

**RJ45C5 T1V 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  $\geq 1500$  V AC RMS (2250 V AC peak value) according to IEEE 802.3
- Dielectric strength  $\geq 1500$  V AC (peak value) or  $\geq 1500$  V DC according to IEC 60603

Properties and advantages:

- Extended temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  for maximum performance
- Reinforced gold layer ( $30\mu\text{m}$ ) 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 $\mu\text{m}$ Ni / $\geq 30 \mu\text{m}$ Au , LED: Yes, green, yellow, Number of poles: 12, Tray (manual assembly)
Order No.	<a href="#">2562960000</a>
Type	RJ45C5 T1V 3.2N4G/Y TY
GTIN (EAN)	4050118571981
Qty.	120 pc(s).
Packaging	Tray (manual assembly)

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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	Width	16 mm
Width (inches)	0.63 inch	Net weight	8.067 g

## System specifications

Category	Cat. 5	Colour of left LED	green
Colour of right LED	yellow	Forward current	20 mA
Forward voltage, max.	2.6 V	Forward voltage, min.	1.8 V
LED	Yes	Mounting onto the PCB	THT solder connection
Number of poles	12	Number of solder pins per pole	1
Outgoing elbow	180°	Performance-Category	Cat. 5
Pitch in inches (P)	0.05 "	Pitch in mm (P)	1.27 mm
Plugging cycles	750	Product family	OMNIMATE Data - RJ45 modular jack
Protection degree	IP20	Shield surface	nickel-plated
Shield tabs	none	Shielding	Yes
Shielding material	Brass	Solder eyelet hole diameter (D)	0.9 mm
Solder eyelet hole diameter tolerance (D)	± 0.1 mm	Solder pin dimensions	Octagonal
Solder pin length (l)	3.2 mm	Soldering process	Manual soldering, Wave soldering
Tolerance of solder pin position	± 0.15 mm	Type of connection	Solder connection
Wiring	8-core		

## Electrical properties

Dielectric strength, contact / contact	1000 V DC	Dielectric strength, contact / shield	1500 V DC
Insulation strength	≥ 500 MΩ	PoE / PoE+	conforming to IEEE 802.3at
Rated current	1.5 A	Rated voltage	125 V
Volume resistance	<25 mΩ		

## Standards

Connector standard	IEC 60603-7-51
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## Material data

Insulating material	PA 66	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 500 MΩ
UL 94 flammability rating	V-0	Contact base material	Phosphorus bronze
Contact material	Cu-alloy	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		

## Packing

Packaging	Tray (manual assembly)	VPE length	317 mm
VPE width	192 mm	VPE height	68 mm

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ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	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	ECLASS 13.0	27-46-02-01

**Environmental Product Compliance**

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

**Approvals**

ROHS	Conform
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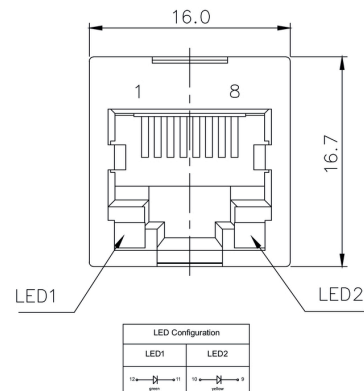
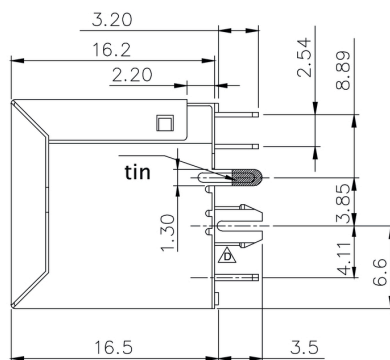
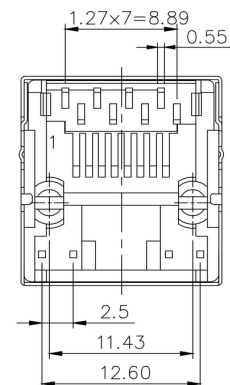
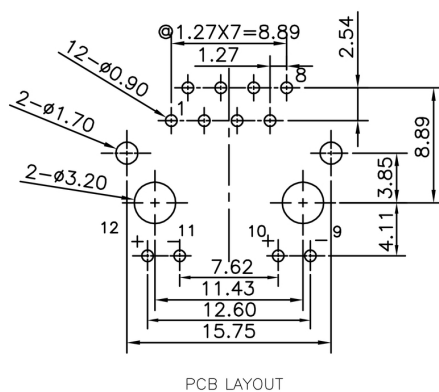
**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Certificate of Compliance</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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**Drawings**
**Dimensioned drawing**

**Dimensioned drawing**

**Dimensioned drawing**

**PCB design**


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RJ45	G1	R	1	U	3.2	E	4	GY/GY	TY	RJ45G1 R1U 3.2E4GY/GY TY
										<b>Packaging</b>
										<b>TY</b>
										Tray in box (manual assembly)
										Tape on <b>Reel</b> (automated assembly)
										<b>LED</b>
										<b>Y/G</b>
										Yellow/Green
										<b>G/Y</b>
										Green/Yellow (standard)
										<b>GY/GY</b>
										Green-Yellow/Green-Yellow
										<b>O/G</b>
										Orange/Green
										<b>R/O</b>
										Red/Orange
										... (further combinations possible)
										<b>N</b>
										without LED
										<b>Contact surface thickness</b>
										<b>4</b>
										1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"
										<b>EMI tabs (ground fingers)</b>
										<b>E</b>
										E = with EMI tabs
										<b>N</b>
										N = without EMI tabs
										<b>Solder Pin length</b>
										<b>3.2</b>
										3.2 mm
										<b>1.6</b>
										1.6 mm
										<b>D</b>
										SMD
										<b>Direction, latch style</b>
										<b>U</b>
										Horizontal (90°, side entry), latch up
										<b>D</b>
										Horizontal (90°, side entry), latch down
										<b>V</b>
										Vertical (180°, top entry)
										<b>Y</b>
										Diagonal (45°), latch up
										<b>Number of Ports</b>
										<b>1</b>
										1 Port
										<b>12; 14; ...</b>
										multi ports side by side, Multiport
										<b>21; 41; ...</b>
										multi ports about each other, Multilevel
										<b>Assembly on PCB</b>
										<b>R</b>
										Through Hole Reflow - THR
										Soldering process: Wave or Reflow soldering
										<b>S</b>
										Surface Mount Technology - SMT
										Soldering process: Reflow soldering
										<b>T</b>
										Through Hole Technology - THT
										Soldering process: Wave
										<b>Performance Category</b>
										<b>C5</b>
										Category 5
										<b>C6</b>
										Category 6
										<b>C6A</b>
										Category 6A
										<b>C5e</b>
										Category 5e
										<b>M</b>
										10/100 Mbit
										<b>G1</b>
										10/100/1000 Mbit
										<b>G10</b>
										10 Gbit
										<b>U</b>
										Unshielded
										<b>MP</b>
										10/100 Mbit with POE
										<b>MP+</b>
										10/100 Mbit with POE+

## Legend

Creation date July 16, 2024 1:42:56 PM CEST

Catalogue status 13.07.2024 / We reserve the right to make technical changes.

## 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](http://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.

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