



## U-1000 AR2V

### Application and Description

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°.

### Standard and Approval

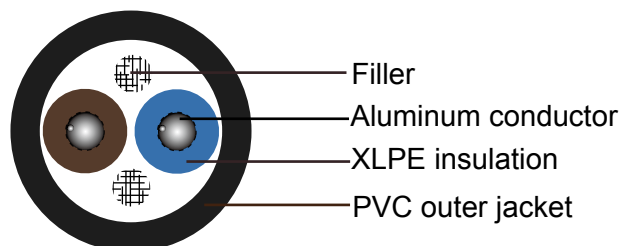
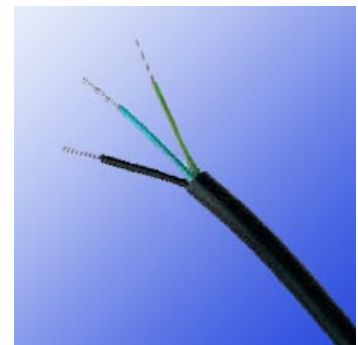
NF C 32-321 , EN 60332-1/NF C 32-070

### Cable Construction

- Flexible aluminum strands
- Strands to IEC 60228 class 2
- XLPE insulation according to NF C 32-321
- Color codes to NF C32-321
- Not fibrous and not hygroscopic filler
- Flexible black PVC outer jacket

### Technical Characteristics

- Working Voltage: 600/1000 volts
- Test voltage: 1200 volts
- Minimum bending radius: 6 x Ø
- Operation temperature range: -10 °C to 60 °C
- Short-circuit temperature: 250 °C
- Flame retardant: NF C 32-070 C2
- Insulation resistance: 20 MΩ x km



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### Cable Parameter

AWG	Cross Section mm <sup>2</sup>	Insulation thickness mm	Minimum Sheath thickness mm	Maximum Overall diameter mm	Approx Cable weight kg/km
2	1x35	0.9	1.09	13.5	190
1	1x50	1	1.09	15	245
2/0	1x70	1.1	1.09	17	325
3/0	1x95	1.1	1.18	19	425
4/0	1x120	1.2	1.18	21	520
300MCM	1x150	1.4	1.26	23	630
500MCM	1x185	1.6	1.26	25.5	780
750MCM	1x240	1.7	1.35	28.5	990
-	1x300	1.8	1.43	31	1210
-	1x400	2	1.52	34.2	1510
-	1x500	2.2	1.6	38	1860
-	1x630	2.4	1.77	44	2400
8	2x10	0.7	1.43	16,0	275
6	2x16	0.7	1.43	18,5	360
4	2x25	0.9	1.43	22,0	530
2	2x35	0.9	1.43	24,5	640
8	3x10	0.7	1.43	17,0	300
6	3x16	0.7	1.43	19,5	400
4	3x25	0.9	1.43	23,5	600
2	3x35	0.9	1.43	26,0	750
1	3x50	1	1.43	29,0	970
2/0	3x70	1.1	1.52	34,0	1310
3/0	3x95	1.1	1.6	38,5	1730
4/0	3x120	1.2	1.69	42,5	2120
300MCM	3x150	1.4	1.86	47,5	2640
500MCM	3x185	1.6	1.94	53,0	3290
750MCM	3x240	1.7	2.11	59,5	4210
	3x300	1.8	2.28	66,0	5210
4	4x25	0.9	1.43	25,5	720
2	4x35	0.9	1.43	28,5	910
1	3x50+35	1	1.52	31,1	1130
2/0	3x70+50	1.1	1.6	36,2	1540
3/0	3x95+50	1.1	1.69	40,6	1940
4/0	3x120+70	1.2	1.86	45,4	2430
300MCM	3x150+70	1.4	1.94	49,5	2890
500MCM	3x185+70	1.6	2.11	54,4	3660
750MCM	3x240+95	1.7	2.28	61,5	4680