



## U-1000 R2V

### 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

XP C 32-321 (formerly NF C 32-321) , EN 60332-1/NF C 32-070

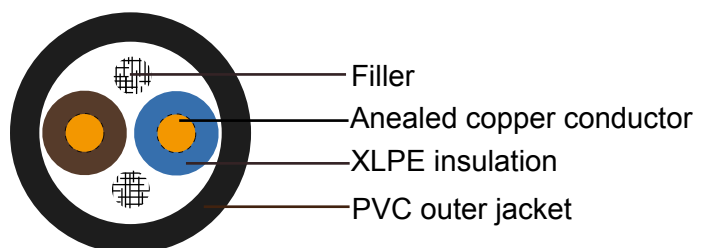
### Cable Construction

- Flexible electrolytic annealed copper strands
- Strands to IEC 60228 class 2 , make-up with fine wires ( $\Phi$  max. 0.4mm) with flexibility level equivalent to class 5.
- XLPE insulation according to XP C 32-321.
- Color codes to XP 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  $\Phi$
- Operation temperature range: -15 °C to 60 °C
- Short-circuit temperature: 250 °C
- Flame retardant: NF C 32-070 C2
- Insulation resistance: 20 M $\Omega$  x km



U1000 R2V



## French Standard

### 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
16	1x1.5	0.7	1.09	6.6	45
14	1x2.5	0.7	1.09	7	55
12	1x4	0.7	1.09	7.6	75
10	1x6	0.7	1.09	8.2	100
8	1x10	0.7	1.09	9.2	140
6	1x16	0.7	1.09	10.5	205
4	1x25	0.9	1.09	12.5	315
2	1x35	0.9	1.09	13.5	400
1	1x50	1	1.09	15	530
2/0	1x70	1.1	1.09	17	725
3/0	1x95	1.1	1.18	19	985
4/0	1x120	1.2	1.18	21	1260
300MCM	1x150	1.4	1.26	23	1520
500MCM	1x185	1.6	1.26	25.5	1940
750MCM	1x240	1.7	1.35	28.5	2310
	1x300	1.8	1.43	31	3200
16	2x1.5	0.7	1.43	10.5	115
14	2x2.5	0.7	1.43	11.5	145
12	2x4	0.7	1.43	13	195
10	2x6	0.7	1.43	14	265
8	2x10	0.7	1.43	16	390
6	2x16	0.7	1.43	18.5	560
4	2x25	0.9	1.43	22	850
2	2x35	0.9	1.43	24.5	1080
16	3x1.5	0.7	1.43	11	130
14	3x2.5	0.7	1.43	12.5	170
12	3x4	0.7	1.43	13.5	230
10	3x6	0.7	1.43	15	325
8	3x10	0.7	1.43	17	485
6	3x16	0.7	1.43	19.5	705
4	3x25	0.9	1.43	23.5	1080
2	3x35	0.9	1.43	26	1390
1	3x50	1	1.43	29	1840
2/0	3x70	1.1	1.52	34	2540
3/0	3x95	1.1	1.6	38.5	3430
4/0	3x120	1.2	1.69	42.5	4440



# Addison Industrial Cables

## French Standard

AWG	Cross Section mm <sup>2</sup>	Insulation thickness mm	Minimum Sheath thickness mm	Maximum Overall diameter mm	Approx Cable weight kg/km
300MCM	3x150	1.4	1.86	47.5	5380
500MCM	3x185	1.6	1.94	53	6920
750MCM	3x240	1.7	2.11	59.5	8420
-	3x300	1.8	2.28	66	11300
16	4x1.5	0.7	1.8	11.3	180
14	4x2.5	0.7	1.8	12.2	220
12	4x4	0.7	1.8	13.3	300
10	4x6	0.7	1.8	15	420
8	4x10	0.7	1.8	17.25	630
6	4x16	0.7	1.8	18.8	900
4	4x25	0.9	1.8	23	1350
2	4x35	0.9	1.8	25.1	1750
1	4x50	1	1.9	29.1	2350
2/0	4x70	1.1	2	33.9	3400
3/0	4x95	1.1	2.1	38.4	4500
4/0	4x120	1.2	2.3	42.4	5700
300MCM	4x150	1.4	2.4	47.2	7050
500MCM	4x185	1.6	2.6	52.65	8700
750MCM	4x240	1.7	2.8	59	11400
-	4x300	1.8	3	64.8	14200
1	3x50+35	1	1.8	28.8	2200
2/0	3x70+50	1.1	2	33.4	3100
3/0	3x95+50	1.1	2.1	37	3950
4/0	3x120+70	1.2	2.2	41.3	5050
300MCM	3x150+70	1.4	2.3	45.1	6100
500MCM	3x185+70	1.6	2.5	50	7400
750MCM	3x240+95	1.7	2.7	55.8	9700
16	5x1.5	0.7	1.8	12.1	205
14	5x2.5	0.7	1.8	13.1	260
12	5x4	0.7	1.8	14	350
10	5x6	0.7	1.8	16.3	500
8	5x10	0.7	1.8	18.5	760
6	5x16	0.7	1.8	20.6	1100
4	5x25	0.9	1.8	25.4	1600
16	7x1.5	0.7	1.8	12.3	260
14	7x2.5	0.7	1.8	13.2	330
12	7x4	0.7	1.8	15.4	450
16	8x1.5	0.7	1.8	13.9	290
14	8x2.5	0.7	1.8	14.9	380



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AWG	Cross Section mm <sup>2</sup>	Insulation thickness mm	Minimum Sheath thickness mm	Maximum Overall diameter mm	Approx Cable weight kg/km
12	8x4	0.7	1.8	16.5	520
16	10x1.5	0.7	1.8	15.8	350
14	10x2.5	0.7	1.8	17	450
12	10x4	0.7	1.8	19	630
16	12x1.5	0.7	1.8	15.5	390
14	12x2.5	0.7	1.8	16.8	510
12	12x4	0.7	1.8	19.6	700
16	14x1.5	0.7	1.8	17	440
14	14x2.5	0.7	1.8	18.3	580
12	14x4	0.7	1.8	20.5	800
16	19x1.5	0.7	1.8	17.9	550
14	19x2.5	0.7	1.8	19.4	740
12	19x4	0.7	1.8	22.6	1050
16	24x1.5	0.7	1.8	20.7	670
14	24x2.5	0.7	1.8	23.2	900
16	30x1.5	0.7	1.8	22.6	800
14	30x2.5	0.7	1.8	24.5	1100
16	37x1.5	0.7	1.8	23.5	950
14	37x2.5	0.7	1.8	26.3	1300