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CONTROL AND ELECTRONIC CABLES

# YSLY-JZ or YSLY-OZ

## PVC control cable, unscreened

For the electrical connection of components of production machines and machine tools. Shows some resistance to all-purpose mineral oil and is not designed for permanent usage in oil baths. The cable is designed for use in buildings and should be installed with mechanical protection.

### TECHNICAL DATA

**Standard**
based on VDE 0281

**Test Voltage**
4 kV

**Rated Voltage**
300/500 V (Uo/U)

**Bending radius (min.)**
5x Ø der Leitung (feste Verlegung)
7,5x Ø der Leitung (flexible Verlegung)

**Fire properties**
EN 60332-1-2: self-extinguishing and flame retardant

**Core identification**
black with number printing, with one core green-yellow (JZ), without (OZ)

**Temperature range**
Laying temperature: min. 5°C
Conductor temperature: max. 60°C
Short circuit temperature: max. 150°C
Fixed installation: -50°C up to 70°C
Flexible use: -5°C up to 70°C

### DESIGN



| Number of cores x nominal cross-section (mm²) | Max. conductor resistance (Ω/km) | Outer diameter appr. (mm) | Total weight appr. (kg/km) | Standard lengths/packing (m) |
|---|---|---|---|---|
| 2 x 0,5 | 39.0 | 4.8 | 32 | 100 R, 500 SP |
| 3 x 0,5 | 39.0 | 5.1 | 39 | 100 R, 500 SP |
| 4 x 0,5 | 39.0 | 5.5 | 47 | 100 R, 500 SP |
| 5 x 0,5 | 39.0 | 6.0 | 55 | 100 R, 500 SP |
| 7 x 0,5 | 39.0 | 6.7 | 81 | 100 R, 500 SP |
| 10 x 0,5 | 39.0 | 8.4 | 101 | 500 SP, 1000 SP |
| 12 x 0,5 | 39.0 | 8.7 | 115 | 500 SP, 1000 SP |
| 14 x 0,5 | 39.0 | 9.1 | 131 | 500 SP, 1000 SP |
| 16 x 0,5 | 39.0 | 10.3 | 151 | 500 SP, 1000 SP |
| 18 x 0,5 | 39.0 | 10.3 | 166 | 500 SP, 1000 SP |
| 21 x 0,5 | 39.0 | 11.7 | 197 | 500 T, 1000 T |
| 25 x 0,5 | 39.0 | 12.5 | 228 | 500 T, 1000 T |
| 30 x 0,5 | 39.0 | 12.9 | 264 | 500 T, 1000 T |
| 34 x 0,5 | 39.0 | 13.9 | 296 | 500 T, 1000 T |
| 40 x 0,5 | 39.0 | 15.4 | 452 | 500 T, 1000 T |
| 50 x 0,5 | 39.0 | 17.5 | 510 | 500 T, 1000 T |
| 61 x 0,5 | 39.0 | 19.1 | 670 | 500 T, 1000 T |
| 2 x 0,75 | 26.0 | 5.2 | 40 | 50 R, 100 R, 500 SP, 1000 SP |
| 3 x 0,75 | 26.0 | 5.5 | 48 | 500 T, 1000 T |
| 4 x 0,75 | 26.0 | 6.0 | 59 | 500 T, 1000 T |
| 5 x 0,75 | 26.0 | 6.5 | 70 | 100 R, 500 SP |
| 6 x 0,75 | 26.0 | 7.3 | 85 | 500 T, 1000 T |
| 7 x 0,75 | 26.0 | 7.3 | 94 | 500 T, 1000 T |
| 10 x 0,75 | 26.0 | 9.4 | 133 | 500 T, 1000 T |
| 12 x 0,75 | 26.0 | 9.7 | 153 | 500 T, 1000 T |
| 15 x 0,75 | 26.0 | 10.7 | 195 | 500 T, 1000 T |
| 16 x 0,75 | 26.0 | 11.2 | 221 | 500 T, 1000 T |
| 18 x 0,75 | 26.0 | 11.5 | 229 | 500 T, 1000 T |
| 21 x 0,75 | 26.0 | 13.7 | 256 | 500 T, 1000 T |
| 25 x 0,75 | 26.0 | 15.3 | 297 | 500 T, 1000 T |
| 34 x 0,75 | 26.0 | 15.3 | 388 | 500 T, 1000 T |
| 41 x 0,75 | 26.0 | 16.6 | 668 | 500 T, 1000 T |
| 42 x 0,75 | 26.0 | 17.0 | 467 | 500 T, 1000 T |
| 50 x 0,75 | 26.0 | 19.8 | 730 | 500 T, 1000 T |
| 61 x 0,75 | 26.0 | 21.2 | 890 | 500 T, 1000 T |
| 80 x 0,75 | 26.0 | 26.0 | 1165 | 500 T, 1000 T |
| 2 x 1 | 19.5 | 5.6 | 47 | 500 T, 1000 T |
| 3 x 1 | 19.5 | 5.9 | 58 | 500 T, 1000 T |
| 4 x 1 | 19.5 | 6.5 | 71 | 500 T, 1000 T |
| 5 x 1 | 19.5 | 7.3 | 88 | 500 T, 1000 T |
| 7 x 1 | 19.5 | 7.9 | 113 | 500 T, 1000 T |
| 10 x 1 | 19.5 | 10.2 | 160 | 500 T, 1000 T |
| 12 x 1 | 19.5 | 10.5 | 185 | 500 T, 1000 T |
| 14 x 1 | 19.5 | 11.1 | 211 | 500 T, 1000 T |

| Number of cores x nominal cross-section (mm²) | Max. conductor resistance (Ω/km) | Outer diameter appr. (mm) | Total weight appr. (kg/km) | Standard lengths/packing (m) |
|---|---|---|---|---|
| 16 x 1 | 19.5 | 11.9 | 242 | 500 T, 1000 T |
| 18 x 1 | 19.5 | 12.5 | 268 | 500 T, 1000 T |
| 21 x 1 | 19.5 | 14.0 | 310 | 500 T, 1000 T |
| 25 x 1 | 19.5 | 14.9 | 361 | 500 T, 1000 T |
| 30 x 1 | 19.5 | 15.5 | 421 | 500 T, 1000 T |
| 41 x 1 | 19.5 | 19.2 | 715 | 500 T, 1000 T |
| 50 x 1 | 19.5 | 21.1 | 843 | 500 T, 1000 T |
| 61 x 1 | 19.5 | 22.5 | 1080 | 500 T, 1000 T |
| 2 x 1,5 | 13.3 | 6.0 | 58 | 500 T, 1000 T |
| 3 x 1,5 | 13.3 | 6.4 | 72 | 500 SP, 1000 SP |
| 4 x 1,5 | 13.3 | 7.2 | 93 | 500 T, 1000 T |
| 5 x 1,5 | 13.3 | 7.8 | 111 | 500 T, 1000 T |
| 6 x 1,5 | 13.3 | 8.5 | 129 | 500 T, 1000 T |
| 7 x 1,5 | 13.3 | 8.5 | 144 | 500 T, 1000 T |
| 10 x 1,5 | 13.3 | 11.0 | 205 | 500 T, 1000 T |
| 12 x 1,5 | 13.3 | 11.6 | 243 | 500 T, 1000 T |
| 14 x 1,5 | 13.3 | 12.1 | 278 | 500 T, 1000 T |
| 16 x 1,5 | 13.3 | 12.8 | 312 | 500 T, 1000 T |
| 18 x 1,5 | 13.3 | 13.5 | 346 | 500 T, 1000 T |
| 21 x 1,5 | 13.3 | 15.1 | 400 | 500 T, 1000 T |
| 25 x 1,5 | 13.3 | 16.2 | 467 | 500 T, 1000 T |
| 32 x 1,5 | 13.3 | 19.2 | 820 | 500 T, 1000 T |
| 34 x 1,5 | 13.3 | 19.7 | 860 | 500 T, 1000 T |
| 50 x 1,5 | 13.3 | 23.7 | 1296 | 500 T, 1000 T |
| 61 x 1,5 | 13.3 | 25.4 | 1502 | 500 T, 1000 T |
| 2 x 2,5 | 7.98 | 7.1 | 85 | 500 T, 1000 T |
| 3 x 2,5 | 7.98 | 7.5 | 108 | 500 T, 1000 T |
| 4 x 2,5 | 7.98 | 8.3 | 135 | 500 T, 1000 T |
| 5 x 2,5 | 7.98 | 9.0 | 162 | 500 T, 1000 T |
| 7 x 2,5 | 7.98 | 10.1 | 219 | 500 T, 1000 T |
| 10 x 2,5 | 7.98 | 13.0 | 310 | 500 T, 1000 T |
| 12 x 2,5 | 7.98 | 13.4 | 361 | 500 T, 1000 T |
| 16 x 2,5 | 7.98 | 14.9 | 467 | 500 T, 1000 T |
| 18 x 2,5 | 7.98 | 15.8 | 519 | 500 T, 1000 T |
| 25 x 2,5 | 7.98 | 18.9 | 705 | 500 T, 1000 T |
| 34 x 2,5 | 7.98 | 24.6 | 1513 | 500 T, 1000 T |
| 2 x 4 | 4.95 | 8.6 | 127 | 500 T, 1000 T |
| 3 x 4 | 4.95 | 9.4 | 167 | 500 T, 1000 T |
| 4 x 4 | 4.95 | 10.3 | 209 | 500 T, 1000 T |
| 5 x 4 | 4.95 | 11.3 | 252 | 500 T, 1000 T |
| 7 x 4 | 4.95 | 13.9 | 488 | 500 T, 1000 T |
| 2 x 6 | 3.3 | 10.0 | 179 | 500 T, 1000 T |
| 3 x 6 | 3.3 | 11.9 | 298 | 500 T, 1000 T |
| 4 x 6 | 3.3 | 10.7 | 232 | 500 T, 1000 T |

| Number of cores x nominal cross-section (mm²) | Max. conductor resistance (Ω/km) | Outer diameter appr. (mm) | Total weight appr. (kg/km) | Standard lengths/packing (m) |
|---|---|---|---|---|
| 5 x 6 | 3.3 | 13.1 | 360 | 500 T, 1000 T |
| 3 x 10 | 1.91 | 14.3 | 407 | 500 T, 1000 T |
| 4 x 10 | 1.91 | 15.8 | 514 | 500 T, 1000 T |
| 5 x 10 | 1.91 | 17.4 | 623 | 500 T, 1000 T |
| 3 x 16 | 1.21 | 16.9 | 605 | 500 T, 1000 T |
| 4 x 16 | 1.21 | 18.7 | 769 | 500 T, 1000 T |
| 5 x 16 | 1.21 | 20.6 | 950 | 500 T, 1000 T |
| 7 x 16 | 1.21 | 23.9 | 1779 | 500 T, 1000 T |
| 4 x 25 | 0.78 | 22.5 | 1165 | 500 T, 1000 T |
| 7 x 25 | 0.78 | 31.2 | 2597 | 500 T, 1000 T |
| 4 x 35 | 0.554 | 24.9 | 1549 | 500 T, 1000 T |
| 5 x 35 | 0.554 | 33.0 | 2635 | 500 T, 1000 T |
| 4 x 50 | 0.368 | 29.3 | 2151 | 500 T, 1000 T |
| 5 x 50 | 0.368 | 33.0 | 2671 | 500 T, 1000 T |
| 4 x 70 | 0.272 | 42.2 | 4050 | 500 T, 1000 T |

Technical changes reserved. All figures are therefore without guarantee.

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