

RJ45C5 T1U 2.8E4G/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 ($30\mu\text{m}$) 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, 90°, Latch option: top, Shield tabs: 6 tabs, 30...80 μm Ni / $\geq 30 \mu\text{m}$ Au , LED: Yes, green, yellow, Number of poles: 12, Tray (manual assembly)
Order No.	2562880000
Type	RJ45C5 T1U 2.8E4G/Y TY
GTIN (EAN)	4050118571905
Qty.	140 pc(s).
Packaging	Tray (manual assembly)

RJ45C5 T1U 2.8E4G/Y TY

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	15.7 mm	Depth (inches)	0.618 inch
Height	16.74 mm	Height (inches)	0.659 inch
Height of lowest version	13.44 mm	Net weight	6.186 g
Width	16.4 mm	Width (inches)	0.646 inch

System specifications

Category	Cat. 5	
Colour of left LED	green	
Colour of right LED	yellow	
LED	Yes	
Latch option	top	
Mounting onto the PCB	THT solder connection	
Number of poles	12	
Number of solder pins per pole	1	
Outgoing elbow	90°	
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	6 tabs	
Shielding	Yes	
Shielding material	Brass	
Solder eyelet hole diameter (D)	0.9 mm	
Solder eyelet hole diameter tolerance (D)	± 0.1 mm	
Solder pin length (l)	2.75 mm	
Solder pin length tolerance	+0.2 / -0.2 mm	
Solder pin length tolerance	Lower tolerance with prefix (reveals minimum)	-0.2
	Upper tolerance with prefix (reveals maximum)	+0.2
	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 AC	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		

Creation date March 29, 2021 7:35:27 PM CEST

RJ45C5 T1U 2.8E4G/Y TY**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Technical data****Packing**

Packaging	Tray (manual assembly)	VPE length	0 m
VPE width	0 m	VPE height	0 m

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

DownloadsEngineering Data [STEP](#)

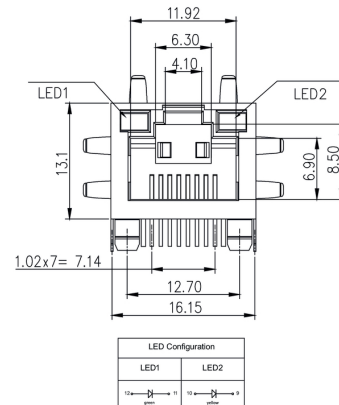
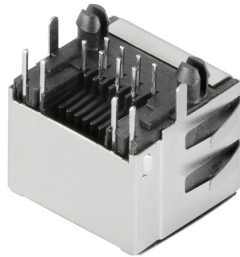
RJ45C5 T1U 2.8E4G/Y TY

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

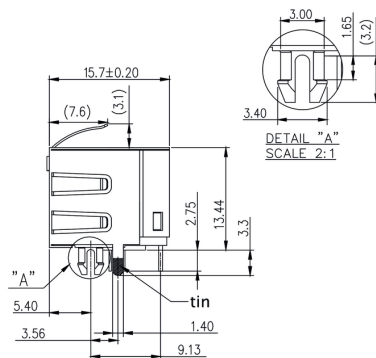
www.weidmueller.com

Drawings

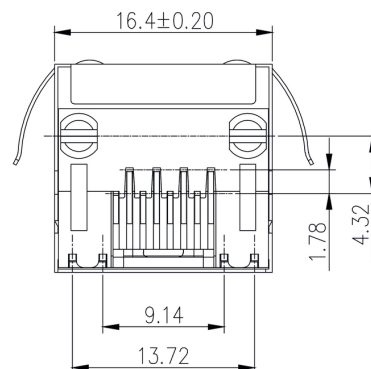
Dimensioned drawing



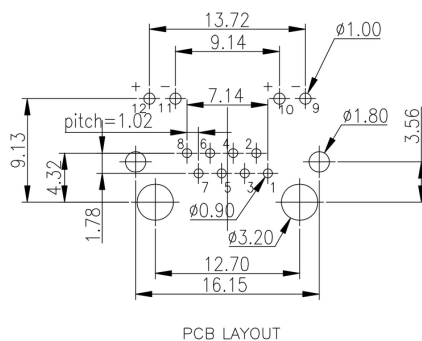
Dimensioned drawing



Dimensioned drawing



PCB design



RJ45C5 T1U 2.8E4G/Y TY

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

Dimensioned drawing

RJ45	G1	R1	U1	U2	E4	GY/GY	TY	RJ45G1 RIU 3.2E4G/GY TY	
							Packaging	TY RL	Ty in box (manual assembly) Tape on Reel (automated assembly)
							LED	Y/G G/Y GV/GY O/G R/O ... N	Yellow/Green Green/Yellow (standard) Green-Yellow-Green-Yellow Orange-Green Red/Orange ... (further combinations possible) without LED
							Contact surface thickness	4	1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"
							EMI tabs (ground fingers)	E N	E = with EMI tabs N = without EMI tabs
							Solder Pin length	3.2 1.6 D	3.2 mm 1.6 mm SMD
							Direction, latch style	U D V Y	Horizontal (90°, side entry), latch up Horizontal (90°, side entry), latch down Vertical (180°, top entry) Diagonal (45°), latch up
							Number of Ports	1 12; 14; ... 21; 41; ...	1 Port multi ports side by side, Multiport multi ports about each other, Multilevel
							Assembly on PCB	R S T	Through Hole Reflow - THR Soldering process: Wave or Reflow soldering Surface Mount Technology - SMT Soldering process: Reflow soldering Through Hole Technology - THT Soldering process: Wave
							Performance Category	C5 C6 C6A C5e M G1 G10 U	Category 5 Category 6 Category 6A Category 5e 10/100 Mbit 10/100/1000 Mbit 10 Gbit Unshielded
								NP NP+	10/100 Mbit with PoE 10/100 Mbit with PoE+

Legend

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.