Data sheet

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°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	OMNIMATE Data - RJ45 modular jack, PCB plug-in connector, Cat. 5, THT solder connection, 90°, top, 6 tabs, Yes, Plugging cycles: 750, Number of poles: 12, PA 6T, 30...80 µ" Ni / ≥ 30 µ" Au , Tray (manual assembly)
Order No.	2562880000
Type	RJ45C5 T1U 2.8E4G/Y TY
GTIN (EAN)	4050118571905
Qty.	140 items
Packaging	Tray (manual assembly)

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E471884

Dimensions and weights

Depth	15.7 mm	Depth (inches)	0.6181 inch
Height	16.74 mm	Height (inches)	0.6591 inch
Height of lowest version	13.44 mm	Width	16.4 mm
Width (inches)	0.6457 inch	Net weight	5.44 g

Environmental Product Compliance

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

System specifications

Number of poles	12	
LED	Yes	
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°	
Forward current	20 mA	
Forward voltage, max.	2.6 V	
Shield surface	nickel-plated	
Colour of right LED	yellow	
Shield tabs	6 tabs	
Performance-Category	Cat. 5	
Soldering process	Manual soldering, Wave soldering	
Latch option	top	
Solder pin dimensions	Octagonal	
Solder pin length tolerance	Lower tolerance with prefix (reveals minimum)	-0.2
	Upper tolerance with prefix (reveals maximum)	+0.2
	Tolerance, unit	mm
Solder pin length tolerance	+0.2 / -0.2 mm	
Tolerance of solder pin position	± 0.15 mm	
Forward voltage, min.	1.8 V	

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Colour of left LED	green

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 60603-7-51

Material data

Insulating material	PA 6T	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

Packing

Packaging	Tray (manual assembly)	VPE length	318.00 mm
VPE width	189.00 mm	VPE height	65.00 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		

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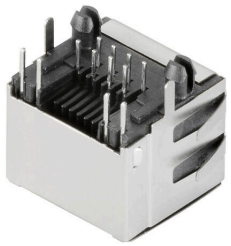
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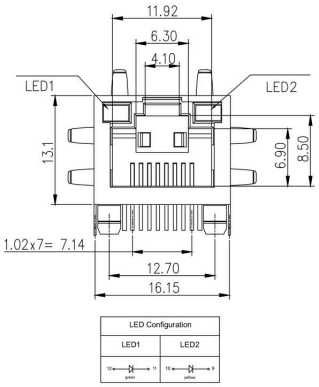
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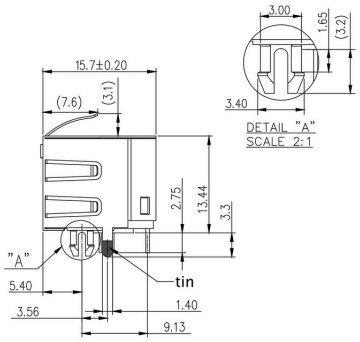
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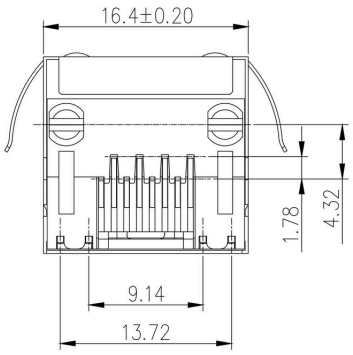
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Drawings

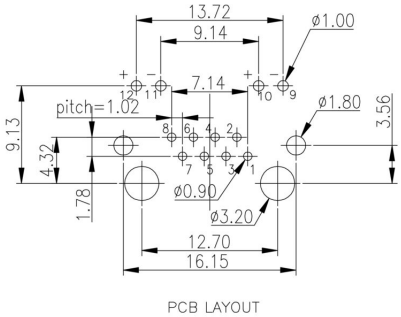








PCB design



PCB LAYOUT

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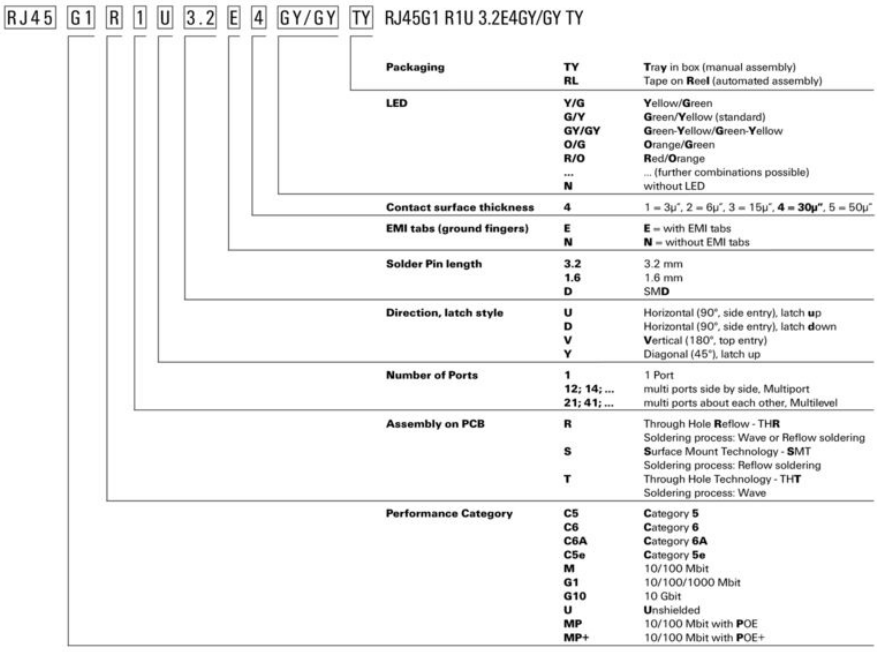
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Drawings

Dimensioned drawing



Legend

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