USB3.0A T1H 2.3N4 TY BL

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 3.0, Type A, 5 Gbps, THT solder connection, 90°, Plugging cycles: ≥ 1500, Number of poles: 9, PBT, Gold over nickel, Tray (manual assembly)
Order No.	2563550000
Type	USB3.0A T1H 2.3N4 TY BL
GTIN (EAN)	4050118572674
Qty.	104 items
Packaging	Tray (manual assembly)

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Technical data

Approvals

ROHS	Conform

Dimensions and weights

Depth	16.45 mm	Depth (inches)	0.6476 inch
Height	9.3 mm	Height (inches)	0.3661 inch
Height of lowest version	7.12 mm	Width	14.5 mm
Width (inches)	0.5709 inch	Net weight	0 g

Environmental Product Compliance

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

System specifications

Number of poles	9	LED	No
Solder pin length (l)	2.3 mm	Mounting onto the PCB	THT solder connection
Pitch in inches (P)	0.079 "	Shielding material	Brass
Shielding	Yes	Side termination, characteristic	Solder flange
Plugging force/pole, max.	35 N	Transmission rate	5 Gbps
Number of solder pins per pole	1	Type of connection	Solder connection
Product family	OMNIMATE Data - USB jack	Pitch in mm (P)	2.00 mm
Protection degree	IP20	Plugging cycles	≥ 1500
Outgoing elbow	90°	Shield surface	nickel-plated
Shield tabs	none	Performance-Category	5 Gbps
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	100 V AC	Insulation resistance	≥ 1000 MΩ
Nominal voltage	30 V	Rated current	1.8 A at 250 V AC

Material data

Insulating material	PBT	Colour	blue
Colour chart (similar)	RAL 5012	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation resistance	≥ 1000 MΩ
Moisture Level (MSL)		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	322.00 mm
VPE width	186.00 mm	VPE height	15.00 mm

Important note

Notes	

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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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Drawings

Dimensioned drawing

Dimensioned drawing

Dimensioned drawing

Wiring diagram

USB3.0A T1H 2.3N4 TY BL

Drawings

Legend