



## 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%.

### Standard and Approval

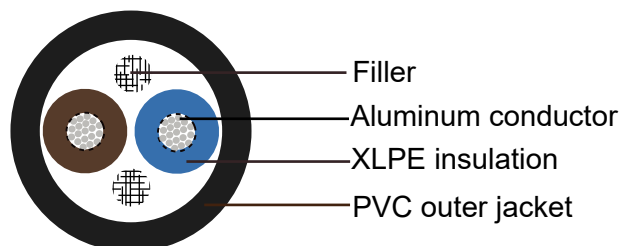
XP C 32-321(formerly NF C 32-321), EN 60332-1/NF C 32-070 2.1(C2) , EN 50575(Eca) , CE Approval

### Cable Construction

- Flexible aluminum strands
- Strands to IEC 60228 class 2
- XLPE insulation according to XP C 32-321
- Color codes to XP C32-321
- Not fibrous and not hygroscopic filler(only for multicore cables)
- Flexible black PVC outer jacket

### Technical Characteristics

- Working Voltage: 600/1000 volts
- Test voltage: 3500 volts
- Minimum bending radius:  $8 \times \varnothing$
- Operation temperature range:  $-15^{\circ}\text{C}$  to  $90^{\circ}\text{C}$
- Short-circuit temperature:  $250^{\circ}\text{C}$
- Flame retardant: EN 60332-1/NF C 32-070 C2



U1000 AR2V



### Cable Parameter

Conductor		Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight
No. of Cores x Cross Section	Class of Conductor				
No. x mm <sup>2</sup>					
1x35	2	0.9	1.4	13.5	190
1x50	2	1	1.4	13.7	245
1x70	2	1.1	1.4	15.8	325
1x95	2	1.1	1.5	17.5	425
1x120	2	1.2	1.5	19.3	520
1x150	2	1.4	1.6	21.5	630
1x185	2	1.6	1.6	24.7	780
1x240	2	1.7	1.7	27.7	990
1x300	2	1.8	1.8	30.6	1210
1x400	2	2	1.9	34.2	1510
1x500	2	2.2	2	38	1860
1x630	2	2.4	2.2	42.9	2400
2 Cores					
2x1.5	2	0.7	1.8	9.2	94
2x2.5	2	0.7	1.8	10	110
2x4	2	0.7	1.8	11	146
2x6	2	0.7	1.8	12	172
2x10	2	0.7	1.8	13.6	219
2x16	2	0.7	1.8	15.4	279
2x25	2	0.9	1.8	18.4	388
2x35	2	0.9	1.8	20.6	475
2x50	2	1	1.8	23.6	610
2x70	2	1.1	1.9	26.8	796
2x95	2	1.1	2	30.2	1055
2x120	2	1.2	2.1	33.7	1267
2x150	2	1.4	2.2	37.5	1538
2x185	2	1.6	2.4	41.6	1911
2x240	2	1.7	2.5	46.7	2423
2x300	2	1.8	2.7	51.4	2992
2x400	2	2	2.9	58.9	3739
3 Cores					
3x1.5	2	0.7	1.8	9.6	112
3x2.5	2	0.7	1.8	10.5	132
3x4	2	0.7	1.8	11.6	180
3x6	2	0.7	1.8	12.6	215
3x10	2	0.7	1.8	14.4	279
3x16	2	0.7	1.8	16.3	362
3x25	2	0.9	1.8	19.5	513



Conductor							
No. of Cores x Cross Section	Class of Conductor	Nominal Insulation Thickness		Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
No. x mm <sup>2</sup>		mm		mm	mm	kg/km	
3x35	2	0.9		1.8	21.9	635	
3x50	2	1		1.8	25.1	825	
3x70	2	1.1		1.9	28.7	1086	
3x95	2	1.1		2	32.4	1468	
3x120	2	1.2		2.1	36.1	1768	
3x150	2	1.4		2.3	40.3	2151	
3x185	2	1.6		2.4	44.6	2674	
3x240	2	1.7		2.6	50.2	3434	
3x300	2	1.8		2.7	55.2	4211	
3x400	2	2		3	63.3	5307	
4 Cores							
4x1.5	2	0.7		1.8	10.4	132	
4x2.5	2	0.7		1.8	11.3	157	
4x4	2	0.7		1.8	12.5	217	
4x6	2	0.7		1.8	13.7	262	
4x10	2	0.7		1.8	15.7	343	
4x16	2	0.7		1.8	17.8	486	
4x25	2	0.9		1.8	21.5	646	
4x35	2	0.9		1.8	24.1	850	
4x50	2	1		1.8	27.8	1066	
4x70	2	1.1		2	32	1405	
4x95	2	1.1		2.1	36.1	1900	
4x120	2	1.2		2.3	40.2	2290	
4x150	2	1.4		2.4	44.9	2813	
4x185	2	1.6		2.6	49.8	3468	
4x240	2	1.7		2.8	56	4487	
4x300	2	1.8		3	61.7	5541	
4x400	2	2		3.2	70.7	6934	
5 Cores							
5x1.5	2	0.7		1.8	12.2	154	
5x2.5	2	0.7		1.8	12.8	186	
5x4	2	0.7		1.8	14.3	257	
5x6	2	0.7		1.8	15.8	311	
5x10	2	0.7		1.8	18.3	407	
5x16	2	0.7		1.8	21.2	610	
4x25+1x16	2	0.9	0.7	1.8	25.3	713	
4x35+1x16	2	0.9	0.7	1.8	28.4	910	
4x50+1x25	2	1	0.9	2.1	33.1	1151	
4x70+1x16	2	1.1	0.9	2.2	38.7	1530	
4x70+1x35	2	1.1	0.9	2.2	39.2	1600	
4x95+1x50	2	1.1	1	2.4	44.3	2052	



## French Standard

Conductor						
No. of Cores x Cross Section	Class of Conductor	Nominal Insulation Thickness		Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight
No. x mm <sup>2</sup>		mm		mm	mm	kg/km
4x120+1x70	2	1.1	1.1	2.5	49.3	2505
4x150+1x70	2	1.4	1.1	2.7	54.3	3006
4x150+1x120	2	1.4	1.2	2.7	55	3207
4x185+1x95	2	1.6	1.1	2.9	61	3839
4x185+1x150	2	1.6	1.4	2.9	61.6	4092
4x240+1x25	2	1.7	0.9	3.1	68.6	4592
4x240+1x70	2	1.7	1.1	3.1	69.3	4713
5x95	2	1.1		2.4	44.8	2330
5x120	2	1.2		2.5	49.8	2719
5x150	2	1.4		2.7	55.5	3340
5x185	2	1.6		2.9	62.1	4262
5x240	2	1.7		3.1	70.1	5540
Multicores						
7x1.5	2	0.7		1.8	13.2	189
10x1.5	2	0.7		1.8	16.4	257
12x1.5	2	0.7		1.8	16.9	288
7x2.5	2	0.7		1.8	14.4	230
10x2.5	2	0.7		1.8	18	313
12x2.5	2	0.7		1.8	18.6	353