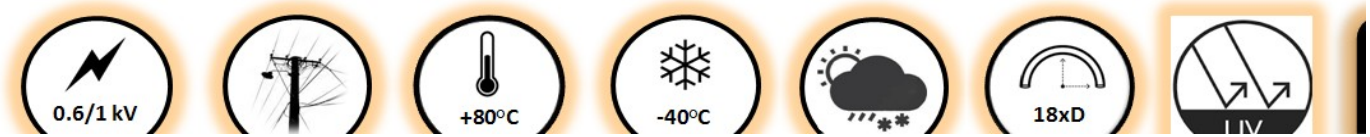




## Conductoare de aluminiu si otel –aluminiu, izolate in polietilena reticulata, rasucite in fascicul (torsadate)

## Bundle assembled aerial cables, XLPE-insulated



**Standard de fabricatie:** ST 125; SR HD 626 S1

**Production standard:** ST 125; SR HD 626 S1

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

**Rated voltage  $U_0/U$ :** 0.6/1 (1.2) kV

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

**Test voltage:** 4 kV ac, 50Hz, 5 min

### Domeniul de utilizare

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

### Applications

Power distribution networks, overhead electric airlines, with rated voltages up to  $U_0/U$  0.6/1 kV.

**Temperatura minima de instalare pe cablu:** -10°C

**Min. cable temperature during laying:** -10°C

**Temperatura max de lucru:** +80°C

**Highest operational temperature:** +80°C

**Temperatura min a cablului dupa pozare:** -40°C

**Min. operational temperature:** -40°C

**Temperatura maxima de scurt-circuit (max.5 sec):** +250°C

**Max. short-circuit temperature (max. 5 sec):** +250°C

### Conductor de faza

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

### Phase conductor

Solid conductor (re) (section  $\leq 16 \text{ mm}^2$ ), concentrically stranded aluminium conductor (rm)

### Conductor de nul:

Otel-aluminiu, multifilar (rm)

### Null conductor

Concentrically stranded steel-aluminum conductor (rm)

### Izolatie

Polietilena reticulata, tip TIX 2.

### Insulation

Crosslinked polyethylene, TIX 2 type.

### Culoare izolatie

Neagra

### Insulation color

Black

### Marcaj

- Conductorul purtator de OL-Al este marcat cu 6 dungi in relief pe toata lungimea de fabricatie asociat cu marcajul PEN.
- Conductoarele de faza ale retelei de distributie pentru abonatii casnici sunt marcate cu: L1; L2; L3
- Conductoarele de iluminat public sunt marcate cu: IP1; IP2; IP3
- Conductoarele de bransament sunt marcate cu: B0; B1; B2; B3

### Markings

- The steel – aluminum conductor will be marked with six protruding stripes running along the entire production length combined with the verbal marking PEN.
- The phase conductors of the private subscriber distribution network will be marked L1; L2; L3
- The public lighting conductors will be marked IP1, IP2, IP3
- The connection conductors will be marked with B0; B1; B2; B3



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| Section<br>conductor<br><br><i>Conductor<br/>cross-section</i> | Rezistenta<br>electrica<br>max la 20°C<br><br><i>Electric<br/>resistance at<br/>20° C, max.</i> | Sarcina<br>admisibila<br><br><i>Permissible<br/>charge</i> | Nr min de<br>sarme din<br>conductor<br><br><i>No. of wires in<br/>conductor, min.</i> | Gros rad<br>izolatie<br>nom<br><br><i>Nominal<br/>radial<br/>insulation<br/>thickness</i> | Forta de<br>rupere<br><br><i>Breaking<br/>strength</i> | Diam ext<br>nominal<br><br><i>Nominal outer diam.</i> |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
|                                                                | $\Omega/\text{km}$                                                                              | A                                                          |                                                                                       | mm                                                                                        | kN                                                     | mm                                                    |
| 10                                                             | 3.08                                                                                            | 70                                                         | 1                                                                                     | 1.1                                                                                       | 1.6                                                    | 5.8                                                   |
| 16                                                             | 1.91                                                                                            | 90                                                         | 1                                                                                     | 1.1                                                                                       | 2.4                                                    | 7.2                                                   |
| 25                                                             | 1.2                                                                                             | 107                                                        | 7                                                                                     | 1.3                                                                                       | 3.7                                                    | 9.0                                                   |
| 35                                                             | 0.868                                                                                           | 132                                                        | 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                                                  |
| <b>Conductor<br/>neutru<br/>50/8</b>                           | 0.595                                                                                           | 165                                                        | 6/1                                                                                   | 1.5                                                                                       | 16.8                                                   | 11.9                                                  |
| <b>70/12</b>                                                   | 0.413                                                                                           | 205                                                        | 26/7                                                                                  | 1.5                                                                                       | 25.77                                                  | 12.7                                                  |
| <b>95/15</b>                                                   | 0.320                                                                                           | 240                                                        | 26/7                                                                                  | 1.7                                                                                       | 33.72                                                  | 14.8                                                  |

| Tip cablu<br><br><i>Cable type</i> | Masa totala a<br>cablului, inf.<br><br><i>Total cable<br/>mass, inf.<br/>kg/km</i> | Tip cablu<br><br><i>Cable type</i> | Masa totala a<br>cablului, inf.<br><br><i>Total cable mass,<br/>inf<br/>kg/km</i> |
|------------------------------------|------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| 10Al+16 Al                         | 101                                                                                | 50 OL-Al+1x16Al                    | 307                                                                               |
| 6Al+25 Al                          | 153                                                                                | 50 OL-Al+2x10Al                    | 332                                                                               |
| 2x10Al                             | 86                                                                                 | 50 OL-Al+2x16Al                    | 370                                                                               |
| 2x10Al+16Al                        | 142                                                                                | 50 OL-Al+3x16Al                    | 435                                                                               |
| 2x16Al                             | 118                                                                                | 50 OL-Al+3x16Al +1x16Al            | 500                                                                               |
| 2x25Al                             | 188                                                                                | 50 OL-Al+3x16Al+1x25Al             | 527                                                                               |
| 3x16Al+25Al                        | 271                                                                                | 50 OL-Al+25Al                      | 339                                                                               |
| 3x25Al +16Al                       | 345                                                                                | 50 OL-Al+2x25Al                    | 432                                                                               |
| 3x35Al                             | 464                                                                                | 50 OL-Al+3x25Al                    | 526                                                                               |
| 4x10Al                             | 172                                                                                | 50 OL-Al+3x25Al+1x25Al             | 620                                                                               |
| 4x16Al                             | 250                                                                                | 50 OL-Al+1x35Al                    | 368                                                                               |
| 4x25Al                             | 376                                                                                | 50 OL-AL+2x35Al                    | 492                                                                               |
| 4x35Al                             | 502                                                                                | 50 OL-Al+3x35Al +2x16Al            | 747                                                                               |
| 4x50Al                             | 671                                                                                | 50 OL-Al+3x35Al+3x16Al             | 813                                                                               |

**T2X**

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**Bundle assembled aerial cables,  
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| Tip cablu<br><i>Cable type</i> | Masa totala a<br>cablului, inf.<br><i>Total cable<br/>mass, inf.<br/>kg/km</i> | Tip cablu<br><i>Cable type</i> | Masa totala a<br>cablului, inf.<br><i>Total cable mass,<br/>inf<br/>kg/km</i> |
|--------------------------------|--------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------|
| 50 OL-Al+3x35Al+1x35Al         | 746                                                                            | 50 OL-Al+95Al                  | 561                                                                           |
| 50 OL-Al+1x50Al                | 405                                                                            | 50 OL-Al+3x95Al                | 1205                                                                          |
| 50 OL-Al+3x50Al                | 745                                                                            | 50 OL-Al+3x95Al+1x16Al         | 1263                                                                          |
| 50 OL-Al+3x50Al +1x16Al        | 804                                                                            | 50 OL-Al+3x95Al+2x16Al         | 1322                                                                          |
| 50 OL-Al+3x50Al+2x16Al         | 863                                                                            | 50 OL-Al+3x95Al+3x16Al         | 1382                                                                          |
| 50 OL-Al+3x50Al+3x16Al         | 924                                                                            | 50 OL-Al+3x95Al+1x25Al         | 1300                                                                          |
| 50 OL-Al+3x50Al+3x25Al         | 1032                                                                           | 50 OL-Al+3x95Al+2x25Al         | 1387                                                                          |
| 50 OL-Al+3x50Al +1x35Al        | 869                                                                            | 50 OL-Al+3x95Al+1x35Al         | 1330                                                                          |
| 50 OL-AL+3x35Al                | 618                                                                            | 70/12 OL-Al+3x70Al             | 1055                                                                          |
| 50 OL-AL+3x35Al+1x16Al         | 678                                                                            | 70/12 OL-Al+3x70Al+1x16RUA1    | 1116                                                                          |
| 50 OL-Al+3x70Al                | 931                                                                            | 70/12 OL-Al+3x70Al+2x16RUA1    | 1178                                                                          |
| 50 OL-Al+3x70Al+1x16Al         | 990                                                                            | 70/12 OL-Al+3x70Al+1x25Al      | 1151                                                                          |
| 50 OL-Al+3x70Al+2x16Al         | 1050                                                                           | 70/12 OL-Al+3x70Al+2x25Al      | 1247                                                                          |
| 50 OL-Al+3x70Al+3x16Al         | 990                                                                            | 70/12 OL-Al+3x95Al             | 1310                                                                          |
| 50 OL-Al+3x70Al+1x25Al         | 1024                                                                           | 70/12 OL-Al +3x95Al+1x16RUA1   | 1371                                                                          |
| 50 OL-Al+3x70Al+2x25Al         | 1119                                                                           | 70/12 OL-Al +3x95Al+1x25Al     | 1406                                                                          |
| 50 OL-Al+3x70Al+3x25Al         | 1195                                                                           | 70/12 OL-Al +3x95Al+2x25Al     | 1502                                                                          |
| 50 OL-Al+3x70Al+1x35Al         | 1061                                                                           |                                |                                                                               |
| 50 OL-Al+3x70Al+2x35Al         | 1195                                                                           | 95 OL-Al+3x95Al+2x16RUA1       | 1550                                                                          |
| 50OL-Al+3x70Al+50Al            | 1110                                                                           | 95 OL-Al+3x95Al+1x35Al         | 1556                                                                          |
| 50OL-Al+3x70Al+70Al            | 1170                                                                           | 95 OL-Al+3x95Al+2x25Al         | 1622                                                                          |