USB3.0A T1H 2.3N4 TY BL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

USB as a reliable data interface for your device in industrial use. Due to the many advantages, USB sockets are always used most in the electrical industry.
The extensive portfolio of USB-A, -B - C and -Micro components enables future-proof device design with speeds of up to 10 Gbit/s. Our USB PCB sockets support the robust standards USB 2.0, 3.0 and 3.1 for fast and easy data transfer.
The individual connectors meet the requirements for high durability and offer reliable connectivity.

- Up to 10.000 plugging cycles
- THT, THR or SMD soldering processes
- Available in design types 180° (vertical/upright) or 90° (horizontal/flat-lying)
- Packed either in a tray (TY) or on a roll (tape-on-reel, RL)
- Reinforced gold layer for improved corrosion protection
- USB 3.1 sockets support data rates of 10 Gbit/s for fast data transfer
- USB-C sockets enable error-free plugging due to a symmetrical design
- Robust plug & play operation - connect and disconnect without shutting down or restarting the system

General ordering data

Version	OMNIMATE Data - USB jack, PCB plug-in connector, Type A, 5 Gbps, THT solder connection, 90°, Plugging cycles: ≥ 1500, Pitch in mm (P): 2.00, Number of poles: 9, PBT, 30...80 µ" Ni / ≥ 30 µ" Au , Tray (manual assembly)
Order No.	2563550000
Type	USB3.0A T1H 2.3N4 TY BL
GTIN (EAN)	4050118572674
Qty.	104 pc(s).
Packaging	Tray (manual assembly)

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Technical data

Dimensions and weights

Depth	16.45 mm	Depth (inches)	0.648 inch
Height	9.3 mm	Height (inches)	0.366 inch
Height of lowest version	7.12 mm	Width	14.5 mm
Width (inches)	0.571 inch	Net weight	0.001 g

System specifications

LED	No	Mounting onto the PCB	THT solder connection
Number of poles	9	Number of solder pins per pole	1
Outgoing elbow	90°	Performance-Category	5 Gbps
Pitch in inches (P)	0.079 "	Pitch in mm (P)	2 mm
Plugging cycles	≥ 1500	Plugging force/pole, max.	35 N
Product family	OMNIMATE Data - USB jack	Protection degree	IP20
Pulling force / pole, min.	10 N	Shield surface	nickel-plated
Shield tabs	none	Shielding	Yes
Shielding material	Brass	Side termination, characteristic	Solder flange
Solder pin dimensions	Octagonal	Solder pin length (l)	2.3 mm
Soldering process	Manual soldering, Wave soldering	Tolerance of solder pin position	± 0.1 mm
Transmission rate	5 Gbps	Type of connection	Socket connector

Electrical properties

Dielectric strength, contact / contact	100 V AC	Insulation strength	≥ 1000 MΩ
Rated current	1.8 A at 250 V AC	Rated voltage	30 V

Material data

Insulating material	PBT	Colour	blue
Colour chart (similar)	RAL 5012	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 1000 MΩ
UL 94 flammability rating	V-0	Contact base material	Phosphorus bronze
Contact material	Copper alloy	Contact surface	Gold over nickel
Layer structure of plug contact	30...80 µ" Ni / ≥ 30 µ" Au	Storage temperature, min.	-25 °C
Storage temperature, max.	85 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	85 °C		

Packing

Packaging	Tray (manual assembly)	VPE length	322 mm
VPE width	186 mm	VPE height	15 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	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	27-46-02-01
ECLASS 14.0	27-46-02-01	ECLASS 15.0	27-46-02-01

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Technical data

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	No SVHC above 0.1 wt%

Approvals

ROHS	Conform

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

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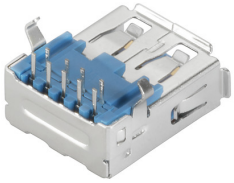
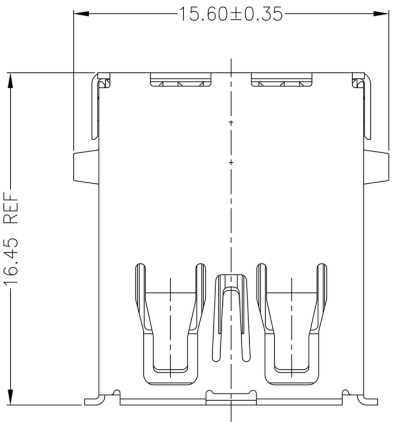
Drawings



Dimensioned drawing



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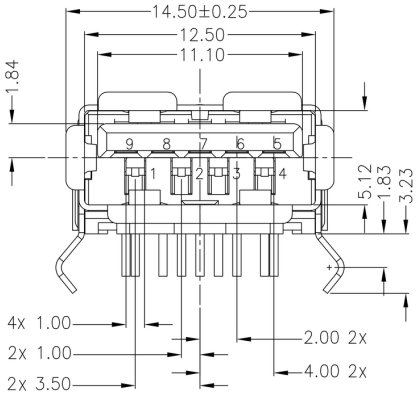
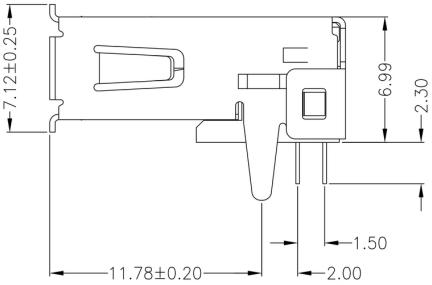
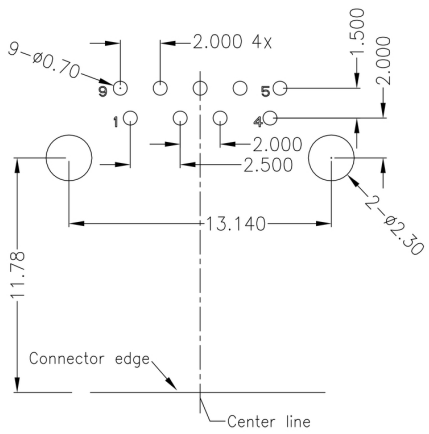


Dimensioned drawing



Wiring diagram



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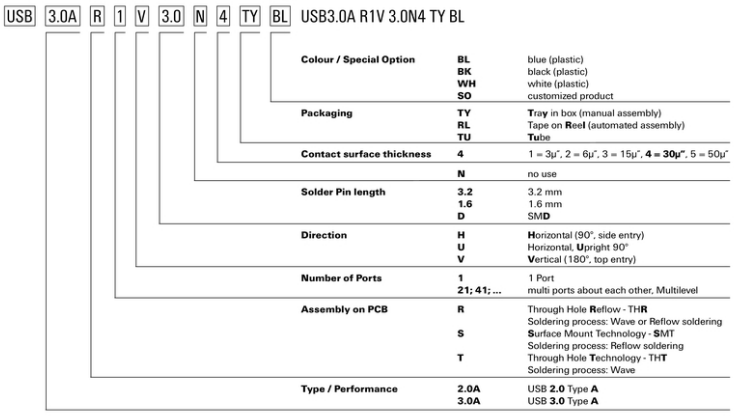
Drawings

Legend



Wave Solder Profile

Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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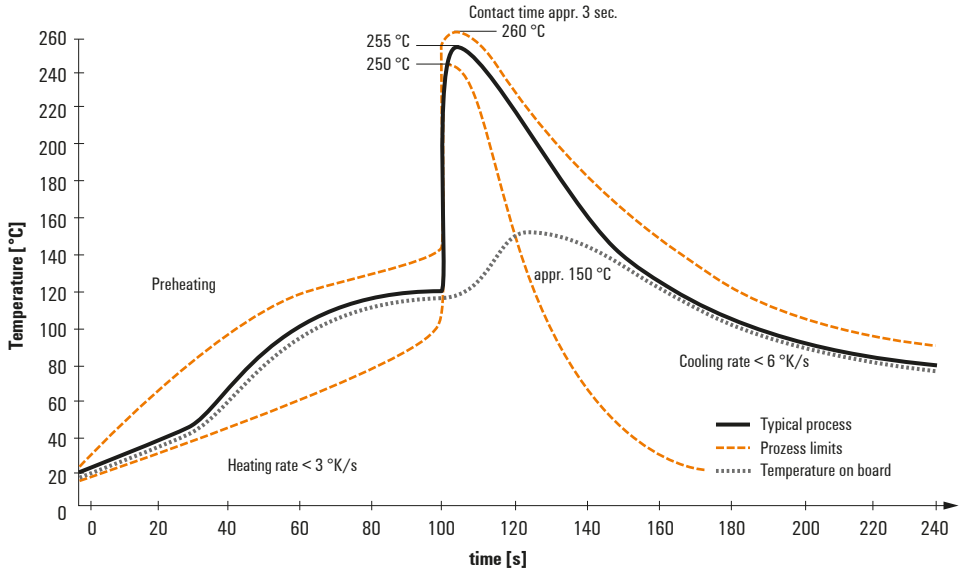
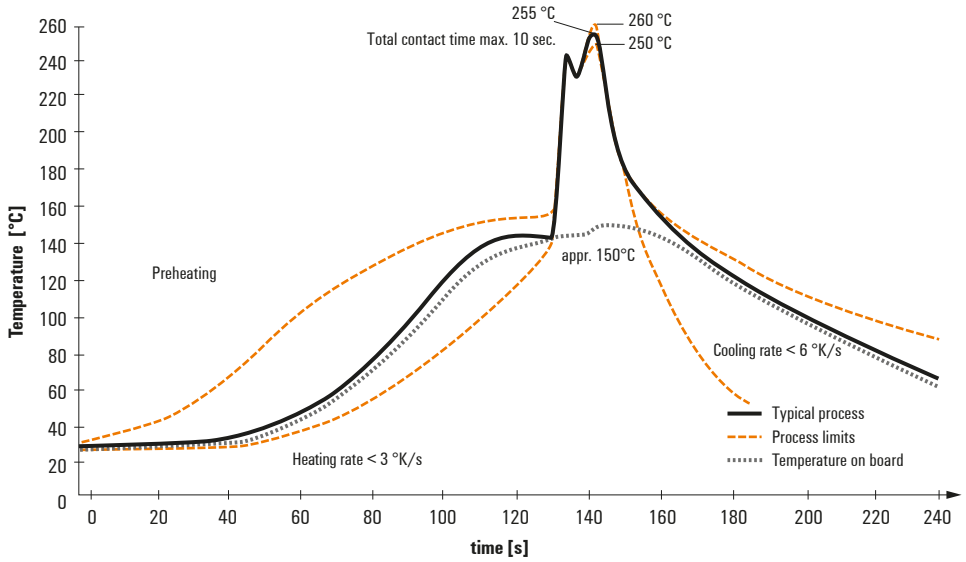
Single Wave:



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.