



U-1000-R2V

Power cables with XLPE insulation and PVC sheath

APPLICATION

These cables for energy distribution are suitable for all types of low voltage industrial-type connection, in urban grids, building installations, etc. Particularly suited in cases of high operating temperature and when high resistance to solar radiation and atmospheric agents is required. Good resistance to low temperature and chemical agents. Can be used without additional mechanical protection in the open air, fixed to walls or in raceways, inside walkways, and in empty in Cable Constructions in general. Can be laid underground with mechanical protection constructed from slabs, tiles, or bricks. They are not recommend to lay this cable In ground flooded for more than two months per year. With appropriate mechanical protection it can be use in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%. It can be used in ambient temperature down to -25°.

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

TECHNICAL CHARACTERISTICS

CPR class: Eca

Test voltage: 4 Kv

Rated voltage: 0,6/1 kV

Bending radius (min): multi-core 8D

Min. laying temperature: -10°C

Max. conductor temperature: 90°C

Max. short-circuit temperature: 250°C

STANDARD

NF C32-321; IEC 60502-1

CONSTRUCTION

Conductors: Cu rope

Insulation: XLPE compound

Bedding: Extruded elastomere or plastomere compound or plastic tape

Sheath: PVC compound

CERTIFICATION



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (MAX..)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
1x4	4,61	44	54	6,8	38,4	81
1x6	3,08	56	67	7,0	57,6	102
1x10	1,830	77	89	7,8	96,0	148
1x16	1,150	102	115	8,7	153,6	213
1x25	0,727	138	148	10,2	240,0	316
1x35	0,524	170	177	11,3	336,0	423
1x50	0,387	207	209	12,8	480,0	583
1x70	0,268	2653	256	14,4	672,0	793
1x95	0,193	325	307	16,2	912,0	1057
1x120	0,153	380	3494	17,8	1152,0	1317
1x150	0,124	437	393	19,8	1440,0	1642
1x185	0,0991	507	445	21,7	1776,0	2009
1x240	0,0754	604	517	24,3	2304,0	2584
1x300	0,0601	697	583	26,7	2880,0	3207
1x400	0,0470	811	663	30,4	3840,0	4244
1x500	0,0366	940	749	33,6	4800,0	5280
1x630	0,0283	1083	843	37,5	6048,0	6636
1x800	0,0221	1228	935	41,7	7680,0	8377

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mm ²	Ω/km	A	A	mm	kg/km	kg/km
2x1,5	12,1	24	31	11,0	28,8	151
2x2,5	7,41	32	40	11,8	48,0	184
2x4	4,61	45	59	13,0	76,8	241
2x6	3,08	58	74	14,0	115,2	306
2x10	1,830	80	101	16,0	192,0	434
2x16	1,150	107	128	18,5	307,2	605
2x25	0,727	142	162	22,0	480,0	889
2x35	0,524	175	179	26,0	672,0	1168

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (MAX..)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
3x1,5	12,1	24	31	11,5	43,2	170
3x2,5	7,41	32	40	12,3	72,0	211
3x4	4,61	40	51	13,0	115,2	285
3x6	3,08	52	64	15,0	172,8	369
3x10	1,830	71	88	17,0	288,0	529
3x16	1,150	96	111	19,5	460,8	755
3x25	0,727	127	141	23,5	720,0	1122
3x35	0,524	157	170	26,0	1008,0	1490
3x50	0,387	190	204	29,5	1440,0	2049
3x70	0,268	242	252	34,0	2016,0	2808
3x95	0,193	293	302	38,5	2736,0	3704
3x120	0,153	339	345	42,5	3456,0	4627
3x150	0,124	390	386	47,5	4320,0	5770
3x185	0,0991	444	435	53,0	5328,0	7080
3x240	0,0754	522	504	59,5	6912,0	9080
3x300	0,0601	595	571	66,0	8640,0	11233

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (MAX..)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
3x35+25	0,524	157	170	27,2	1196	1680
3x50+35	0,387	190	204	31,1	1702	2225
3x70+50	0,268	242	252	36,2	2392	3120
3x95+50	0,193	293	302	40,6	3082	3910
3x120+70	0,153	339	345	45,4	3956	5090
3x150+70	0,124	390	386	49,5	4784	6055
3x185+70	0,0991	444	435	54,4	5750	7400
3x240+95	0,0754	522	504	61,5	7498	9590

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (MAX..)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
4x1,5	12,1	24	31	12,2	57,6	192
4x2,5	7,41	32	40	13,1	96	241
4x4	4,61	40	46	14,0	153,6	333
4x6	3,08	52	58	16,0	230,4	436
4x10	1,830	71	79	18,5	384	636
4x16	1,150	96	100	21,0	614,4	921
4x25	0,727	127	141	25,5	960	1380
4x35	0,524	157	170	28,5	1344	1846
4x50	0,387	190	204	32,5	1920	2560
4x70	0,268	242	252	37,5	2688	3542
4x95	0,193	293	302	42,5	3648	4679
4x120	0,153	339	345	47,5	4608	5872
4x150	0,124	390	386	52,5	5760	7301
4x185	0,0991	444	435	59,0	7104	8988
4x240	0,0754	522	504	66,5	9216	11538
4x300	0,0601	595	571	73,5	11520	14288

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (MAX..)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	A	A	mm	kg/km	kg/km
5x1,5	12,1	24	31	13,0	72	220
5x2,5	7,41	32	40	14,0	120	231
5x4	4,61	42	53	15,5	192	331
5x6	3,08	52	58	17,5	288	444
5x10	1,830	71	79	20,0	480	758
5x16	1,150	96	100	23,0	768	1107
5x25	0,727	127	141	27,0	1200	1665
5x35	0,524	157	170	30,5	1680	2236
5x50	0,387	190	204	34,0	2400	3116