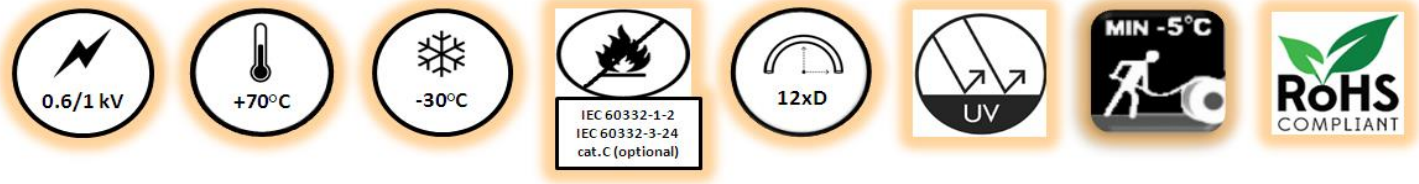
CYAb(z)Y , CYAb(z)Y-F, NYBY, VAV

Cablu de energie, armat, cu izolatie si manta de PVC

Steel tape armoured power cable



Standard de fabricatie: SR HD 603 S1/4C, SR CEI 60502-1
Standard intern: ST 104.1
Tensiune nominala U_0/U: 0.6/1 kV

Domeniul de utilizare
Cablurile sunt utilizate pentru transportul energiei electrice la statii de putere.
Cablurile pot fi pozate in spatii inchise si deschise, in pamant, in canale, in beton, in tuburi. Cablurile pot fi utilizate in mediul exploziv, zona 1 si 2, grupa II G.

Temperatura maxima de lucru: +70ºC
Temperatura maxima de scurt-circuit: +160ºC
Temperatura minima a cablului (masurata pe manta):
- **la montaj:** -5ºC
- **in exploatare:** -30ºC

*** Cablurile sunt cu rezistenta la UV**
Conductor de cupru
Conductor unifilar (re), conductor multifilar (rm), conf SR EN 60228
Izolatia
PVC
Manta interioara
PVC negru sau gri
Armatura
Banda de otel laminata la rece nezincata sau zincata.
Manta exterioara
PVC negru sau gri
Cabluri CYAb(z)Y, NYBY sunt cu intarziere la propagarea flacarii, conf SR EN 60332-1-2
Cabluri sunt cu intarziere marita la propagarea flacarii: CYAb(z)Y -F conf. SR EN 60332-3-24/ cat.C

Marcaj pe manta
SC ELECTROPLAST SA, simbol cablu, tensiune de lucru, an de fabricatie, marcaj de lungime
Raza minima de curbura la instalare
12 x diametrul cablului
Forta maxima de tractiune la pozare
50 N/mm^2

Cod de culori
- 1 conductor: negru, sau galben-verde
- 2 conductoare: albastru, maro
  - galben-verde, negru, pt sect >10mm^2
- 3 conductoare: maro, negru, gri
  - galben-verde, albastru, maro
- 4 conductoare: albastru,maro,negru,gri
  - galben-verde, maro, negru, gri
- 5 conductoare: albastru, maro, negru, gri, negru
  - galben-verde, albastru, maro, negru, gri

* Mai mult de 5 conductoare:
- conductoare negre numerotate
- galben-verde, conductoare negre numerotate

Reference standards: SR HD 603 S1/4C, SR CEI 60502-1
Company production standard: ST 104.1
Rated voltage U_0/U: 0.6/1 kV

Applicability
Power supply to power stations.
The cables can be installed in open or confined areas, underground, in sewers, in concrete, in conduits .
Cables can be use in explosive zone 1 and 2, Group II G.

Max. permissible operating temperature: +70ºC
Max. short-circuit temperature: +160ºC
Min. cable temperature (measured on sheath surface)
- **during installation:** -5ºC
- **in operation:** -30ºC

*** The cables are UV-resistant**
Copper conductor
Solid conductor (re), concentrically stranded conductor (rm) according to SR EN 60228.
Insulation
PVC
Inner sheath
PVC black or gray
Armor
Blank or zinc-plated cold-rolled steel tape
Outer sheath
PVC black or gray.
CYAb(z)Y, NYBY are flame retardant cables, test acc. to SR EN 60332-1-2.
CYAb(z)Y -F are extra flame retardant cables, test according to SR EN 60332-3-24/ C category.

Sheath marking
SC ELECTROPLAST SA, cable symbol, operational voltage, manufacture year, length marking.
Min. bending radius at installation
12 x cable diameter
Max. tensile strain during installation
50 N/mm^2

Color coding
- 1 conductor: black or yellow-green
- 2 conductors: blue, brown
  - yellow-green, black for sect>10 mm^2
- 3 conductors: brown, black, grey
  -yellow-green, blue, brown
- 4 conductors: blue, brown, black, grey
  -yellow-green, brown, black, grey
- 5 conductors-: blue, brown, black, grey, black
  -yellow-green, blue, brown, black, grey

* More than 5 conductors :
- numbered black conductors
- yellow-green, numbered black conductors

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Tipodimensiune cablu *Cable size*	**Tip conductor** *Type of conductor*	**Grosime radiala izolatie,** *Radial thickness of insulation* mm	**Grosime radiala manta interna nom** *Radial thickness of inner sheath min.* mm	**Grosime radiala nom/min manta exterioara** *Radial thickness nom/min of outer sheath* mm	**Rezistenta electrica max,la 20°C** *Max. resistance at 20°C* Ω/km	**Diametru exterior inf** *Outer diameter* Inf mm	**Masa Inf** *Mass, inf* kg/km
1x16	rm	1.0	1.2	1.8/1.24	1.15	13.1	371
1x25	rm	1.2	1.2	1.8/1.24	0.727	14.8	505
1x35	rm	1.2	1.2	1.8/1.24	0.524	16.0	625
1x50	rm	1.4	1.2	1.8/1.24	0.387	17.7	791
1x70	rm	1.4	1.2	1.8/1.24	0.268	19.5	1031
1x95	rm	1.6	1.2	1.8/1.24	0.193	21.8	1346
1x120	rm	1.6	1.2	1.8/1.24	0.153	23.3	1592
1x150	rm	1.8	1.2	1.8/1.24	0.124	25.3	1920
1x185	rm	2.0	1.2	1.8/1.24	0.0991	27.6	2370
1x240	rm	2.2	1.2	1.8/1.24	0.0754	30.5	3018
1x300	rm	2.4	1.2	1.8/1.24	0.0601	33.5	3698
2x1.5	re	0.8	1.2	1.8/1.24	12.1	12.2	249
2x2.5	re	0.8	1.2	1.8/1.24	7.41	13.0	296
2x4	re	1.0	1.2	1.8/1.24	4.61	14.7	390
2x6	re	1.0	1.2	1.8/1.24	3.08	15.9	476
2x10	re	1.0	1.2	1.8/1.24	1.83	18.4	648
2x16	rm	1.0	1.2	1.8/1.24	1.15	21.2	902
2x25	rm	1.2	1.2	1.8/1.24	0.727	24.2	1232
2x35	rm	1.2	1.2	1.8/1.24	0.524	26.6	1544
2x50	rm	1.4	1.2	1.8/1.24	0.387	29.2	1877
2x70	rm	1.4	1.2	1.8/1.24	0.268	33.2	2497
2x95	rm	1.6	1.2	1.8/1.24	0.193	38.2	3527
2x120	rm	1.6	1.3	1.8/1.24	0.153	41.5	4221
3x1.5	re	0.8	1.2	1.8/1.24	12.1	12.6	278
3x2.5	re	0.8	1.2	1.8/1.24	7.41	13.5	334
3x4	re	1.0	1.2	1.8/1.24	4.61	15.4	447
3x6	re	1.0	1.2	1.8/1.24	3.08	16.7	542
3x10	re	1.0	1.2	1.8/1.24	1.83	19.4	744
3x16	rm	1.0	1.2	1.8/1.24	1.15	21.9	1054
3x25	rm	1.2	1.2	1.8/1.24	0.727	25.6	1502
3x25+16	rm	1.2;1.0	1.2	1.8/1.24	0.727;1.15	26.9	1689
3x35	rm	1.2	1.2	1.8/1.24	0.524	28.2	1917
3x35+16	rm	1.2;1.0	1.2	1.8/1.24	0.524;1.15	29.2	2076

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Tipodimensiune cablu *Cable size*	**Tip conductor** *Type of conductor*	**Grosime radiala izolatie,** *Radial thickness of insulation* mm	**Grosime radiala manta interna nom** *Radial thickness of inner sheath min.* mm	**Grosime radiala nom/min manta exterioara** *Radial thickness nom/min of outer sheath* mm	**Rezistenta electrica max,la 20°C** *Max. resistance at 20°C* Ω/km	**Diametru exterior inf** *Outer diameter* Inf mm	**Masa Inf** *Mass, inf* kg/km
3x50	sm	1.4	1.2	1.9/1.32	0.387	28.4	2130
3x50+25	sm/rm	1.4;1.2	1.2	2.0/1.4	0.387/0.727	31.8	2655
3x70	sm	1.4	1.2	2.0/1.4	0.268	31.8	2950
3x70+35	sm/rm	1.4;1.2	1.2	2.1/1.48	0.268/0.524	37.0	3766
3x95	sm	1.6	1.2	2.1/1.48	0.193	35.4	4055
3x95+50	sm/sm	1.6;1.4	1.3	2.4/1.72	0.193/0.387	40.2	4752
3x120	sm	1.6	1.3	2.2/1.56	0.153	38.0	4811
3x120+70	sm/sm	1.6;1.4	1.3	2.4/1.72	0.153/0.268	43.6	5800
3x150	sm	1.8	1.3	2.3/1.64	0.124	42.2	5822
3x150+70	sm/sm	1.8;1.4	1.4	2.5/1.8	0.124/0.268	48.0	6856
3x185	sm	2.0	1.4	2.4/1.72	0.0991	45.6	7185
3x185+95	sm/ sm	2.0;1.6	1.5	2.7/1.96	0.0991/0.193	53.2	5899
3x240	sm	2.2	1.5	2.6/1.88	0.0754	52.2	9330
3x240+120	sm/sm	2.2/1.6	1.6	2.9/2.12	0.0754/0.153	60.0	10885
4x1.5	re	0.8	1.2	1.8/1.24	12.1	13.4	13.4
4x2.5	re	0.8	1.2	1.8/1.24	7.41	14.4	388
4x4	re	1.0	1.2	1.8/1.24	4.61	16.5	527
4x6	re	1.0	1.2	1.8/1.24	3.08	17.9	658
4x10	re	1.0	1.2	1.8/1.24	1.83	20.9	916
4x16	rm	1.0	1.2	1.8/1.24	1.15	23.8	1277
4x25	rm	1.2	1.2	1.8/1.24	0.727	28.1	1864
4x35	sm	1.2	1.2	1.8/1.24	0.524	31.2	2391
4x50	sm	1.4	1.2	2.0/1.4	0.387	31.8	2833
4x70	sm	1.4	1.2	2.2/1.56	0.268	37.0	4150
4x95	sm	1.6	1.3	2.4/1.72	0.193	39.5	5150
4x120	sm	1.6	1.4	2.5/1.8	0.153	43.8	4478
4x150	sm	1.8	1.4	2.5/1.8	0.124	43.8	7611
4x185	sm	2.0	1.5	2.5/1.8	0.0991	53.6	9650
5x1.5	re	0.8	1.2	1.8/1.24	12.1	14.2	364
5x2.5	re	0.8	1.2	1.8/1.24	7.41	15.3	448
5x4	re	1.0	1.2	1.8/1.24	4.61	17.7	615
5x6	re	1.0	1.2	1.8/1.24	3.08	19.3	773
5x10	re	1.0	1.2	1.8/1.24	1.83	22.6	1087
5x16	rm	1.0	1.2	1.8/1.24	1.15	25.8	1537

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5x25	rm	1.2	1.2	1.8/1.24	0.727	31.3	2260
5x35	rm	1.2	1.2	1.8/1.24	0.524	34.2	2908
5x50	rm	1.4	1.2	2.3/1.64	0.387	40.9	3800
5x70	rm	1.4	1.3	2.4/1.72	0.268	43.5	4950
5x95	rm	1.6	1.4	2.5/1.83	0.193	46.0	7000
5x120	rm	1.6	1.5	2.7/1.96	0.153	53.7	8500
7x1.5	re	0.8	1.2	1.8/1.24	12.1	15.1	475
7x2.5	re	0.8	1.2	1.8/1.24	7.41	16.3	595
9x1.5	re	0.8	1.2	1.8/1.24	12.1	18.2	524
9x2.5	re	0.8	1.2	1.8/1.24	7.41	19.7	632
12x1.5	re	0.8	1.2	1.8/1.24	12.1	19.2	608
12x2.5	re	0.8	1.2	1.8/1.24	7.41	20.9	784
14x1.5	re	0.8	1.2	1.8/1.24	12.1	20.0	680
14x2.5	re	0.8	1.2	1.8/1.24	7.41	21.7	730
16x1.5	re	0.8	1.2	1.8/1.24	12.1	21.0	750
16x2.5	re	0.8	1.2	1.8/1.24	7.41	22.9	850
19x1.5	re	0.8	1.2	1.8/1.24	12.1	21.9	812
19x2.5	re	0.8	1.2	1.8/1.24	7.41	23.9	1050

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