

**D-SUB F6.3 T15HU 3.2B4 TY BK****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**The product range encompasses the following designs:**

- 90°, lying (horizontal) and 180°, standing (vertical)
- Flange design as drilled hole, UNC 4-40 threaded nut and UNC 4-40 threaded bolt
- Stamped contacts (Rated current: 3 A)
- THT soldering process
- Wide range of different design types, also with snap-on clip
- Packed in tray (TY)
- Extended temperature range of -55 °C to +85 °C for maximum performance
- Design in accordance with IEC 60807-3 (IEC 807-3) and DIN 41652

**General ordering data**

|            |                                                                                                                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | OMNIMATE Data - D-SUB connector, female header, Thread-nut UNC 4-40, THT solder connection, Pitch in mm (P): 2.77 mm, Number of poles: 15, $\geq 50 \mu\text{m}$ Ni / $100 \mu\text{m}$ Sn, 500, PBT GF, black, Tray |
| Order No.  | <a href="#">2701730000</a>                                                                                                                                                                                           |
| Type       | D-SUB F6.3 T15HU 3.2B4 TY BK                                                                                                                                                                                         |
| GTIN (EAN) | 4050118809701                                                                                                                                                                                                        |
| Qty.       | 70 pc(s).                                                                                                                                                                                                            |
| Packaging  | Tray                                                                                                                                                                                                                 |

Creation date December 1, 2023 12:27:29 PM CET

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**Technical data****Dimensions and weights**

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 18.3 mm  | Depth (inches)  | 0.72 inch  |
| Height     | 12.55 mm | Height (inches) | 0.494 inch |
| Width      | 39.2 mm  | Width (inches)  | 1.543 inch |
| Net weight | 9.1 g    |                 |            |

**System specifications**

|                       |                                  |                                  |                     |
|-----------------------|----------------------------------|----------------------------------|---------------------|
| Mounting onto the PCB | THT solder connection            | Number of poles                  | 15                  |
| Outgoing elbow        | 90°                              | Pitch in inches (P)              | 0.109 inch          |
| Pitch in mm (P)       | 2.77 mm                          | Plugging cycles                  | 500                 |
| Product family        | OMNIMATE Data - D-SUB connector  | Shield surface                   | tinned              |
| Shielding material    | Steel                            | Side termination, characteristic | Thread-nut UNC 4-40 |
| Solder pin dimensions | Octagonal                        | Solder pin length (l)            | 3.2 mm              |
| Soldering process     | Manual soldering, Wave soldering | Tolerance of solder pin position | ± 0.1 mm            |
| Type of connection    | Solder connection                |                                  |                     |

**Electrical properties**

|                                        |           |                     |           |
|----------------------------------------|-----------|---------------------|-----------|
| Dielectric strength, contact / contact | 1000 V AC | Insulation strength | ≥ 1000 MΩ |
| Rated current                          | 3 A       | Rated voltage       | 250 V     |

**Material data**

|                                      |                        |                                 |                       |
|--------------------------------------|------------------------|---------------------------------|-----------------------|
| Insulating material                  | PBT GF                 | Colour                          | black                 |
| Colour chart (similar)               | RAL 9011               | Insulation strength             | ≥ 1000 MΩ             |
| UL 94 flammability rating            | V-0                    | Contact base material           | Cu-alloy              |
| Contact material                     | Cu-alloy               | Contact surface                 | Gold over nickel      |
| Layer structure of solder connection | ≥ 50 μ" Ni / 100 μ" Sn | Layer structure of plug contact | ≥ 50 μ" Ni / 30 μ" Au |
| Operating temperature, min.          | -55 °C                 | Operating temperature, max.     | 105 °C                |

**Packing**

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Tray   | VPE length | 295 mm |
| VPE width | 209 mm | VPE height | 23 mm  |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002637    | ETIM 7.0    | EC002637    |
| ETIM 8.0    | EC002637    | ETIM 9.0    | EC002637    |
| ECLASS 9.0  | 27-44-04-02 | ECLASS 9.1  | 27-44-04-02 |
| ECLASS 10.0 | 27-44-04-02 | ECLASS 11.0 | 27-46-02-01 |
| ECLASS 12.0 | 27-46-02-01 | ECLASS 13.0 | 27460201    |

**Approvals**

Approvals



|                       |            |
|-----------------------|------------|
| ROHS                  | Conform    |
| UL File Number Search | UL Website |
| Certificate No. (UR)  | E92202     |

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Catalogue status 24.11.2023 / We reserve the right to make technical changes.

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## Technical data

### Downloads

Engineering Data

[CAD data – STEP](#)

Catalogues

[Catalogues in PDF-format](#)

### D-SUB F6.3 T15HU 3.2B4 TY BK

**Weidmüller Interface GmbH & Co. KG**

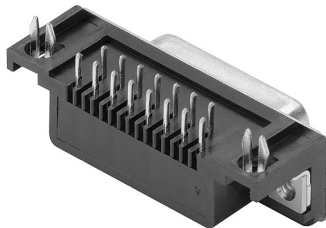
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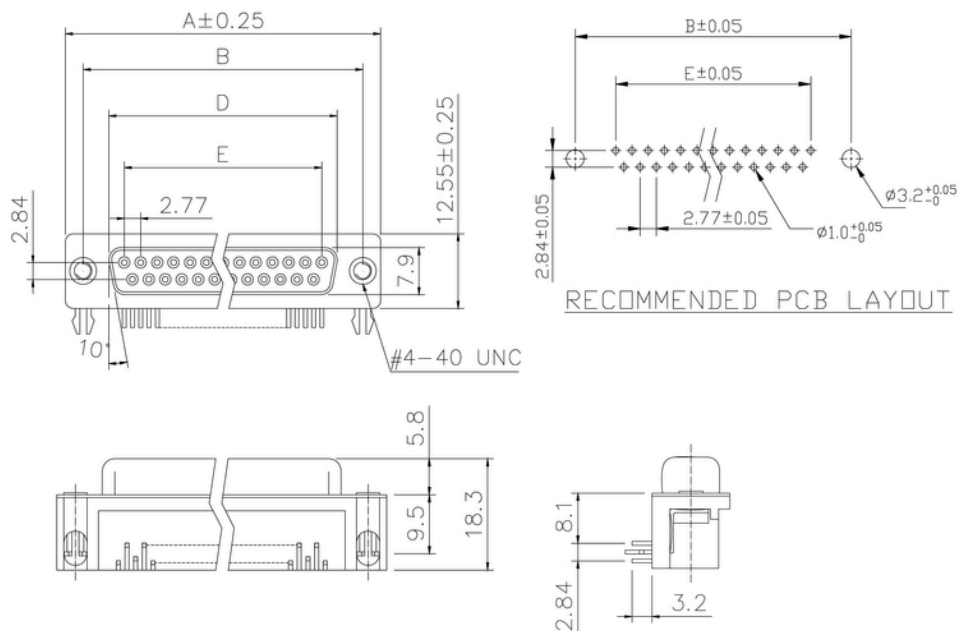
## Drawings



**D-SUB F6.3 T15HU 3.2B4 TY BK**

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**Drawings**

| Tolerance |        |
|-----------|--------|
| x.        | ± 0.38 |
| x.x       | ± 0.25 |
| x.xx      | ± 0.13 |
| DIM       | TOL    |
| x.        | ± 3°   |
| x.x       | ± 1.0° |
| Angle     | TOL    |

**Dimensions**

| No. of poles | A     | B     | C     | E     |
|--------------|-------|-------|-------|-------|
| 9            | 30.81 | 24.99 | 16.92 | 11.08 |
| 15           | 39.20 | 33.30 | 25.25 | 19.39 |
| 25           | 53.05 | 47.04 | 38.96 | 33.24 |

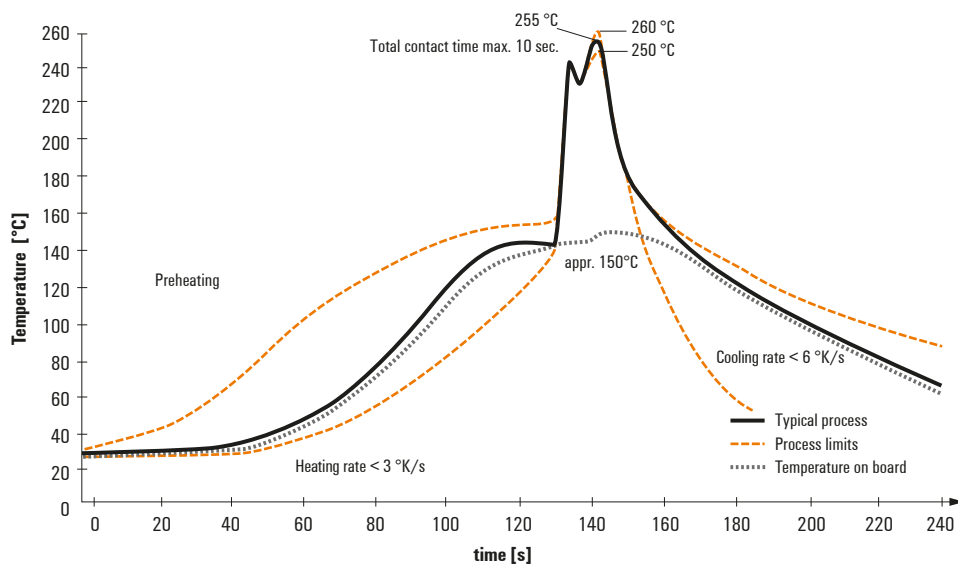
## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

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