

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°C for maximum performance
- Reinforced gold layer (30µ") 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. 6 , THT/ THR solder connection, 180°, LED: No, Number of poles: 8, Tape
Order No.	<u>2634590000</u>
Туре	RJ45C6 R1V 3.2N4N TY
GTIN (EAN)	4050118651270
Qty.	140 pc(s).
Packaging	Таре



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

-	-		
Dime	ensions	s and	weights

Depth	16.7 mm	Depth (inches)	0.657 inch
Height	16.5 mm	Height (inches)	0.65 inch
Width	16 mm	Width (inches)	0.63 inch
Net weight	7.475 a		

System specifications

Category	Cat. 6	LED	No
Mounting onto the PCB	THT/THR solder	Number of poles	
•	connection	·	8
Outgoing elbow	180°	Performance-Category	Cat. 6
Pitch in mm (P)	2.54 mm	Plugging cycles	750
Product family	OMNIMATE Data - RJ45	Protection degree	
	modular jack		IP20
Shield surface	nickel-plated	Shielding	Yes
Solder pin length (I)		Soldering process	Reflow soldering, Manual
	3.2 mm		soldering, Wave soldering
Tolerance of solder pin position	± 0.1 mm	Type of connection	Solder connection

Electrical properties

Dielectric strength, contact / contact	1000 V DC	Dielectric strength, contact / shield	1500 V DC
Insulation strength	≥ 500 MΩ	Rated voltage	125 V

Material data

Insulating material	PA 9T	Colour	b l ack
Colour chart (similar)	RAL 9011	Insulation strength	≥ 500 MΩ
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact surface	Gold over nickel	Operating temperature, min.	-40 °C
Operating temperature, max.	80 °C		

Packing

Packaging	Tape	VPE length	317 mm
VPE width	188 mm	VPE height	68 mm

Classifications

ETIM 6.0	EC002637	ET I M 7.0	EC002637
ETIM 8.0	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	ECLASS 12.0	27-46-02-01

Approvals

ROHS	Conform

Downloads

Approval/Certificate/Document of	
Conformity	Certificate of Compliance
Catalogues	Catalogues in PDF-format



Weidmüller Interface GmbH & Co. KG

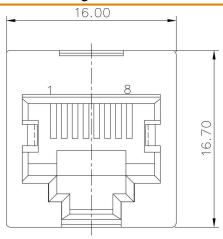
Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

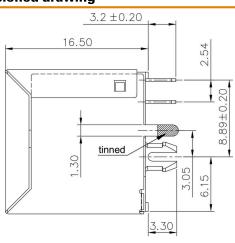
Drawings



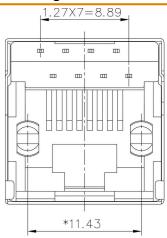
Dimensioned drawing



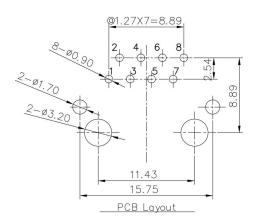
Dimensioned drawing



Dimensioned drawing



PCB design

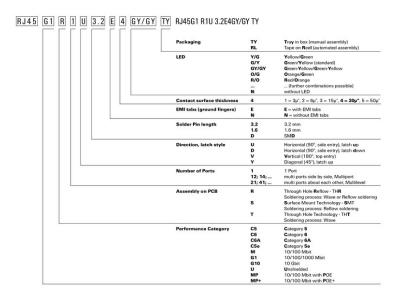


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings





Recommended wave solderding profiles

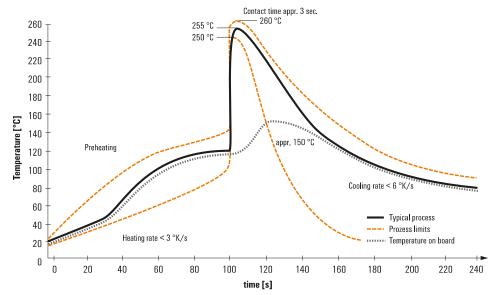
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold

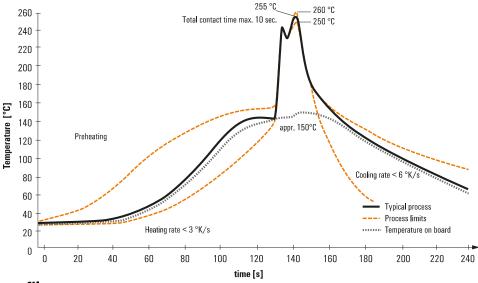
Germany

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.

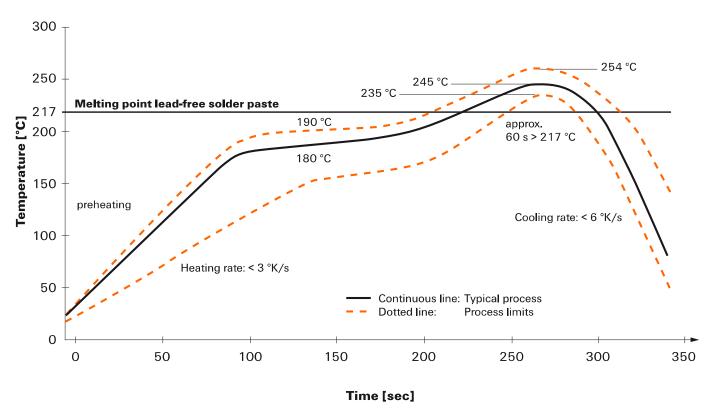


Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com



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 ≤ +3K/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 ≥ -6K/s solder is cured. Board and components cool down while avoiding cold cracks.