

# LiYCY (TP)



## Application

These data control cables are used for flexible use with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air. LiYCY is well suited for use in areas subject to signal interference. The high level of screening reduces substantially the effects of electrical disturbances from parallel running wiring etc. The copper screening is also often used as an "earth". The twisted pairs conform favourable cross-talk attenuation values.

The materials used are free from silicon and cadmium and free from varnish damaging substances.

## Standards

adapted to DIN VDE 0812,  
self-extinguishing and flame retardant acc. to VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.

## Construction

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| <b>Inner Conductor</b>           | fine-stranded bare copper acc. DIN VDE 0295 cl. 5 / IEC 60228 cl. 5             |
| <b>Core Insulation</b>           | Spezial Polyvinylchlorid (PVC) TI2 nach DIN VDE 0207 Teil 4                     |
| <b>Core Color</b>                | acc. to DIN 47100 with colour repetition                                        |
| <b>Stranding Elements</b>        | cores stranded in pairs and pairs<br>stranded in layers with optimal lay-length |
| <b>Overall Shielding</b>         | braid shield copper tinned                                                      |
| <b>Outer Insulation Material</b> | special PVC outer sheath TM2, to DIN VDE 0207 part 5                            |
| <b>Constant Against</b>          | extensively oil resistant                                                       |

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**Technical Data**

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>Nominal Voltage</b>              | U <sub>0</sub> /U: 300 /500 V |
| <b>Nominal Volatage DC</b>          | U <sub>0</sub> /U: 0 /0       |
| <b>Test Voltage</b>                 | 1200 V                        |
| <b>Bending Radius moved (xD)</b>    | 10                            |
| <b>Bending Radius fixed (xD)</b>    | 4                             |
| <b>Operating Temperature solid</b>  | -40 °C bis 80 °C              |
| <b>Operating Temperature moving</b> | -5 °C bis 70 °C               |
| <b>Fire Classes</b>                 | Eca                           |

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| Prod. Nr.<br>Prod. Nr. | Option<br>Option | Dimensions<br>Dimensions | Color<br>Color | Weight (kg/km) approx.<br>Weight (kg/km) approx. | Outer-Diameter (mm) approx.<br>Outer-Diameter (mm) approx. |
|------------------------|------------------|--------------------------|----------------|--------------------------------------------------|------------------------------------------------------------|
| 03105111               |                  | 1x2 x 0,34               | grey - grey    | 58.0                                             | 5.2                                                        |
| 03105117               |                  | 1x2 x 0,5                | grey - grey    | 75.0                                             | 7.5                                                        |
| 03105106               |                  | 1x2 x 0,75               | grey - grey    | 71.0                                             | 6.0                                                        |
| 03105104               |                  | 1x2 x 1                  | grey - grey    | 75.0                                             | 6.3                                                        |
| 03105105               |                  | 1x2 x 1,5                | grey - grey    | 84.0                                             | 7.2                                                        |
| 03105001               |                  | 2x2 x 0,14               | grey - grey    | 40.0                                             | 5.0                                                        |
| 03105012               |                  | 2x2 x 0,25               | grey - grey    | 53.0                                             | 6.8                                                        |
| 03105023               |                  | 2x2 x 0,34               | grey - grey    | 65.0                                             | 7.4                                                        |
| 03105027               |                  | 2x2 x 0,5                | grey - grey    | 87.0                                             | 8.0                                                        |
| 03105035               |                  | 2x2 x 0,75               | grey - grey    | 106.0                                            | 8.6                                                        |
| 03105095               |                  | 2x2 x 1                  | grey - grey    | 143.0                                            | 10.2                                                       |
| 03105103               |                  | 2x2 x 1,5                | grey - grey    | 128.0                                            | 10.3                                                       |
| 03105002               |                  | 3x2 x 0,14               | grey - grey    | 49.0                                             | 5.6                                                        |
| 03105013               |                  | 3x2 x 0,25               | grey - grey    | 65.0                                             | 6.9                                                        |
| 03105024               |                  | 3x2 x 0,34               | grey - grey    | 73.0                                             | 7.2                                                        |
| 03105028               |                  | 3x2 x 0,5                | grey - grey    | 109.0                                            | 9.0                                                        |
| 03105038               |                  | 3x2 x 0,75               | grey - grey    | 140.0                                            | 9.5                                                        |
| 03105076               |                  | 3x2 x 1                  | grey - grey    | 160.0                                            | 9.8                                                        |
| 03105003               |                  | 4x2 x 0,14               | grey - grey    | 55.0                                             | 6.1                                                        |
| 03105014               |                  | 4x2 x 0,25               | grey - grey    | 80.0                                             | 7.5                                                        |
| 03105025               |                  | 4x2 x 0,34               | grey - grey    | 90.0                                             | 8.0                                                        |
| 03105029               |                  | 4x2 x 0,5                | grey - grey    | 139.0                                            | 10.1                                                       |
| 03105039               |                  | 4x2 x 0,75               | grey - grey    | 179.0                                            | 10.8                                                       |
| 03105096               |                  | 4x2 x 1                  | grey - grey    | 197.0                                            | 11.4                                                       |

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|------------------------|------------------|--------------------------|----------------|--------------------------------------------------|------------------------------------------------------------|
| 03105114               |                  | 4x2 x 1,5                | grey - grey    | 239.0                                            | 12.0                                                       |
| 03105004               |                  | 5x2 x 0,14               | grey - grey    | 66.0                                             | 6.5                                                        |
| 03105015               |                  | 5x2 x 0,25               | grey - grey    | 98.0                                             | 7.9                                                        |
| 03105074               |                  | 5x2 x 0,34               | grey - grey    | 110.0                                            | 8.9                                                        |
| 03105030               |                  | 5x2 x 0,5                | grey - grey    | 164.0                                            | 11.3                                                       |
| 03105040               |                  | 5x2 x 0,75               | grey - grey    | 211.0                                            | 11.7                                                       |
| 03105005               |                  | 6x2 x 0,14               | grey - grey    | 86.0                                             | 7.2                                                        |
| 03105016               |                  | 6x2 x 0,25               | grey - grey    | 114.0                                            | 8.6                                                        |
| 03105026               |                  | 6x2 x 0,34               | grey - grey    | 130.0                                            | 9.2                                                        |
| 03105031               |                  | 6x2 x 0,5                | grey - grey    | 197.0                                            | 12.1                                                       |
| 03105041               |                  | 6x2 x 0,75               | grey - grey    | 246.0                                            | 12.5                                                       |
| 03105006               |                  | 7x2 x 0,14               | grey - grey    | 91.0                                             | 7.8                                                        |
| 03105122               |                  | 7x2 x 0,34               | grey - grey    | 145.0                                            | 10.0                                                       |
| 03105007               |                  | 8x2 x 0,14               | grey - grey    | 97.0                                             | 8.3                                                        |
| 03105018               |                  | 8x2 x 0,25               | grey - grey    | 129.0                                            | 9.3                                                        |
| 03105073               |                  | 8x2 x 0,34               | grey - grey    | 150.0                                            | 10.9                                                       |
| 03105032               |                  | 8x2 x 0,5                | grey - grey    | 207.0                                            | 11.4                                                       |
| 03105057               |                  | 8x2 x 0,75               | grey - grey    | 276.0                                            | 13.8                                                       |
| 03105019               |                  | 10x2 x 0,25              | grey - grey    | 157.0                                            | 11.4                                                       |
| 03105033               |                  | 10x2 x 0,5               | grey - grey    | 276.0                                            | 14.5                                                       |
| 03105060               |                  | 10x2 x 0,75              | grey - grey    | 355.0                                            | 16.0                                                       |
| 03105056               | OZ               | 10x2 x 1                 | grey - grey    | 518.0                                            | 17.2                                                       |
| 03105009               |                  | 12x2 x 0,14              | grey - grey    | 141.0                                            | 9.4                                                        |
| 03105020               |                  | 12x2 x 0,25              | grey - grey    | 189.0                                            | 11.6                                                       |

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|------------------------|------------------|--------------------------|----------------|--------------------------------------------------|------------------------------------------------------------|
| 03105061               |                  | 12x2 x 0,34              | grey - grey    | 220.0                                            | 13.2                                                       |
| 03105034               |                  | 12x2 x 0,5               | grey - grey    | 306.0                                            | 15.1                                                       |
| 03105044               |                  | 12x2 x 0,75              | grey - grey    | 433.0                                            | 17.8                                                       |
| 03105010               |                  | 14x2 x 0,14              | grey - grey    | 148.0                                            | 10.0                                                       |
| 03105011               |                  | 16x2 x 0,14              | grey - grey    | 155.0                                            | 10.6                                                       |
| 03105021               |                  | 16x2 x 0,25              | grey - grey    | 237.0                                            | 13.0                                                       |
| 03105115               |                  | 16x2 x 0,34              | grey - grey    | 250.0                                            | 14.3                                                       |
| 03105043               |                  | 16x2 x 0,5               | grey - grey    | 400.0                                            | 16.0                                                       |
| 03105058               |                  | 16x2 x 0,75              | grey - grey    | 565.0                                            | 20.0                                                       |
| 03105022               |                  | 18x2 x 0,25              | grey - grey    | 248.0                                            | 13.5                                                       |
| 03105068               |                  | 20x2 x 0,14              | grey - grey    | 183.0                                            | 12.2                                                       |
| 03105070               |                  | 20x2 x 0,25              | grey - grey    | 275.0                                            | 13.3                                                       |
| 03105069               |                  | 20x2 x 0,5               | grey - grey    | 580.0                                            | 19.5                                                       |
| 03105048               |                  | 20x2 x 0,75              | grey - grey    | 615.0                                            | 21.0                                                       |
| 03105066               |                  | 24x2 x 0,5               | grey - grey    | 565.0                                            | 20.1                                                       |
| 03105062               |                  | 25x2 x 0,14              | grey - grey    | 239.0                                            | 12.8                                                       |
| 03105089               | TR               | 25x2 x 0,14              |                | 239.0                                            | 12.8                                                       |
| 03105071               |                  | 25x2 x 0,25              | grey - grey    | 343.0                                            | 15.4                                                       |
| 03105072               |                  | 25x2 x 0,5               | grey - grey    | 740.0                                            | 22.5                                                       |
| 03105059               |                  | 25x2 x 0,75              | grey - grey    | 732.0                                            | 23.6                                                       |