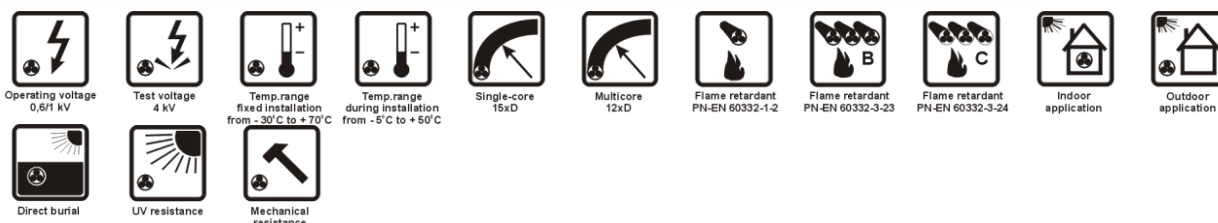
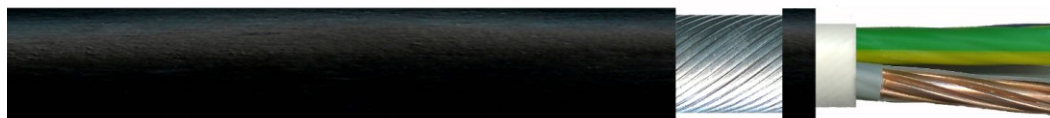


**YKXSfoynžo 0,6/1 kV, YKXSfoyn 0,6/1 kV****XLPE INSULATED AND SHEATHED, STEEL WIRE ARMoured AND PVC OVERSHEATHED POWER CABLES****APPLICATIONS**

**YKXSfoynžo 0,6/1 kV** and **YKXSfoyn 0,6/1 kV** armoured power cables are designed for electric power transmission. They are also applied in power circuits in industrial plants and power stations and in local distribution networks.

The cables are suitable for indoor and outdoor installations, for laying in cable ducts and for direct earth burial.

Improved electrical properties, small dimensions and weight compared to the cables with PVC insulation is achieved using cross-linked polyethylene insulation.

Galvanized steel wire armour provides carrying an axial load of the cable during installation and exploitation. It also offers enhanced protection against mechanical damages and rodent attack, as well as shielding properties.

The cable sheath is then made of special self-extinguishing PVC of reduced combustibility and pass combustibility test according to EN 60332-3 standard.

**CONSTRUCTION**

- bare annealed copper conductors meeting requirements of PN-EN 60228 standard:
  - RE** - class 1 circular single-wire,
  - RM** - class 2 circular multi-wire,
  - SM** - class 2 sector shaped multi-wire.
- cross-linked polyethylene (XLPE) insulation - colours in accordance with PN-HD 308 standard, green-yellow protective conductor in **YKXSfoynžo 0,6/1 kV** cable,
- insulated conductors laid-up in a cable core,
- PVC cable sheath,
- galvanized steel wire armour,
- black PVC cable covering, other colours also available.

**AVAILABLE UPON REQUEST**

**YKXSfoynžo-O 0,6/1 kV** and **YKXSfoyn-O 0,6/1 kV** - cables designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled. The cable sheath is then made of special PVC compound meeting oil resistance requirements of Polish standard PN-EN 60811-404.

**XnKXSfoynžo 0,6/1 kV** and **XnKXSfoyn 0,6/1 kV** - halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

# YKXSFOynžo 0,6/1 kV, YKXSFOyn 0,6/1 kV

## CHARACTERISTICS

|                                     |           |                        |                                           |
|-------------------------------------|-----------|------------------------|-------------------------------------------|
| Operating voltage U <sub>0</sub> /U | 0.6/1 kV  | Temperature range      |                                           |
| Voltage test                        | 4 kV rms  | during operation       | from - 30 to + 70°C                       |
| Insulation resistance, minimum      | 100 MΩ·km | during installation    | from - 5 to + 50°C                        |
| Conductor temperature limit         |           | Minimum bending radius |                                           |
| in work conditions                  | + 90°C    | single wire cables     | 15 x cable diameter                       |
| in short-circuit                    | + 250°C   | multi wire cables      | 12 x cable diameter                       |
|                                     |           | Cable combustibility   | flame retardant                           |
|                                     |           | Combustibility tests   | PN-EN 60332-1-2, IEC 60332-1-2            |
|                                     |           | ≥ 25 mm <sup>2</sup>   | PN-EN 60332-3-23, IEC 60332-3-23 (cat. B) |
|                                     |           | < 25 mm <sup>2</sup>   | PN-EN 60332-3-24, IEC 60332-3-24 (cat. C) |
|                                     |           | Reference standards    | IEC 60502-1, PN-HD 603 S1                 |

CE = the cable meets requirements of the low voltage directive 2014/35/EU

| Product No.         | Number of conductors x conductor cross-section | Cable outer diameter (appr.) | DC conductor resistance at 20°C, maximum | Copper index | Cable weight (appr.) |
|---------------------|------------------------------------------------|------------------------------|------------------------------------------|--------------|----------------------|
|                     | mm <sup>2</sup>                                | mm                           | Ω/km                                     | kg/km        | kg/km                |
| YKXSFOyn 0,6/1 kV   |                                                |                              |                                          |              |                      |
| 1802 002            | 2x1 RE                                         | 11.0                         | 18.1                                     | 19.2         | 266                  |
| 1802 003            | 2x1,5 RE                                       | 11.5                         | 12.1                                     | 28.8         | 295                  |
| 1802 004            | 2x2,5 RE                                       | 12.3                         | 7.41                                     | 48.0         | 345                  |
| 1802 005            | 2x4 RE                                         | 13.2                         | 4.61                                     | 76.8         | 406                  |
| 1802 001            | 2x6 RE                                         | 14.2                         | 3.08                                     | 115.2        | 480                  |
| 1802 006            | 2x10 RE                                        | 16.0                         | 1.83                                     | 192.0        | 630                  |
| 1802 007            | 2x16 RE                                        | 17.8                         | 1.15                                     | 307.2        | 815                  |
| 1802 008            | 2x25 RM                                        | 22.4                         | 0.727                                    | 480.0        | 1316                 |
| 1802 009            | 2x35 RM                                        | 25.2                         | 0.524                                    | 672.0        | 1665                 |
| YKXSFOynžo 0,6/1 kV |                                                |                              |                                          |              |                      |
| 1617 014            | 3x1 RE                                         | 11.4                         | 18.1                                     | 28.8         | 290                  |
| 1617 015            | 3x1,5 RE                                       | 11.9                         | 12.1                                     | 43.2         | 318                  |
| 1617 006            | 3x2,5 RE                                       | 12.7                         | 7.41                                     | 72.0         | 374                  |
| 1617 002            | 3x4 RE                                         | 13.7                         | 4.61                                     | 115.2        | 450                  |
| 1617 003            | 3x6 RE                                         | 14.8                         | 3.08                                     | 172.8        | 546                  |
| 1617 016            | 3x10 RE                                        | 16.7                         | 1.83                                     | 288.0        | 729                  |
| 1617 004            | 3x16 RE                                        | 18.7                         | 1.15                                     | 460.8        | 969                  |
| 1617 010            | 3x25 RM                                        | 23.8                         | 0.727                                    | 720.0        | 1573                 |
| 1617 012            | 3x35 RM                                        | 26.8                         | 0.524                                    | 1008.0       | 2009                 |
| 1617 017            | 3x50 SM                                        | 27.3                         | 0.387                                    | 1440.0       | 2533                 |
| 1617 018            | 3x70 SM                                        | 32.2                         | 0.268                                    | 2016.0       | 3246                 |
| 1617 019            | 3x95 SM                                        | 35.9                         | 0.193                                    | 2736.0       | 4251                 |
| 1617 020            | 3x120 SM                                       | 40.3                         | 0.153                                    | 3456.0       | 5324                 |
| 1617 021            | 3x150 SM                                       | 44.7                         | 0.124                                    | 4320.0       | 6526                 |
| 1617 022            | 3x185 SM                                       | 50.5                         | 0.0991                                   | 5328.0       | 8396                 |
| 1617 023            | 3x240 SM                                       | 55.9                         | 0.0754                                   | 6912.0       | 10481                |
| YKXSFOynžo 0,6/1 kV |                                                |                              |                                          |              |                      |
| 1617 024            | 4x1 RE                                         | 12.0                         | 18.1                                     | 38.4         | 319                  |
| 1617 025            | 4x1,5 RE                                       | 12.6                         | 12.1                                     | 57.6         | 358                  |
| 1617 001            | 4x2,5 RE                                       | 13.5                         | 7.41                                     | 96.0         | 425                  |
| 1617 026            | 4x4 RE                                         | 14.6                         | 4.61                                     | 153.6        | 516                  |

| Product No.         | Number of conductors x conductor cross-section | Cable outer diameter (appr.) | DC conductor resistance at 20°C, maximum | Copper index | Cable weight (appr.) |
|---------------------|------------------------------------------------|------------------------------|------------------------------------------|--------------|----------------------|
|                     | mm <sup>2</sup>                                | mm                           | Ω/km                                     | kg/km        | kg/km                |
| 1617 027            | 4x6 RE                                         | 16.0                         | 3.08                                     | 230.4        | 645                  |
| 1617 028            | 4x10 RE                                        | 17.9                         | 1.83                                     | 384.0        | 860                  |
| 1617 029            | 4x16 RE                                        | 21.0                         | 1.15                                     | 614.4        | 1306                 |
| 1617 030            | 4x25 RM                                        | 25.7                         | 0.727                                    | 960.0        | 1874                 |
| 1617 031            | 4x35 RM                                        | 29.0                         | 0.524                                    | 1344.0       | 2427                 |
| 1617 032            | 4x50 SM                                        | 30.4                         | 0.387                                    | 1920.0       | 3274                 |
| 1617 033            | 4x70 SM                                        | 35.1                         | 0.268                                    | 2688.0       | 3966                 |
| 1617 034            | 4x95 SM                                        | 40.3                         | 0.193                                    | 3648.0       | 5567                 |
| 1617 035            | 4x120 SM                                       | 44.5                         | 0.153                                    | 4608.0       | 6613                 |
| 1617 036            | 4x150 SM                                       | 49.1                         | 0.124                                    | 5760.0       | 8041                 |
| 1617 037            | 4x185 SM                                       | 55.8                         | 0.0991                                   | 7104.0       | 10432                |
| 1617 038            | 4x240 SM                                       | 61.3                         | 0.0754                                   | 9216.0       | 12943                |
| YKXSFOynžo 0,6/1 kV |                                                |                              |                                          |              |                      |
| 1617 039            | 5x1 RE                                         | 12.6                         | 18.1                                     | 48.0         | 351                  |
| 1617 040            | 5x1,5 RE                                       | 13.3                         | 12.1                                     | 72.0         | 397                  |
| 1617 041            | 5x2,5 RE                                       | 14.3                         | 7.41                                     | 120.0        | 474                  |
| 1617 042            | 5x4 RE                                         | 15.8                         | 4.61                                     | 192.0        | 601                  |
| 1617 007            | 5x6 RE                                         | 17.1                         | 3.08                                     | 288.0        | 736                  |
| 1617 008            | 5x10 RE                                        | 19.5                         | 1.83                                     | 480.0        | 1015                 |
| 1617 009            | 5x16 RE                                        | 22.6                         | 1.15                                     | 768.0        | 1515                 |
| 1617 011            | 5x25 RM                                        | 28.1                         | 0.727                                    | 1200.0       | 2219                 |
| 1617 013            | 5x35 RM                                        | 32.2                         | 0.524                                    | 1680.0       | 3042                 |
| 1617 043            | 5x50 SM                                        | 33.6                         | 0.387                                    | 2400.0       | 3937                 |
| 1617 044            | 5x70 SM                                        | 38.8                         | 0.268                                    | 3360.0       | 4779                 |
| 1617 045            | 5x95 SM                                        | 44.4                         | 0.193                                    | 4560.0       | 6719                 |
| 1617 046            | 5x120 SM                                       | 48.7                         | 0.153                                    | 5760.0       | 7911                 |
| 1617 047            | 5x150 SM                                       | 55.2                         | 0.124                                    | 7200.0       | 10257                |
| 1617 048            | 5x185 SM                                       | 61.1                         | 0.0991                                   | 8880.0       | 12444                |
| 1617 049            | 5x240 SM                                       | 68.5                         | 0.0754                                   | 11520.0      | 16369                |

Other cross-sections and conductor counts available on request.  
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.