

RJ45C5 T1U 2.8N4N 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	OMNIMATE Data - RJ45 modular jack, PCB plug-in connector, Cat. 5, THT solder connection, 90°, top, none, No, Plugging cycles: 750, Number of poles: 8, PA 66, 30...80 μm Ni / ≥ 30 μm Au , Tray
Order No.	1455240000
Type	RJ45C5 T1U 2.8N4N TY
GTIN (EAN)	4050118261356
Qty.	140 items
Packaging	Tray

RJ45C5 T1U 2.8N4N TY

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

www.weidmueller.com

Technical data

Approvals

ROHS	Conform
------	---------

Dimensions and weights

Depth	15.71 mm	Depth (inches)	0.6185 inch
Height	15.86 mm	Height (inches)	0.6244 inch
Height of lowest version	13.11 mm	Width	16.41 mm
Width (inches)	0.6461 inch	Net weight	2.44 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System specifications

Number of poles	8	LED	No
Solder pin length (l)	2.75 mm	Mounting onto the PCB	THT solder connection
Pitch in inches (P)	0.050 "	Shielding material	Brass
Shielding	Yes	Side termination, characteristic	Solder flange
Solder eyelet hole diameter tolerance (D)± 0.1 mm		Number of solder pins per pole	1
Type of connection	Solder connection	Solder eyelet hole diameter (D)	0.9 mm
Category	Cat. 5	Product family	OMNIMATE Data - RJ45 modular jack
Pitch in mm (P)	1.27 mm	Protection degree	IP20
Plugging cycles	750	Wiring	8-core
Outgoing elbow	90°	Shield surface	nickel-plated
Shield tabs	none	Performance-Category	Cat. 5
Soldering process	Manual soldering, Wave soldering	Latch option	top
Solder pin dimensions	0.40 x 0.30 mm	Tolerance of solder pin position	± 0.1 mm

Electrical properties

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

Standards

Connector standard	IEC 60603-7-5 1
--------------------	-----------------

Material data

Insulating material	PA 66	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation resistance	≥ 500 MΩ
Moisture Level (MSL)		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

RJ45C5 T1U 2.8N4N TY

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

www.weidmueller.com

Technical data**Packing**

Packaging	Tray	VPE length	319.00 mm
VPE width	189.00 mm	VPE height	66.00 mm

Important note

Notes

Classifications

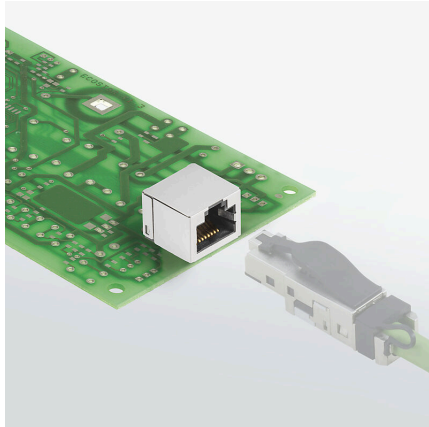
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

RJ45C5 T1U 2.8N4N TY

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

www.weidmueller.com

Drawings



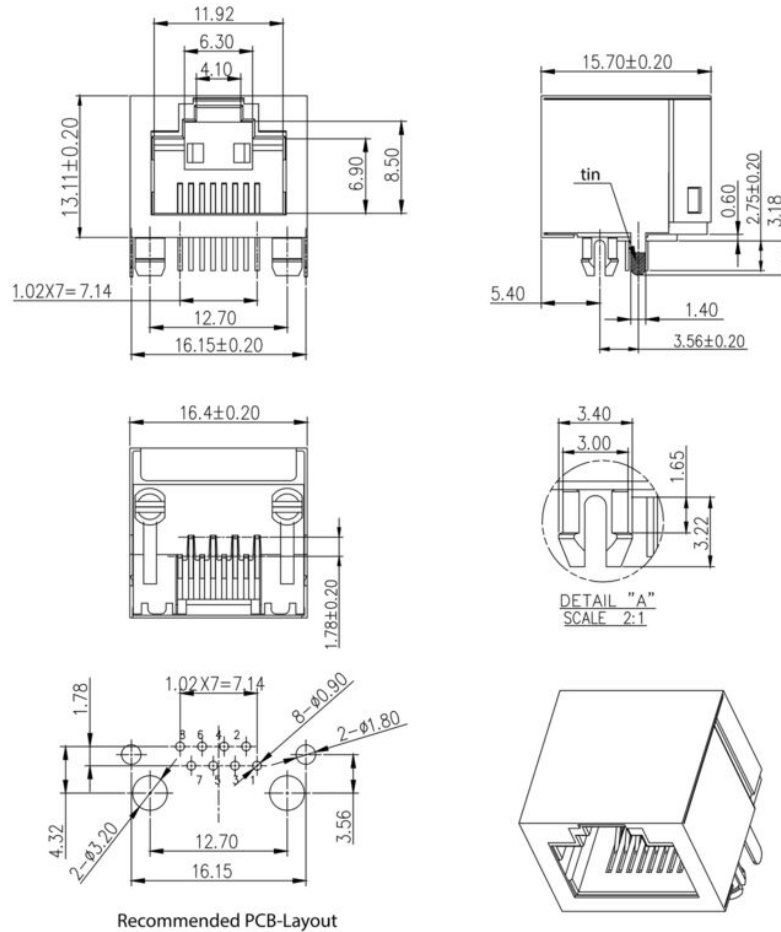
RJ45C5 T1U 2.8N4N TY

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

Drawings

www.weidmueller.com

Detailed drawing



RJ45C5 T1U 2.8N4N TY

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

Drawings

www.weidmueller.com

Code	Value	Description
RJ45	G1	RJ45G1 R1U 3.2E4GY/GY TY
R	1	Through Hole Reflow - THR
U	3.2	Solder Pin length: 3.2 mm
E	4	Contact surface thickness: 4 μm
4	GY/GY	LED: Green-Yellow/Green-Yellow
TY		Packaging: Tray in box (manual assembly)
		RL: Tape on Reel (automated assembly)
		Y/G: Yellow/Green
		G/Y: Green/Yellow (standard)
		GY/GY: Green-Yellow/Green-Yellow
		O/G: Orange/Green
		R/O: Red/Orange
		...: (further combinations possible)
		N: without LED
		1 = 3μm, 2 = 6μm, 3 = 15μm, 4 = 30μm, 5 = 50μm
		E = with EMI tabs
		N = without EMI tabs
		3.2 mm
		1.6 mm
		SMD
		Horizontal (90°, side entry), latch up
		Horizontal (90°, side entry), latch down
		Vertical (180°, top entry)
		Diagonal (45°), latch up
		1 Port
		multi ports side by side, Multiport
		multi ports about each other, Multilevel
		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
		Category 5
		Category 6
		Category 6A
		Category 5e
		10/100 Mbit
		10/100/1000 Mbit
		10 Gbit
		Unshielded
		10/100 Mbit with POE
		10/100 Mbit with POE+

Legend