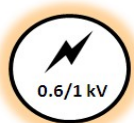


CYY, NYY

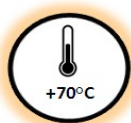


Cablu de energie cu izolatie si manta de PVC

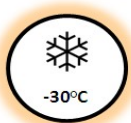
PVC – insulated and sheathed power cable



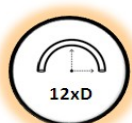
0.6/1 kV



+70°C



-30°C



12xD

Standard de fabricatie: SR HD 603 S1/3G-2; IEC 60502

Tensiune nominala U₀/U: 0.6/1 kV

Tensiune de incercare: 4 kV ca sau 12 kV cc, 5 min

Domeniul de utilizare

Cablurile sunt utilizate pentru transportul energiei electrice la statiile de putere.

Cablurile pot fi pozate in spatii inchise si deschise, in pamant, in canale, in beton, in tuburi si in mediu umed

Cablurile sunt cu rezistenta la UV si pot fi utilizate in mediul exploziv, zona 1 si 2, grupa II G.

Temperatura maxima de lucru: +70°C

Temperatura maxima de scurt-circuit: +160°C

Temperatura minima a cablului (masurata pe manta):

- **la montaj:** -5°C
- **in exploatare:** -33°C

Conductor de cupru

Conductor unifilar (re) cl 1, conductor multifilar (rm), cl 2, conf. SR EN 60228

Izolatia

PVC, tip DIV 4.

Manta

Cablurile sunt cu intarziere la propagarea flacarii, incercare conf SR EN 60332-1-2

Certificare SR EN 50575- clasa Eca

Marcaj pe manta

SC ELECTROPLAST SA, simbol cablu, tensiune de lucru, an de fabricatie, marcaj de lungime, Eca

Raza minima de curbura la instalare

15 x diametrul cablului- cablu monofilar

12 x diametrul cablului- cablu multifilar

Forta maxima de tractiune la pozare

50 N/mm²

Cod de culori

- 1 conductor: negru sau galben-verde
- 2 conductoare: albastru, maro
- galben-verde, negru, pt sect >10mm²
- 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
- g/v, conductoare negre numerotate



Standard: SR HD 603 S1/3G-2; IEC 60502

Rated voltage U₀/U: 0.6/1 kV

Test voltage: 4 kV ac or 12 kV dc, 5 min

Applicability

Power supply to power stations.

The cables can be installed in open or confined areas, underground, in sewers, in concrete, in conduits and wet environments

Cables are UV resistant and can be used in explosive zone 1 and 2, Group II G

Max. permissible operating temperature: +70°C

Max. short-circuit temperature: +160°C

Min. cable temperature (measured on sheath surface)

- **during installation:** -5°C
- **in operation:** -33°C

Copper conductor

Solid conductor (re) cl.1, concentrically stranded circular conductor (rm) cl.2 acc. to SR EN 60228

Insulation

PVC, DIV 4 type.

Sheath

PVC, DMV5 type, black or gray.

Flame retardant cables, test acc. to SR EN 60332-1-2

SR EN 50575 certified- class Eca

Sheath marking

SC ELECTROPLAST SA, cable symbol, operational voltage, manufacture year, length marking, Eca

Min. bending radius at installation

15 x cable diameter – single-core cable

12 x cable diameter – multicore cable

Max. tensile strain during installation

50 N/mm²

Color coding

- 1 conductor: black or yellow-green
- 2 conductors: blue, brown
- yellow-green, black for sect >10 mm²
- 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



Cablu de energie cu izolatie si manta de PVC

PVC – insulated and sheathed power cable

| Tipodimensiune cablu | Tip conductor | Grosime radiala izolatie | Grosime radiala manta | Rezistenta electrica max, la 20°C | Diametru exterior inf | Masa inf |
|----------------------|--------------------------|---|---------------------------------------|-----------------------------------|---------------------------|-----------------|
| <i>Cable size</i> | <i>Type of conductor</i> | <i>Radial thickness of the insulation</i> | <i>Radial thickness of the sheath</i> | <i>Max.resistance at 20°C</i> | <i>Outer diameter inf</i> | <i>Mass inf</i> |
| | | mm | mm | Ω/km | mm | kg/km |
| 1x1.5 | re | 0.8 | 1.8 | 12.1 | 6.6 | 60 |
| 1x2.5 | re | 0.8 | 1.8 | 7.41 | 7.0 | 74 |
| 1x4 | re | 1.0 | 1.8 | 4.61 | 7.9 | 99 |
| 1x6 | re | 1.0 | 1.8 | 3.08 | 8.4 | 124 |
| 1x10 | re | 1.0 | 1.8 | 1.83 | 9.2 | 170 |
| 1x16 | re | 1.0 | 1.8 | 1.15 | 10.9 | 247 |
| 1x25 | rm | 1.2 | 1.8 | 0.727 | 12.6 | 359 |
| 1x35 | rm | 1.2 | 1.8 | 0.524 | 13.8 | 464 |
| 1x50 | rm | 1.4 | 1.8 | 0.387 | 15.6 | 609 |
| 1x70 | rm | 1.4 | 1.8 | 0.268 | 17.3 | 825 |
| 1x95 | rm | 1.6 | 1.8 | 0.193 | 19.7 | 1112 |
| 1x120 | rm | 1.6 | 1.8 | 0.153 | 21.0 | 1338 |
| 1x150 | rm | 1.8 | 1.8 | 0.124 | 23.1 | 1643 |
| 1x185 | rm | 2.0 | 1.8 | 0.0991 | 25.5 | 2050 |
| 1x240 | rm | 2.2 | 1.9 | 0.0754 | 30.2 | 2708 |
| 1x300 | rm | 2.4 | 1.9 | 0.0601 | 31.3 | 3290 |
| 1x400 | rm | 2.6 | 2.1 | 0.0470 | 35.4 | 4300 |
| 1x500 | rm | 2.8 | 2.2 | 0.0366 | 38.8 | 5300 |
| 2x1.5 | re | 0.8 | 1.8 | 12.1 | 9.8 | 137 |
| 2x2.5 | re | 0.8 | 1.8 | 7.41 | 10.6 | 172 |
| 2x4 | re | 1.0 | 1.8 | 4.61 | 12.3 | 233 |
| 2x6 | re | 1.0 | 1.8 | 3.08 | 13.5 | 300 |
| 2x10 | re | 1.0 | 1.8 | 1.83 | 15.1 | 434 |
| 2x16 | re | 1.0 | 1.8 | 1.15 | 18.8 | 669 |
| 2x25 | rm | 1.2 | 1.8 | 0.727 | 22.2 | 938 |
| 2x35 | rm | 1.2 | 1.8 | 0.524 | 24.6 | 1265 |
| 3x1.5 | re | 0.8 | 1.8 | 12.1 | 10.2 | 158 |
| 3x2.5 | re | 0.8 | 1.8 | 7.41 | 11.1 | 203 |
| 3x4 | re | 1.0 | 1.8 | 4.61 | 13.0 | 283 |
| 3x6 | re | 1.0 | 1.8 | 3.08 | 14.3 | 369 |
| 3x10 | re | 1.0 | 1.8 | 1.83 | 16.0 | 538 |
| 3x16 | re | 1.0 | 1.8 | 1.15 | 20.0 | 830 |
| 3x25 | rm | 1.2 | 1.8 | 0.727 | 23.6 | 1231 |
| 3x25+16 | rm/re | 1.2;1.0 | 1.8 | 0.727;1.15 | 25.0 | 1418 |
| 3x35 | rm | 1.2 | 1.8 | 0.524 | 26.2 | 1600 |
| 3x35+16 | sm/re | 1.2;1.0 | 1.8 | 0.524;1.15 | 27.1 | 1765 |



Cablu de energie cu izolatie si manta de PVC

PVC – insulated and sheathed power cable

| Tipodimensiune cablu | Tip conductor | Grosime radiala izolatie | Grosime radiala manta | Rezistenta electrica max, la 20°C | Diametru exterior inf | Masa inf |
|----------------------|--------------------------|---|---------------------------------------|-----------------------------------|---------------------------|-----------------|
| <i>Cable size</i> | <i>Type of conductor</i> | <i>Radial thickness of the insulation</i> | <i>Radial thickness of the sheath</i> | <i>Max.resistance at 20°C</i> | <i>Outer diameter inf</i> | <i>Mass inf</i> |
| | | mm | mm | Ω/km | mm | kg/km |
| 3x35+25 | sm/rm | 1.2;1.2 | 1.9 | 0.524;0.727 | 27.1 | 1921 |
| 3x50 | sm | 1.4 | 1.8 | 0.387 | 25.0 | 1842 |
| 3x50+25 | sm/rm | 1.4/1.2 | 1.9 | 0.387;0.727 | 28 | 2200 |
| 3x50+35 | sm/rm | 1.4/1.2 | 1.9 | 0.387;0.524 | 29.0 | 2323 |
| 3x70 | sm | 1.4 | 1.9 | 0.268 | 28.0 | 2540 |
| 3x70+35 | sm/rm | 1.4/1.2 | 2.0 | 0.268;0.524 | 31.1 | 3008 |
| 3x70+50 | sm/sm | 1.4/1.4 | 2.0 | 0.268;0.387 | 35.0 | 3271 |
| 3x95 | sm | 1.6 | 2.1 | 0.193 | 30.0 | 3295 |
| 3x95+50 | sm/sm | 1.6/1.4 | 2.2 | 0.193;0.387 | 36.1 | 3850 |
| 3x95+70 | sm/sm | 1.6/1.4 | 2.2 | 0.193;0.268 | 41.0 | 4059 |
| 3x120 | sm | 1.6 | 2.0 | 0.153 | 33.0 | 4020 |
| 3x120+70 | sm/sm | 1.6/1.4 | 2.3 | 0.153;0.268 | 45.0 | 4881 |
| 3x120+95 | sm/sm | 1.6/1.6 | 2.3 | 0.153;0.193 | 45.0 | 5100 |
| 3x150 | sm | 1.8 | 2.2 | 0.124 | 36.9 | 5013 |
| 3x150+70 | sm/sm | 1.8/1.4 | 2.4 | 0.124;0.268 | 49.0 | 5732 |
| 3x185 | sm | 2.0 | 2.3 | 0.0991 | 40.9 | 6120 |
| 3x185+95 | sm/sm | 2.0/1.6 | 2.6 | 0.0991;0.193 | 53.0 | 7390 |
| 3x240 | sm | 2.2 | 2.5 | 0.0754 | 47.5 | 8113 |
| 3x240+120 | sm/sm | 2.2/1.6 | 2.8 | 0.0754;0.153 | 60.0 | 9420 |
| 4x1.5 | re | 0.8 | 1.8 | 12.1 | 11.0 | 188 |
| 4x2.5 | re | 0.8 | 1.8 | 7.41 | 12.0 | 245 |
| 4x4 | re | 1.0 | 1.8 | 4.61 | 14.1 | 347 |
| 4x6 | re | 1.0 | 1.8 | 3.08 | 15.5 | 456 |
| 4x10 | re | 1.0 | 1.8 | 1.83 | 17.5 | 671 |
| 4x16 | re | 1.0 | 1.8 | 1.15 | 21.9 | 1038 |
| 4x25 | rm | 1.2 | 1.8 | 0.727 | 26.0 | 1551 |
| 4x25+16 | rm; re | 1.2; 1.0 | 1.8 | 0.727; 1.15 | 26.2 | 2045 |
| 4x25+16 | rm; rm | 1.2; 1.0 | 1.8 | 0.727; 1.15 | 26.2 | 2045 |
| 4x35 | sm | 1.2 | 1.8 | 0.524 | 29.3 | 1841 |
| 4x35+16 | rm; re | 1.2; 1.0 | 1.8 | 0.524; 1.15 | 29.1 | 1697 |
| 4x35+16 | rm; rm | 1.2; 1.0 | 1.8 | 0.524; 1.15 | 29.1 | 1697 |
| 4x50 | sm | 1.4 | 1.9 | 0.387 | 29.0 | 2390 |
| 4x50+25 | rm; rm | 1.4; 1.2 | 2.0 | 0.387; 0.727 | 33.6 | 2860 |
| 4x70 | sm | 1.4 | 2.0 | 0.268 | 33.2 | 3330 |
| 4x70+35 | rm; rm | 1.4; 1.2 | 2.1 | 0.268; 0.524 | 38.4 | 3896 |
| 4x95 | sm | 1.6 | 2.1 | 0.193 | 36.0 | 4372 |



Cablu de energie cu izolatie si manta de PVC

PVC – insulated and sheathed power cable

| Tipdimensiune cablu | Tip conductor | Grosime radiala izolatie | Grosime radiala manta | Rezistenta electrica max, la 20°C | Diametru exterior inf | Masa inf |
|------------------------|------------------------------|---|---|--|-------------------------------|---------------------|
| <i>Cable size</i> | <i>Type of conductor</i> | <i>Radial thickness of the insulation</i> | <i>Radial thickness of the sheath</i> | <i>Max.resistance at 20°C</i> | <i>Outer diameter inf</i> | <i>Mass inf</i> |
| | | mm | mm | Ω/km | mm | kg/km |
| 4x95+50 | rm; rm | 1.6; 1.4 | 2.3 | 0.193; 0.387 | 44.4 | 5318 |
| 4x120 | sm | 1.6 | 2.3 | 0.153 | 40.0 | 5766 |
| 4x120+70 | rm; rm | 1.6; 1.4 | 2.5 | 0.153; 0.268 | 48.7 | 6602 |
| 4x150 | sm | 1.8 | 2.4 | 0.124 | 43.0 | 6612 |
| 4x150+70 | rm; rm | 1.6; 1.4 | 2.5 | 0.124; 0.268 | 53.9 | 7850 |
| 4x185 | sm | 2.0 | 2.5 | 0.0991 | 48.2 | 8250 |
| 4x185+95 | rm; rm | 2.0; 1.6 | 2.8 | 0.0991; 0.193 | 62.6 | 10114 |
| 4x240 | sm | 2.2 | 2.7 | 0.0754 | 54.2 | 10400 |
| 5x1.5 | re | 0.8 | 1.8 | 12.1 | 11.8 | 223 |
| 5x2.5 | re | 0.8 | 1.8 | 7.41 | 12.9 | 293 |
| 5x4 | re | 1.0 | 1.8 | 4.61 | 15.3 | 417 |
| 5x6 | re | 1.0 | 1.8 | 3.08 | 16.9 | 551 |
| 5x10 | re | 1.0 | 1.8 | 1.83 | 19.0 | 815 |
| 5x16 | re | 1.0 | 1.8 | 1.15 | 23.9 | 1267 |
| 5x25 | rm | 1.2 | 1.9 | 0.727 | 28.7 | 1914 |
| 5x35 | rm | 1.2 | 2.0 | 0.524 | 32.5 | 2454 |
| 5x50 | rm | 1.4 | 2.1 | 0.387 | 33.7 | 3128 |
| 5x70 | rm | 1.4 | 2.2 | 0.268 | 38.3 | 4263 |
| 5x95 | rm | 1.6 | 2.4 | 0.193 | 44.4 | 5818 |
| 7x1.5 | re | 0.8 | 1.8 | 12.1 | 12.7 | 260 |
| 7x2.5 | re | 0.8 | 1.8 | 7.41 | 13.9 | 360 |
| 8x1.5 | re | 0.8 | 1.8 | 12.1 | 14.9 | 295 |
| 9x1.5 | re | 0.8 | 1.8 | 12.1 | 15.5 | 314 |
| 9x2.5 | re | 0.8 | 1.8 | 7.41 | 17.0 | 422 |
| 10x1.5 | re | 0.8 | 1.8 | 12.1 | 16.1 | 341 |
| 10x2.5 | re | 0.8 | 1.8 | 7.41 | 17.7 | 460 |
| 12x1.5 | re | 0.8 | 1.8 | 12.1 | 16.6 | 388 |
| 12x2.5 | re | 0.8 | 1.8 | 7.41 | 18.3 | 529 |
| 14x1.5 | re | 0.8 | 1.8 | 12.1 | 17.3 | 438 |
| 14x2.5 | re | 0.8 | 1.8 | 7.41 | 19.1 | 600 |
| 16x1.5 | re | 0.8 | 1.8 | 12.1 | 18.2 | 488 |
| 16x2.5 | re | 0.8 | 1.8 | 7.41 | 20.1 | 700 |
| 19x1.5 | re | 0.8 | 1.8 | 12.1 | 19.1 | 560 |
| 19x2.5 | re | 0.8 | 1.8 | 7.41 | 21.1 | 777 |