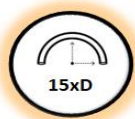
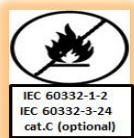
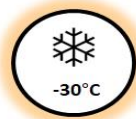


# AC2XY(-F) – sisteme fotovoltaice



## Cablu de energie din aluminiu cu izolatie de polietilena reticulata si manta de PVC

## Power cable with XLPE insulation and PVC sheath



**Standard de referinta:** SR CEI 60502-1;  
**Tensiune nominala  $U_0/U(U_m)$ :** 0.6/1(1.2) kV; 1,5 kV c.c  
**Tensiunea de incercare:** 4 kV, 50 Hz, timp de 5 minute.

### Domeniul de utilizare

Cablurile sunt utilizate pentru transportul energiei electrice la statiile de putere, precum si in cadrul sistemelor fotovoltaice

Cablurile pot fi pozate in spatii inchise si deschise, in pamant, in canale, in beton.

**Temperatura cond. in functionarea de durata:** +90°C  
**Temperatura max. a cond in scurtcircuit:** +250°C  
**Temperatura minima a cablului (masurata pe manta):**

- la montaj: -5°C
- in exploatare: -30°C

\* Cablurile sunt cu rezistenta la UV

### Conductor de aluminiu

Conductor unifilar (re), multifilar (rm), sector multifilar (sm), conf. SR EN 60228

### Izolatie

Polietilena reticulata (XLPE), conf. SR CEI 60502-1

### Manta

PVC, tip DMV6

Cablurile AC2XY, sunt cu intarziere la propagarea flacarii; incercare conf. SR EN 60332-1-2

Iar AC2XY-F sunt cu intarziere marita la propagarea flacarii, incercare conf. SR EN 60332-3-24/ cat.C

### Marcaj pe manta

SC ELECTROPLAST SA, simbol cablu, tensiune de lucru, an de fabricatie, marcare lungime.

### Raza minima de curbura la instalare

15 x diametrul cablului- cablu monofilar

12 x diametrul cablului- cablu multifilar

### Forta maxima de tractiune la pozare

30 N/mm<sup>2</sup>

### Cod de culori

- 1 conductor: negru sau galben-verde
- 3 conductoare: maro, negru, gri

**Reference standard:** ST167;

**Rated voltage  $U_0/U(U_m)$ :** 0.6/1(1.2) kV; 1,5 kV D.C

**Test voltage:** 4 kV, 50 Hz, for 5 minutes.

### Applications

Power supply to power stations and in the photovoltaic systems.

The cables can be installed in open or confined areas, underground, in sewers, in concrete.

**Conductor temperature in long-run operation:** +90°C

**Conductor max. temperature during short-circuit:** +250°C

**Min. cable temperature (measured on sheath surface) :**

- during installation: -5°C
- in operation: -30°C

\* UV resistant cables

### Aluminum conductor

Solid conductor (re), concentrically stranded conductor (rm), sector-shaped (sm), according to SR EN 60228

### Insulation

Crosslinked polyethylene (XLPE), acc. to SR CEI 60502-1

### Sheath

PVC, DMV6 type.

AC2XY are flame retardant; test according to SR EN 60332-1-2

AC2XY-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

15 x cable diameter – single-core cable

12 x cable diameter – multi-core cable

### Max. tensile strain at installation

30 N/mm<sup>2</sup>

### Color coding

- 1 conductor: black or yellow-green
- 3 conductors: brown, black, grey

## AC2XY(-F) – sisteme fotovoltaice



**Cablu de energie din aluminiu cu izolatie de polietilena reticulata si manta de PVC**

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Tipodimensiune cablu <i>Cable size</i>	Tip conductor <i>Cond. type</i>	Grosime radiala izolatie <i>Radial insulation thickness</i>	Grosime radiala Manta <i>Radial sheath thickness</i>	Diametru exterior <i>Outer diameter</i>	Rezistenta electrica, max la 20°C <i>Max. Resistance at 20°C</i>	Masa inf <i>Mass inf</i>
		mm	mm	mm	Ω/km	kg/km
1x35	rm	0.9	1.4	11.6	0.868	190
1x50	rm	1.0	1.4	12.8	0.641	237
1x70	rm	1.1	1.4	14.7	0.443	320
1x95	rm	1.1	1.5	16.6	0.32	421
1x120	rm	1.2	1.5	18.4	0.253	520
1x150	rm	1.4	1.6	20.2	0.206	639
1x185	rm	1.6	1.6	22.5	0.164	783
1x240	rm	1.7	1.7	25.1	0.125	985
1x300	rm	1.8	1.8	27.6	0.100	1189
3x50	sm	1.0	1.8	23.9	0.641	680
3x70	sm	1.1	1.9	25.3	0.443	964
3x95	sm	1.1	2.1	28.5	0.32	1240
3x120	sm	1.2	2.1	31.5	0.253	1537
3x150	sm	1.4	2.3	35.3	0.206	2050
3x185	sm	1.6	2.4	39.1	0.164	2300
3x240	sm	1.7	2.4	43.9	0.125	3000