

## USB2.0B T1H 2.8N4 TY BK

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, USB 2.0, Type B, 480 Mbps, THT solder connection, 90°, Plugging cycles: $\geq$ 1500, Number of poles: 4, PBT, Gold over nickel, Tray (manual assembly)
Order No.	<a href="#">2698610000</a>
Type	USB2.0B T1H 2.8N4 TY BK
GTIN (EAN)	4050118740912
Qty.	100 items
Packaging	Tray (manual assembly)
Delivery status	This article will no longer be available in the future.
Available until	2025-11-01T00:00:00+01:00

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## Technical data

### Approvals

ROHS	Conform
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### Dimensions and weights

Depth	16 mm	Depth (inches)	0.6299 inch
Height	11.05 mm	Height (inches)	0.435 inch
Width	12.04 mm	Width (inches)	0.474 inch
Net weight	3.59 g		

### Environmental Product Compliance

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

### System specifications

Number of poles	4	LED	No
Solder pin length (l)	2.84 mm	Mounting onto the PCB	THT solder connection
Pitch in inches (P)	0.098 "	Shielding material	Brass
Shielding	Yes	Side termination, characteristic	Solder flange
Plugging force/pole, max.	35 N	Transmission rate	480 Mbps
Number of solder pins per pole	1	Type of connection	Solder connection
Product family	OMNIMATE Data - USB jack	Pitch in mm (P)	2.50 mm
Protection degree	IP20	Plugging cycles	≥ 1500
Outgoing elbow	90°	Shield surface	nickel-plated
Performance-Category	480 Mbps	Soldering process	Manual soldering, Wave soldering
Pulling force / pole, min.	10.00 N	Solder pin dimensions	Octagonal
Tolerance of solder pin position	± 0.1 mm		

### Electrical properties

Dielectric strength, contact / contact	500 V AC	Insulation resistance	≥ 1000 MΩ
Nominal voltage	30 V		

### Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulation resistance	≥ 1000 MΩ
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact base material	Copper alloy	Contact material	Cu-alloy
Contact surface	Gold over nickel	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	60 °C		

### Packing

Packaging	Tray (manual assembly)	VPE length	270.00 mm
VPE width	221.00 mm	VPE height	20.00 mm

### Important note

Notes

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**Technical data**

**Classifications**

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

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**Drawings**

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Drawings

Legend

USB	3.0A	R	1	V	3.0	N	4	TY	BL	USB3.0A R1V 3.0N4 TY BL
<b>Colour / Special Option</b>		<b>BL</b>	blue (plastic)							
		<b>BK</b>	black (plastic)							
		<b>WH</b>	white (plastic)							
		<b>SO</b>	customized product							
<b>Packaging</b>		<b>TY</b>	Tray in box (manual assembly)							
		<b>RL</b>	Tape on Reel (automated assembly)							
		<b>TU</b>	Tube							
<b>Contact surface thickness</b>		<b>4</b>	1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"							
		<b>N</b>	no use							
<b>Solder Pin length</b>		<b>3.2</b>	3.2 mm							
		<b>1.6</b>	1.6 mm							
		<b>D</b>	SMD							
<b>Direction</b>		<b>H</b>	Horizontal (90°, side entry)							
		<b>U</b>	Horizontal, Upright 90°							
		<b>V</b>	Vertical (180°, top entry)							
<b>Number of Ports</b>		<b>1</b>	1 Port							
		<b>21; 41; ...</b>	multi ports about each other, Multilevel							
<b>Assembly on PCB</b>		<b>R</b>	Through Hole Reflow - THR Soldering process: Wave or Reflow soldering							
		<b>S</b>	Surface Mount Technology - SMT Soldering process: Reflow soldering							
		<b>T</b>	Through Hole Technology - THT Soldering process: Wave							
<b>Type / Performance</b>		<b>2.0A</b>	USB 2.0 Type A							
		<b>3.0A</b>	USB 3.0 Type A							