



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%.

Standard and Approval

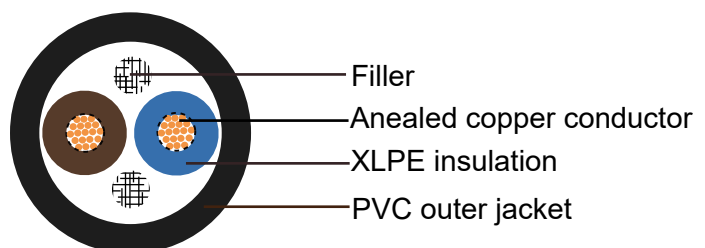
XP C 32-321 (formerly NF C 32-321), EN 60332-1/NF C 32-070 2.1(C2), EN 50575(Eca), CE Approval

Cable Construction

- Flexible electrolytic annealed copper 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°C to 90°C
- Short-circuit temperature: 250°C
- Flame retardant: EN 60332-1/NF C 32-070 C2



U1000 R2V



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 ²		mm	mm	mm	kg/km
1x1.5	2	0.7	1.4	6.1	36
1x2.5	2	0.7	1.4	6.8	52
1x4	2	0.7	1.4	7.4	76
1x6	2	0.7	1.4	8.2	100
1x10	2	0.7	1.4	9.2	160
1x16	2	0.7	1.4	10.7	230
1x25	2	0.9	1.4	12.5	340
1x35	2	0.9	1.4	13.5	440
1x50	2	1	1.4	13.7	541
1x70	2	1.1	1.4	15.8	749
1x95	2	1.1	1.5	17.5	1000
1x120	2	1.2	1.5	19.3	1241
1x150	2	1.4	1.6	21.5	1523
1x185	2	1.6	1.6	24.7	1942
1x240	2	1.7	1.7	27.7	2514
1x300	2	1.8	1.8	30.6	3125
1x400	2	2.0	1.9	34.2	3967
1x500	2	2.2	2.0	38.0	5063
1x630	2	2.4	2.2	42.9	6491
2 Cores					
2x1.5	2	0.7	1.8	9.2	109
2x2.5	2	0.7	1.8	10	138
2x4	2	0.7	1.8	11	182
2x6	2	0.7	1.8	12	234
2x10	2	0.7	1.8	13.6	333
2x16	2	0.7	1.8	15.4	468
2x25	2	0.9	1.8	18.4	686
2x35	2	0.9	1.8	20.6	926
2x50	2	1	1.8	23.6	1269
2x70	2	1.1	1.8	26.8	1699
2x95	2	1.1	1.9	30.2	2269
2x120	2	1.2	2	33.7	2853
2x140	2	1.4	2.2	37.5	3539
2x185	2	1.6	2.3	41.6	4329
2x240	2	1.7	2.5	46.7	5607
2x300	2	1.8	2.6	51.4	6892
2x400	2	2	2.9	58.9	9202
3 Cores					
3x1.5	2	0.7	1.8	9.6	133
3x2.5	2	0.7	1.8	10.5	174
3x4	2	0.7	1.8	11.6	236



Conductor		Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight
No. of Cores x Cross Section	Class of Conductor				
No. x mm ²		mm	mm	mm	kg/km
3x6	2	0.7	1.8	12.6	310
3x10	2	0.7	1.8	14.4	452
3x16	2	0.7	1.8	16.3	648
3x25	2	0.9	1.8	19.5	963
3x35	2	0.9	1.8	21.9	1315
3x50	2	1	1.8	25.1	1818
3x70	2	1.1	1.9	28.7	2451
3x95	2	1.1	2	32.4	3287
3x120	2	1.2	2.1	36.1	4142
3x150	2	1.4	2.3	40.3	5140
3x185	2	1.6	2.4	44.6	6295
3x240	2	1.7	2.6	50.2	8170
3x300	2	1.8	2.7	55.2	10063
3x400	2	2	3	63.3	13451
3 Cores + 1 Earth Conductor					
		power conductor	earth conductor		
3x16/10	2	0.7	0.7	1.8	793
3x25/16	2	0.9	0.7	1.8	1070
3x35/16	2	0.9	0.7	1.8	1349
3x50/25	2	1	0.9	1.8	1890
3x70/35	2	1.1	0.9	2	2660
3x95/50	2	1.1	1	2.1	3650
3x120/70	2	1.2	1.1	2.3	4610
3x150/70	2	1.4	1.1	2.4	5450
3x185/95	2	1.6	1.1	2.6	6680
3x240/120	2	1.7	1.2	2.8	8690
3x300/150	2	1.8	1.4	3	11170
3x400/185	2	1.8	1.6	3.2	11480
4 Cores					
4x1.5	2	0.7	1.8	10.4	169
4x2.5	2	0.7	1.8	11.3	220
4x4	2	0.7	1.8	12.5	297
4x6	2	0.7	1.8	13.7	392
4x10	2	0.7	1.8	15.7	585
4x16	2	0.7	1.8	17.8	851
4x25	2	0.9	1.8	21.5	1200
4x35	2	0.9	1.8	24.1	1600
4x50	2	1	1.8	27.8	2200
4x70	2	1.1	2	32	3050
4x95	2	1.1	2.1	36.1	4070
4x120	2	1.2	2.3	40.2	5915
4x150	2	1.4	2.4	44.9	6350



French Standard

Conductor		Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight
No. of Cores x Cross Section	Class of Conductor				
No. x mm ²		mm	mm	mm	kg/km
4x185	2	1.6	2.6	49.8	7890
4x240	2	1.7	2.8	56	10400
4x300	2	1.8	3	61.7	12810
4x400	2	2	3.2	70.7	15869
5 Cores					
5x1.5	2	0.7	1.8	11.6	205
5x2.5	2	0.7	1.8	12.8	265
5x4	2	0.7	1.8	14.3	360
5x6	2	0.7	1.8	15.8	478
5x10	2	0.7	1.8	18.3	720
5x16	2	0.7	1.8	21.2	1059
4x25+1x16	2	0.9	0.7	1.8	1550
4x35+1x16	2	0.9	0.7	1.8	1991
4x50+1x25	2	1	0.9	2.1	2634
4x70+1x16	2	1.1	0.9	2.2	3560
5x70	2	1.1	2.2	39.2	4130
5x95	2	1.1	2.4	44.8	5618
5x120	2	1.2	2.5	49.8	7039
5x150	2	1.4	2.7	55.5	8655
5x185	2	1.6	2.9	62.1	10833
5x240	2	1.7	3.1	70.1	14091
7 Cores					
7x1.5	2	0.7	1.8	12.4	225
7x2.5	2	0.7	1.8	13.8	303
7x4	2	0.7	1.8	15.5	422
10 Cores					
10x1.5	2	0.7	1.8	15.6	325
10x2.5	2	0.7	1.8	17.5	426
10x4	2	0.7	1.8	19.7	597
12 Cores					
12x1.5	2	0.7	1.8	16.2	370
12x2.5	2	0.7	1.8	18.1	489
12x4	2	0.7	1.8	20.3	690
19 Cores					
19x1.5	2	0.7	1.8	19	516
19x2.5	2	0.7	1.8	21.3	725
19x4	2	0.7	1.8	24	1037
27 Cores					
27x1.5	2	0.7	1.8	22.7	712
27x2.5	2	0.7	1.8	25.5	1004
27x4	2	0.7	1.8	28.8	1445