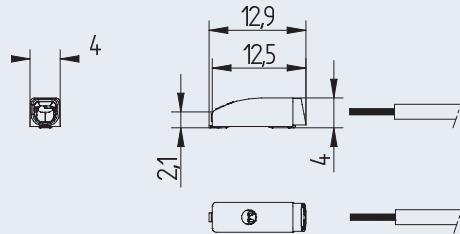
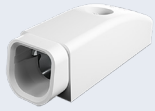


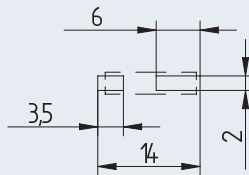
SMD Terminal blocks

46.131 · SMD Terminal block - MiniFlex



General note: It is recommended to make an electrical connection between both poles of each polarity on the solder pad.

Recommended dimensions for solder tags



SMD-Terminal block - MiniFlex with push wire contacts and contact opening function

1 pole - 46.131.2001.50

Direct insertion of solid and stranded, tinned wire ends and finely stranded conductors by using the contact opening function

Contact opening function - also for release of already inserted wires

Mounting and wiring position: PCB top side

Machine-compatible "tape-and-reel" packaging

Fixing: Lead-free reflow soldering according to DIN EN 610760-1, section 6

Material: Housing: PPA, white
Contact material: CuNi
Contact surface: hot-dipped tinned

To operate the contact opening function, we recommend the use of our tools 46.131.U802.89 and 46.131.-397.80

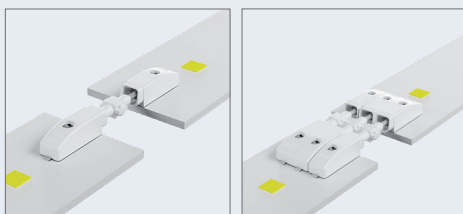
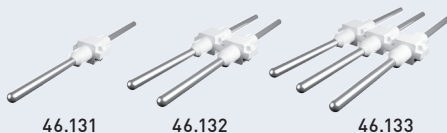
Packaging data 46.131.2001.50

| | |
|---|--------------------|
| Weight per piece | 0.20 g |
| Pieces per reel | 2.650 pcs |
| Diameter of tape-and-reel packaging | 381 mm - (15") |
| Reel width | 24 mm |
| Weight per reel | 1.3 kg |
| Number of reels per cardboard | 13 pcs |
| Number of SMD terminal blocks per cardboard | 34.450 pcs |
| Weight per cardboard | 15 kg |
| Dimensions cardboard (LxWxH) | 400 x 405 x 415 mm |



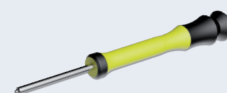
Accessories:

SMD Mini-Flex-B2B-connector. For connecting PCBs. Connectors are available in 26 mm (U701), 28 mm (U702) and 30 mm (U703) length.



Contact opening tool

For opening the contacts when using fine-stranded conductors or to remove already inserted conductors.



46.131.U802.89



46.131.-397.80

Integrated stripping function for wire ends cut but not stripped

| Connection data | |
|----------------------------------|---|
| Connection technology | Push wire contacts |
| Solid wires | 0.20 - 0.75 mm ² , AWG 24-18 |
| Stranded, tinned wires | 0.20 - 0.5 mm ² , AWG 24-20 |
| Stranded wires | 0.20 - 0.75 mm ² , AWG 24-18 |
| Strip length (ø < 2.1 mm) | 8 +1 mm |
| Strip length (ø 2.1 - 2.7 mm) | 9 +1 mm |
| Conductor entry angle to the PCB | 0° |
| Wire release function by | Contact opening tool |

| Pull-out force according to DN 60999-1 | |
|--|-----------|
| 0.2 mm ² | min. 10 N |
| 0.34 mm ² | min. 15 N |
| 0.5 mm ² | min. 20 N |
| 0.75 mm ² | min. 30 N |
| Insertion force | max. 10 N |

| Geometrical data | |
|------------------|---------------------|
| Pin spacing | 4 mm / 0.16 inch |
| Width | 4 mm / 0.16 inch |
| Height | 4 mm / 0.16 inch |
| Depth | 12.9 mm / 0.51 inch |

| Material data | |
|------------------------------------|-------------------|
| Insulating material group | I |
| Insulating material | PPA, white |
| PTI | 600 |
| Flammability class, based on UL 94 | V-0 |
| Contact material | CuNi |
| Contact surface | hot-dipped tinned |

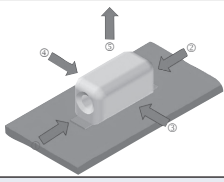
| Mechanical data | |
|-------------------|----------------------------|
| Mounting position | PCB top side |
| Mounting type | Lead-free reflow soldering |

| Temperature data | |
|--|--------------------|
| Marginal temperatures | -40 °C to + 150 °C |
| Ambient temperature | -40 °C to + 125 °C |
| T-classification according to IEC 60998-1 para. 12 | 120° C |

| Rated data according to IEC / EN 60947-7-4 (IEC/EN 60664-1) | |
|---|--------|
| Rated voltage (III / 3) | 63 V |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2) | 160 V |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2) | 320 V |
| Rated impulse voltage (II / 2) | 2.5 kV |
| Rated current | 9 A |

| Rated data according to UL 1977 / CSA-C22.2 No. 182.3 | |
|---|--|
| Rated voltage | 600 V |
| Rated current | USR 9 A, AWG 24 -18 CNR 6 A, AWG 24-20 CNR 9 A, AWG 18 |

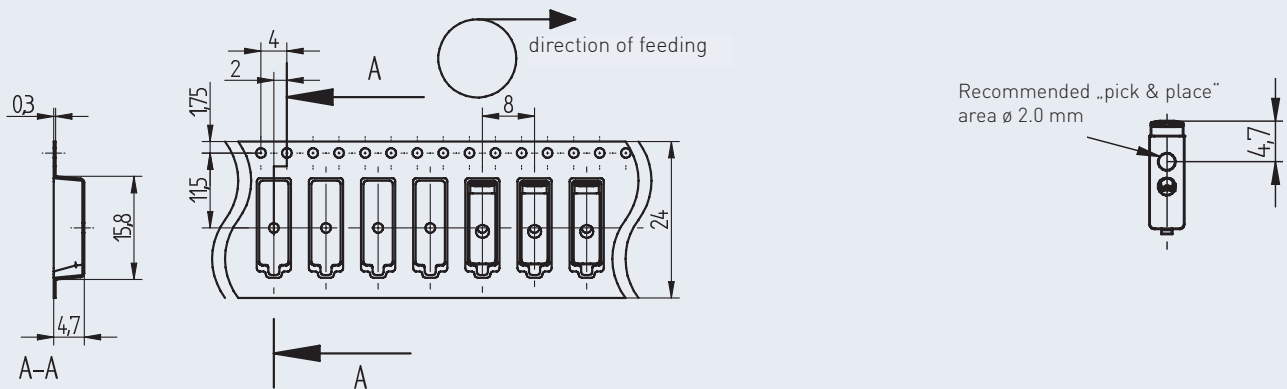
| Country specific certificates | |
|-------------------------------|---|
| VDE / ENEC | EN IEC 60947-7-4 File no.: 40040866 |
| cURus | UL 1977 / CSA-C22.2 No. 182.3 File no.: E-365006 |

| | |
|---|---|
| Shear forces according to IEC 62137-1-2. These values are maximum values that apply only for impuls, not for continuous load. |  |
| Direction 1 + 2 shear force along | 50 N |
| Direction 3 + 4 shear force across | 20 N |
| Direction 5 pull-off force | 20 N |

Instructions for soldering process

Suitable for leadfree-reflow-profiles according to DIN EN 61760-1 respective DIN EN 60068-2-58 up to peak-temperature of max. 260°C. Due to different application-specific parameters (component arrangement and alignment, soldering system, solder paste), it is recommended to use test runs to determine a suitable profile under production conditions.

Depending on the SMD soldering process and associated parameters a minor discoloration might occur. However, this will not influence the functionality.



| | |
|---|---|
| Storage time | Solderability up to 6 months when stored between -5°C and +40°C and rel. humidity between 10...60% r H. After a storage time of 6 months, solderability has to be checked according to J-STD-002D or DIN EN 60068-2-58:2016. |
| max. allowed number of reflow-processes | 3 |
| Reflow-profile | <p>Reflow-profile (lead-free)</p> |
| Solderability | Solderability of components is checked by wetting test according to J-STD-002D |
| Assembly method | SMD, according to drawing |
| Recommended solder stencil thickness | 100 - 150 µm (recommendation BJB 150 µm) |