TECHNOKABEL®

ISO 9001:2008

# TECHNOTRONIK LiY(St)-CY nx2x0,22 mm$^2$

## CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS


## APPLICATIONS

**TECHNOTRONIK LiY(St)-CY** are multipair, pair and overall shielded control cables intended for control and instrumentation circuits, for signal, monitoring and data processing systems and for analogue or digital data transmission, all for industrial electronic applications.

Shielded pair structure substantially decreases mutual influence between signals transmitted along the cable.

To achieve high analogue or digital data transmission performance the cable is protected against external electromagnetic interferences by an overall shield.

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 (7x0.2 mm),
- PVC insulation - identification colour code in accordance with DIN VDE 47100,
- insulated conductors twisted into pairs,
- electrostatic shield of pairs incorporating a plastic laminated metal foil,
- shielded pairs laid-up in layers,
- tinned copper wire braid shield of effective density coverage,
- PVC cable sheath, grey RAL 7001, other colours also available.

## AVAILABLE UPON REQUEST

**TECHNOTRONIK LiY(St)-CY-O** - 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.

**TECHNOTRONIK LiY(St)-C11Y** - polyurethane sheathed cables of enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

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CE RoHS

ISO 9001:2008

# TECHNOTRONIK LiY(St)-CY nx2x0,22 mm$^2$

## CHARACTERISTICS

| | |
|---|---|
| Operating voltage Uo/U | 300/300 V |
| Voltage test | 1.2 kV rms |
| DC loop resistance at 20°C, maximum | 184 Ω/km |
| Mutual capacitance at 1 kHz, approximate | 160 nF/km |
| Insulation resistance, minimum | 20 MΩ·km |
| Inductance, approximate | 0.7 mH/km |
| Impedance, approximate | 80 Ω |

| | |
|---|---|
| Operating temperature range | |
| for fixed installation | from - 30 to + 80°C |
| for movable installation | from - 5 to + 70°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 | DIN VDE 0812, DIN VDE 0814 |

**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$^2$ | mm | kg/km | kg/km |
| 0082 003 | 2 x 2 x 0,22 | 6.1 | 21 | 43 |
| 0082 004 | 4 x 2 x 0,22 | 7.0 | 33 | 64 |
| 0082 005 | 5 x 2 x 0,22 | 7.8 | 38 | 77 |

| Product No. | Number of pairs (x 2) x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|---|---|---|---|---|
| | mm$^2$ | mm | kg/km | kg/km |
| 0082 006 | 7 x 2 x 0,22 | 8.4 | 48 | 96 |
| 0082 007 | 10 x 2 x 0,22 | 10.4 | 78 | 145 |
| 0082 008 | 12 x 2 x 0,22 | 10.9 | 88 | 163 |

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

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