

# Data & Sensor Cables

## LiYCY (B) TP

Multi-pair signal and control cable with overall tinned copper braid and DIN color code



Marking for LiYCY (B) TP 03450325:

SAB BRÖCKSKES · D-VIERSEN · LiYCY (B) TP 3x2x0.25mm² CE

### Construction:

|                         |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| <b>Conductor:</b>       | bare copper strands<br>with reference to VDE 0812                  |
| <b>Insulation:</b>      | PVC, Tl2<br>acc. to EN 50363-3 + VDE 0207-363-3                    |
| <b>Color code:</b>      | DIN 47100, see page O/26                                           |
| <b>Stranding:</b>       | conductors twisted to pairs,<br>pairs twisted in layers            |
| <b>Wrapping:</b>        | PETP foil                                                          |
| <b>Shielding:</b>       | tinned copper braiding<br>with a tinned copper drain wire (22 AWG) |
| <b>Jacket material:</b> | PVC, TM2<br>acc. to EN 50363-4-1 + VDE 0207-363-4-1                |
| <b>Jacket color:</b>    | grayish tan (RAL 7032)                                             |

### Outstanding features:



- good EMC characteristics
- flexible
- small outer diameter
- small bending radius

### Technical data:

|                                                                                    |                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Peak operating voltage:</b>                                                     | < 24 AWG = max. 350 V<br>≥ 24 AWG = max. 500 V                                     |
| <b>Testing voltage:</b>                                                            | conductor/conductor: 1500 V<br>conductor/shielding: 1200 V                         |
| <b>Min. bending radius:</b><br><i>fixed installation:</i><br><i>free movement:</i> | 5 x O.D.<br>10 x O.D.                                                              |
| <b>Capacitance:</b>                                                                | see page O/9                                                                       |
| <b>Radiation resistance:</b>                                                       | 8 x 10 <sup>7</sup> cJ/kg                                                          |
| <b>Temperature range:</b><br><i>static:</i><br><i>flexible:</i>                    | -30/+70°C<br>-5/+70°C                                                              |
| <b>Burning characteristics:</b>                                                    | flame retardant and self-extinguishing<br>acc. to IEC 60332-1-2 + VDE 0482-332-1-2 |
| <b>Oil resistance:</b>                                                             | acc. to internal standard, see page O/29                                           |
| <b>Chemical resistance:</b>                                                        | see page O/11                                                                      |
| <b>Approvals:</b>                                                                  | CE, EAC, RoHS                                                                      |
| <b>Absence of harmful substances:</b>                                              | acc. to RoHS directive of the European Union<br>see page O/30                      |

| item no.                                  | no. of pairs | nominal outer-ø<br>± 10%<br>inch | ± 10%<br>mm | cable weight<br>≈ lbs/mft |
|-------------------------------------------|--------------|----------------------------------|-------------|---------------------------|
| ► 26 AWG (≈ 18/38) ▪ 0.14 mm <sup>2</sup> |              |                                  |             |                           |
| 03450214                                  | 2            | 0.205                            | 5.2         | 23                        |
| 03450314                                  | 3            | 0.224                            | 5.7         | 28                        |
| 03450414                                  | 4            | 0.256                            | 6.5         | 36                        |
| 03450514                                  | 5            | 0.276                            | 7.0         | 40                        |
| 03450614                                  | 6            | 0.283                            | 7.2         | 46                        |
| 03450814                                  | 8            | 0.307                            | 7.8         | 54                        |
| 03451014                                  | 10           | 0.350                            | 8.9         | 67                        |
| 03451214                                  | 12           | 0.382                            | 9.7         | 75                        |
| 03451614                                  | 16           | 0.413                            | 10.5        | 91                        |
| 03451814                                  | 18           | 0.437                            | 11.1        | 107                       |
| 03452014                                  | 20           | 0.437                            | 11.1        | 110                       |
| 03452414                                  | 24           | 0.504                            | 12.8        | 136                       |
| 03452514                                  | 25           | 0.504                            | 12.8        | 139                       |
| 03452814                                  | 28           | 0.516                            | 13.1        | 148                       |
| 03453014                                  | 30           | 0.543                            | 13.8        | 159                       |
| 03453614                                  | 36           | 0.575                            | 14.6        | 185                       |
| 03454014                                  | 40           | 0.587                            | 14.9        | 199                       |
| 03454414                                  | 44           | 0.642                            | 16.3        | 234                       |
| 03455214                                  | 52           | 0.669                            | 17.0        | 261                       |
| 03456114                                  | 61           | 0.720                            | 18.3        | 298                       |

| item no.                                  | no. of pairs | nominal outer-ø<br>± 10%<br>inch | ± 10%<br>mm | cable weight<br>≈ lbs/mft |
|-------------------------------------------|--------------|----------------------------------|-------------|---------------------------|
| ► 24 AWG (≈ 14/34) ▪ 0.25 mm <sup>2</sup> |              |                                  |             |                           |
| 03450225                                  | 2            | 0.224                            | 5.7         | 28                        |
| 03450325                                  | 3            | 0.252                            | 6.4         | 37                        |
| 03450525                                  | 4            | 0.283                            | 7.2         | 45                        |
| 03450625                                  | 6            | 0.311                            | 7.9         | 57                        |
| 03450825                                  | 8            | 0.354                            | 9.0         | 73                        |
| 03451025                                  | 10           | 0.386                            | 9.8         | 89                        |
| 03451225                                  | 12           | 0.429                            | 10.9        | 108                       |
| 03451625                                  | 16           | 0.469                            | 11.9        | 131                       |
| 03451825                                  | 18           | 0.500                            | 12.7        | 149                       |
| 03452425                                  | 24           | 0.559                            | 14.2        | 181                       |
| ► 22 AWG (≈ 7/30) ▪ 0.34 mm <sup>2</sup>  |              |                                  |             |                           |
| 03450234                                  | 2            | 0.268                            | 6.8         | 38                        |
| 03450334                                  | 3            | 0.291                            | 7.4         | 48                        |
| 03450434                                  | 4            | 0.346                            | 8.8         | 67                        |
| 03450534                                  | 5            | 0.374                            | 9.5         | 78                        |
| 03450634                                  | 6            | 0.382                            | 9.7         | 86                        |
| 03450834                                  | 8            | 0.417                            | 10.6        | 97                        |
| 03451234                                  | 12           | 0.528                            | 13.4        | 151                       |
| 03451634                                  | 16           | 0.575                            | 14.6        | 188                       |
| 03451834                                  | 18           | 0.594                            | 15.1        | 206                       |
| 03452434                                  | 24           | 0.693                            | 17.6        | 279                       |

| item no.                                  | no. of pairs | nominal outer-ø<br>± 10%<br>inch | ± 10%<br>mm | cable weight<br>≈ lbs/mft |
|-------------------------------------------|--------------|----------------------------------|-------------|---------------------------|
| ► 20 AWG (≈ 16/32) ▪ 0.50 mm <sup>2</sup> |              |                                  |             |                           |
| 03450250                                  | 2            | 0.283                            | 7.2         | 44                        |
| 03450350                                  | 3            | 0.311                            | 7.9         | 56                        |
| 03450450                                  | 4            | 0.370                            | 9.4         | 75                        |
| 03450650                                  | 6            | 0.409                            | 10.4        | 98                        |
| 03450850                                  | 8            | 0.429                            | 10.9        | 112                       |
| 03451050                                  | 10           | 0.520                            | 13.2        | 154                       |
| 03451250                                  | 12           | 0.567                            | 14.4        | 180                       |
| 03451650                                  | 16           | 0.642                            | 16.3        | 247                       |
| 03451850                                  | 18           | 0.665                            | 16.9        | 268                       |
| 03452050                                  | 20           | 0.665                            | 16.9        | 281                       |
| 03452450                                  | 24           | 0.748                            | 19.0        | 330                       |
| ► 19 AWG (≈ 23/32) ▪ 0.75 mm <sup>2</sup> |              |                                  |             |                           |
| 03450275                                  | 2            | 0.335                            | 8.5         | 62                        |
| 03450375                                  | 3            | 0.370                            | 9.4         | 75                        |
| 03450475                                  | 4            | 0.429                            | 10.9        | 101                       |
| 03450675                                  | 6            | 0.492                            | 12.5        | 146                       |
| 03451275                                  | 12           | 0.673                            | 17.1        | 259                       |
| 03451675                                  | 16           | 0.732                            | 18.6        | 324                       |
| 03451875                                  | 18           | 0.760                            | 19.3        | 359                       |
| 03452475                                  | 24           | 0.858                            | 21.8        | 444                       |

Other dimensions and colors are available on request