

**TECHNOKONTROL YKSLXS-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 YKSLXS-P-Nr 300/500 V** are multipair cables intended for control, protection and monitoring systems, also for 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.

Small mutual capacitance and higher, up to 90°C, operating temperature limit of conductors is offered due to application of cross-linked polyethylene insulation.

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,
- cross-linked polyethylene (XLPE) - insulation identification of pairs: black and brown insulation and white pair numbers printed on it,
- insulated conductors twisted into pairs,
- pairs laid-up in layers into a cable core,
- cable core wrapped in polyester tape,
- black (RAL 9005) PVC cable sheath, other colours also available.

**AVAILABLE UPON REQUEST**

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

# TECHNOKONTROL YKSLXS-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       | 15.96      |
| Mutual capacitance at 1 kHz, approximate | nF/km           | 60         | 65          | 65         | 70         | 75         |

Operating voltage U<sub>o</sub>/U 300/500 V  
Voltage test 3.0 kV rms  
Insulation resistance, minimum 100 MΩ·km  
Inductance, approximate 0.7 mH/km  
Conductor temperature limit  
in work conditions + 90°C  
at short-circuit + 250°C

Operating temperature range  
for fixed installation from - 30 to + 80°C  
for movable installation from - 5 to + 70°C  
Minimum bending radius 7.5 x cable diameter  
Cable combustibility flame retardant  
Combustibility tests PN-EN 60332-1-2, IEC 60332-1-2

**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                |
| 1344 003    | 2 x 2 x 0,5                                     | 7.7                          | 19.2         | 60                   |
| 1344 004    | 3 x 2 x 0,5                                     | 8.2                          | 28.8         | 65                   |
| 1344 005    | 4 x 2 x 0,5                                     | 9.0                          | 38.4         | 80                   |
| 1344 006    | 5 x 2 x 0,5                                     | 10.3                         | 48.0         | 106                  |
| 1344 007    | 6 x 2 x 0,5                                     | 11.2                         | 57.6         | 123                  |
| 1344 008    | 8 x 2 x 0,5                                     | 12.2                         | 76.8         | 157                  |
| 1344 009    | 10 x 2 x 0,5                                    | 13.8                         | 96.0         | 190                  |
| 1344 010    | 12 x 2 x 0,5                                    | 14.7                         | 115.2        | 225                  |
| 1344 011    | 16 x 2 x 0,5                                    | 16.6                         | 153.6        | 285                  |
| 1344 012    | 18 x 2 x 0,5                                    | 17.5                         | 172.8        | 315                  |
| 1344 013    | 24 x 2 x 0,5                                    | 20.1                         | 230.4        | 412                  |
| 1344 014    | 27 x 2 x 0,5                                    | 21.1                         | 259.2        | 455                  |
| 1344 015    | 30 x 2 x 0,5                                    | 22.2                         | 288.0        | 498                  |
| 1344 016    | 31 x 2 x 0,5                                    | 22.7                         | 297.6        | 524                  |
| 1344 017    | 33 x 2 x 0,5                                    | 23.3                         | 316.8        | 552                  |
| 1344 018    | 2 x 2 x 0,75                                    | 8.3                          | 28.8         | 71                   |
| 1344 019    | 3 x 2 x 0,75                                    | 8.8                          | 43.2         | 81                   |
| 1344 020    | 4 x 2 x 0,75                                    | 10.1                         | 57.6         | 111                  |
| 1344 021    | 5 x 2 x 0,75                                    | 11.1                         | 72.0         | 132                  |
| 1344 022    | 8 x 2 x 0,75                                    | 13.2                         | 115.2        | 197                  |
| 1344 023    | 10 x 2 x 0,75                                   | 15.2                         | 144.0        | 248                  |
| 1344 024    | 12 x 2 x 0,75                                   | 15.9                         | 172.8        | 285                  |
| 1344 025    | 16 x 2 x 0,75                                   | 18.0                         | 230.4        | 363                  |
| 1344 026    | 18 x 2 x 0,75                                   | 19.2                         | 259.2        | 412                  |
| 1344 027    | 20 x 2 x 0,75                                   | 20.1                         | 288.0        | 451                  |
| 1344 028    | 25 x 2 x 0,75                                   | 22.2                         | 360.0        | 547                  |
| 1344 029    | 27 x 2 x 0,75                                   | 23.2                         | 388.8        | 596                  |
| 1344 030    | 30 x 2 x 0,75                                   | 24.3                         | 432.0        | 652                  |
| 1344 002    | 2 x 2 x 1,0                                     | 8.9                          | 38.4         | 83                   |
| 1344 031    | 3 x 2 x 1,0                                     | 9.9                          | 57.6         | 108                  |

| 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                |
| 1344 002    | 4 x 2 x 1,0                                     | 10.9                         | 76.8         | 134                  |
| 1344 032    | 5 x 2 x 1,0                                     | 12.2                         | 96.0         | 167                  |
| 1344 033    | 8 x 2 x 1,0                                     | 14.4                         | 153.6        | 250                  |
| 1344 034    | 10 x 2 x 1,0                                    | 16.3                         | 192.0        | 304                  |
| 1344 035    | 12 x 2 x 1,0                                    | 17.1                         | 230.4        | 351                  |
| 1344 036    | 14 x 2 x 1,0                                    | 18.5                         | 268.8        | 410                  |
| 1344 037    | 16 x 2 x 1,0                                    | 19.6                         | 307.2        | 460                  |
| 1344 038    | 20 x 2 x 1,0                                    | 21.7                         | 384.0        | 559                  |
| 1344 039    | 24 x 2 x 1,0                                    | 23.7                         | 460.8        | 667                  |
| 1344 040    | 2 x 2 x 1,5                                     | 10.2                         | 57.6         | 118                  |
| 1344 041    | 3 x 2 x 1,5                                     | 10.9                         | 86.4         | 140                  |
| 1344 042    | 4 x 2 x 1,5                                     | 12.2                         | 115.2        | 181                  |
| 1344 043    | 5 x 2 x 1,5                                     | 13.4                         | 144.0        | 218                  |
| 1344 044    | 6 x 2 x 1,5                                     | 14.8                         | 172.8        | 262                  |
| 1344 045    | 8 x 2 x 1,5                                     | 15.8                         | 230.4        | 329                  |
| 1344 046    | 10 x 2 x 1,5                                    | 18.1                         | 288.0        | 403                  |
| 1344 047    | 12 x 2 x 1,5                                    | 19.1                         | 345.6        | 478                  |
| 1344 048    | 16 x 2 x 1,5                                    | 21.7                         | 460.8        | 616                  |
| 1344 049    | 20 x 2 x 1,5                                    | 24.2                         | 576.0        | 762                  |
| 1344 050    | 2 x 2 x 2,5                                     | 11.7                         | 96.0         | 164                  |
| 1344 051    | 3 x 2 x 2,5                                     | 12.6                         | 144.0        | 205                  |
| 1344 052    | 4 x 2 x 2,5                                     | 13.9                         | 192.0        | 259                  |
| 1344 053    | 5 x 2 x 2,5                                     | 15.6                         | 240.0        | 323                  |
| 1344 054    | 7 x 2 x 2,5                                     | 17.0                         | 336.0        | 426                  |
| 1344 055    | 10 x 2 x 2,5                                    | 21.0                         | 480.0        | 602                  |
| 1344 056    | 12 x 2 x 2,5                                    | 22.0                         | 576.0        | 703                  |
| 1344 057    | 14 x 2 x 2,5                                    | 23.8                         | 672.0        | 817                  |
| 1344 058    | 16 x 2 x 2,5                                    | 25.3                         | 768.0        | 922                  |

Other cross-sections and pair counts available on request.

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