

RJ45C5E R1D 3.2N4G/Y TY**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The product range encompasses the following designs:

- 90°, lying (horizontal) and 180°, standing (vertical)
- latch up / latch down
- THT, THR or SMD soldering processes
- Wide range of different design types, also with integrated LEDs and shield contact tabs
- Performance category Cat. 3 to Cat. 6
- Packed either in a tray (TY) or on a roll (tape-on-reel, RL)
- Compatible with modular RJ45 connector according to ANSI / TIA-1096-A and IEC 60603
- Dielectric strength ≥ 1500 V AC RMS (2250 V AC peak value) according to IEEE 802.3
- Dielectric strength ≥ 1500 V AC (peak value) or ≥ 1500 V DC according to IEC 60603

Properties and advantages:

- Extended temperature range of -40°C to $+85^{\circ}\text{C}$ for maximum performance
- Reinforced gold layer (30 μm) for improved corrosion protection
- At least 0.3mm stand-off ensures a perfect soldering result

General ordering data

Version	PCB plug-in connector, RJ45 jacks, Cat. 5e , THT/THR solder connection, 90°, Latch option: bottom, LED: Yes, Number of poles: 8, Tray (manual assembly)
Order No.	2613200000
Type	RJ45C5E R1D 3.2N4G/Y TY
GTIN (EAN)	4050118623802
Qty.	600 pc(s).
Packaging	Tray (manual assembly)

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Technical data

Dimensions and weights

Depth	21.27 mm	Depth (inches)	0.837 inch
Height	13.45 mm	Height (inches)	0.53 inch
Height of lowest version	13.45 mm	Net weight	1.615 g
Width	15.88 mm	Width (inches)	0.625 inch

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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System specifications

Category	Cat. 5e	LED	Yes
Latch option	bottom	Mounting onto the PCB	THT/THR solder connection
Number of poles	8	Outgoing elbow	90°
Performance-Category	Cat. 5e	Pitch in mm (P)	1.27 mm
Product family	OMNIMATE Data - RJ45 modular jack	Protection degree	IP20
Shield surface	nickel-plated	Shielding	Yes
Solder pin length (l)	3.2 mm	Soldering process	Reflow soldering, Manual soldering, Wave soldering

Electrical properties

Dielectric strength, contact / contact	1000 V DC	Dielectric strength, contact / shield	1500 V DC
Rated voltage	125 V		

Material data

Insulating material	PA 9T	Colour	black
Colour chart (similar)	RAL 9011	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact surface	Gold over nickel
Storage temperature, min.	-40 °C	Storage temperature, max.	85 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	85 °C

Packing

Packaging	Tray (manual assembly)	VPE length	365 mm
VPE width	275 mm	VPE height	30 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ECLASS 9.0	27-44-04-02	ECLASS 9.1	27-44-04-02
ECLASS 10.0	27-44-04-02	ECLASS 11.0	27-46-02-01

Approvals

ROHS	Conform
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Downloads

Brochure/Catalogue	Catalogues in PDF-format
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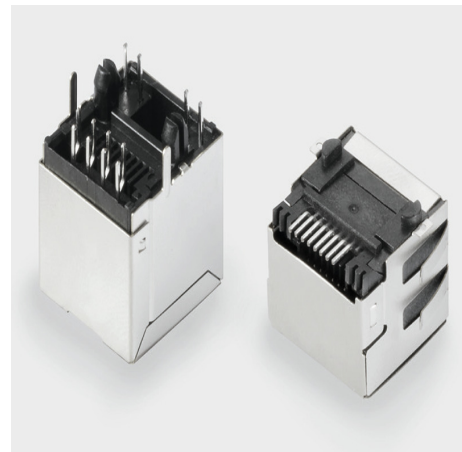
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Drawings

Product benefits

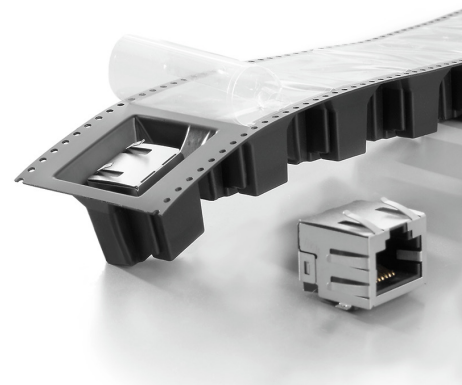


Product benefits



Suitable for all soldering processes
SMT, THT or THR

Product benefits

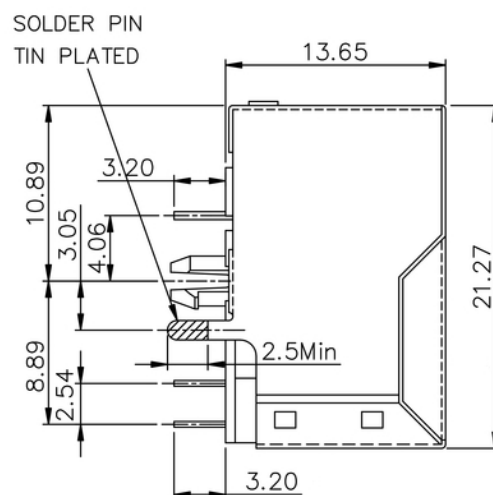
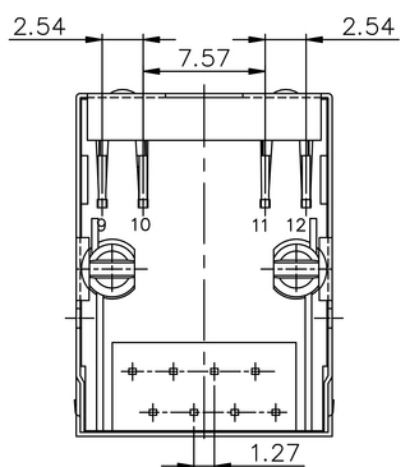
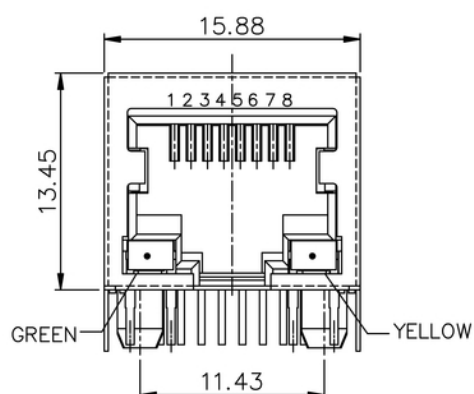
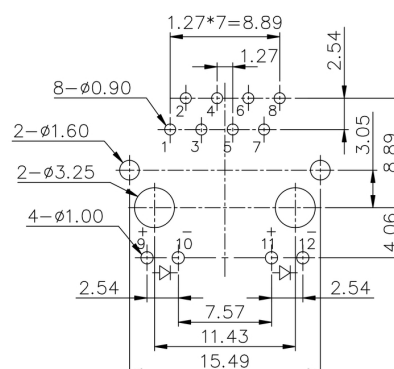


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Drawings

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

Recommended wave soldering profiles

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

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:

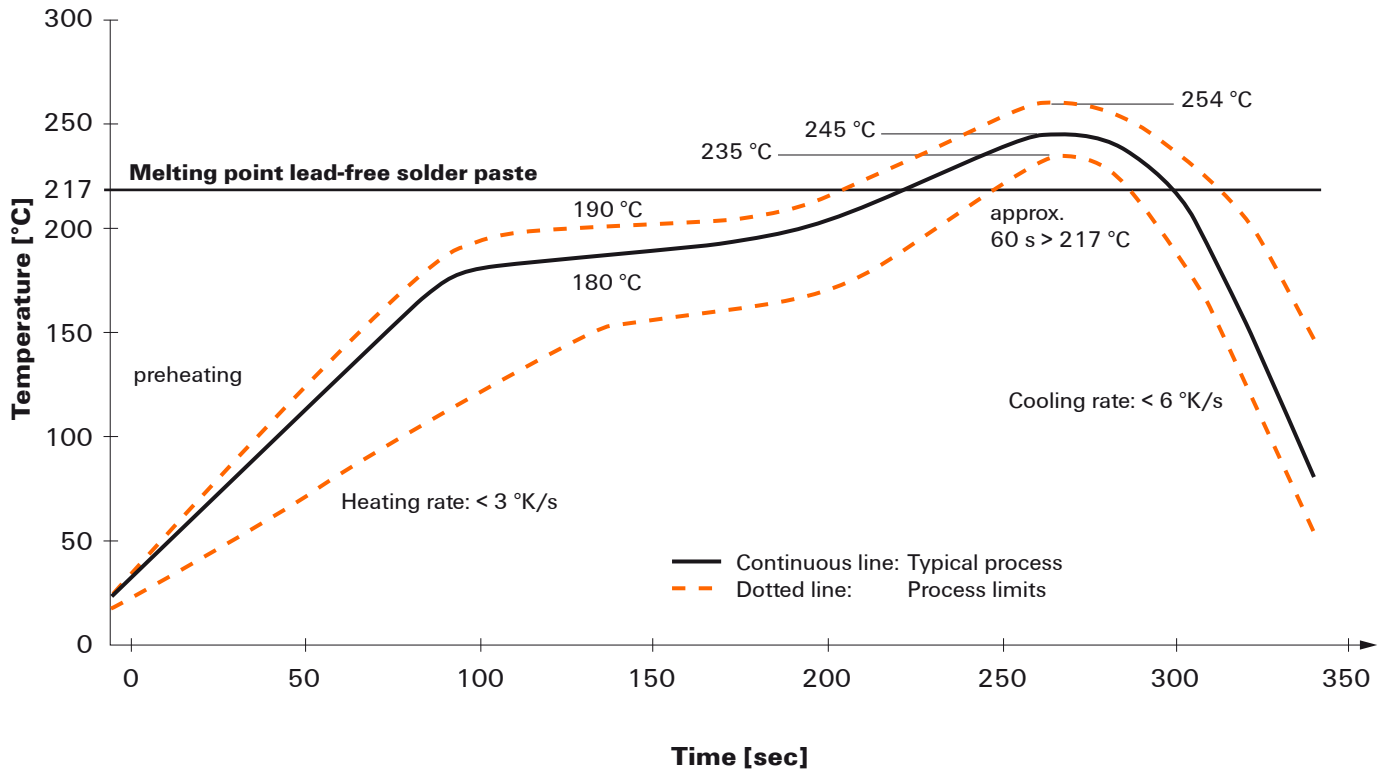
- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

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.

Recommended reflow soldering profile

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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.