

OMNIMATE Data - USB jacks USB3.0A R1V 3.0N2 TY BL

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Universal serial bus 2.0 and 3.0 (SuperSpeed); Type A connectors meet the requirements for high resistance and provide reliable connectivity.

- Up to 5000 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

General ordering data

Available until	2015-06-12
Type	USB3.0A R1V 3.0N2 TY BL
Order No.	1549730000
Version	PCB plug-in connector, USB jacks, THT solder connection, 0.50 mm, No. of poles: 8, 180°, Solder pin length (l): 3 mm, Gold over nickel, Blue, Tray (manual assembly)
GTIN (EAN)	4050118356083
Qty.	100 pc(s).
Packaging	Tray (manual assembly)

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Technical data**Dimensions and weights**

Net weight	2.46 g
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Temperatures

Operating temperature, max.	85 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C

System specifications

LED	No	Mounting onto the PCB	THT solder connection
No. of poles	8	Number of solder pins per pole	1
Outgoing elbow	180°	Packaging	Tray (manual assembly)
Pitch in mm (P)	0.5 mm	Plugging cycles	≥ 1500
Product family	OMNIMATE Data - USB jacks	Protection degree	IP20
Shield tabs	none	Shielding	Yes
Solder eyelet hole diameter (D)	0.7 mm	Solder pin length (l)	3 mm
Transmission rate	5 Gbit/s	Type of connection	Socket
Wiring	Type A, USB 3.0		

Electrical properties

Dielectric strength, contact / contact	100 V AC	Insulation resistance	≥ 1000 MΩ
Rated current	1.5 A	Rated voltage	30 V

Material data

Insulating material	LCP	Colour	Blue
Colour chart (similar)	RAL 5012	Insulating material group	II
CTI	≥ 500	Insulation resistance	≥ 1000 MΩ
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact base material	Phosphorus bronze	Contact surface	Gold over nickel
Layer structure of plug contact	30-80 μ" Ni / 30- μ" Au	Storage temperature, min.	-40 °C
Storage temperature, max.	85 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	85 °C		

Classifications

eClass 6.2	27-25-05-04	eClass 7.1	27-25-05-04
eClass 8.1	19-17-01-25	eClass 9.0	19-17-01-25

Approvals

Approvals



ROHS	Conform
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Data sheet**OMNIMATE Data - USB jacks
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Technical data**Downloads**

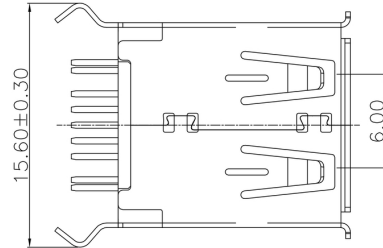
Brochure/Catalogue	MB FREECONTACT EN FL FIELDWIRING EN PI PROFINET CABLING EN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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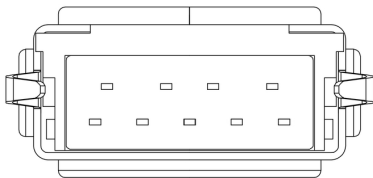
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Drawings

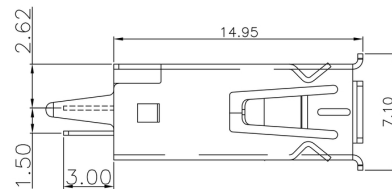
Dimensioned drawing



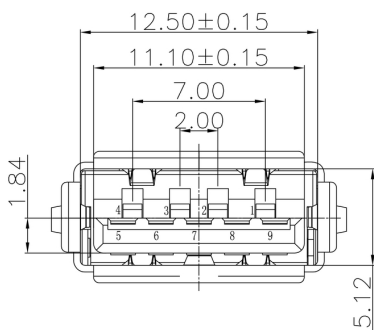
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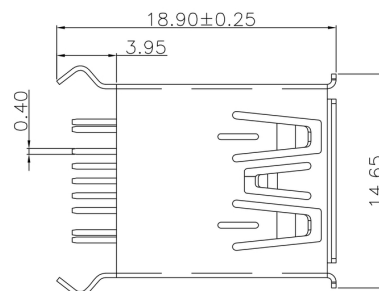
Dimensioned drawing



Dimensioned drawing

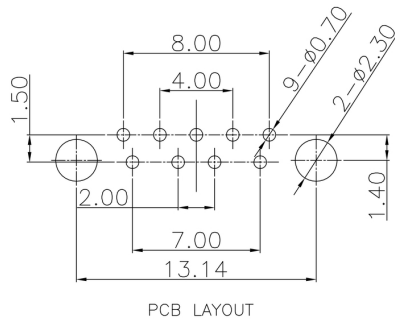


Dimensioned drawing



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Drawings**PCB design**

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.