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

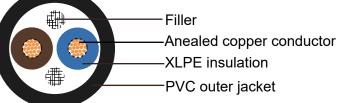
Technical Characteristics

- Working Voltage: 600/1000 volts
- Test voltage: 3500 volts

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- Minimum bending radius: 8 x Ø
- Operation temperature range: -15 °C to 90 °C
- Short-circuit temperature: 250 °C
- Flame retardant: EN 60332-1/NF C 32-070 C2





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Cable Parameter

Conductor						
No. of Cores x Cross Section	Class of Conductor	Nominal Insulation thickness	Nominal Sheath thickness	Approx. Overall diameter	Approx. weight	
No.x mm ²		mm	mm	mm	kg/km	
1x1.5	2	0.7	1.4	6.1	36	
1x2.5	2	0.7	14	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						
No. of Cores x Cross Section	Class of Conductor	Nominal Insulation		Nominal Sheath	Approx. Overall	Approx. weight
No.x mm ²		thickness		thickness	diameter mm	kg/km
3x6	2	0.7		<u>mm</u> 1.8	12.6	310
3x10	2	0.7		1.8	14.4	452
3x16	2	0.		1.8	16.3	648
3x25	2	0.		1.8	19.5	963
3x35	2	0.		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	1.1		2.1	36.1	4142
3x150	2		1.2		40.3	5140
3x185	2	1.		2.3 2.4	44.6	6295
3x240	2	1.		2.6	50.2	8170
3x300	2	1.		2.7	55.2	10063
3x400	2	2		3	63.3	13451
0,400	2		I Earth Conductor	0	00.0	10401
		power conductor	earth conductor			
3x16/10	2	0.7	0.7	1.8	17.5	793
3x25/16	2	0.9	0.7	1.8	21.2	1070
3x35/16	2	0.9	0.7	1.8	23.8	1349
3x50/25	2	1	0.9	1.8	27.5	1890
3x70/35	2	1.1	0.9	2	31.7	2660
3x95/50	2	1.1	1	2.1	35.8	3650
3x120/70	2	1.2	1.1	2.3	39.9	4610
3x150/70	2	1.4	1.1	2.4	44.6	5450
3x185/95	2	1.6	1.1	2.6	49.5	6680
3x240/120	2	1.7	1.2	2.8	55.7	8690
3x300/150	2	1.8	1.4	3	61.4	11170
3x400/185	2	1.8	1.6	3.2	70.4	11480
	_		4 Cores	0.2		
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 (S)	2	0.9		1.8	24.1	1600
4x50 (S)	2	1		1.8	27.8	2200
4x70 (S)	2	1.1		2	32	3050
4x95 (S)	2	1.1		2.1	36.1	4070
4x120 (S)	2	1.2		2.3	40.2	5915
4x150 (S)	2	1.4		2.4	44.9	6350

Conductor								
No. of Cores x Cross Section	Class of Conductor	Nominal Insulation thickness		Nominal Sheath thickness	Approx. Overall diameter	Approx. weight		
No.x mm ²		mm		mm	mm	kg/km		
4x185 (S)	2	1.6		2.6	49.8	7890		
4x240 (S)	2	1.7		2.8	56	10400		
4x300 (S)	2	1.		3	61.7	12810		
4x400(S)	2	2		3.2	70.7	15869		
(S) - Sectoral Stranded Conductor								
5 Cores								
5x1.5	2	0.		1.8	11.6	205		
5x2.5	2	0.		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.		1.8	21.2	1059		
4x25+1x16	2	0.9	0.7	1.8	25.3	1550		
4x35+1x16	2	0.9	0.7	1.8	28.4	1991		
4x50+1x25	2	1	0.9	2.1	33.1	2634		
4x70+1x16	2	1.1	0.9	2.2	38.7	3560		
5x70	2	1.1		2.2	39.2	4130		
5x95	2	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		
	r		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		
	[]		0 Cores	1				
10x1.5	2	0.7		1.8	15.6	325		
10x2.5	2	0.7		1.8	17.5	426		
10x4	10x4 2 0.7 1.8 19.7 597							
			2 Cores					
12x1.5	2	0.7		1.8	16.2	370		
12x2.5	2	0.7		1.8	18.1	489		
12x4	2	0.		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		