



EXVB

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

APPLICATION

In earth, ducts, on support brackets, in dry and wet conditions etc., where one does not expect mechanical damages and the cables are not exposed to the mechanical tensile strain. In urban networks, industrial plants, electric power plants and other electricity consumers and for connection of control devices in industry, traffic etc.

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
 Operating temperature: -35°C to 90°C
 Max. short-circuit temperature: 250°C

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

STANDARD

HD 603 S1, IEC 60502-1

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:

● Black

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	(SHORT CURRENT CAPACITY, 1S)	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	kA	mm	kg/km	kg/km
1x4	RE/RM	4,610	44	54	0,572	7,6	38	82
1x6	RE/RM	3,080	56	67	0,858	8,2	58	102
1x10	RE/RM	1,830	77	89	1,43	8,8	96	145
1x16	RE/RM	1,150	102	115	2,29	10,4	154	226
1x25	RM	0,727	138	148	3,57	12,1	240	333
1x35	RM	0,524	170	177	5,00	13,2	336	430
1x50	RM	0,387	207	209	7,15	14,8	480	570
1x70	RM	0,268	563	256	10,00	16,9	672	789
1x95	RM	0,193	325	307	13,59	18,9	912	1058
1x120	RM	0,153	380	349	17,16	20,6	1152	1302
1x150	RM	0,124	437	393	21,45	22,7	1440	1601
1x185	RM	0,0991	507	445	26,46	25,1	1776	1995
1x240	RM	0,0754	604	517	34,32	27,8	2304	2571
1x300	RM	0,0601	697	583	42,9	30,8	2880	3201
1x400	RM	0,0440	811	663	57,2	33,1	3840	4120
1x500	RM	0,0366	940	749	71,5	36,6	4800	5032
1x630	RM	0,0283	1083	843	90,1	40,5	6050	6380

SINGLE- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	(SHORT CURRENT CAPACITY, 1S)	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	kA	mm	kg/km	kg/km
3x1,5	RE/RM	12,1	24	31	0,215	9,3	43,2	140
3x2,5	RE/RM	7,41	32	40	0,358	10,3	72	186
3x4	RE/RM	4,610	42	52	0,572	13,0	115	251
3x6	RE/RM	3,080	53	64	0,858	13,1	176	330
3x10	RE/RM	1,830	74	86	1,43	16,3	288	532
3x16	RE/RM	1,150	98	112	2,29	18,5	461	746
3x25	RM	0,727	133	145	3,57	22,7	720	1154
3x35	RM	0,524	162	174	5,00	25,3	1008	1508

FOUR-CORE CABLES WITH REDUCED CORE:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	(SHORT CURRENT CAPACITY, 1S)	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	kA	mm	kg/km	kg/km
3x16+10	RM/RM	1,150/1,830	77	88	2,29	19,6	556	689
3x25+10	RM/RM	0,727/1,830	98	120	3,57	19,6	816	1035
3x25+16	RM/RM	0,727/1,150	105	132	3,57	23,9	873	1045
3x35+16	RM/RM	0,524/1,150	129	159	5,00	26,6	1161	1333
3x35+25	RM/RM	0,524/0,727	134	162	5,00	26,6	1248	1463
3x50+25	SM/RM	0,387/0,727	157	188	7,15	28,1	1680	1892
3x70+35	SM/RM	0,268/0,524	199	232	10,00	32,2	2352	2648
3x70+50	SM/RM	0,268/0,387	199	242	10,00	32,2	2496	2850
3x95+50	SM/RM	0,193/0,387	246	280	13,59	35,8	3216	3591
3x120+70	SM/RM	0,153/0,268	285	318	17,16	40,0	4128	4582
3x150+70	SM/RM	0,124/0,268	326	359	21,45	43,9	4992	5488
3x185+95	SM/RM	0,0991/0,193	374	406	26,46	48,8	6240	6964
3x240+120	SM/RM	0,0754/0,153	445	473	34,32	54,2	8064	8864
3x50+35	SM/SM	0,387/0,524	157	188	7,15	26,5	1776	1970
3x70+35	SM/SM	0,268/0,524	199	232	10,00	30,2	2352	2680
3x95+50	SM/SM	0,193/0,387	246	280	13,59	34,2	3216	3580
3x120+70	SM/SM	0,153/0,268	285	318	17,16	36,5	4128	4460
3x150+70	SM/SM	0,124/0,268	326	359	21,45	40,8	4992	5152
3x185+95	SM/SM	0,0991/0,193	374	406	26,46	46,4	6240	6523
3x240+120	SM/SM	0,0754/0,153	445	473	34,32	51,3	8064	8680

FOUR-CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	(SHORT CURRENT CAPACITY, 1S)	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	kA	mm	kg/km	kg/km
4x1,5	RE/RM	12,1	24	31	0,215	10,1	57,6	164,42
4x2,5	RE/RM	7,41	32	40	0,358	11,1	96	221,73
4x4	RE/RM	4,610	42	52	0,572	13,8	154	327
4x6	RE/RM	3,080	53	64	0,858	15,0	230	425
4x10	RE/RM	1,830	74	86	1,43	17,2	384	620
4x16	RE/RM	1,150	98	112	2,29	21,0	614	955
4x25	RM	0,727	133	145	3,57	25,7	960	1471
4x35	RM	0,524	162	174	5,00	28,4	1344	1906
4x35	SM	0,524	162	174	5,00	25,2	1344	1580
4x50	SM	0,387	197	206	7,15	28,1	1920	2086
4x70	SM	0,268	250	254	10,00	32,1	2688	2890
4x95	SM	0,193	308	305	13,59	36,0	3648	4641
4x120	SM	0,153	359	348	17,16	40,2	4608	4998
4x150	SM	0,124	412	392	21,45	44,3	5760	6189
4x185	SM	0,0991	475	444	26,46	49,0	7104	7762
4x240	SM	0,0754	564	517	34,32	54,8	9216	10096
4x300	SM	0,0601	649	585	42,90	61,8	11520	12798

FIVE CORE CABLES:

NOMINAL CROSS-SEC- TION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	(SHORT CURRENT CAPACITY, 1S)	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	kA	mm	kg/km	kg/km
5x1,5	RE/RM	12,1	24	31	0,215	11,0	72	192
5x2,5	RE/RM	7,41	32	40	0,358	12,1	120	261
5x4	RE/RM	4,610	42	52	0,572	16,7	192	469
5x6	RE/RM	3,080	53	64	0,858	18,1	288	599
5x10	RE/RM	1,830	74	86	1,43	21,3	480	913
5x16	RE/RM	1,150	98	112	2,29	25,7	768	1354
5x25	RM	0,727	133	145	3,57	30,3	1200	1996
5x35	RM	0,524	162	174	5,00	34,0	1680	2631
5x50	RM	0,387	197	206	7,15	36,5	2400	3100
5x70	RM	0,268	250	254	10,00	39,9	3360	4506
5x95	RM	0,193	308	305	13,59	44,5	4560	5620

