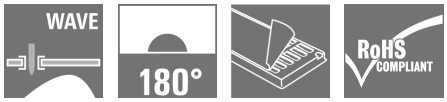
RJ45C5 T1V 3.2N4N TY

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°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. 5 , THT solder connection, 180°, Shield tabs: none, 30...80 µ" Ni / ≥ 30 µ" Au , LED: No, Number of poles: 8, Tray
Order No.	1433810000
Type	RJ45C5 T1V 3.2N4N TY
GTIN (EAN)	4050118238563
Qty.	120 pc(s).
Packaging	Tray

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Technical data

Dimensions and weights

Depth	16.7 mm	Depth (inches)	0.657 inch
Height	20 mm	Height (inches)	0.787 inch
Height of lowest version	16.5 mm	Net weight	2.983 g
Width	16 mm	Width (inches)	0.63 inch

System specifications

Category	Cat. 5	
LED	No	
Mounting onto the PCB	THT solder connection	
Number of poles	8	
Number of solder pins per pole	1	
Outgoing elbow	180°	
Performance-Category	Cat. 5	
Pitch in inches (P)	0.05 inch	
Pitch in mm (P)	1.27 mm	
Product family	OMNIMATE Data - RJ45 modular jack	
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)	± 0.1 mm	
Solder pin dimensions	0.40 x 0.30 mm	
Solder pin length (l)	3.2 mm	
Solder pin length tolerance	+0.5 / -0.5 mm	
Solder pin length tolerance	Lower tolerance with prefix (reveals minimum)	-0.5
	Upper tolerance with prefix (reveals maximum)	+0.5
	Tolerance, unit	mm
Soldering process	Manual soldering, Wave soldering	
Type of connection	Socket connector	
Wiring	8-core	

Electrical properties

Dielectric strength, contact / contact	≥ 1000 V DC	Rated current	1.5 A
Rated voltage	125 V		

Standards

Connector standard	IEC 60603-7-51

Material data

Insulating material	PA 66	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	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		

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Packing

Packaging	Tray	VPE length	20 mm
VPE width	175 mm	VPE height	295 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

Approvals	
ROHS	Conform
UL File Number Search	E471884

Downloads

Engineering Data	STEP
Product Change Notification	PCN PCN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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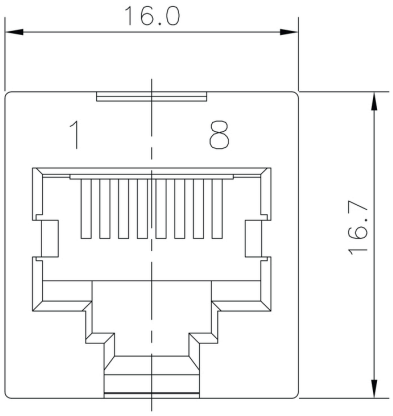
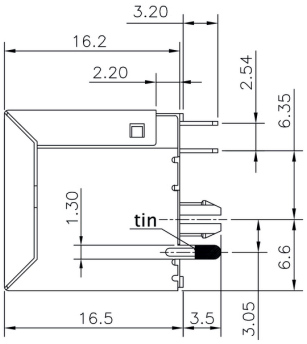
Drawings

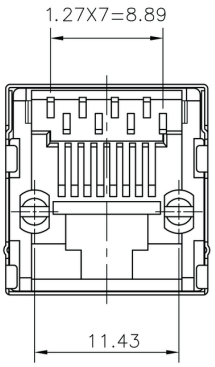
Dimensioned drawing



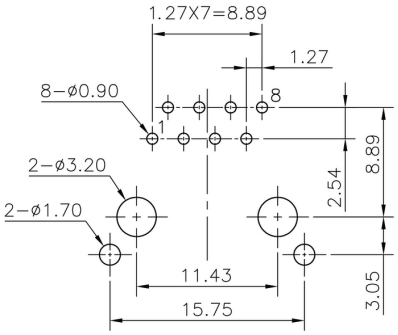
Dimensioned drawing



Dimensioned drawing



PCB design



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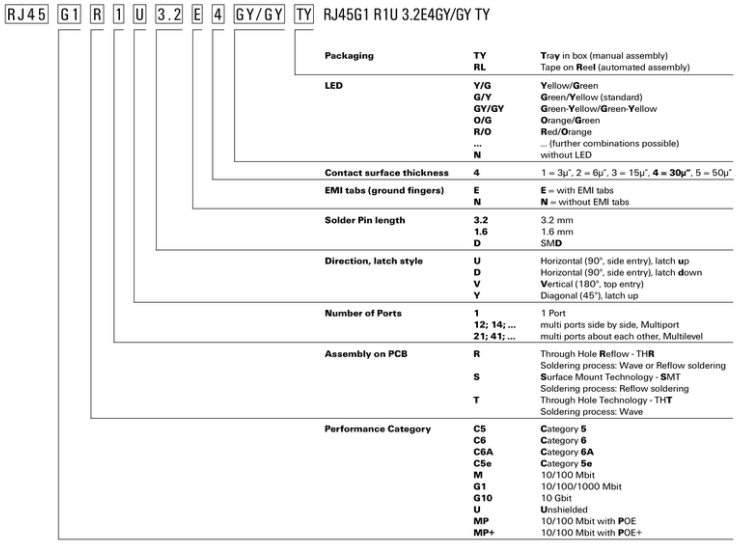

Legend

Creation date March 23, 2021 10:40:51 PM CET

Wave Solder Profile

Recommended wave solderding profiles

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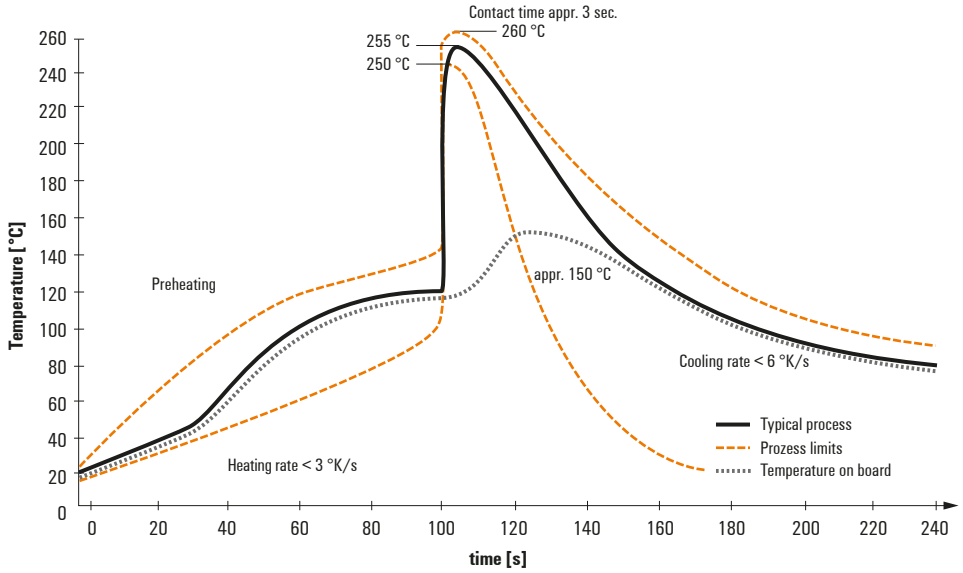
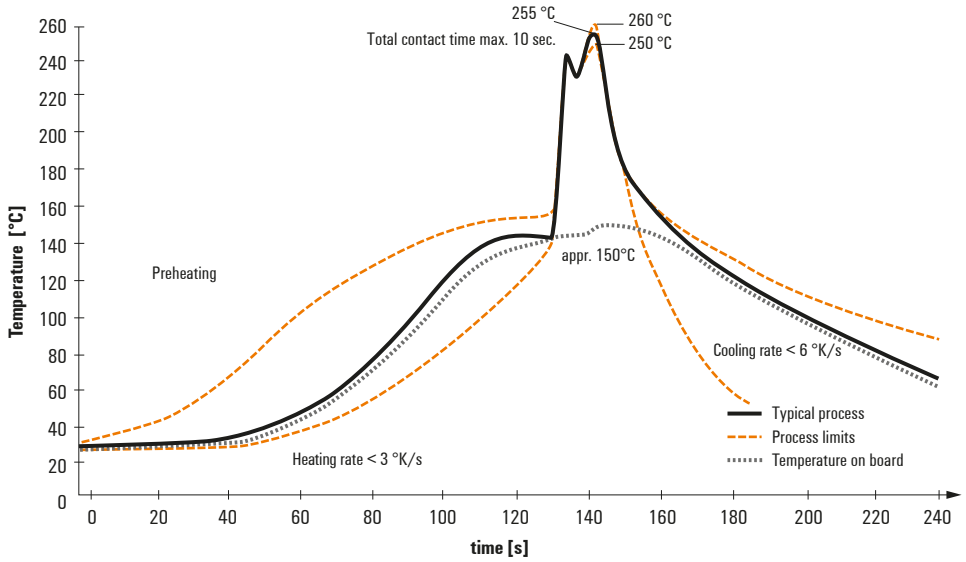
Single Wave:



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.