

**OMNIMATE Data - RJ45 jacks
RJ45C6 T1U 2.7N4N TY****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Product range covers standing and flat designs, as well as versions with the latching hook at the top and bottom.

- THT, THR or SMD soldering processes
- Wide range of different design types, also with integrated LEDs and shield contact tabs
- Packed either in a tray (TY) or on a roll (tape-on-reel, RL)
- Extended temperature range of -40 °C to +85 °C
- Reinforced gold layer for improved corrosion protection
- Transmission rates of up to 1 Gbit/s

General ordering data

Type	RJ45C6 T1U 2.7N4N TY
Order No.	1433910000
Version	PCB plug-in connector, RJ45 jacks, THT solder connection, 1.27 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, Gold over nickel, Black, Tray; $R_s = 10^9 - 10^{12} \Omega$
GTIN (EAN)	4050118238679
Qty.	160 pc(s).
Packaging	Tray; $R_s = 10^9 - 10^{12} \Omega$

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Technical data**Dimensions and weights**

Net weight	3.044 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

Category	Cat. 6	LED	No
Mounting onto the PCB	THT solder connection	No. of poles	8
Number of solder pins per pole	1	Outgoing elbow	90°
Packaging	Tray; Rs = $10^9 - 10^{12} \Omega$	Pitch in inches (P)	0.05 inch
Pitch in mm (P)	1.27 mm	Plugging cycles	750
Product family	OMNIMATE Data - RJ45 jacks	Protection degree	IP20
Shield surface	nickel-plated	Shield tabs	none
Shielding	Yes	Shielding material	Copper alloy
Solder eyelet hole diameter (D)	0.9 mm	Solder eyelet hole diameter tolerance (D)	$\pm 0.1 \text{ mm}$
Solder pin dimensions	0.40 x 0.30 mm	Solder pin length (l)	3.2 mm
Tack option	top	Type of connection	Socket
Wiring	8-core		

Electrical properties

Dielectric strength, contact / contact	$\geq 1000 \text{ V DC}$	Insulation resistance	1000 M Ω at 500 V DC
Rated current	1.5 A	Rated voltage	125 V AC

Material data

Insulating material	PA 66	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 500	Insulation resistance	1000 M Ω at 500 V DC
UL 94 flammability rating	V-0	Contact base material	Phosphorus bronze
Contact surface	Gold over nickel	Layer structure of plug contact	30-80 μm Ni / 30- μm Au
Storage temperature, min.	-40 °C	Storage temperature, max.	85 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	85 °C

Classifications

ETIM 6.0	EC002637	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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Technical data

Downloads

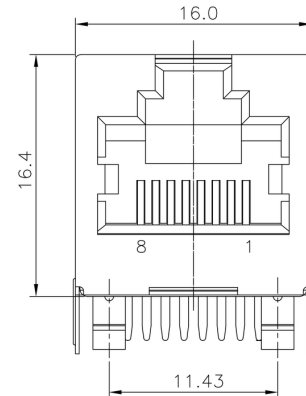
Brochure/Catalogue	CAT 9 IETH 15/16 EN MB FREECONTACT EN FL FIELDWIRING EN PI PROFINET CABLING EN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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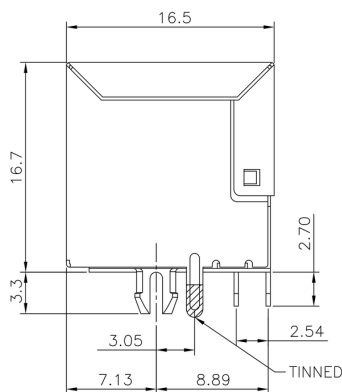
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Drawings

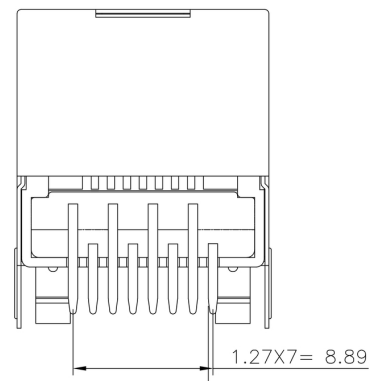
Dimensioned drawing



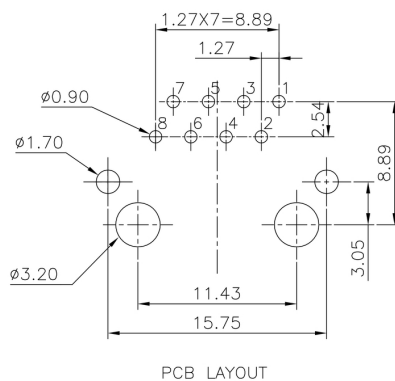
Dimensioned drawing



Dimensioned drawing



PCB design



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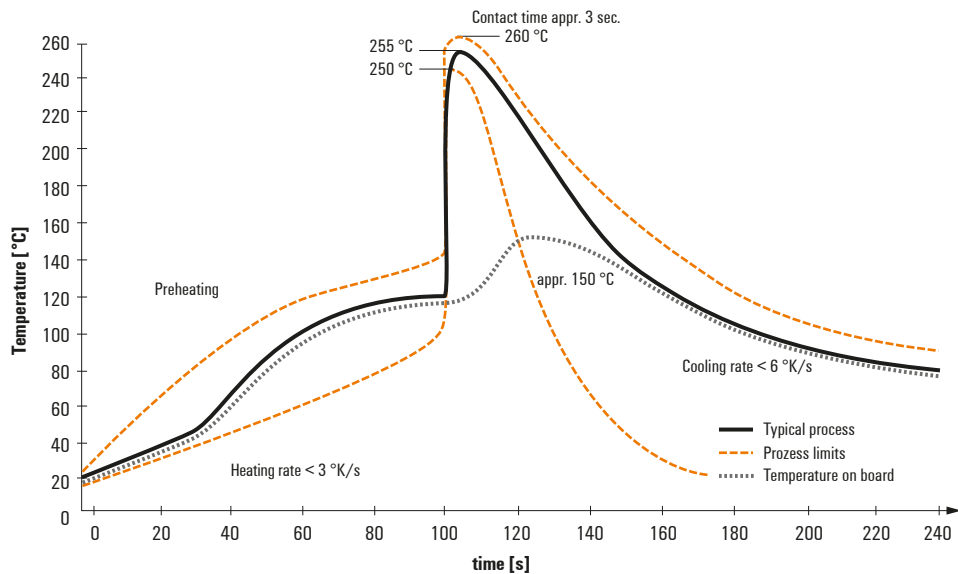
Legend

RJ45	G1	R	1	U	3.2	E	4	GY/GY	TY	RJ45G1 R1U 3.2E4GY/GY TY

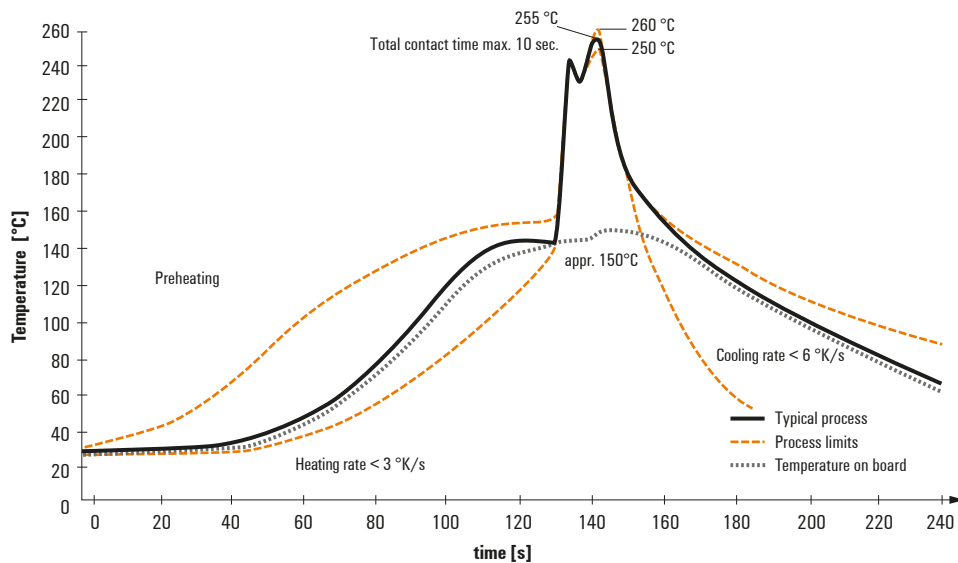
Recommended wave soldering profiles

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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.

We reserve the right to make technical changes.