

**U-1000 AR2V 0,6/1kV**

[F]

Model Product: 470-471 - 20200626

**general**  
**CAVI s.p.a.**

Aluminium rigid compact conductor, class 2.  
XLPE Crosslinked polyethylene insulation(no dry cool).  
Special Outer sheath PVC.

**STANDARDS**

NF XP C32-321 IEC60502-1 NF EN 60332-1-2 Category C2  
NF C 15-100

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

POWER CABLES INSULATED IN CROSSLINKED  
POLYETHYLENE  
UNDER PVC SHEATH WITH ALUMINIUM RIGID  
CONDUCTOR

Nominal voltage U0: 600V(AC) 1800V(DC)

Nominal voltage U: 1000V(AC) 1800V(DC)

Test voltage: 4000 V

Maximun voltage Um: 1200V(AC) 1800V(DC)

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: -10°C

Min. operating temperature (without mechanical shocks): -25°C

Minimum installation and laying temperature: -10°C

**COMMON FEATURES**

For use on industrial sites and the upright columns of buildings. Particularly suited in cases of high operating temperatures and when high resistance to solar radiation and atmospheric agents is required. Good resistance to low temperatures, chemical agents and UV. It can be used without additional mechanical protection in the open air, fixed to walls or in raceways, inside walkways, and in empty constructions in general. It can be laid underground with mechanical protection constructed from slabs, tiles, or bricks. It is not recommended to lay this cable in ground flooded for more than two months per year. With appropriate mechanical protection it can be used in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%.

**EMPLOYMENT**

Minimum bending radius per D cable diameter (in mm): 8D

Maximum pulling stress: 50 N/mm<sup>2</sup> (of copper cross section)

**CORE COLOURS**

Single core: Black

Two cores: blue-brown

Three cores: brown-black-blue (1,5/2,5mmq); brown-black-gray (4mmq) or Y/G-blue-brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: blue-brown-black-gray-Y/G (or black instead Y/G)

**SHEATH COLOUR**

black

**INK MARKING**

METER YEAR GENERAL CAVI NF-USE 1325 NF XP C 32-321 U-1000  
AR2V FORM. x SEZ. BATCH

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Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying buried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	10	4.1	0.7	1.09	9.2	3.08	88	62	67
1x	16	4.9	0.7	1.09	10.5	1.91	117	84	87
1x	25	6.1	0.9	1.09	12.5	1.20	151	101	111
1x	35	7.1	0.9	1.09	13.5	0.868	188	126	134
1x	50	8.2	1	1.09	15.0	0.641	233	154	160
1x	70	9.9	1.1	1.09	17.0	0.443	312	198	197
1x	95	11.4	1.1	1.18	19.0	0.320	412	241	234
1x	120	13.1	1.2	1.18	21.0	0.253	510	280	266
1x	150	14.4	1.4	1.26	23.0	0.206	625	324	300
1x	185	16.2	1.6	1.26	25.5	0.164	744	371	337
1x	240	18.4	1.7	1.35	28.5	0.125	955	439	388
1x	300	21.1	1.8	1.43	31.0	0.100	1189	508	440
1x	400	24.1	2.0	1.52	34.5	0.0778	1533	663	515
1x	500	27.0	2.2	1.60	38.5	0.0605	1821	770	583
1x	630	31.8	2.4	1.77	43.0	0.0469	2339	889	662
Two cores									
2x	10	3.8	0.7	1.43	16.0	3.08	203	67	80
2x	16	4.7	0.7	1.43	18.5	1.91	300	91	104
2x	25	5.9	0.9	1.43	22.0	1.20	440	108	133
2x	35	7.1	0.9	1.43	24.5	0.868	550	135	160
Three cores									
3x	10	3.5	0.7	1.43	17.0	3.08	266	58	67
3x	16	4.9	0.7	1.43	19.5	1.91	410	77	87
3x	25	6.1	0.9	1.43	23.5	1.20	602	97	111
3x	35	7.1	0.9	1.43	26.0	0.868	740	120	134
3x	50	8.2	1.0	1.43	29.0	0.641	940	146	160
3x	70	9.6	1.1	1.52	34.0	0.443	1322	187	197
3x	95	11.4	1.1	1.60	38.5	0.320	1681	227	234
3x	120	13.1	1.2	1.69	42.5	0.253	2144	263	266
3x	150	14.6	1.4	1.86	47.5	0.206	2622	304	300
3x	185	16.5	1.6	1.94	53.0	0.264	3249	347	337
3x	240	18.4	1.7	2.11	59.5	0.125	4154	409	388
3x	300	21.1	1.8	2.28	66	0.100	5070	471	440
Four cores									

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(N°)	(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
4x	10	4.1	0.7	1.43	18.5	3.08	370	58	67
4x	16	4.9	0.7	1.43	21.0	1.91	485	77	87
4x	25	6.1	0.9	1.43	25.5	1.20	710	97	111
4x	35	7.1	0.9	1.43	28.5	0.868	890	120	134
4x	50	8.2	1.0	1.52	32.5	0.641	1115	146	160
4x	70	9.9	1.1	1.60	37.5	0.443	1576	187	197
4x	95	11.4	1.1	1.69	42.5	0.320	2039	227	234
4x	120	13.1	1.2	1.86	47.5	0.253	2402	263	266
4x	150	14.4	1.4	1.94	52.5	0.206	3010	304	300
4x	185	16.2	1.6	2.11	59.0	0.164	3932	347	337
4x	240	18.4	1.7	2.28	66.5	0.125	4901	409	388
4x	300	20.7	1.8	2.45	73.5	0.100	6124	471	440
3x50 + 1x35		8.2	1.0	1.52	31.1	0.641	1033	146	160
3x70 + 1x50		9.6	1.1	1.60	36.2	0.443	1455	187	197
3x95 + 1x50		11.4	1.1	1.69	40.6	0.320	1910	227	234
3x120 + 1x70		13.1	1.2	1.77	45.4	0.253	2321	263	266
3x150 + 1x70		14.6	1.4	1.86	49.5	0.206	2754	304	300
3x185 + 1x70		16.5	1.6	2.03	54.4	0.164	3261	347	337
3x240 + 1x95		18.4	1.7	2.20	61.5	0.125	4233	409	388
Five cores									
5x	10	3.5	0.7	1.43	20.0	3.08	366	58	67
5x	16	4.9	0.7	1.43	23.0	1.91	577	77	87
5x	25	6.1	0.9	1.43	28.0	1.20	850	97	111