 Min. laying temperature: -5°C
 Max. conductor temperature: 90°C
 Max. short-circuit temperature: 250°C

STANDARD

HD 603 S1, IEC 60502-1

CERTIFICATION



International
 Electrotechnical
 Commission

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
2x4	RE/RM	4,61	42	52	14,2	76,8	378
2x6	RE/RM	3,08	53	64	15,2	115,2	447
2x10	RE/RM	1,83	74	86	17,2	192,0	591
2x16	RE/RM	1,15	98	112	19,0	307,2	786
2x25	RM	0,727	133	145	22,0	480,0	1096
2x35	RM	0,524	162	174	24,2	672,0	1381
2x50	RM	0,387	197	206	27,4	960,0	1855
2x70	RM	0,268	250	254	31,4	1344,0	2463

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
3x1,5	RE/RM	12,1	24	31	14,5	43,2	303
3x2,5	RE/RM	7,41	32	40	15,3	72,0	349
3x4	RE/RM	4,610	42	52	16,2	115,2	410
3x6	RE/RM	3,080	53	64	17,3	172,8	519
3x10	RE/RM	1,830	74	86	18,9	288,0	712
3x16	RE/RM	1,150	98	112	20,9	460,8	968
3x25	RE/RM	0,727	133	145	23,2	720,0	1376
3x35	SM	0,524	162	174	25,6	1008,0	1462
3x50	SM	0,387	197	206	30,2	1440,0	2199
3x70	SM	0,268	250	254	34,5	2016,0	2909
3x95	SM	0,193	308	305	38,3	2736,0	3735
3x120	SM	0,153	359	348	42,0	3456,0	4637
3x150	SM	0,124	412	392	46,3	4320,0	5655
3x185	SM	0,0991	475	444	50,6	5328,0	6832
3x240	SM	0,0754	564	517	56,7	6912,0	8628

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 ²		Ω/km	A	A	mm	kg/km	kg/km
4x1,5	RE/RM	12,1	24	31	15,2	57,6	330
4x2,5	RE/RM	7,41	32	40	16,1	96,0	386
4x4	RE/RM	4,610	42	52	17,2	153,6	489
4x6	RE/RM	3,080	53	64	18,4	230,4	592
4x10	RE/RM	1,830	74	86	19,3	384,0	841
4x16	RE/RM	1,150	98	112	21,5	614,4	1162
4x25	RE/RM	0,727	133	145	25,1	960,0	1671
4x35	SM	0,524	162	174	27,8	1344,0	1847
4x50	SM	0,387	197	206	32,8	1920,0	2741
4x70	SM	0,268	250	254	37,5	2688,0	3662
4x95	SM	0,193	308	305	41,7	3648,0	4821
4x120	SM	0,153	359	348	45,8	4608,0	5903
4x150	SM	0,124	412	392	51,4	5760,0	7290
4x185	SM	0,0991	475	444	56,2	7104,0	8815
4x240	SM	0,0754	564	517	62,6	9216,0	11194

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 ²		Ω/km	A	A	mm	kg/km	kg/km
5x1,5	RE/RM	12,1	24	31	16,0	72	362
5x2,5	RE/RM	7,41	32	40	17,0	120	458
5x4	RE/RM	4,610	42	52	18,2	192	550
5x6	RE/RM	3,080	53	64	19,5	288	676
5x10	RE/RM	1,830	74	86	20,7	480	973,9
5x16	RE/RM	1,150	98	112	23,1	768	1358,9
5x25	RM	0,727	133	145	27,2	1200	1968,2
5x35	RM	0,524	162	174	30,2	1680	2564,8
5x50	RM	0,387	197	206	35,6	2400	3711,2
5x70	RM	0,268	250	254	40,7	3360	4998,4
5x95	RM	0,193	308	305	45,4	4560	6545,5

CONTROL/SIGNAL 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
7x1,5	RE/RM	12,1	24	31	15,19	100,8	402
10x1,5	RE/RM	12,1	24	31	18,02	144,0	544
12x1,5	RE/RM	12,1	24	31	18,46	172,8	583
16x1,5	RE/RM	12,1	24	31	20	230,4	678
19x1,5	RE/RM	12,1	24	31	20,85	273,6	768
21x1,5	RE/RM	12,1	24	31	21,71	302,4	818
27x1,5	RE/RM	12,1	24	31	24,5	388,8	1026
37x1,5	RE/RM	12,1	24	31	26,91	532,8	1241
7x2,5	RE/RM	7,41	32	40	16,33	168,0	492
10x2,5	RE/RM	7,41	32	40	19,54	240,0	674
12x2,5	RE/RM	7,41	32	40	20,04	288,0	731
16x2,5	RE/RM	7,41	32	40	21,79	384,0	904
19x2,5	RE/RM	7,41	32	40	23,15	456,0	1010
21x2,5	RE/RM	7,41	32	40	24,13	504,0	1109
27x2,5	RE/RM	7,41	32	40	26,84	648,0	1335
37x2,5	RE/RM	7,41	32	40	29,57	888,0	1679

