

**YKSXSftyżo-Nr 0,6/1 kV, YKSXSfty-Nr 0,6/1 kV****XLPE INSULATED AND PVC SHEATHED, STEEL TAPE ARMoured AND PVC OVERSHEATHED CONTROL CABLES**Operating voltage  
0,6/1 kVTest voltage  
4 kVTemp. range  
fixed installation  
from -30°C to +70°CTemp. range  
during installation  
from -5°C to +50°CMulticore  
12xDFlame retardant  
PN-EN 60332-1-2Indoor  
applicationOutdoor  
application

Direct burial



UV resistance

Mechanical  
resistance**APPLICATIONS**

**YKSXSftyżo-Nr 0,6/1 kV** and **YKSXSfty-Nr 0,6/1 kV** armoured control cables are designed for control, protection and monitoring systems in power engineering, also for electric power distribution.

The cables are suitable for industrial applications, such as production plants or air-conditioning systems operating in dry and wet locations, also for outdoor installations, in cable ducts or 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.

Steel tape armour offers enhanced protection against mechanical damages and rodent attack, it has also shielding properties.

**CONSTRUCTION**

- bare annealed copper conductors meeting requirements of class 1 per PN-EN 60228 standard,
- black cross-linked polyethylene (XLPE) insulation and white conductor number printed on it; a green-yellow protective conductor in the outer layer in **YKSXSftyżo-Nr 0,6/1 kV** cable,
- insulated conductors laid-up in a cable core,
- PVC cable sheath,
- galvanized steel tape armour,
- black PVC cable covering, other colours also available.

**AVAILABLE UPON REQUEST**

**YKSXSftyżo-Nr-O 0,6/1 kV** and **YKSXSfty-Nr-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.

**XnKSXSftxnżo-Nr 0,6/1 kV** and **XnKSXSftxn-Nr 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.

# YKSXSftyżo-Nr 0,6/1 kV, YKSXSfty-Nr 0,6/1 kV

## CHARACTERISTICS

| Conductor cross-section                  | mm <sup>2</sup> | 1    | 1,5  | 2,5  | 4    | 6    | 10   | 16   |
|------------------------------------------|-----------------|------|------|------|------|------|------|------|
| DC conductor resistance at 20°C, maximum | Ω/km            | 18.1 | 12.1 | 7.41 | 4.61 | 3.08 | 1.83 | 1.15 |

|                                                |           |                                       |                                |
|------------------------------------------------|-----------|---------------------------------------|--------------------------------|
| Operating voltage U <sub>0</sub> /U            | 0.6/1 kV  | Temperature range during operation    | from - 30 to + 70°C            |
| Voltage test                                   | 4 kV rms  | Temperature range during installation | from - 5 to + 50°C             |
| Insulation resistance, minimum                 | 100 MΩ·km | Minimum bending radius                | 12 x cable diameter            |
| Conductor temperature limit in work conditions | + 90°C    | Cable combustibility                  | flame retardant                |
| Conductor temperature limit in short-circuit   | + 250°C   | Combustibility tests                  | PN-EN 60332-1-2, IEC 60332-1-2 |
|                                                |           | 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.) | Copper index | Cable weight (appr.) |
|------------------------|------------------------------------------------|------------------------------|--------------|----------------------|
|                        | mm <sup>2</sup>                                | mm                           | kg/km        | kg/km                |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 001               | 7 x 1                                          | 12.3                         | 67.2         | 278                  |
| 1362 015               | 10 x 1                                         | 14.6                         | 96.0         | 366                  |
| 1362 016               | 12 x 1                                         | 15.0                         | 115.2        | 395                  |
| 1362 017               | 14 x 1                                         | 15.8                         | 134.4        | 438                  |
| 1362 018               | 16 x 1                                         | 16.5                         | 153.6        | 479                  |
| 1362 019               | 19 x 1                                         | 17.2                         | 182.4        | 526                  |
| 1362 020               | 24 x 1                                         | 19.7                         | 230.4        | 648                  |
| 1362 021               | 30 x 1                                         | 20.6                         | 288.0        | 734                  |
| 1362 022               | 37 x 1                                         | 22.0                         | 355.2        | 846                  |
| 1362 023               | 48 x 1                                         | 24.8                         | 460.8        | 1045                 |
| 1362 024               | 61 x 1                                         | 27.0                         | 585.6        | 1253                 |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 003               | 7 x 1,5                                        | 13.1                         | 100.8        | 330                  |
| 1362 025               | 10 x 1,5                                       | 15.8                         | 144.0        | 445                  |
| 1362 026               | 12 x 1,5                                       | 16.2                         | 172.8        | 483                  |
| 1362 008               | 14 x 1,5                                       | 16.9                         | 201.6        | 530                  |
| 1362 027               | 16 x 1,5                                       | 17.6                         | 230.4        | 580                  |
| 1362 009               | 19 x 1,5                                       | 18.4                         | 273.6        | 643                  |
| 1362 010               | 24 x 1,5                                       | 21.1                         | 345.6        | 796                  |
| 1362 013               | 30 x 1,5                                       | 22.2                         | 432.0        | 915                  |
| 1362 011               | 37 x 1,5                                       | 23.9                         | 532.8        | 1073                 |
| 1362 028               | 48 x 1,5                                       | 27.1                         | 691.2        | 1337                 |
| 1362 029               | 61 x 1,5                                       | 29.2                         | 878.4        | 1597                 |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 012               | 7 x 2,5                                        | 14.2                         | 168.0        | 417                  |
| 1362 006               | 10 x 2,5                                       | 17.3                         | 240.0        | 572                  |

| Product No.            | Number of conductors x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|------------------------|------------------------------------------------|------------------------------|--------------|----------------------|
|                        | mm <sup>2</sup>                                | mm                           | kg/km        | kg/km                |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 030               | 12 x 2,5                                       | 17.8                         | 288.0        | 629                  |
| 1362 002               | 14 x 2,5                                       | 18.6                         | 336.0        | 696                  |
| 1362 031               | 16 x 2,5                                       | 19.6                         | 384.0        | 776                  |
| 1362 032               | 19 x 2,5                                       | 20.5                         | 456.0        | 868                  |
| 1362 014               | 24 x 2,5                                       | 23.6                         | 576.0        | 1078                 |
| 1362 033               | 30 x 2,5                                       | 24.8                         | 720.0        | 1252                 |
| 1362 034               | 37 x 2,5                                       | 26.5                         | 888.0        | 1466                 |
| 1362 035               | 48 x 2,5                                       | 30.1                         | 1152.0       | 1841                 |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 004               | 7 x 4                                          | 15.8                         | 268.8        | 555                  |
| 1362 005               | 10 x 4                                         | 19.4                         | 384.0        | 769                  |
| 1362 036               | 12 x 4                                         | 19.9                         | 460.8        | 852                  |
| 1362 007               | 14 x 4                                         | 20.8                         | 537.6        | 948                  |
| 1362 037               | 16 x 4                                         | 21.8                         | 614.4        | 1052                 |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 038               | 7 x 6                                          | 17.3                         | 403.2        | 718                  |
| 1362 039               | 10 x 6                                         | 21.4                         | 576.0        | 1002                 |
| 1362 040               | 12 x 6                                         | 22.0                         | 691.2        | 1122                 |
| 1362 041               | 14 x 6                                         | 23.2                         | 806.4        | 1266                 |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 042               | 7 x 10                                         | 19.9                         | 672.0        | 1045                 |
| 1362 043               | 10 x 10                                        | 24.8                         | 960.0        | 1469                 |
| YKSXSftyżo-Nr 0,6/1 kV |                                                |                              |              |                      |
| 1362 044               | 7 x 16                                         | 22.6                         | 1075.2       | 1487                 |
| 1362 045               | 10 x 16                                        | 28.6                         | 1536.0       | 2118                 |

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.