

DATA CABLES



LIYCY (B) TP Multipair signal and control cable overall braid DIN Color code



Marking for LIYCY (B) TP 03450325:
SAB BRÖCKSKES · D-VIERSEN · LIYCY (B) TP 3 x 2 x 0.25 mm² CE

LIYCY (B) TP is a shielded, multi-paired signal and control cable recommended for use in European designed computers, data transmission and office equipment, process controls and instrumentation, where additional EMI protection is required. Twisting the conductors in special paired assemblies provides interference suppression in analog or digital signals.

Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands with reference to DIN VDE 0812 |
| Insulation: | PVC, Y12 acc. to DIN VDE 0207 part 4 |
| Color code: | with reference to DIN 47100 |
| Stranding: | conductors twisted to pairs, pairs in layers |
| Wrapping: | PETP foil |
| Screen: | tinned copper braiding with a tinned copper drain wire (22 AWG) |
| Jacket material: | PVC, YM1 acc. to DIN VDE 0207 part 5 |
| Jacket color: | gray |

Outstanding features:

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

Technical data:

| | |
|--|---|
| Peak operating voltage: | < 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V |
| Testing voltage: | < 24 AWG = 800 V ≥ 24 AWG = 1200 V |
| Min. bending radius <i>fixed installation:</i> | 5 x O.D. |
| <i>free movement:</i> | 10 x O.D. |
| Capacitance: | see page N/8 |
| Radiation resistance: | 8 x 10 ⁷ cJ/kg |
| Temperature range <i>static:</i> | -30/+70 °C |
| <i>flexing:</i> | -5/+70 °C |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 |
| Oil resistance: | acc. to internal standard, see page N/27 |
| Chem. resistance: | see page N/9 |
| Color code: | see see page N/24 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/28 |

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| item no. | no. of pairs | nominal outer-ø inch | outer-ø mm | cable weight ≈ lbs/mft | item no. | no. of pairs | nominal outer-ø inch | outer-ø mm | cable weight ≈ lbs/mft | item no. | no. of pairs | nominal outer-ø inch | outer-ø mm | cable weight ≈ lbs/mft |
|--|--------------|----------------------|------------|------------------------|--|--------------|----------------------|------------|------------------------|--|--------------|----------------------|------------|------------------------|
| ▶ 26 AWG (≈18/38) • 0.14 mm² | | | | | ▶ 24 AWG (≈14/34) • 0.25 mm² | | | | | ▶ 20 AWG (≈ 16/32) • 0.50 mm² | | | | |
| 03450214 | 2 | 0.205 | 5.2 | 23 | 03450225 | 2 | 0.224 | 5.7 | 28 | 03450250 | 2 | 0.283 | 7.2 | 44 |
| 03450314 | 3 | 0.224 | 5.7 | 28 | 03450325 | 3 | 0.252 | 6.4 | 37 | 03450350 | 3 | 0.311 | 7.9 | 56 |
| 03450414 | 4 | 0.256 | 6.5 | 36 | 03450625 | 6 | 0.311 | 7.9 | 57 | 03450650 | 6 | 0.409 | 10.4 | 98 |
| 03450514 | 5 | 0.276 | 7.0 | 40 | 03450825 | 8 | 0.354 | 9.0 | 73 | 03450850 | 8 | 0.429 | 10.9 | 112 |
| 03450614 | 6 | 0.283 | 7.2 | 46 | 03451025 | 10 | 0.386 | 9.8 | 89 | 03451050 | 10 | 0.520 | 13.2 | 154 |
| 03450814 | 8 | 0.307 | 7.8 | 54 | 03451225 | 12 | 0.429 | 10.9 | 108 | 03451250 | 12 | 0.567 | 14.4 | 180 |
| 03451014 | 10 | 0.350 | 8.9 | 67 | 03451625 | 16 | 0.469 | 11.9 | 131 | 03451650 | 16 | 0.642 | 16.3 | 247 |
| 03451214 | 12 | 0.382 | 9.7 | 75 | 03451825 | 18 | 0.500 | 12.7 | 149 | 03451850 | 18 | 0.665 | 16.9 | 268 |
| 03451614 | 16 | 0.413 | 10.5 | 91 | 03452425 | 24 | 0.559 | 14.2 | 181 | 03452050 | 20 | 0.665 | 16.9 | 281 |
| 03451814 | 18 | 0.437 | 11.1 | 107 | ▶ 22 AWG (≈7/30) • 0.34 mm² | | | | | 03452450 | 24 | 0.748 | 19.0 | 330 |
| 03452014 | 20 | 0.437 | 11.1 | 110 | 03450234 | 2 | 0.268 | 6.8 | 38 | ▶ 19 AWG (≈23/32) • 0.75 mm² | | | | |
| 03452414 | 24 | 0.504 | 12.8 | 136 | 03450334 | 3 | 0.291 | 7.4 | 48 | 03450275 | 2 | 0.335 | 8.5 | 62 |
| 03452514 | 25 | 0.504 | 12.8 | 139 | 03450434 | 4 | 0.346 | 8.8 | 67 | 03450375 | 3 | 0.370 | 9.4 | 75 |
| 03452814 | 28 | 0.516 | 13.1 | 149 | 03450534 | 5 | 0.374 | 9.5 | 78 | 03450675 | 6 | 0.492 | 12.5 | 146 |
| 03453014 | 30 | 0.543 | 13.8 | 159 | 03450634 | 6 | 0.382 | 9.7 | 86 | 03451275 | 12 | 0.673 | 17.1 | 259 |
| 03453614 | 36 | 0.575 | 14.6 | 185 | 03450834 | 8 | 0.417 | 10.6 | 97 | 03451675 | 16 | 0.732 | 18.6 | 324 |
| 03454014 | 40 | 0.587 | 14.9 | 199 | 03451234 | 12 | 0.528 | 13.4 | 151 | 03451875 | 18 | 0.760 | 19.3 | 360 |
| 03454414 | 44 | 0.642 | 16.3 | 234 | 03451634 | 16 | 0.575 | 14.6 | 188 | 03452475 | 24 | 0.858 | 21.8 | 444 |
| 03455214 | 52 | 0.669 | 17.0 | 261 | 03451834 | 18 | 0.594 | 15.1 | 206 | Other dimensions and colors are possible on request. | | | | |
| 03456114 | 61 | 0.720 | 18.3 | 298 | 03452434 | 24 | 0.693 | 17.6 | 279 | | | | | |