

**YTKSYekw****TELECOMMUNICATION SWITCHBOARD CABLES**Operating voltage  
max 150 VTemp. range  
fixed installation  
from - 30°C to + 80°CTemp. range  
during installation  
from - 5°C to + 50°CBending radius  
10xDFlame retardant  
PN-EN 60332-1-2Indoor  
applicationEMC  
Electromagnetic  
compatibility**APPLICATIONS**

**YTKSYekw** are multipair cables intended for interconnections between switching and transmission equipment, for analogue or digital data transmission in industrial electronics and control applications.

The cables are protected by an overall electrostatic shield against external electric interferences.

The cables are suitable for fixed indoor installations.

**CONSTRUCTION**

- bare annealed copper single wire round conductors of diameter 0.5; 0.6; 0.8 i 1.0 mm,
- PVC insulation - identification colour code according to PN-92/T-90321,
- insulated conductors twisted into pairs,
- pairs laid-up in layers,
- overall electrostatic shield incorporating aluminium-polyester tape and annealed tinned copper single drain wire,
- PVC cable sheath, white RAL 9010, other colours also available.

**AVAILABLE UPON REQUEST**

**HTKSHekw** - 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.

## CHARACTERISTICS

|                                          |       |            |            |            |            |
|------------------------------------------|-------|------------|------------|------------|------------|
| Conductor diameter                       | mm    | <b>0.5</b> | <b>0.6</b> | <b>0.8</b> | <b>1.0</b> |
| DC conductor resistance at 20°C, maximum | Ω/km  | 195.6      | 135.8      | 75.0       | 48.0       |
| Voltage test                             |       |            |            |            |            |
| – AC voltage for 60s                     | V rms | 1000       | 1000       | 1500       | 1500       |
| – DC voltage                             | V     | 1500       | 1500       | 2250       | 2250       |
| Mutual capacitance of pair at 1 kHz      | nF/km |            |            |            |            |
| – maximum                                |       | 120        | 120        | 120        | 120        |
| – average                                |       | 110        | 110        | 100        | 100        |

Operating voltage 150 V  
Insulation resistance, minimum 200 MΩ·km  
Inductance, approximate 0.7 mH/km

Operating temperature range  
during operation from - 30 to + 80°C  
during installation from - 5 to + 50°C  
Minimum bending radius 10 x cable diameter  
Cable combustibility flame retardant  
Combustibility tests PN-EN 60332-1-2, IEC 60332-1-2  
Reference standards PN-92/T-90321, PN-92/T-90320

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

| Product No. | Number of pairs (quads) x conductor diameter | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-------------|----------------------------------------------|------------------------------|--------------|----------------------|
|             | mm                                           | mm                           | kg/km        | kg/km                |
| 0415 001    | 1 x 2 x 0,5                                  | 3.3                          | 5.0          | 16.1                 |
| 0415 018    | 1 x 4 x 0,5                                  | 3.6                          | 8.9          | 23.0                 |
| 0415 002    | 2 x 2 x 0,5                                  | 4.5                          | 8.9          | 26.0                 |
| 0415 003    | 3 x 2 x 0,5                                  | 4.7                          | 12.7         | 31.5                 |
| 0415 004    | 4 x 2 x 0,5                                  | 5.1                          | 16.6         | 38.0                 |
| 0415 005    | 5 x 2 x 0,5                                  | 5.6                          | 20.1         | 45.0                 |
| 0415 006    | 6 x 2 x 0,5                                  | 6.0                          | 24.2         | 51.0                 |
| 0415 007    | 7 x 2 x 0,5                                  | 6.3                          | 27.6         | 61.0                 |
| 0415 008    | 10 x 2 x 0,5                                 | 7.2                          | 39.6         | 75.0                 |
| 0415 009    | 12 x 2 x 0,5                                 | 7.7                          | 47.3         | 90.0                 |
| 0415 010    | 14 x 2 x 0,5                                 | 8.2                          | 55.0         | 101.0                |
| 0415 011    | 21 x 2 x 0,5                                 | 9.6                          | 82.0         | 141.0                |
| 0415 012    | 25 x 2 x 0,5                                 | 10.3                         | 97.0         | 163.0                |
| 0415 051    | 30 x 2 x 0,5                                 | 12.3                         | 114.3        | 210.0                |
| 0415 021    | 1 x 4 x 0,6                                  | 3.9                          | 12.0         | 28.0                 |
| 0415 039    | 3 x 2 x 0,6                                  | 5.1                          | 17.3         | 39.5                 |
| 0415 019    | 5 x 2 x 0,6                                  | 6.1                          | 28.1         | 56.0                 |

| Product No. | Number of pairs (quads) x conductor diameter | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-------------|----------------------------------------------|------------------------------|--------------|----------------------|
|             | mm                                           | mm                           | kg/km        | kg/km                |
| 0415 050    | 10 x 2 x 0,6                                 | 8.1                          | 55.0         | 102.0                |
| 0415 020    | 14 x 2 x 0,6                                 | 9.0                          | 76.0         | 133.0                |
| 0415 022    | 1 x 2 x 0,8                                  | 4.3                          | 10.8         | 28.0                 |
| 0415 034    | 1 x 4 x 0,8                                  | 4.8                          | 20.4         | 42.0                 |
| 0415 023    | 2 x 2 x 0,8                                  | 6.2                          | 20.4         | 48.0                 |
| 0415 024    | 3 x 2 x 0,8                                  | 7.2                          | 30.2         | 68.0                 |
| 0415 025    | 4 x 2 x 0,8                                  | 7.2                          | 39.6         | 77.0                 |
| 0415 026    | 5 x 2 x 0,8                                  | 8.1                          | 49.2         | 95.0                 |
| 0415 027    | 10 x 2 x 0,8                                 | 10.6                         | 97.0         | 168.0                |
| 0415 028    | 12 x 2 x 0,8                                 | 11.7                         | 117.0        | 207.0                |
| 0415 029    | 21 x 2 x 0,8                                 | 14.5                         | 203.0        | 335.0                |
| 0415 030    | 24 x 2 x 0,8                                 | 15.4                         | 232.0        | 375.0                |
| 0415 031    | 30 x 2 x 0,8                                 | 16.9                         | 289.0        | 460.0                |
| 0415 032    | 40 x 2 x 0,8                                 | 19.4                         | 385.0        | 600.0                |
| 0415 035    | 1 x 2 x 1,0                                  | 4.7                          | 16.2         | 34.5                 |
| 0415 036    | 1 x 4 x 1,0                                  | 5.3                          | 31.2         | 55.0                 |

Other cross-sections and pair counts available on request.

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