ttcables
ELECTRIC CABLE WORKS

U-1000 AR2V

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

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°.

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228
Insulation: : XLPE compound
Bedding: Extruded elastomere or plastomere compound
Sheath: PVC compound

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- 12D; single-core – 15D
Min. laying temperature: -5°C
Max. working temperature: 90°C
Max. short-circuit temperature: 250°C

STANDARD

NF C32-321, IEC 60502-1

CERTIFICATION

CE
RoHS compliant
IEC International Electrotechnical Commission
REACH COMPLIANT
CERTIFIED BY CSTB NF
CPR COMPLIANT Construction Products Regulation EN 50575

NOMINAL CROSS-SEC-TION	CONDUCTOR CONSTRUC-TION	MAX. RESISTANCE AT 20°c	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	NOM. THICKNESS OF INSUL.	INSULATED CORE THICKNESS	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	mm	mm	A	A	mm	kg/km	kg/km
1x16	RM	1,910	84	87	0,7	6,1	8,7	46,4	106
1x25	RM	1,200	101	111	0,9	7,6	10,2	42,5	149
1x35	RM	0,868	126	134	0,9	8,8	11,3	101,5	188
1x50	RM	0,641	154	1160	1,0	10,0	12,8	145,0	248
1x70	RM	0,443	198	197	1,1	11,8	14,4	203,0	324
1x95	RM	0,320	241	234	1,1	13,6	16,2	275,5	420
1x120	RM	0,253	280	266	1,2	15,2	17,8	348,0	513
1x150	RM	0,206	324	300	1,4	16,7	19,8	435,0	637
1x185	RM	0,164	371	337	1,6	19,0	21,7	236,5	770
1x240	RM	0,125	439	388	1,7	21,3	24,3	696,0	976
1x300	RM	0,1000	508	440	1,8	24,1	26,7	870,0	1197
1x400	RM	0,0778	663	515	2,0	26,6	30,4	1160,0	1564
1x500	RM	0,0605	770	583	2,2	30,3	33,6	1450,0	1930
1x630	RM	0,0469	889	662	2,4	34,1	37,5	1827,0	2415
1x800	RM	0,0367	1019	776	2,6	37,1	41,7	2320,0	3017
1x1000	RM	0,0291	1157	865	2,8	41,3	46,1	2900,0	3719
2x10	RM	3,080	67	80	0,7	5,1	16,0	59,2	290
2x16	RM	1,910	91	104	0,7	6,1	18,5	94,7	330
2x25	RM	1,200	108	133	0,9	7,6	22,0	148,0	520
2x35	RM	0,868	135	160	0,9	8,8	24,5	207,2	649
3x10	RM	3,080	58	67	0,7	5,1	17,0	88,8	266
3x16	RM	1,910	77	87	0,7	6,1	19,5	142,1	410
3x25	RM	1,200	97	111	0,9	7,6	23,5	222,0	602
3x35	RM	0,868	120	134	0,9	8,8	26,0	310,8	740
3x50	RM	0,641	146	160	1,0	10,0	29,0	444,0	940
3x70	RM	0,443	187	197	1,1	11,8	34,0	621,6	1322
3x95	RM	0,320	227	234	1,1	13,6	38,5	843,6	1681
3x120	RM	0,253	263	266	1,2	15,2	42,5	1065,6	2144
3x150	RM	0,206	304	300	1,4	16,7	47,5	1332,0	2622
3x185	RM	0,164	347	337	1,6	19,0	53,0	1642,8	3249
3x240	RM	0,125	409	388	1,7	21,3	59,5	2131,2	4154
3x300	RM	0,100	471	440	1,8	24,1	66,0	2664,0	5070
3x50+35	RM	0,641	146	160	1,0/0,9	10/8,8	28,9	536,5	1096
3x70+50	RM	0,443	187	197	1,1/1,0	11,8/10	33,5	754,0	1490
3x95+50	RM	0,320	227	234	1,1/1,0	13,6/10	36,6	971,5	1867
3x120+70	RM	0,253	263	266	1,2/1,1	15,2/11,8	40,7	1247,0	2313
3x150+70	RM	0,206	304	300	1,4/1,1	16,7/11,8	44,6	1508,0	2841
3x185+70	RM	0,164	347	337	1,6/1,1	19/11,8	48,4	1812,5	3444
3x240+95	RM	0,125	409	388	1,7/1,1	21,3/13,6	54,5	2363,5	4395

NOMINAL CROSS-SEC-TION	CONDUCTOR CONSTRUC-TION	MAX. RESISTANCE AT 20°c	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	NOM. THICKNESS OF INSUL.	INSULATED CORE THICKNESS	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	mm	mm	A	A	mm	kg/km	kg/km
4x10	RM	3,080	58	67	0,7	5,1	18,5	118,4	370
4x16	RM	1,910	77	87	0,7	6,1	21,0	189,4	485
4x25	RM	1,200	97	111	0,9	7,6	25,5	296,0	710
4x35	RM	0,868	120	134	0,9	8,8	28,5	414,4	890
4x50	RM	0,641	146	160	1,0	10,0	32,5	592,0	1115
4x70	RM	0,443	187	197	1,1	11,8	37,5	828,9	1576
4x95	RM	0,320	227	234	1,1	13,6	42,5	1124,8	2039
4x120	RM	0,253	263	266	1,2	15,2	47,5	1420,8	2402
4x150	RM	0,206	304	300	1,4	16,7	52,5	1776,0	3010
4x185	RM	0,164	347	337	1,6	19,0	59,0	2190,4	3932
4x240	RM	0,125	409	388	1,7	21,3	66,5	2841,6	4901
4x300	RM	0,100	471	440	1,8	24,1	73,5	3552,0	6124
5x10	RM	3,080	58	67	0,7	5,1	20,0	148,0	366
5x16	RM	1,910	77	87	0,7	6,1	23,0	236,8	577
5x25	RM	1,200	97	111	0,9	7,6	28,0	370,0	850