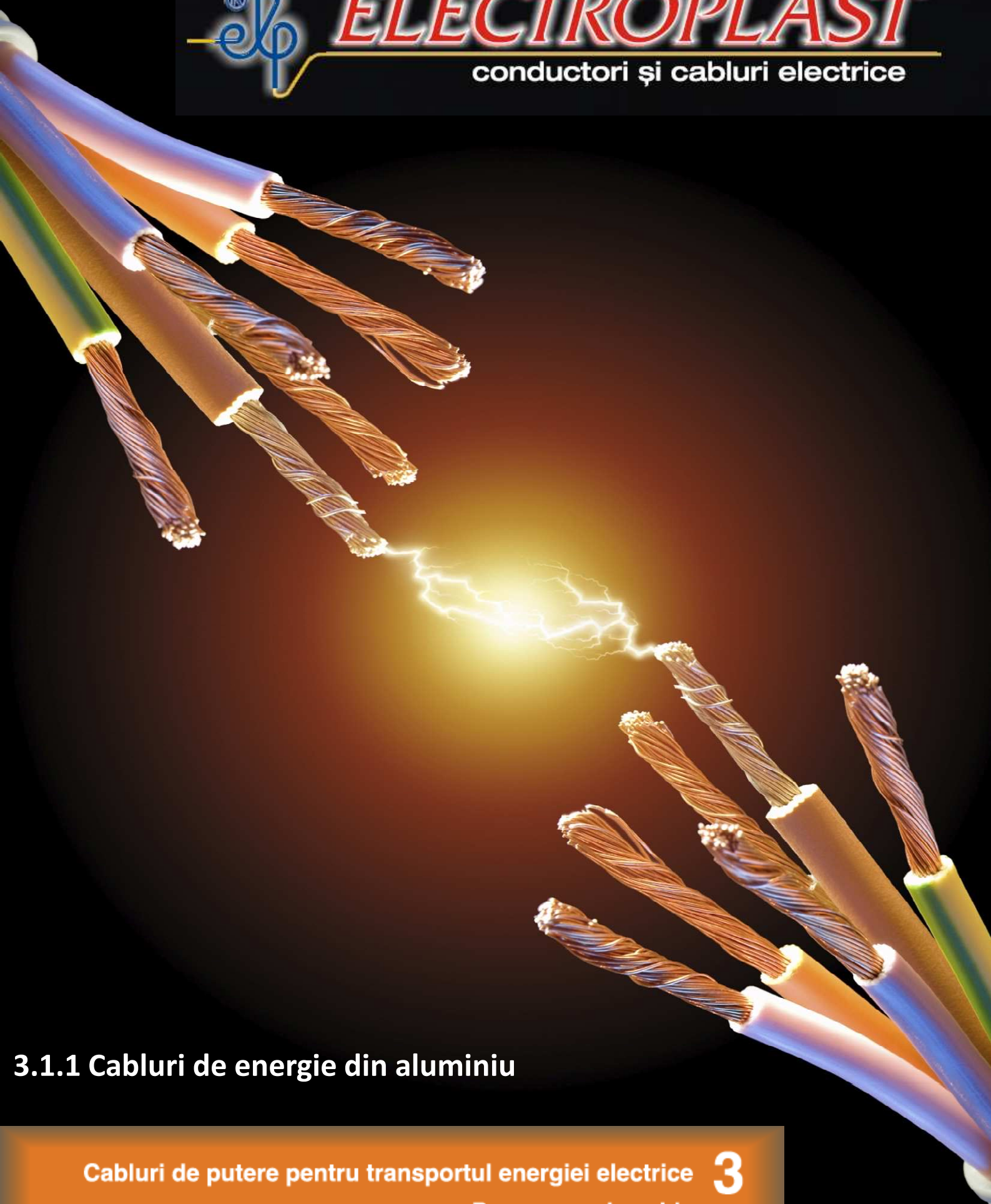




ELECTROPLAST

conductori și cabluri electrice



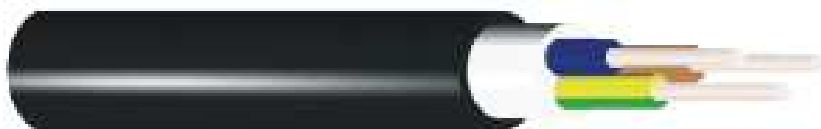
3.1.1 Cabluri de energie din aluminiu

Cabluri de putere pentru transportul energiei electrice

Power supply cable

3

www.chorus.ro



Cablu de energie din aluminiu cu izolatie si manta de PVC;

Standard de fabricatie: SR HD 603 S1/3G-2; IEC 502

Tensiune nominala U_0/U : 0.6/1 kV

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

Temperatura minima de instalare pe cablu: -5°C

Temperatura maxima de lucru : 70°C

Temperatura maxima de scurt-circuit : 160°C

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 apa

Conductor de aluminiu

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

Izolatia

PVC tip DIV 4

Manta

PVC tip DMV5 negru sau gri

Aceste cabluri sunt cu intarziere sau intarziere marita la propagarea flacarii ;incercare conf SR EN 332-1-2 sau SR EN 50266-4-2 /cat 3

Marcaj pe manta

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

Raza minima de curbura la instalare

15xdiimetrul cablului-cablu monofilar

12xdiimetrul cablului-cablu multifilar

Forta maxima de tractiune la pozare

50 N/mm²

Cod de culori

1 conductor - albastru, sau g/v

2 conductoare-albastru,maro

-g/v,negru, pt sect >10mm²

3 conductoare-marou,negru,gri

-g/v,albastru,maro

4 conductoare-albastru,maro,negru,gri

-g/v,maro,negru,gri

5 conductoare-albastru,maro,negru,,gri,negru

-g/v,albastru,maro,negru,gri

Mai mult de 5 conductoare-

-conductoare negre numerotate

-v/g,conductoare numerotate

PVC – insulated and sheathed power cable

Standard: SR HD 603 S1/3G-2; IEC 502

Rated voltage U_0/U : 0.6/1 kV

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

The minim temperature of de cable during installation : -5°C

Max.permissible operating temperature : 70°C

Max. short-circuit temperature : 160°C

Applicability :

Power supply to power stations.

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

Aluminum conductor

Monowire (ru), multiwire (rm) according to SR EN 60228

Insulation

PVC type DIV 4

Sheath

PVC type DMV5 black or gray

The cables are flame retardant or extra flame retardant ; test according to SR EN 332-1-2 or SR EN 50266-4-2 / Category C.

Sheath marking

SC ELECTROPLAST SA , cable symbol , operational voltage, year of manufacture.

Min. bending radius at installation :

15 x cable diameter – single-core cable

12 x cable diameter – multicore cable

Max. tensile strain during installation :

Max 50 N/mm²

Color coding :

1 conductor-blue 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

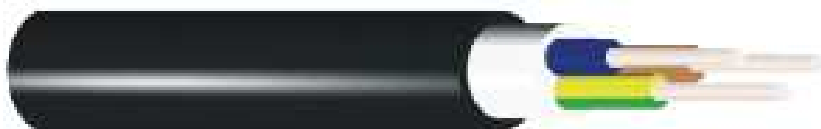
5 conductors- blue, brown, black, grey, black

-yellow-green, blue, brown, black,grey

More than 5 conductors-

-numbered black conductors

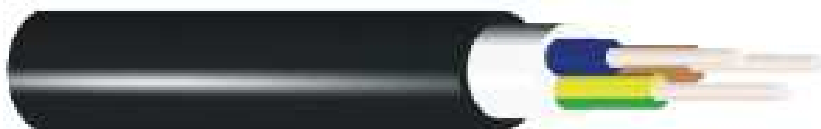
-yellow-green and numbered conductors



Cablu de energie din aluminiu cu
izolatie si manta de PVC;

PVC – insulated and sheathed power cable

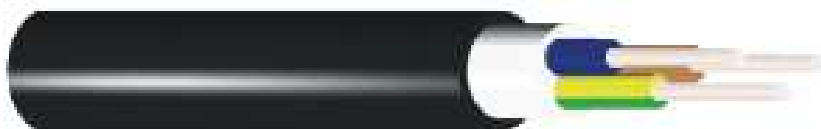
Tipo di- mensiune cablu <i>Cable size</i>	Tip conductor <i>Type of conductor</i>	Grosime radiala izolatie <i>Radial thickness of insulation</i> mm	Grosime radiala manta <i>Radial thickness of sheath</i> mm	Diametru exterior inf <i>Auter diameter inf</i> mm	Masa inf <i>Mass inf</i> kg/km
1x4	re	1.0	1.4	7.9	66
1x6	re	1.0	1.4	8.4	78
1x10	re	1.0	1.4	9.2	98
1x16	re	1.0	1.4	10.9	126
1x25	re	1.2	1.4	12.6	188
1x35	re	1.2	1.4	13.8	230
1x50	rm	1.4	1.4	15.6	297
1x70	rm	1.4	1.5	17.3	388
1x95	rm	1.6	1.6	19.7	518
1x120	rm	1.6	1.6	21.0	605
1x150	rm	1.8	1.7	23.1	743
1x185	rm	2.0	1.7	25.5	922
1x240	rm	2.2	1.9	30.2	1176
1x300	rm	2.4	2.0	31.3	1431
2x4	re	1.0	1.8	12.3	207
2x6	re	1.0	1.8	13.5	255
2x10	re	1.0	1.8	15.1	326
2x16	re	1.0	1.8	18.8	430
2x25	re	1.2	1.8	22.2	678
2x35	re	1.2	1.8	24.6	841
3x4	re	1.0	1.8	13.0	233
3x6	re	1.0	1.8	14.3	287
3x10	re	1.0	1.8	16.0	371
3x16	re	1.0	1.8	20.0	471
3x25	re	1.2	1.8	23.6	773
3x25+16	re/re	1.2;1.0	1.8	25.0	840
3x35	re	1.2	1.8	26.2	961
3x35+16	re/re	1.2;1.0	1.8	27.1	978
3x50	sm	1.4	1.8	25.0	814
3x50+25	sm/rm	1.4/1.2	1.9	29.0	1025
3x70	sm	1.4	1.9	28.0	1170
3x70+35	sm/rm	1.4/1.2	2.0	35.0	1354
3x95	sm	1.6	2.1	30.0	1530
3x95+50	sm/sm	1.6/1.4	2.2	41.0	1844
3x120	sm	1.6	2.0	33.0	1879
3x120+70	sm/sm	1.6/1.4	2.3	45.0	2187
3x150	sm	1.8	2.2	36.9	2327
3x150+70	sm/sm	1.8/1.4	2.4	49.0	2648
3x185	sm	2.0	2.3	40.9	2892



Cablu de energie din aluminiu cu
izolatie si manta de PVC;

PVC – insulated and sheathed power cable

Tipo di- mensiune cablu <i>Cable size</i>	Tip conductor <i>Type of conductor</i>	Grosime radiala izolatie <i>Radial thickness of insulation</i> mm	Grosime radiala manta <i>Radial thickness of sheath</i> mm	Diametru exterior inf <i>Auter diameter inf</i> mm	Masa inf <i>Mass inf</i> kg/km
3x185+95	sm/sm	2.0/1.6	2.6	53.0	3343
3x240	sm	2.2	2.5	47.5	4380
3x240+120	sm/sm	2.2/1.6	2.8	60.0	4258
4x4	re	1.0	1.8	14.1	276
4x6	re	1.0	1.8	15.5	342
4x10	re	1.0	1.8	17.5	445
4x16	re	1.0	1.8	21.9	595
4x25	rm	1.2	1.8	26.0	939
4x35	rm	1.2	1.8	29.3	1205
4x50	sm	1.4	1.9	29.0	1137
4x70	sm	1.4	2.0	33.2	1478
4x95	sm	1.6	2.1	36.0	2037
4x120	sm	1.6	2.3	40.0	2422
4x150	sm	1.8	2.4	43.0	2979
4x185	sm	2.0	2.5	48.2	3500
4x240	sm	2.2	2.7	54.2	4590
5x4	re	1.0	1.8	15.3	339
5x6	re	1.0	1.8	16.9	406
5x10	re	1.0	1.8	19.0	523
5x16	re	1.0	1.8	23.9	713
5x25	re	1.2	1.9	28.7	1148
5x35	re	1.2	2.0	32.5	1488



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

Power cable with XLPE insulation and PVC sheath

Standard de fabricatie: SR HD 603 S1 ; IEC 502-1 ;
Tensiune nominala $U_o/U(U_m)$: 0.6/1(1.2) kV

Standard: SR HD 603 S1; IEC 502-1;
Rated voltage $U_o/U(U_m)$: 0.6/1(1.2) 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 apa
 Temperatura conductorului de cupru in functionarea de durata:90°C
 Temperatura maxima a conductorului in scurt-circuit (max 5 s):250°C
 Temperatura minima a cablului (masurata pe manta)
 -la montaj -5°C
 -in exploatare -40°C

Conductor

Conductor aluminiu conf SR EN 60228

Izolatie

XLPE- polietilena reticulabila DIX 3

Manta de PVC ,neagra

PVC tip DMV6 negru gri

Tensiunea de incercare

4 kV,50 Hz ,timp de 5 minute.

Marcaj pe manta

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

Raza minima de curbura la instalare

15xdiametrul cablului-cablu monofilar

12xdiametrul cablului-cablu multifilar

Forta maxima de tractiune la pozare

30 N/mm²

Cod de culori

- 1 conductor - albastru, 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
- galben-verde,conductoare numerotate

Applications :

Power supply to power stations
 The cables can be installed in open or confined areas, under ground, in sewers, in concrete , under water.
 Conductor temperature in long-run operation: 90°C

Max. conductor temperature in short-circuit (max 5 s): 250°C
 Minimum cable temperature (masured on the sheath surface)
 -during installation -5°C
 -in operation -40°C

Conductor

Aluminum conductor according to SR EN 60228

Insulation

XLPE- cross-linkable polyetilene DIX 3

Sheath

PVC type DMV6 black or gray

Test voltage

4 kV, 50 Hz, for 5 minute.

Sheath marking

SC ELECTROPLAST SA, cable symbol , operational voltage, year of manufacture.

Min. bending radius at installation :

15 x cable diameter – single-core cable

12 x cable diameter – multi-core cable

Max. tensile strain at installation :

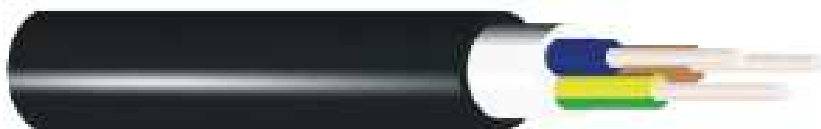
30 N/mm²

Color coding :

- 1 conductor-blue 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-

- black numbered conductors
- yellow-green numbered conductors



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

**Power cable with XLPE insulation and PVC
sheath**

Tipodi- mensiune cablu <i>Cable size</i>	Tip conduc- tor <i>Cond. type</i>	Grosime radiala izolatie <i>Radial insulation thickness mm</i>	Grosime radiala Manta <i>Radial sheath thickness mm</i>	Diametru exterior <i>Outer diameter mm</i>	Rezistenta electrica, max la 20°C <i>Max. Resistance at 20°C Ω/km</i>	Masa inf <i>Mass inf kg/km</i>
1x10	re	0.7	1.4	7.8	3.08	83
1x16	re	0.7	1.4	9.2	1.91	113
1x25	rm	0.9	1.4	10.6	1.2	152
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
2x2.5	re	0.7	1.8	9.9	11.52	131
2x4	re	0.7	1.8	11.1	7.04	169
2x6	re	0.7	1.8	12.3	4.68	214
2x10	re	0.7	1.8	13.9	3.08	274
2x16	re	0.7	1.8	16.8	1.91	392
2x25	rm	0.9	1.8	19.6	1.2	539
2x35	rm	0.9	1.8	21.6	0.868	673
3x2.5	re	0.7	1.8	10.4	11.52	143
3x4	re	0.7	1.8	11.7	7.04	186
3x6	re	0.7	1.8	13.0	4.68	237
3x10	re	0.7	1.8	14.7	3.08	308
3x16	re	0.7	1.8	17.8	1.91	440
3x25	rm	0.9	1.8	20.8	1.2	608
3x25+16	rm;re	0.9;0.7	1.8	22.0	1.2;1.91	647
3x35	rm	0.9	1.8	23.0	0.868	766
3x35+16	rm; re	0.9;0.7	1.8	23.8	0.868;1.91	779
3x50	sm	1.0	1.8	23.9	0.641	680
3x50+25	sm;rm	1.0;0.9	1.9	24.1	0.641;1.2	785
3x70	sm	1.1	1.9	25.3	0.443	964
3x70+35	sm;rm	1.1;0.9	2.0	27.4	0.443;0.868	1104
3x95	sm	1.1	2.1	28.5	0.32	1240
3x95+50	sm;sm	1.1;1.0	2.2	30.6	0.32;0.641	1440
3x120	sm	1.2	2.1	31.5	0.253	1537
3x120+70	sm;sm	1.2;1.1	2.3	34.3	0.253;0.443	2100
3x150	sm	1.4	2.3	35.3	0.206	2050
3x150+70	sm;sm	1.4;1.1	2.4	42.8	0.206;0.443	2320
3x185	sm	1.6	2.4	39.1	0.164	2300
3x185+95	sm;sm	1.6;1.1	2.6	47.0	0.164;0.32	2850

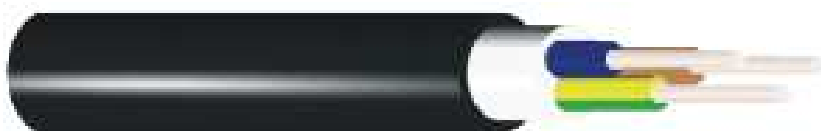


ELECTROPLAST

conductorii și cabluri electrice

AC2XY(-F)

NA2XY



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

Power cable with XLPE insulation and PVC
sheath

Tipodi- mensiune cablu <i>Cable size</i>	Tip conduc- tor <i>Cond. type</i>	Grosime radiala izolatie <i>Radial insulation thickness mm</i>	Grosime radiala Manta <i>Radial sheath thickness mm</i>	Diametru exterior <i>Outer diameter mm</i>	Rezistenta electrica, max la 20°C <i>Max. Resistance at 20°C Ω/km</i>	Masa inf <i>Mass inf kg/km</i>
3x240+120	sm	1.7;1.2	2.7	53.3	0.125;0.253	3520
3x240	sm	1.7	2.4	43.9	0.125	3000
4x2.5	re	0.7	1.8	11.3	11.52	167
4x4	re	0.7	1.8	12.6	7.04	217
4x6	re	0.7	1.8	14.1	4.68	279
4x10	re	0.7	1.8	16.0	3.08	366
4x16	re	0.7	1.8	19.5	1.91	526
4x25	rm	0.9	1.8	22.9	1.2	732
4x35	rm	0.9	1.8	25.3	0.868	930
4x50	sm	1.0	1.9	24.5	0.641	1020
4x70	sm	1.1	2.0	28.4	0.443	1270
4x95	sm	1.1	2.2	29.9	0.32	1584
4x120	sm	1.2	2.3	35.7	0.253	2250
4x150	sm	1.4	2.5	39.6	0.206	2494
4x185	sm	1.6	2.6	43.9	0.164	3046
4x240	sm	1.7	2.7	49.5	0.125	3956
5x2.5	re	0.7	1.8	12.2	11.52	197
5x4	re	0.7	1.8	13.7	7.04	267
5x6	re	0.7	1.8	15.2	4.68	344
5x10	re	0.7	1.8	17.4	3.08	457
5x16	re	0.7	1.8	21.3	1.91	641
5x25	rm	0.9	1.8	25.1	1.2	894

ACYAbY(-F), ACYAbzY(-F)

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

Steel tape armoured power cable

Tipodi- mensiune cablu Cable size	Tip conduc- tor Type of conduc-tor	Grosime radiala izolatie, Radial thickness of insula-tion mm	Grosime radiala manta interna minima 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. resistanceat 20°C Ω/km	Diametru exterior inf Outer diameter Inf mm	Masa Inf Mass, inf kg/km
1x50	rm	1.4	1.2	1.8/1.24	0.641	17.7	496
1x70	rm	1.4	1.2	1.8/1.24	0.443	19.5	604
1x95	rm	1.6	1.2	1.8/1.24	0.320	21.8	753
1x120	rm	1.6	1.2	1.8/1.24	0.253	23.3	858
1x150	rm	1.8	1.2	1.8/1.24	0.206	25.3	1007
1x185	rm	2.0	1.2	1.8/1.24	0.164	27.6	1215
1x240	rm	2.2	1.2	1.8/1.24	0.125	30.5	1484
1x300	rm	2.4	1.2	1.8/1.24	0.100	33.5	1789
2x4	re	1.0	1.2	1.8/1.24	7.305	14.7	347
2x6	re	1.0	1.2	1.8/1.24	4.895	15.9	408
2x10	re	1.0	1.2	1.8/1.24	3.08	18.4	538
2x16	re	1.0	1.2	1.8/1.24	1.91	21.2	686
2x25	re	1.2	1.2	1.8/1.24	1.200	24.2	925
3x4	re	1.0	1.2	1.8/1.24	7.305	15.4	379
3x6	re	1.0	1.2	1.8/1.24	4.895	16.7	437
3x10	re	1.0	1.2	1.8/1.24	3.08	19.4	593
3x16	re	1.0	1.2	1.8/1.24	1.91	21.9	760
3x25	re	1.2	1.2	1.8/1.24	1.20	25.6	1033
3x25+16	re/re	1.2;1.0	1.2	1.8/1.24	1.2;1.91	26.9	1134
3x35	re	1.2	1.2	1.8/1.24	0.868	28.2	1278
3x35+16	re/re	1.2;1.0	1.2	1.8/1.24	0.868;1.91	29.2	1339
3x50	sm	1.4	1.2	1.9/1.32	0.641	28.4	1551
3x50+25	sm/rm	1.4;1.2	1.2	2.0/1.4	0.641;1.200	31.8	1772
3x70	sm	1.4	1.2	2.0/1.4	0.443	31.8	1905
3x70+35	sm/rm	1.4;1.2	1.2	2.1/1.48	0.443;0.868	37.0	2052
3x95	sm	1.6	1.2	2.1/1.48	0.32	35.4	2322
3x95+50	sm/sm	1.6;1.4	1.2	2.4/1.72	0.32;0.641	40.2	2655
3x120	sm	1.6	1.3	2.2/1.56	0.253	38.0	2696
3x120+70	sm/sm	1.6;1.4	1.3	2.4/1.72	0.253;0.443	43.6	3056
3x150	sm	1.8	1.3	2.3/1.64	0.206	42.2	3215
3x150+70	sm/sm	1.8;1.4	1.4	2.5/1.8	0.206;0.443	48.0	3665
3x185	sm	2.0	1.4	2.4/1.72	0.164	45.6	3908

ACYAbY(-F), ACYAbzY(-F)

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

Steel tape armoured power cable

Tipodi- mensiune cablu Cable size	Tip conduc- tor Type of conduc-tor	Grosime radiala izolatie, Radial thickness of insula-tion mm	Grosime radiala manta interna minima 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. resistanceat 20°C Ω/km	Diametru exterior inf Outer diameter Inf mm	Masa Inf Mass, inf kg/km
3x185+95	sm/sm	2.0;1.6	1.5	2.7	0.164;0.320	53.6	4650
3x240	sm	2.2	1.5	2.6	0.125	52.4	4800
3x240+120	sm/sm	2.2;1.6	1.6	2.9	0.125;0.253	59.8	5600
4x4	re	1.0	0.76	1.8/1.24	7.305	16.5	435
4x6	re	1.0	0.76	1.8/1.24	4.895	17.9	517
4x10	re	1.0	0.76	1.8/1.24	3.08	20.9	691
4x16	re	1.0	0.76	1.8/1.24	1.91	23.8	891
4x25	re	1.2	0.76	1.8/1.24	1.200	28.1	1236
4x35	re	1.2	0.76	1.8/1.24	0.868	31.2	1556
4x50	sm	1.4	0.76	2.0/1.4	0.641	31.8	1865
4x70	sm	1.4	0.76	2.2/1.56	0.443	37.0	2221
4x95	sm	1.6	0.84	2.4/1.72	0.320	39.5	2905
4x120	sm	1.6	0.92	2.5/1.8	0.253	43.8	3388
4x150	sm	1.8	1.0	2.5/1.8	0.206	43.8	4015
4x185	sm	2.0	1.5	2.5/1.8	0.164	53.6	4950
4x240	sm	2.2	1.6	2.7/1.96	0.125	59.8	6140
5x4	re	1.0	0.76	1.8/1.24	7.305	17.7	507
5x6	re	1.0	0.76	1.8/1.24	4.895	19.3	607
5x10	re	1.0	0.76	1.8/1.24	3.08	22.6	803
5x16	re	1.0	0.76	1.8/1.24	1.91	25.8	1043
5x25	re	1.2	0.76	1.8/1.24	1.200	31.3	1473
5x35	re	1.2	0.76	1.8/1.24	0.868	34.2	1856

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

Standard de fabricatie: SR HD 603 S1/A2 ; IEC 502 -2;

Tensiune nominala U_o/U(U_m) : 0.6/1(1.2) 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 apa

Temperatura conductorului de cupru in functionarea de durata:90°C

Temperatura maxima a conductorului in scurt-circuit(max 5 s):250°C

Temperatura minima a cablului (masurata pe manta)

-la montaj -5°C

-in exploatare -40°C

Conductor

Conductor de Aluminiu conf SR EN 60228

Izolatie

XLPE- polietilena reticulabila DIX3

Manta interioara

PVC tip sau MF pentru cablurile cu rezistenta marita la propagarea flacarii de culoare neagra sau gri.

Armatura

Banda laminata la rece nezincata sau zincata de grosime minima 0.2-0.5 mm.

Manta exterioara de PVC

PVC tip DMV6 negru sau gri

Tensiunea de incercare

4 kV,50 Hz ,timp de 5 minute.

Marcaj pe manta

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

Raza minima de curbura la instalare

12xdiametrul cablului

Forta maxima de tractiune la pozare

50 N/mm²

Cod de culori

1 conductor - albastru, 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

- galben-verde,conductoare numerotate

Power cable with XLPE insulation and PVC sheath

Standard: SR HD 603 S1/A2; IEC 502-1;

Rated voltage U_o/U(U_m) : 0.6/1(1.2) kV

Applications :

Power supply to power stations

The cables can be installed in open or confined areas, under ground, in sewers, in concrete , under water.

Conductor temperature in long-run operation: 90°C

Max. conductor temperature in short-circuit (max 5 s): 250°C

Minimum cable temperature (masured on the sheath surface)

-during installation -5°C

-in operation -40°C

Conductor

Aluminum conductor according to SR EN 60228

Insulation

XLPE- cross-linkable polyethylene DIX3

Inner sheath

PVC type YM1 or MF for extra flame retardant cables, black or gray

Aarmor

Blank or zinc-plated cold-rolled tape, min. thickness 0.2-0.5 mm.

Sheath

PVC type DMV6 black or grey

Test voltage

4 kV, 50 Hz, for 5 minute.

Sheath marking

SC ELECTROPLAST SA, cable symbol , operational voltage, year of manufacture.

Min. bending radius at installation :

12 x cable diameter

Max. tensile strain at installation :

50 N/mm²

Color coding :

1 conductor-blue 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-

-black numbered conductors

-yellow-green numbered conductors

AC2XAb(z)Y(-F)

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

**Power cable with XLPE insulation and PVC
sheath**

Tipodi- mensiune cablu Cable size	Tip conduc-tor Cond. type	Nr de fire din conductor No. of wires / conductor	Grosime radiala izolatie Radial insulation thickness mm	Grosime radiala manta Radial sheath thickness mm		Diametru exterior nominal Nominal outer diameter mm	Masa inf Mass inf kg/km
				Int inner	Ext ext		
2x1.5	re	1	0.7	1.2	1.8	12.8	252
2x2.5	re	1	0.7	1.2	1.8	13.6	270
2x4	re	1	0.7	1.2	1.8	14.7	336
2x6	re	1	0.7	1.2	1.8	15.7	386
2x10	re	7	0.7	1.2	1.8	18.6	507
2x16	re	7	0.7	1.2	1.8	20.8	638
2x25	re	7	0.9	1.2	1.8	24.2	847
2x35	re	7	0.9	1.2	1.8	26.6	1042
3x1.5	re	1	0.7	1.2	1.8	13.2	268
3x2.5	re	1	0.7	1.2	1.8	14.1	292
3x4	re	1	0.7	1.2	1.8	15.3	361
3x6	re	1	0.7	1.2	1.8	16.4	418
3x10	re	7	0.7	1.2	1.8	19.5	552
3x16	re	7	0.7	1.2	1.8	21.8	700
3x25	re	7	0.9	1.2	1.8	25.5	937
3x25+16	re;re	7	0.9;0.7	1.2	1.8	26.6	1067
3x35	re	7	0.9	1.2	1.9	28.3	1171
3x35+16	re;re	7	0.9;0.7	1.2	1.8	28.8	1248
3x50	sm	19	1.0	1.2	1.9	27.9	1338
3x50+25	sm;rm	19;7	1.0;0.9	1.2	2.0	30.5	1534
3x70	sm	19	1.1	1.2	2.0	31.7	1691
3x70+35	sm;rm	19;7	1.1;0.9	1.2	2.2	34.1	1817
3x95	sm	19	1.1	1.2	2.2	35.5	1994
3x95+50	sm;sm	19;19	1.1;1.0	1.3	2.3	38.5	2285
3x120	sm	37	1.2	1.3	2.3	38.3	2368
3x120+70	sm;sm	37;19	1.2;1.1	1.3	2.4	41.7	2701
3x150	sm	37	1.4	1.3	2.4	42.5	2821
3x150+70	sm;sm	37;19	1.4;1.1	1.4	2.6	46.5	3236
3x185	sm	37	1.6	1.4	2.6	46.7	3431
3x185+95	sm;sm	37;19	1.6;1.1	1.5	2.7	51.3	3886
4x1.5	re	1	0.7	1.2	1.8	13.9	296
4x2.5	re	1	0.7	1.2	1.8	14.9	325
4x4	re	1	0.7	1.2	1.8	16.2	406
4x6	re	1	0.7	1.2	1.8	17.5	473
4x10	rm	7	0.7	1.2	1.8	20.9	633
4x16	rm	7	0.7	1.2	1.8	23.5	810
4x25	rm	7	0.9	1.2	1.8	27.6	1098
4x35	rm	7	0.9	1.2	1.9	30.7	1379

AC2XAb(z)Y(-F)

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

**Power cable with XLPE insulation and PVC
sheath**

Tipodi- mensiune cablu <i>Cable size</i>	Tip conduc-tor <i>Cond. type</i>	Nr de fire din conductor <i>No. of wires / conductor</i>	Grosime radiala izolatie <i>Radial insulation thickness mm</i>	Grosime radiala manta <i>Radial sheath thickness mm</i>		Diametru exterior nominal <i>Nominal outer diameter mm</i>	Masa inf <i>Mass inf kg/km</i>
				Int <i>inner</i>	Ext <i>ext</i>		
4x50	sm	19	1.0	1.2	2.0	31.3	1628
4x70	sm	19	1.1	1.2	2.2	36.1	1993
4x95	sm	19	1.1	1.3	2.4	40.3	2508
4x120	sm	37	1.2	1.4	2.5	43.9	2993
4x150	sm	37	1.4	1.4	2.6	48.3	3545
5x1.5	re	1	0.7	1.2	1.8	14.7	331
5x2.5	re	1	0.7	1.2	1.8	15.8	362
5x4	re	1	0.7	1.2	1.8	17.3	460
5x6	re	1	0.7	1.2	1.8	18.6	529
5x10	rm	7	0.7	1.2	1.8	22.4	731
5x16	rm	7	0.7	1.2	1.8	25.4	942
5x25	rm	7	0.9	1.2	1.9	30.1	1318
5x35	rm	7	0.9	1.2	2.0	33.6	1638
7x1.5	re	1	0.7	1.2	1.8	15.5	362
7x2.5	re	1	0.7	1.2	1.8	16.7	391
8x1.5	re	1	0.7	1.2	1.8	17.2	378
8x2.5	re	1	0.7	1.2	1.8	18.6	409
10x1.5	re	1	0.7	1.2	1.8	18.1	417
10x2.5	re	1	0.7	1.2	1.8	19.7	472
12x1.5	re	1	0.7	1.2	1.8	18.6	445
12x2.5	re	1	0.7	1.2	1.8	20.2	519
14x1.5	re	1	0.7	1.2	1.8	19.3	479
14x2.5	re	1	0.7	1.2	1.8	21.0	557
19x1.5	re	1	0.7	1.2	1.8	20.9	561
19x2.5	re	1	0.7	1.2	1.8	22.9	644
24x1.5	re	1	0.7	1.2	1.8	23.7	669
24x2.5	re	1	0.7	1.2	1.8	26.1	758
30x1.5	re	1	0.7	1.2	1.8	24.8	748
30x2.5	re	1	0.7	1.2	1.8	27.4	894
37x1.5	re	1	0.7	1.2	1.8	26.5	848
37x2.5	re	1	0.7	1.2	1.8	29.3	1015

ACYEAbY(-F); ACYEAbzY(-F) 3.6/6 kV

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

Armored PVC-insulated and sheathed power cable

Standard de fabricatie: SR CEI 60502-2

Tensiune nominala U₀/U(U_m) : 3.6/6(7.2) kV

Tensiune de incercare : 12.5 kV c.a ,5 min

Temperatura minima de instalare pe cablu: -5°C

Temperatura maxima de lucru : 70°C

Temperatura maxima de scurt-circuit : 160°C

Rezistenta electrica a ecranului la 20°C : max 3.08 Ω/km

Domeniul de utilizare

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

Cablurile trebuie protejate impotriva agentilor corozivi , a solventilor chimici si a radiatiilor solare

Conductor de aluminiu

Conductor multifilar cl 2 ,rm , sector

Izolatie

PVC tip B

Invelis intern

Banda semiconductoare cu bariera la propagarea apei

Ecran de cupru

Banda de 0.1 mm

Rezistenta electrica max : 3.08 Ω/km

Manta interioara

PVC tip ST1 negru sau gri

Armatura

Banda laminata la rece nezincata sau zincata de grosime minima 0.5 mm.

Manta exterioara

PVC tip ST1 Negru sau gri

Cablurile sunt cu intarziere sau intarziere marita la propagarea flacarii ;incercare conf SR EN 332-1-2 sau SR EN 50266-2-4 categoria C

Marcaj pe manta

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

Raza minima de curbura la instalare

Min. 12xdiametrul cablului

Forta maxima de tractiune la pozare

Max 50 N/mm²

Cod de culori

3 conductoare - albe

Production Standard: SR CEI 60502-2

Rated voltage U₀/U (U_m): 3.6 / 6 (7.2) kV

Test voltage : 12.5 kV AC,5 min

Minimum temperature of the cable during laying : -5°C

Max. permissible operating temperature : 70°C

Max. short-circuit temperature : 160°C

Max. resistance at 20°C ,screen : 3.08 Ω/km

Applicability :

Power supply to power stations.

The cables must be protected against :corrosive chemicals, chemical solvents and solar radiation

Aluminum conductor

Class 2 multiwire conductor; rm , sector-shaped

Insulation

PVC type B

Inner protective layer

Watertight semi-conductive tape

Copper screen

Cu/PET tape 0.1 mm

Max. resistance at 20°C : 3.08 Ω/km

Inner sheath

PVC type ST1 black or gray

Aarmor

Blank or zinc-plated cold-rolled tape, min. thickness 0.5 mm.

Outer sheath

PVC type ST1 black or gray

The cable are flame retardant or extra flame retardant; test according to SR EN 332-1-2 or SR EN 50266-2-4, type C

Sheath marking

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

Min. bending radius at installation :

Min. 12 x cable diameter

Max. tensile strain during installation :

Max 50 N/mm²

Color coding

3 conductors - White

ACYEAbY(-F); ACYEAbzY(-F) 3.6/6 kV

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

Armored PVC-insulated and sheathed
power cable

Tipodi- mensiune cablu Cable size	Tip conduc- tor Type of conduc- tor	Grosime radiala izolatie, nom/min Radial thickness of insula-tion mm	Grosime radiala manta interna Radial thickness of inner sheath 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
3x25	rm	3.4/2.96	1.2/0.76	2.2/1.56	1.200	39.1	2043
3x35	rm	3.4/2.96	1.2/0.76	2.3/1.64	0.868	40.6	2226
3x35	ru	3.4/2.96	1.2/0.76	2.2/1.56	0.868	39.6	2145
3x50	sm	3.4/2.96	1.2/0.76	2.2/1.56	0.641	38.7	2375
3x70	sm	3.4/2.96	1.3/0.84	2.3/1.64	0.443	42.1	2818
3x95	sm	3.4/2.96	1.3/0.84	2.4/1.73	0.320	45.1	3297
3x120	sm	3.4/2.96	1.4/0.92	2.5/1.79	0.253	47.9	3752
3x150	sm	3.4/2.96	1.4/0.92	2.6/1.88	0.206	50.9	4287
3x185	sm	3.4/2.96	1.5/1.00	2.7/1.96	0.164	54.1	4898
3x240	sm	3.4/2.96	1.6/1.08	2.9/2.12	0.125	58.7	5803

ACBYCY

Cablu de energie cu izolatie de PVC ,conductor concentric din aluminiu si manta de PVC

PVC-insulated power cable with aluminum concentric conductor and PVC sheath

Standard de fabricatie: ST 124

Standard: ST 124

Tensiune nominala U₀/U : 0.6/1 kV

Rated voltage U₀/U : 0.6/1 kV

Domeniul de utilizare

Cablurile sunt utilizate pentru realizarea de bransamente monofazate pentru tensiuni U₀/U 0.6/1 kV

Cablurile se monteaza pe stalpi si pe fatadele cladirilor

Temperatura cond in functionarea de durata: +70°C

Temperatura cond in scurtcircuit: +160°C

Temperatura minima in timpul pozarii: -5°C

Temperatura minima dupa pozare: -40°C

Applicability :

Monophase connections for U₀/U voltages of 0.6/1 kV.
Installed on poles and attached to building fronts

Conductor temperature in long-run operation: +70°C

Conductor temperature during short-circuit: +160°C

Lowest temperature during installation: -5°C

Lowest temperature after installation: -40°C

Conductor din aluminiu, de faza

Conductor multifilar (rm); SR EN 60228

Izolatie PVC

Conductor din aluminu de nul

Conductor multifilar (rm)

Manta de PVC

Aceste cabluri sunt cu intarziere la propagarea flacarilor ;incercare conf SR CEI 332-1

Aluminum phase conductor

Multiwire (rm) according to SR EN 60228

PVC Insulation, YI1

Concentric aluminum screen

Multiwire (rm)

PVC Sheath

The cables are flame retardant , test according to SR CEI 332-1

Marcaj pe manta

SC ELECTROPLAST SA ,simbol cablu ,tensiune de lucru, an de fabricatie,

Sheath marking

SC ELECTROPLAST SA , cable symbol , operational voltage, year of manufacture.

Raza minima de curbura la instalare

10xdiametrul cablului

Min. bending radius at installation :

10 x cable diameter

Cod de culori

1 conductor izolat :negru sau albastru

Color coding :

1 conductor-black or blue

Tipodimensiune cablu Cable size	Construc- tie conductor de faza Construc- tion of phase conductor	Construc- tie conductor de nul Construc- tion of concentric screen	Grosime radiala izolat,ie, Radial thickness of insulation mm	Grosime radiala manta Radial thickness of sheath mm	Masa cond de aluminiu inf Mass of aluminum cond kg/km	Diametru exterior nominal Nominal outer diameter mm	Masa inf Mass inf kg/km
10/16	7x1.35	16x1.13	1.5	2.0	72	13.4	227
16/16	7x1.7	16x1.13	1.5	2.0	88	14.4	255
16/25	7x1.7	17x1.38	1.5	2.0	114	14.9	287
25/25	7x2.14	17x1.38	1.5	2.0	139	16.3	342

ACB2XCY



Cablu de energie cu izolatie de XLPE ,conductor concentric din aluminiu si manta de PVC

XLPE-insulated power cable with aluminum concentric conductor and PVC sheath

Standard de fabricatie: ST 124

Standard: ST 124

Tensiune nominala Uo/U : 0.6/1 kV

Rated voltage Uo/U : 0.6/1 kV

Domeniul de utilizare

Cablurile sunt utilizate pentru realizarea de bransamente monofazate pentru tensiuni Uo/U 0.6/1 kV

Cablurile se monteaza pe stalpi si pe fatadele cladirilor

Temperatura cond in functionarea de durata: +90°C

Temperatura cond in scurtcircuit: +250°C

Temperatura minima in timpul pozarii: -5°C

Temperatura minima dupa pozare: -40°C

Applicability :

Monophase connections for Uo/U voltages of 0.6/1 kV.
Installed on poles and attached to building fronts

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

Conductor temperature during short-circuit: : +250°C

Lowest temperature during installation: -5°C

Lowest temperature after installation: -40°C

Conductor din aluminiu, de faza

Conductor multifilar (rm);SR EN 60228

Izolatie XLPE

Conductor din aluminu de nul

Conductor multifilar (rm)

Manta de PVC

Aceste cabluri sunt cu intarziere la propagarea flacarilor ;incercare conf SR CEI 332-1

Aluminum phase conductor

Multiwire (rm) according to SR EN 60228

PVC Insulation,XLPE

Concentric aluminum screen

Multiwire (rm)

PVC Sheath

The cables are flame retardant , test according to SR CEI 332-1

Marcaj pe manta

SC ELECTROPLAST SA ,simbol cablu ,tensiune de lucru, an de fabricatie,

Sheath marking

SC ELECTROPLAST SA , cable symbol , operational voltage, year of manufacture.

Raza minima de curbura la instalare

10xdiametrul cablului

Min. bending radius at installation :

10 x cable diameter

Cod de culori

1 conductor izolat :negru sau albastru

Color coding :

1 conductor-black or blue

ACB2XCY



Cablu de energie cu izolatie de XLPE ,conductor concentric din aluminiu si manta de PVC

XLPE-insulated power cable with aluminum concentric conductor and PVC sheath

Tipodimensiune cablu Cable size	Construc- tie conductor de faza Construc- tion of phase conductor	Construc- tie conductor de nul Construc- tion of concentric screen	Grosime radiala izolatie, Radial thickness of insulation mm	Grosime radiala manta Radial thickness of sheath mm	Masa cond de aluminiu inf Mass of aluminum cond kg/km	Diametru exterior nominal Nominal outer diameter mm	Masa inf Mass inf kg/km
16/16	7x1.7	16x1.13	1.3	1.8	43.0	13.5	203
16/25	7x1.7	17x1.35	1.3	1.8	43.0	14.0	228
25/25	7x2.14	17x1.35	1.3	1.8	68.0	15.0	266
35/35	7x2.5	15x1.7	1.4	1.8	93.0	16.9	345
36/6/35	7x2.7Al+ 1x2.7 Ol	15x1.7	1.4	1.8	109	17.2	393
50/8/35	7x3.2Al+ 1x3.2 Ol	15x1.7	1.4	1.8	153	18.8	469
50/8/50	7x3.2Al+ 1x3.2 Ol	20x1.7	1.5	1.8	153	19.0	505

TYIR

**Conductoare de aluminiu si oțel –
aluminiu, izolate in PVC, rasucite
in fascicul (torsadate)**



**Stranded PVC-insulated aluminum and
steel-aluminum conductors**

Standard de fabricatie: ST 125-2006

Tensiune nominala U_0/U : 0.6/1 kV

Tensiune de incercare: 4 kV ca, 5 min

Temperatura minima de instalare pe cablu: -5°C

Temperatura max de lucru: 70°C

Temperatura min a cablului dupa pozare: -40°C

Temperatura maxima de scurt-circuit: +160°C

Domeniul de utilizare

Sunt destinate realizarii retelelor electrice de distributie, cu tensiuni nominale de U_0/U 0.6/1 kV

Conductor

Conductor de faza multifilar din aluminiu (rm)

Conductor de nul din oțel-aluminiu (rm)

Izolatie

PVC tip M50

Culoare izolatie

Neagra

Marcaj

Conductorul OL-Al se marcheaza cu 6 dungi in relief pe toata lungimea de fabricatie asociat cu marcajul ZERO.

Conductoarele de faza ale retelei de distributie pentru abonatii casnici se marcheaza cu: UNU; DOI; TREI

Conductoarele de iluminat public se marcheaza cu: IP1; IP2; IP3

Conductoarele de bransament se marcheaza cu: B0; B1; B2; B3

Manufacturing standard: ST 125-2006

Rated voltage U_0/U : 0.6/1 kV

Test voltage: 4 kVAC, 5 min.

Lowest ambient temperature during cable laying: -5°C

Highest operational temperature: 70°C

Lowest ambient temperature after cable laying: -40°C

Highest temperature during short-circuit: +160°C

Applications:

Power distribution networks with rated voltages up to U_0/U 0.6/1 kV

Conductor:

Aluminum multi-wire phase conductor (rm)

Steel-aluminum null conductor (rm)

Insulation

PVC type M50

Insulation color

Black

Markings

The steel – aluminum conductor will be marked with six protruding stripes running along the entire production length combined with the verbal marking ZERO.

The phase conductors of the private subscriber distribution network will be marked ONE, TWO, THREE

The public lighting conductors will be marked IP1, IP2, IP3

The connection conductors will be marked with B0, B1, B2, B3

TYIR



Conductoare de aluminiu si oțel –
aluminiu, izolate in PVC, rasucite
in fascicul (torsadate)

Stranded PVC-insulated aluminum and
steel-aluminum conductors

Tip cablu Cable size	Diam exterior inf mm	Masa cond. de aluminiu kg/km	Masa totala a cablului, Inf. kg/km
TYIR 10 Al+16 Al	16.0	72	160
TYIR 16 Al+25 Al	19.0	115	224
TYIR 2x10 Al	14.4	56	138
TYIR 2x16 Al	17.4	88	195
TYIR 2x25 Al	20.0	141	250
TYIR 35OL-Al+3x35Al	26.8	378	730
TYIR 3x16+25Al	18.0	197	425
TYIR 3x25+16Al	21.0	256	493
TYIR 3x35Al	23.9	284	512
TYIR 4x10Al	17.4	108	282
TYIR 4x16Al	21.0	172	389
TYIR 50 OL-Al+16 Al	22.3	178	390
TYIR 50 OL-Al+16 Al+16 Al	22.8	221	490
TYIR 50 OL-Al+25 Al	23.5	202	424
TYIR 50 OL-Al+25 Al+25 Al	24.2	270	558
TYIR 50 OL-Al+2x35+35 Al	35.8	418	807
TYIR 50 OL-Al+2x50 Al	37.8	405	761
TYIR 50 OL-Al+2x50 Al+35Al	36.0	499	932
TYIR 50 OL-AL+35Al+35Al	34.0	324	635
TYIR 50 OL-Al+3x16 Al	23.0	264	587
TYIR 50 OL-Al+3x16 Al+16Al	24.0	307	685
TYIR 50 OL-Al+3x16 Al+2x16Al	25.2	352	782
TYIR 50 OL-Al+3x16 Al+3x16A	26.0	395	880
TYIR 50 OL-Al+3x25 Al	31.2	338	690
TYIR 50 OL-Al+3x25 Al+16Al	29.0	381	787
TYIR 50 OL-Al+3x25 Al+2x16Al	29.0	424	885
TYIR 50 OL-Al+3x25 Al+3x16Al	33.2	467	983
TYIR 50 OL-Al+3x35 Al	35.8	418	806
TYIR 50 OL-Al+3x35 Al+16Al	33.0	461	900
TYIR 50 OL-Al+3x35 Al+2x16Al	33.0	504	1002
TYIR 50 OL-Al+3x35 Al+35Al	34.8	513	977
TYIR 50 OL-Al+3x35 Al+3x16Al	37.8	547	1090
TYIR 50 OL-Al+3x35 Al+3x25Al	37.8	620	1202
TYIR 50 OL-Al+3x50 Al	37.8	540	994
TYIR 50 OL-Al+3x50 Al+16Al	37.8	583	1090
TYIR 50 OL-Al+3x50 Al+2x16Al	37.8	626	1190
TYIR 50 OL-Al+3x50 Al+35Al	38.3	635	1165
TYIR 50 OL-Al+3x50 Al+3x16Al	38.3	669	1287
TYIR 50 OL-Al+3x50 Al+3x25Al	40.0	742	1390
TYIR 50 OL-Al+3x50 Al+2x25Al	42.5	675	1240
TYIR 50 OL-Al+3x50 Al+3x35Al	42.5	823	1507
TYIR 50 OL-Al+3x70 Al	42.5	702	1211
TYIR 50 OL-Al+3x70 Al+16Al	42.5	745	1300

TYIR



Conductoare de aluminiu si otel –
aluminiu, izolate in PVC, rasucite
in fascicul (torsadate)

Stranded PVC-insulated aluminum and
steel-aluminum conductors

Tip cablu Cable size	Diam exterior inf mm	Masa cond. de aluminiu kg/km	Masa totala a cablului, Inf. kg/km
TYIR 50 OL-Al+3x70 Al+2x16Al	42.5	788	1400
TYIR 50 OL-Al+3x70 Al+2x25Al	42.5	837	1475
TYIR 50 OL-Al+3x70 Al+35Al	42.5	796	1382
TYIR 50 OL-Al+3x70 Al+3x16Al	42.5	831	1500
TYIR 50 OL-Al+3x70 Al+3x25Al	42.5	904	1607
TYIR 50 OL-Al+3x70 Al+3x35Al	42.5	985	1720
TYIR 50 OL-Al+3x95 Al+2x16Al	44.0	990	1668
TYIR 50 OL-Al+3x95 Al+3x16Al	44.0	1033	1760
TYIR 50 OL-Al+50 Al	26.0	270	523
TYIR 50 OL-Al+50 Al+35Al	26.0	364	688
TYIR 50 OL-Al+35 Al	27.0	229	460
TYIR 50 OL-Al+35 Al+16Al	27.0	273	556
TYIR 50 OL-Al+70 Al	27.0	324	570

T2X



**Conductoare de aluminiu si oțel –
aluminiu, izolate in polietilena
reticulata, rasucite in fascicul
(torsadate)**

**Stranded XLPE-insulated aluminum and
steel-aluminum conductors**

Standard de fabricatie: ST 125-2009

Tensiune nominala U_0/U : 0.6/1 (1.2) kV

Tensiune de incercare : 4 kV ca ,50 Hz, 5 min

Temperatura minima de instalare pe cablu: -10°C

Temperatura max de lucru : 90°C

Temperatura min a cablului dupa pozare: -20°C

Temperatura maxima de scurt-circuit : +250°C

Domeniul de utilizare

Sunt destinate realizarii retelelor electrice de distributie, cu tensiuni nominale de U_0/U 0.6/1 kV

Conductor

Conductor de faza ,neutru sau iluminat , multifilar din aluminiu (rm)

Conductor de nul din oțel-aluminiu (rm)

Izolatie

Polietilena reticulabila TIX-5

Culoare izolatie

Neagra

Marcaj

Conductorul OL-Al se marcheaza cu 6 dungi in relief pe toata lungimea de fabricatie asociat cu marcajul ZERO.

Conductoarele de faza ale retelei de distributie pentru abonatii casnici se marcheaza cu: UNU;DOI;TREI

Conductoarele de iluminat public se marcheaza cu: IP1;IP2;IP3

Conductoarele de bransament se marcheaza cu: B0;B1;B2;B3

Manufacturing standard: ST 125-2009

Rated voltage U_0/U : 0,6/1 (1.2) kV

Test voltage: 4 kVac, 5 min.

Lowest ambient temperature during cable laying:
-10°C

Highest operational temperature + 90°C

Lowest ambient temperature after cable laying: -20°C

Highest temperature during short-circuit: +250°C

Applications:

Power distribution networks with rated voltages up to U_0/U 0,6/1 kV

Conductor:

Aluminum multi-wire phase conductor (rm)

Steel-aluminum null conductor (rm)

Insulation

XLPE- cross-linkable polyethylene TIX-5

Insulation color

Black

Markings

The steel – aluminum conductor will be marked with six protruding stripes running along the entire production length combined with the verbal marking ZERO.

The phase conductors of the private subscriber distribution network will be marked ONE, TWO, THREE

The public lighting conductors will be marked IP1, IP2, IP3

The connection conductors will be marked with B0, B1, B2, B3

T2X



**Conductoare de aluminiu si oțel –
aluminiu, izolate in polietilena
reticulata, rasucite in fascicul
(torsadate)**

**Stranded XLPE-insulated aluminum and
steel-aluminum conductors**

Secțiune conductor <i>Conductor cross- section</i>	Rezistența electrică max la 20° C <i>Electric resistance at 20° C, max. Ω/km</i>	Sarcina admisibilă <i>Permissible charge A</i>	Nr min de sarme din conductor <i>No. of wires in conductor, min.</i>	Gros rad izolație nom <i>Nominal radial insulation thickness mm</i>	Forța de rupere <i>Breaking strength kN</i>	Diam ext nominal <i>Nominal outer diam. mm</i>
10	3.08	70	1	1.1	1.6	5.8
16	1.91	90	7	1.1	2.4	7.2
25	1.2	110	7	1.3	3.7	9.0
35	0.868	130	7	1.3	5.2	9.6
50	0.641	165	7	1.5	7.2	11.1
70	0.443	205	14	1.5	12.4	12.7
95	0.32	240	19	1.7	16.8	14.8
Conductor neutru 50/8	0.595		6/1	1.5	16.8	11.9

Tip cablu <i>Cable size</i>	Masa totală a cablului, inf. <i>Total cable mass, inf. kg/km</i>	Tip cablu <i>Cable size</i>	Masa totală a cablului, inf. <i>Total cable mass, inf kg/km</i>
T2X 10 Al+16 Al	118	T2X 50 OL-Al+4x35 Al	838
T2X 16 Al+25 Al	181	T2X 50 OL-Al+1x50 Al	465
T2X 2x10 Al	95	T2X 50 OL-Al+3x50 Al	865
T2X 2x16 Al	140	T2X 50 OL-Al+3x70 Al	1055
T2X 2x25 Al	215	T2X 50 OL-Al+3x16 Al+1x25 Al	585
T2X 3x16+25Al	325	T2X 50 OL-Al+3x25 Al +1x16 Al	666
T2X 3x25+16Al	400	T2X 50 OL-Al+3x25 Al+2x16Al	740
T2X 3x35Al	425	T2X 50 OL-Al+3x25 Al+3x16Al	805
T2X 4x10Al	188	T2X 50 OL-Al+3x35 Al +2x16Al	840
T2X 4x16Al	285	T2X 50 OL-Al+3x35 Al+3x16Al	910
T2X 50 OL-Al+16 Al	339	T2X 50 OL-Al+3x50 Al +1x16 Al	938
T2X 50 OL-Al+2x16 Al	405	T2X 50 OL-Al+3x50 Al +1x35 Al	1005
T2X 50 OL-Al+3x16 Al	482	T2X 50 OL-Al+3x50 Al+2x16Al	1009
T2X 50 OL-Al+4x16 Al	550	T2X 50 OL-Al+3x50 Al+3x16Al	1085
T2X 50 OL-Al+25 Al	375	T2X 50 OL-Al+3x50 Al+3x25Al	1195
T2X 50 OL-Al+2x25 Al	485	T2X 50 OL-Al+3x70 Al+16Al	1120
T2X 50 OL-Al+3x25 Al	590	T2X 50 OL-Al+3x70 Al+2x16Al	1195
T2X 50 OL-Al+4x25 Al	700	T2X 50 OL-Al+3x70 Al+3x16Al	1265
T2X 50 OL-Al+1x35Al	410	T2X 50 OL-Al+3x95 Al+2x16Al	1470
T2X 50 OL-AL+2x35 Al	550	T2X 50 OL-Al+3x95 Al+3x16Al	1540
T2X 50 OL-AL+3x35 Al	695		

CONDUCTOARE DE OTEL -ALUMINIU**Standard de referinta : SR CEI 61089****Domeniul de utilizare : Pentru transportul energiei electrice in linii electrice aeriene**

Tip conductor	UM	35/6	50/8	70/12	95/15	120/21	160/95	185/32	240/40	300/50	450/75	680/85
Sectiune Al	mm ²	34.3	48.3	69.9	96.5	122.6	163.3	183.8	236	294.9	445.1	678.6
Sectiune otel	mm ²	5.7	8.0	11.4	56.3	20.9	96.9	31.7	40.1	49.5	75.5	85.9
Sectiune totala	mm ²	40	56.3	81.3	152.8	143.5	260.2	215.5	276.1	344.4	520.6	764.5
Nr sarme Ol		1	1	7	7	7	19	7	7	7	19	19
Diametru sarme de Ol	mm	2.7	3.2	1.44	3.2	1.95	2.55	2.4	2.7	3.0	2.25	2.4
Numar sarme de Al		6	6	26	12	26	52	26	26	26	63	54
Diametru sarme de Al	mm	2.7	3.2	1.85	3.2	2.45	2.0	3.0	3.4	3.8	3.0	4.0
Diametru conductor	mm	8.1	9.6	11.7	16.0	15.7	20.75	19.2	21.7	24.2	29.25	36.0
Masa conductor negresat	kg/km	139.2	195.3	283	710	502	1218	757	967	1204	1828	2552
Fora de rupere nominala	kN	12.37	16.81	25.76	33.72	45.92	140.83	67.35	84.65	103.59	164.09	206.56
Rezistenta electrica la 20°C	Ω/km	0.8350	0.5948	0.4132	0.2293	0.2357	0.1788	0.1570	0.1222	0.0979	0.0655	0.0426
Capacitatea de transp a curentului *	A	243	302	0.383	492	552	688	717	843	973	1259	1662

*Capacitatea de transport a curentului a fost calculata folosind urmatoarele valori ptr conditiile de mediu conf IEC 7.1.4

-viteza vantului: $v=1$ m/s

-intensitatea radiatiei solare: $S_i=900$ W/m²

-coeficient de absorbtie solara : $\gamma=0.5$

-emisivitatea in raport cu un corp negru : $K_e=0.6$

-temperatura aluminiului : $V_2=353$ K (80° C)

-temperatura mediului ambiant : $V_1=293$ K(20°C)

STEEL – ALUMINUM CONDUCTORS

Reference standard: SR CEI 61089

Application: Power supply in overhead power lines

Type of conductor	UM	35/6	50/8	70/12	95/15	120/2 1	160/95	185/32	240/40	300/50	450/75	680/85
Cross-section Al	mm ²	34.3	48.3	69.9	96.5	122.6	163.3	183.8	236	294.9	445.1	678.6
Cross-section steel	mm ²	5.7	8.0	11.4	56.3	20.9	96.9	31.7	40.1	49.5	75.5	85.9
Total cross-section	mm ²	40	56.3	81.3	152.8	143.5	260.2	215.5	276.1	344.4	520.6	764.5
No. of steel wires		1	1	7	7	7	19	7	7	7	19	19
Steel wire diameter	mm	2.7	3.2	1.44	3.2	1.95	2.55	2.4	2.7	3.0	2.25	2.4
No. of Al wires		6	6	26	12	26	52	26	26	26	63	54
Al wire diameter	mm	2.7	3.2	1.85	3.2	2.45	2.0	3.0	3.4	3.8	3.0	4.0
Conductor diameter	mm	8.1	9.6	11.7	16.0	15.7	20.75	19.2	21.7	24.2	29.25	36.0
Mass of conductor before greasing	kg/km	139.2	195.3	283	710	502	1218	757	967	1204	1828	2552
Nominal breaking strength	kN	12.37	16.81	25.76	33.72	45.92	140.83	67.35	84.65	103.59	164.09	206.56
Electrical resistance at 20°C	Ω/km	0.8350	0.5948	0.4132	0.2293	0.235 7	0.1788	0.1570	0.1222	0.0979	0.0655	0.0426
Current carrying capacity *	A	243	302	0.383	492	552	688	717	843	973	1259	1662

*The current carrying capacity has been calculated based on the environmental conditions values given below, according to IEC 7.1.4

- speed of cross wind: $v=1$ m/s
- intensity of solar radiation: $S_i=900$ W/m²
- solar absorption coefficient: $\gamma=0.5$
- emissivity with respect to black body: $K_e=0.6$
- aluminium temperature: $V_2=353$ K (80° C)
- environmental temperature: $V_1=293$ K(20°C)

C. AL

CONDUCTOARE DE ALUMINIU PENTRU LINII ELECTRICE AERIENE CU SARME ROTUNDE, CABLATE IN STRATURI CONCENTRICE

Standard de referinta : SR CEI 61089

Domeniul de utilizare : Pentru transportul energiei electrice in linii electrice aeriene

Tip conductor	UM	25	35	50	70	95	120	150	185	240	300	500
Sectiune nominala	mm ²	25	35	50	70	95	120	150	185	240	300	500
Nr sarme		7	7	7	19	19	19	37	37	61	61	61
Diam sarma	mm	2.1	2.5	3.0	2.14	2.5	2.8	2.25	2.5	2.25	2.5	3.23
Constructie conductor		7x2.1	7x2.5	7x3	19x2.1	19x2.5	19x2.8	37x2.25	37x2.5	61x2.25	61x2.5	61x3.23
Diam conductor	mm	6.3	7.5	9.0	10.5	12.5	14.0	15.75	17.5	20.25	22.5	29.1
Masa	Kg/km	66	94	135	181	256	321	404	499	667	827	1379
Forta de rupere	kN	4.4	6.01	8.42	11.86	16.34	19.91	26.52	31.83	43.73	50.99	82.61
Rezistenta electrica la 20°C	ohmi/km	1.182	0.833	0.578	0.437	0.308	0.245	0.196	0.158	0.1191	0.0965	0.0578
*Capacitatea de transport a curentului	A	190	238	300	361	451	523	606	693	837	958	1337

*Capacitatea de transport a curentului a fost calculata folosind urmatoarele valori ptr conditiile de mediu conf IEC 7.1.4

-viteza vantului: $v=1$ m/s

-intensitatea radiatiei solare: $S_i=900$ W/m²

-coeficient de absorbtie solara : $\gamma=0.5$

-emisivitatea in raport cu un corp negru : $K_e=0.6$

-temperatura aluminiului : $V_2=353$ K (80° C)

-temperatura mediului ambiant : $V_1=293$ K(20°C)

C. AL

ALUMINUM CONDUCTORS FOR OVERHEAD POWER LINES WITH CONCENTRICALLY-STRANDED ROUND WIRES

Reference standard: SR CEI 61089

Application: Power supply in overhead power lines

Type of conductor	UM	25	35	50	70	95	120	150	185	240	300	500
Nominal cross-section	mm ²	25	35	50	70	95	120	150	185	240	300	500
No. of wires		7	7	7	19	19	19	37	37	61	61	61
Wire diameter	mm	2.1	2.5	3.0	2.14	2.5	2.8	2.25	2.5	2.25	2.5	3.23
Conductor structure		7x2.1	7x2.5	7x3	19x2.1	19x2.5	19x2.8	37x2.25	37x2.5	61x2.25	61x2.5	61x3.23
Conductor diameter	mm	6.3	7.5	9.0	10.5	12.5	14.0	15.75	17.5	20.25	22.5	29.1
Mass	Kg/km	66	94	135	181	256	321	404	499	667	827	1379
Breaking strength	kN	4.4	6.01	8.42	11.86	16.34	19.91	26.52	31.83	43.73	50.99	82.61
Electrical resistance 20°C	Ohm/km	1.1820	0.8332	0.5786	0.4370	0.3085	0.2459	0.1960	0.1588	0.1191	0.09651	0.05782
*Current carrying capacity	A	190	238	300	361	451	523	606	693	837	958	1337

*The current carrying capacity has been calculated based on the environmental conditions values given below, according to IEC 7.1.4

-speed of cross wind: $v=1$ m/s

-intensity of solar radiation: $S_i=900$ W/m²

-solar absorption coefficient : $\gamma= 0.5$

-emissivity with respect to black body: $K_e=0.6$

-aluminium temperature: $V_2=353$ K (80° C)

-ambient temperature: $V_1=293$ K(20°C)