

**TECHNOKONTROL YKSLY-P 300/500 V**  
**TECHNOKONTROL YKSLY-P-Nr 300/500 V****CONTROL AND POWER SUPPLY FLEXIBLE CABLES**Operating voltage  
300/500 VTest voltage  
3 kVTemp. range  
fixed installation  
from -30°C to +80°CTemp. range  
during installation  
from -5°C to +70°CBending radius  
7,5xDHigh  
flexibilityFlame retardant  
PN-EN 60332-1-2Indoor  
application**APPLICATIONS**

**TECHNOKONTROL YKSLY-P 300/500 V** and **TECHNOKONTROL YKSLY-P-Nr 300/500 V** are multipair flexible cables designed for control, protection and monitoring systems or power supply, all in power engineering. Paired structure decreases mutual influence between signals transmitted along the cable and reduces influence of outer sources of interference.

The cables are designed to offer high flexibility combined with tensile strength.

The cables are suitable for indoor installations connecting fixed and movable equipment.

Cable outer sheath is oil-resistant.

**CONSTRUCTION**

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- PVC insulation - identification colour code according to PN-92/T-90321 (compatible with IEC 60189-2) in **TECHNOKONTROL YKSLY-P 300/500 V** cable; black and brown PVC insulation and white pair numbers printed on it for identification in **TECHNOKONTROL YKSLY-P-Nr 300/500 V** cable,
- insulated conductors twisted into pairs,
- pairs laid-up in layers,
- cable core wrapped in polyester tape,
- black (RAL 9005) PVC cable sheath, other colours also available.

**AVAILABLE UPON REQUEST**

**TECHNOKONTROL YKSLY-P-O 300/500 V** and **TECHNOKONTROL YKSLY-P-Nr-O 300/500 V** - 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.

**TECHNOKONTROL YnKSLY-P 300/500 V** and **TECHNOKONTROL YnKSLY-P-Nr 300/500 V** - cables of reduced combustibility, sheathed with special self-extinguishing PVC of high oxygen index and pass combustibility test according to PN-EN 60332-3 standard.

**TECHNOKONTROL HKSLH-P 300/500 V** and **TECHNOKONTROL HKSLH-P-Nr 300/500 V** - 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.

**TECHNOKONTROL YvKSLY-P 300/500 V** and **TECHNOKONTROL YvKSLY-P-Nr 300/500 V** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

# **TECHNOKONTROL YKSLY-P 300/500 V** **TECHNOKONTROL YKSLY-P-Nr 300/500 V**

## **CHARACTERISTICS**

|                                     |                 |            |             |            |            |            |
|-------------------------------------|-----------------|------------|-------------|------------|------------|------------|
| Conductor cross-section             | mm <sup>2</sup> | <b>0.5</b> | <b>0.75</b> | <b>1.0</b> | <b>1.5</b> | <b>2.5</b> |
| DC loop resistance at 20°C, maximum | Ω/km            | 78.0       | 52.0        | 39.0       | 26.6       | 16.0       |

|                                     |            |                             |                                |
|-------------------------------------|------------|-----------------------------|--------------------------------|
| Operating voltage U <sub>0</sub> /U | 300/500 V  | Operating temperature range |                                |
| Voltage test                        | 3.0 kV rms | for fixed installation      | from - 30 to + 80°C            |
| Insulation resistance, minimum      | 20 MΩ·km   | for movable installation    | from - 5 to + 70°C             |
| Conductor temperature limit         |            | Minimum bending radius      | 7.5 x cable diameter           |
| in work conditions                  | + 70°C     | Cable combustibility        | flame retardant                |
| at short-circuit                    | + 150°C    | Combustibility tests        | PN-EN 60332-1-2, IEC 60332-1-2 |
|                                     |            | Reference standards         | WT-TK-17                       |

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

| Product No. | Number of pairs (x 2) x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-------------|-------------------------------------------------|------------------------------|--------------|----------------------|
|             | mm <sup>2</sup>                                 | mm                           | kg/km        | kg/km                |
| 0291 001    | 2 x 2 x 0,5                                     | 7.0                          | 19.2         | 53                   |
| 0291 002    | 3 x 2 x 0,5                                     | 7.4                          | 28.8         | 63                   |
| 0291 003    | 4 x 2 x 0,5                                     | 8.2                          | 38.4         | 79                   |
| 0291 009    | 5 x 2 x 0,5                                     | 9.0                          | 48.0         | 94                   |
| 0291 010    | 6 x 2 x 0,5                                     | 10.2                         | 57.6         | 120                  |
| 0291 011    | 7 x 2 x 0,5                                     | 10.2                         | 67.2         | 133                  |
| 0291 004    | 8 x 2 x 0,5                                     | 10.9                         | 76.8         | 148                  |
| 0291 012    | 10 x 2 x 0,5                                    | 12.6                         | 96.0         | 187                  |
| 0291 013    | 12 x 2 x 0,5                                    | 13.1                         | 115.2        | 214                  |
| 0291 014    | 14 x 2 x 0,5                                    | 14.2                         | 134.4        | 251                  |
| 0291 015    | 16 x 2 x 0,5                                    | 15.1                         | 153.6        | 282                  |
| 0291 016    | 18 x 2 x 0,5                                    | 15.8                         | 172.8        | 311                  |
| 0291 017    | 20 x 2 x 0,5                                    | 16.6                         | 192.0        | 340                  |
| 0291 018    | 24 x 2 x 0,5                                    | 18.0                         | 230.4        | 398                  |
| 0291 019    | 25 x 2 x 0,5                                    | 18.5                         | 240.0        | 422                  |
| 0291 020    | 27 x 2 x 0,5                                    | 19.1                         | 259.2        | 451                  |
| 0291 021    | 30 x 2 x 0,5                                    | 20.0                         | 288.0        | 494                  |
| 0291 022    | 31 x 2 x 0,5                                    | 20.3                         | 297.6        | 508                  |
| 0291 023    | 33 x 2 x 0,5                                    | 20.9                         | 316.8        | 537                  |
| 0291 024    | 2 x 2 x 0,75                                    | 7.6                          | 28.8         | 69                   |
| 0291 025    | 3 x 2 x 0,75                                    | 8.1                          | 43.2         | 80                   |
| 0291 026    | 4 x 2 x 0,75                                    | 8.9                          | 57.6         | 100                  |
| 0291 008    | 5 x 2 x 0,75                                    | 10.2                         | 72.0         | 131                  |
| 0291 027    | 7 x 2 x 0,75                                    | 11.1                         | 100.8        | 169                  |
| 0291 028    | 8 x 2 x 0,75                                    | 12.1                         | 115.2        | 196                  |
| 0291 029    | 10 x 2 x 0,75                                   | 13.7                         | 144.0        | 239                  |
| 0291 030    | 12 x 2 x 0,75                                   | 14.6                         | 172.8        | 284                  |
| 0291 031    | 16 x 2 x 0,75                                   | 16.5                         | 230.4        | 364                  |
| 0291 032    | 18 x 2 x 0,75                                   | 17.3                         | 259.2        | 403                  |
| 0291 033    | 20 x 2 x 0,75                                   | 18.4                         | 288.0        | 452                  |
| 0291 034    | 24 x 2 x 0,75                                   | 19.9                         | 345.6        | 530                  |
| 0291 035    | 25 x 2 x 0,75                                   | 20.2                         | 360.0        | 549                  |
| 0291 036    | 27 x 2 x 0,75                                   | 20.9                         | 388.8        | 587                  |

| Product No. | Number of pairs (x 2) x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-------------|-------------------------------------------------|------------------------------|--------------|----------------------|
|             | mm <sup>2</sup>                                 | mm                           | kg/km        | kg/km                |
| 0291 006    | 2 x 2 x 1,0                                     | 8.2                          | 38.4         | 81                   |
| 0291 037    | 3 x 2 x 1,0                                     | 8.7                          | 57.6         | 97                   |
| 0291 038    | 4 x 2 x 1,0                                     | 10.0                         | 76.8         | 133                  |
| 0291 039    | 5 x 2 x 1,0                                     | 11.0                         | 96.0         | 160                  |
| 0291 040    | 7 x 2 x 1,0                                     | 12.3                         | 134.4        | 215                  |
| 0291 041    | 10 x 2 x 1,0                                    | 15.1                         | 192.0        | 303                  |
| 0291 007    | 12 x 2 x 1,0                                    | 15.8                         | 230.4        | 352                  |
| 0291 042    | 14 x 2 x 1,0                                    | 16.9                         | 268.8        | 402                  |
| 0291 043    | 16 x 2 x 1,0                                    | 17.9                         | 307.2        | 453                  |
| 0291 044    | 18 x 2 x 1,0                                    | 19.0                         | 345.6        | 512                  |
| 0291 045    | 20 x 2 x 1,0                                    | 19.9                         | 384.0        | 562                  |
| 0291 046    | 24 x 2 x 1,0                                    | 21.6                         | 460.8        | 661                  |
| 0291 047    | 2 x 2 x 1,5                                     | 9.2                          | 57.6         | 103                  |
| 0291 048    | 3 x 2 x 1,5                                     | 10.1                         | 86.4         | 138                  |
| 0291 049    | 4 x 2 x 1,5                                     | 11.1                         | 115.2        | 173                  |
| 0291 050    | 5 x 2 x 1,5                                     | 12.5                         | 144.0        | 216                  |
| 0291 051    | 7 x 2 x 1,5                                     | 13.6                         | 201.6        | 284                  |
| 0291 052    | 10 x 2 x 1,5                                    | 16.8                         | 288.0        | 402                  |
| 0291 053    | 12 x 2 x 1,5                                    | 17.6                         | 345.6        | 468                  |
| 0291 054    | 14 x 2 x 1,5                                    | 19.0                         | 403.2        | 547                  |
| 0291 055    | 16 x 2 x 1,5                                    | 20.2                         | 460.8        | 617                  |
| 0291 056    | 20 x 2 x 1,5                                    | 22.3                         | 576.0        | 754                  |
| 0291 057    | 2 x 2 x 2,5                                     | 11.0                         | 96.0         | 158                  |
| 0291 058    | 3 x 2 x 2,5                                     | 11.7                         | 144.0        | 198                  |
| 0291 059    | 4 x 2 x 2,5                                     | 13.1                         | 192.0        | 258                  |
| 0291 060    | 5 x 2 x 2,5                                     | 14.7                         | 240.0        | 321                  |
| 0291 061    | 7 x 2 x 2,5                                     | 16.0                         | 336.0        | 426                  |
| 0291 062    | 10 x 2 x 2,5                                    | 19.7                         | 480.0        | 602                  |
| 0291 005    | 12 x 2 x 2,5                                    | 20.7                         | 576.0        | 704                  |
| 0291 063    | 14 x 2 x 2,5                                    | 22.2                         | 672.0        | 810                  |
| 0291 064    | 16 x 2 x 2,5                                    | 23.7                         | 768.0        | 924                  |

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