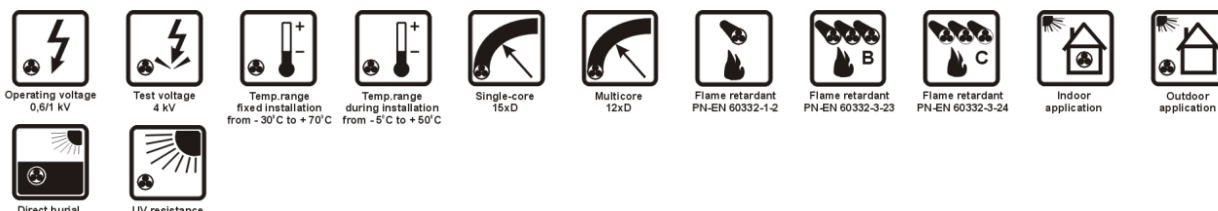


**YnKYžo 0,6/1 kV, YnKY 0,6/1 kV****PVC INSULATED AND SHEATHED POWER CABLES****APPLICATIONS**

**YnKYžo 0,6/1 kV** and **YnKY 0,6/1 kV** 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.

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,
- PVC insulation - colours in accordance with PN-HD 308 standard, green-yellow protective conductor in **YnKYžo 0,6/1 kV** cable,
- insulated conductors laid-up in a cable core,
- black PVC special self-extinguishing PVC cable sheath, other colours also available.

**AVAILABLE UPON REQUEST**

**YKYžo-O 0,6/1 kV** and **YKY-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.

**XnKXSžo 0,6/1 kV** and **XnKXS 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.

**Steel wire** or **steel tape armoured cables** as above applied in locations where enhanced protection against mechanical damages is required.

## YnKYžo 0,6/1 kV, YnKY 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      | 20 MΩ·km | during installation    | from - 5 to + 50°C                          |
| Conductor temperature limit         |          | Minimum bending radius |                                             |
| in work conditions                  | + 70°C   | single wire cables     | 15 x cable diameter                         |
| in short-circuit                    | + 160°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-93/E-90401,<br>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                |
| YnKY 0,6/1 kV   |                                                |                              |                                          |              |                      |
| 0680 060        | 1x1 RE                                         | 4.9                          | 18.1                                     | 9.6          | 39                   |
| 0680 049        | 1x1,5 RE                                       | 5.2                          | 12.1                                     | 14.4         | 46                   |
| 0680 050        | 1x2,5 RE                                       | 5.5                          | 7.41                                     | 24.0         | 58                   |
| 0680 051        | 1x4 RE                                         | 6.4                          | 4.61                                     | 38.4         | 81                   |
| 0680 052        | 1x6 RE                                         | 6.9                          | 3.08                                     | 57.6         | 104                  |
| 0680 053        | 1x10 RE                                        | 7.7                          | 1.83                                     | 96.0         | 147                  |
| 0680 054        | 1x16 RE                                        | 8.6                          | 1.15                                     | 153.6        | 207                  |
| 0680 055        | 1x25 RM                                        | 10.6                         | 0.727                                    | 240.0        | 311                  |
| 0680 022        | 1x35 RM                                        | 11.6                         | 0.524                                    | 336.0        | 406                  |
| 0680 035        | 1x50 RM                                        | 13.4                         | 0.387                                    | 480.0        | 551                  |
| 0680 040        | 1x70 RM                                        | 15.0                         | 0.268                                    | 672.0        | 752                  |
| 0680 048        | 1x95 RM                                        | 17.3                         | 0.193                                    | 912.0        | 1068                 |
| 0680 036        | 1x120 RM                                       | 19.0                         | 0.153                                    | 1152.0       | 1271                 |
| 0680 028        | 1x150 RM                                       | 20.9                         | 0.124                                    | 1440.0       | 1579                 |
| 0680 013        | 1x185 RM                                       | 23.3                         | 0.0991                                   | 1776.0       | 1967                 |
| 0680 030        | 1x240 RM                                       | 26.1                         | 0.0754                                   | 2304.0       | 2554                 |
| 0680 057        | 1x300 RM                                       | 28.5                         | 0.0601                                   | 2880.0       | 3117                 |
| 0680 058        | 1x400 RM                                       | 31.7                         | 0.0470                                   | 3840.0       | 4213                 |
| 0680 059        | 1x500 RM                                       | 35.1                         | 0.0366                                   | 4800.0       | 5251                 |
| YnKY 0,6/1 kV   |                                                |                              |                                          |              |                      |
| 0680 016        | 2x1 RE                                         | 7.9                          | 18.1                                     | 19.2         | 96                   |
| 0680 027        | 2x1,5 RE                                       | 8.4                          | 12.1                                     | 28.8         | 113                  |
| 0680 004        | 2x2,5 RE                                       | 9.2                          | 7.41                                     | 48.0         | 144                  |
| 0680 005        | 2x4 RE                                         | 10.9                         | 4.61                                     | 76.8         | 209                  |
| 0680 019        | 2x6 RE                                         | 11.9                         | 3.08                                     | 115.2        | 265                  |
| 0680 006        | 2x10 RE                                        | 14.0                         | 1.83                                     | 192.0        | 399                  |
| 0680 041        | 2x16 RE                                        | 15.8                         | 1.15                                     | 307.2        | 552                  |
| 0680 021        | 2x25 RM                                        | 19.7                         | 0.727                                    | 480.0        | 846                  |
| 0680 056        | 2x35 RM                                        | 21.8                         | 0.524                                    | 672.0        | 1092                 |
| YnKYžo 0,6/1 kV |                                                |                              |                                          |              |                      |
| 0649 020        | 3x1 RE                                         | 8.3                          | 18.1                                     | 28.8         | 110                  |
| 0649 005        | 3x1,5 RE                                       | 8.8                          | 12.1                                     | 43.2         | 132                  |
| 0649 001        | 3x2,5 RE                                       | 9.6                          | 7.41                                     | 72.0         | 170                  |
| 0649 009        | 3x4 RE                                         | 11.5                         | 4.61                                     | 115.2        | 252                  |
| 0649 002        | 3x6 RE                                         | 12.6                         | 3.08                                     | 172.8        | 326                  |
| 0649 022        | 3x10 RE                                        | 14.8                         | 1.83                                     | 288.0        | 495                  |
| 0649 023        | 3x16 RE                                        | 16.7                         | 1.15                                     | 460.8        | 697                  |
| 0649 040        | 3x25 RM                                        | 21.0                         | 0.727                                    | 720.0        | 1073                 |
| 0649 057        | 3x35 RM                                        | 23.5                         | 0.524                                    | 1008.0       | 1414                 |
| 0649 058        | 3x50 SM                                        | 24.8                         | 0.387                                    | 1440.0       | 1908                 |
| 0649 064        | 3x70 SM                                        | 28.2                         | 0.268                                    | 2016.0       | 2352                 |

| 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                |
| 0649 059        | 3x95 SM                                        | 33.2                         | 0.193                                    | 2736.0       | 3363                 |
| 0649 060        | 3x120 SM                                       | 36.2                         | 0.153                                    | 3456.0       | 3997                 |
| 0649 061        | 3x150 SM                                       | 40.3                         | 0.124                                    | 4320.0       | 4989                 |
| 0649 062        | 3x185 SM                                       | 45.0                         | 0.0991                                   | 5328.0       | 6220                 |
| 0649 063        | 3x240 SM                                       | 50.5                         | 0.0754                                   | 6912.0       | 8052                 |
| YnKYžo 0,6/1 kV |                                                |                              |                                          |              |                      |
| 0649 034        | 4x1 RE                                         | 8.9                          | 18.1                                     | 38.4         | 129                  |
| 0649 012        | 4x1,5 RE                                       | 9.5                          | 12.1                                     | 57.6         | 157                  |
| 0649 007        | 4x2,5 RE                                       | 10.4                         | 7.41                                     | 96.0         | 205                  |
| 0649 016        | 4x4 RE                                         | 12.5                         | 4.61                                     | 153.6        | 309                  |
| 0649 013        | 4x6 RE                                         | 13.7                         | 3.08                                     | 230.4        | 403                  |
| 0649 017        | 4x10 RE                                        | 16.1                         | 1.83                                     | 384.0        | 615                  |
| 0649 019        | 4x16 RE                                        | 18.3                         | 1.15                                     | 614.4        | 877                  |
| 0649 021        | 4x25 RM                                        | 23.3                         | 0.727                                    | 960.0        | 1365                 |
| 0649 018        | 4x35 RM                                        | 26.0                         | 0.524                                    | 1344.0       | 1798                 |
| 0649 065        | 4x50 SM                                        | 27.6                         | 0.387                                    | 1920.0       | 2437                 |
| 0649 066        | 4x70 SM                                        | 31.4                         | 0.268                                    | 2688.0       | 3011                 |
| 0649 042        | 4x95 SM                                        | 36.9                         | 0.193                                    | 3648.0       | 4313                 |
| 0649 044        | 4x120 SM                                       | 40.2                         | 0.153                                    | 4608.0       | 5120                 |
| 0649 067        | 4x150 SM                                       | 44.9                         | 0.124                                    | 5760.0       | 6415                 |
| 0649 068        | 4x185 SM                                       | 50.1                         | 0.0991                                   | 7104.0       | 8001                 |
| 0649 069        | 4x240 SM                                       | 56.3                         | 0.0754                                   | 9216.0       | 10371                |
| YnKYžo 0,6/1 kV |                                                |                              |                                          |              |                      |
| 0649 070        | 5x1 RE                                         | 9.6                          | 18.1                                     | 48.0         | 153                  |
| 0649 006        | 5x1,5 RE                                       | 10.3                         | 12.1                                     | 72.0         | 188                  |
| 0649 008        | 5x2,5 RE                                       | 11.3                         | 7.41                                     | 120.0        | 249                  |
| 0649 003        | 5x4 RE                                         | 13.6                         | 4.61                                     | 192.0        | 372                  |
| 0649 010        | 5x6 RE                                         | 15.0                         | 3.08                                     | 288.0        | 489                  |
| 0649 004        | 5x10 RE                                        | 17.6                         | 1.83                                     | 480.0        | 746                  |
| 0649 011        | 5x16 RE                                        | 20.1                         | 1.15                                     | 768.0        | 1071                 |
| 0649 014        | 5x25 RM                                        | 25.8                         | 0.727                                    | 1200.0       | 1679                 |
| 0649 015        | 5x35 RM                                        | 28.8                         | 0.524                                    | 1680.0       | 2215                 |
| 0649 043        | 5x50 SM                                        | 30.5                         | 0.387                                    | 2400.0       | 3002                 |
| 0649 046        | 5x70 SM                                        | 35.3                         | 0.268                                    | 3360.0       | 3772                 |
| 0649 045        | 5x95 SM                                        | 41.0                         | 0.193                                    | 4560.0       | 5342                 |
| 0649 049        | 5x120 SM                                       | 44.7                         | 0.153                                    | 5760.0       | 6341                 |
| 0649 047        | 5x150 SM                                       | 50.0                         | 0.124                                    | 7200.0       | 7948                 |
| 0649 048        | 5x185 SM                                       | 55.8                         | 0.0991                                   | 8880.0       | 9909                 |
| 0649 052        | 5x240 SM                                       | 62.6                         | 0.0754                                   | 11520.0      | 12839                |

Other cross-sections and conductor counts available on request.

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