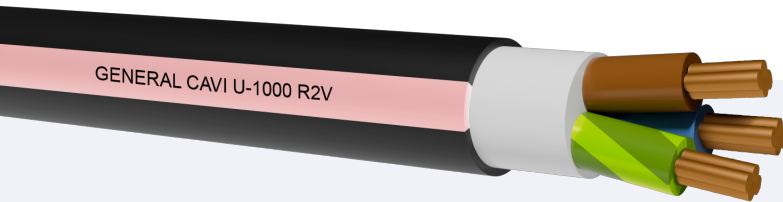


U-1000 R2V 0,6/1kV

[F]CPR Eca

Model Product: 270-271 - 20220224

general
CAVI s.p.a.1.5 2.5 4 6 10 16 **LIGNE DE COULEUR**

Rigid wire red copper conductor class 1 (section $\leq 4 \text{ mm}^2$)
 Stranded circular compacted copper conductors class 2
 (section $>4 \text{ mm}^2$)
 XLPE Crosslinked polyethylene insulation (no dry cool).
 Special Outer sheath PVC.

STANDARDS

NF XP C32-321 IEC60502-1 NF C 15-100
 EN 50575:2014 + EN 50575/A1:2016

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

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 in 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%. CONFORMING CPR. AD7 NF C15-100.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D
 Maximum pulling stress: 5kg/mm² (of copper cross section)

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

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

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

Test voltage: 4000 V

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

Maximum operating temperature: +90°C

Maximum 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

CORE COLOURS

Single core: Black

Two cores: blue-brown

Three cores: brown-black-blue (1,5/2,5mm²); brown-black-gray (4mm²) 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

Singlecore cables and multicore cables (over 5 cores) with black sheath.
 From 2 up to 5 cores, black sheath with colored strip.

INK MARKING

METER YEAR GENERAL CAVI Eca NF-USE 1325 NF XP C 32-321 U-1000
 R2V 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°)	(mm ²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	1.5	1.4	0.7	1.09	6.6	12.1	45	24	31
1x	2.5	1.8	0.7	1.09	7.0	7.41	55	33	41
1x	4	2.25	0.7	1.09	7.6	4.61	75	45	59
1x	6	3.05	0.7	1.09	8.2	3.08	100	58	74
1x	10	3.8	0.7	1.09	9.2	1.83	140	80	101
1x	16	4.7	0.7	1.09	10.5	1.15	205	107	128
1x	25	5.9	0.9	1.09	12.5	0.727	315	138	144
1x	35	7.1	0.9	1.09	13.5	0.524	400	169	174
1x	50	8.0	1	1.09	15.0	0.387	530	207	206
1x	70	9.6	1.1	1.09	17.0	0.268	725	268	254
1x	95	11.4	1.1	1.18	19.0	0.193	985	328	301
1x	120	13.1	1.2	1.18	21.0	0.153	1260	382	343
1x	150	14.6	1.4	1.26	23.0	0.124	1520	441	387
1x	185	16.5	1.6	1.26	25.5	0.0991	1940	506	434
1x	240	18.4	1.7	1.35	28.5	0.0754	2310	599	501
1x	300	21.1	1.8	1.43	31.0	0.0601	3200	693	565
1x	400	23.5	2.0	1.52	34.2	0.0470	3931	-	639
1x	500	26.5	2.2	1.60	38.0	0.0366	5020	-	713
1x	630	30.1	2.4	1.69	44.0	0.0286	5324	-	785
Two cores									
2x	1.5	1.4	0.7	1.43	10.5	12.1	115	26	37
2x	2.5	1.8	0.7	1.43	11.5	7.41	145	36	48
2x	4	2.25	0.7	1.43	13.0	4.61	195	49	63
2x	6	3.05	0.7	1.43	14.0	3.08	265	63	80
2x	10	3.8	0.7	1.43	16.0	1.83	390	86	104
2x	16	4.7	0.7	1.43	18.5	1.15	560	115	136
2x	25	5.9	0.9	1.43	22.0	0.727	850	149	173
2x	35	7.1	0.9	1.43	24.5	0.524	1080	185	208
Three cores									
3x	1.5	1.4	0.7	1.43	11.0	12.1	130	23	31
3x	2.5	1.8	0.7	1.43	12.5	7.41	170	31	41
3x	4	2.25	0.7	1.43	13.5	4.61	230	42	53
3x	6	3.05	0.7	1.43	15.0	3.08	325	54	66
3x	10	3.8	0.7	1.43	17.0	1.83	485	75	87
3x	16	4.7	0.7	1.43	19.5	1.15	705	100	113



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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°)	(mm ²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
3x	25	5.9	0.9	1.43	23.5	0.727	1080	127	144
3x	35	7.1	0.9	1.43	26.0	0.524	1390	158	174
3x	50	8.0	1.0	1.43	29.0	0.387	1840	192	206
3x	70	9.6	1.1	1.52	34.0	0.268	2540	246	254
3x	95	11.4	1.1	1.60	38.5	0.193	3430	298	301
3x	120	13.1	1.2	1.69	42.5	0.153	4440	346	343
3x	150	14.6	1.4	1.86	47.5	0.124	5380	395	395
3x	185	16.5	1.6	1.94	53.0	0.0991	6920	450	434
3x	240	18.4	1.7	2.11	59.5	0.0754	8420	538	501
3x	300	21.1	1.8	2.28	66	0.0601	11300	621	565
Four cores									
4x	1.5	1.4	0.7	1.43	12.0	12.1	150	23	31
4x	2.5	1.8	0.7	1.43	13.0	7.41	205	31	41
4x	4	2.25	0.7	1.43	14.5	4.61	280	42	53
4x	6	3.05	0.7	1.43	16.0	3.08	390	54	66
4x	10	3.8	0.7	1.43	18.5	1.83	590	75	87
4x	16	4.7	0.7	1.43	21.0	1.15	870	100	113
4x	25	5.9	0.9	1.43	25.5	0.727	1365	127	144
4x	35	7.1	0.9	1.43	28.5	0.524	1760	158	174
4x	50	8.1	1.0	1.52	32.5	0.387	2466	192	206
4x	70	9.7	1.1	1.60	37.5	0.268	3442	246	254
4x	95	11.4	1.1	1.69	42.5	0.193	4690	298	301
4x	120	13.1	1.2	1.86	47.5	0.153	6119	346	343
4x	150	14.6	1.4	1.94	52.5	0.124	7405	395	387
4x	185	16.5	1.6	2.11	59.0	0.0991	8820	450	434
4x	240	18.5	1.7	2.28	66.5	0.0754	11865	538	501
4x	300	21.0	1.8	2.45	73.5	0.0601	14716	621	565
3x50 + 1x35		8.0	1.0	1.52	31.1	0.387	2160	192	206
3x70 + 1x50		9.6	1.1	1.60	36.2	0.268	3010	246	254
3x95 + 1x50		11.4	1.1	1.69	40.6	0.193	3960	298	301
3x120 + 1x70		13.1	1.2	1.86	45.4	0.153	5160	346	343
3x150 + 1x70		14.6	1.4	1.94	49.5	0.124	6150	395	387
3x185 + 1x70		16.5	1.6	2.11	54.4	0.0991	7780	450	434
3x240 + 1x95		18.4	1.7	2.28	61.5	0.0754	9550	538	501
Five cores									
5x	1.5	1.4	0.7	1.43	13.0	12.1	180	23	31



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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°)	(mm ²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
5x	2.5	1.8	0.7	1.43	14.5	7.41	240	31	41
5x	4	2.25	0.7	1.43	16.0	4.61	335	42	53
5x	6	3.05	0.7	1.43	17.5	3.08	475	54	66
5x	10	3.8	0.7	1.43	20.0	1.83	720	75	87
5x	16	4.7	0.7	1.43	23.0	1.15	1060	100	113
5x	25	5.9	0.9	1.43	28.0	0.727	1645	127	144
5x	35	7.1	0.9	1.43	31.0	0.524	2250	158	174
5x	50	8.1	1.0	1.43	34.5	0.387	2950	192	206
5x	70	9.7	1.1	1.43	41.5	0.268	4300	246	254
5x	95	11.4	1.1	1.43	46.5	0.193	5710	298	301
Multicores									
7x	1.5	1.4	0.7	1.43	13,5	12.1	220	15	22
7x	2.5	1.8	0.7	1.43	15.0	7.41	310	20.5	28
10x	1.5	1.4	0.7	1.43	16.5	12.1	310	13	18.5
10x	2.5	1.8	0.7	1.43	19.0	7.41	440	18	24.5
12x	1.5	1.4	0.7	1.43	17.0	12.1	370	12.5	18
12x	2.5	1.8	0.7	1.43	19.5	7.41	525	17	24
14x	1.5	1.4	0.7	1.43	18.0	12.1	430	12	17
14x	2.5	1.8	0.7	1.43	20.5	7.41	610	16	22
19x	1.5	1.4	0.7	1.43	19.5	12.1	560	10.5	15
19x	2.5	1.8	0.7	1.43	22.5	7.41	745	14.5	19.5
24x	1.5	1.4	0.7	1.43	22.5	12.1	710	10	14
24x	2.5	1.8	0.7	1.43	25.5	7.41	1000	13	18
30x	1.5	1.4	0.7	1.43	24.0	12.1	806	9	12.5
30x	2.5	1.8	0.7	1.43	27.5	7.41	1135	12	16.5
37x	1.5	1.4	0.7	1.43	25.5	12.1	972	8	12
37x	2.5	1.8	0.7	1.43	29.5	7.41	1350	11	15.5