RJ45C5 R1U 2.4N4Y/G RL

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/THR solder connection, 90°, top, none, Yes, Plugging cycles: 750, Number of poles: 12, PA 9T, 30...80 µ" Ni / ≥ 30 µ" Au , Tape
Order No.	3134150000
Type	RJ45C5 R1U 2.4N4Y/G RL
GTIN (EAN)	4099987342094
Qty.	200 items
Packaging	Tape

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Technical data

Approvals

ROHS	Conform

Dimensions and weights

Depth	15 mm	Depth (inches)	0.5906 inch
Height	11.3 mm	Height (inches)	0.4449 inch
Height of lowest version	13.44 mm	Width	16.18 mm
Width (inches)	0.637 inch	Net weight	9 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 (I)	2.4 mm		
Mounting onto the PCB	THT/THR 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		
Outgoing elbow	90°		
Forward current	20 mA		
Forward voltage, max.	2.6 V		
Shield surface	nickel-plated		
Colour of right LED	green		
Shield tabs	none		
Performance-Category	Cat. 5		
Soldering process	Reflow soldering, 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		
Forward voltage, min.	1.8 V		
Colour of left LED	yellow		

Electrical properties

Dielectric strength, contact / shield	1500 V DC	Dielectric strength, contact / contact	1000 V DC
Volume resistance	<25 mΩ	Insulation resistance	≥ 500 MΩ

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Technical data

Nominal voltage	125 V	PoE / PoE+	conforming to IEEE 802.3at

Standards

Connector standard	IEC 60603-7-51		

Material data

Insulating material	PA 9T	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation resistance	≥ 500 MΩ
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact base material	Phosphor bronze alloy	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	Tape	VPE length	0.00 mm
VPE width	0.00 mm	VPE height	0.00 mm
Tape reel diameter ⌀ (A)	330 mm	Surface resistance	Rs = 109 - 1012 Ω

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 R1U 2.4N4Y/G RL

Weidmüller ⅀⋲

Drawings

RJ45C5 R1U 2.4N4Y/G RL

Drawings

RJ45	G1	R	1	U	3.2 E 4 GY/GY TY	RJ45G1 R1U 3.2E4GY/GY TY

Packaging	TY		Tray in box (manual assembly)
	RL		Tape on Reel (automated assembly)
LED	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
Contact surface thickness	4		1 = 3µ", 2 = 6µ", 3 = 15µ", **4 = 30µ"**, 5 = 50µ"
EMI tabs (ground fingers)	E		**E** = with EMI tabs
	N		**N** = without EMI tabs
Solder Pin length	3.2		3.2 mm
	1.6		1.6 mm
	D		SM**D**
Direction, latch style	U		Horizontal (90°, side entry), latch **u**p
	D		Horizontal (90°, side entry), latch **d**own
	V		**V**ertical (180°, top entry)
	Y		Diagonal (45°), latch up
Number of Ports	1		1 Port
	12; 14; ...		multi ports side by side, Multiport
	21; 41; ...		multi ports about each other, Multilevel
Assembly on PCB	R		Through Hole **R**eflow - TH**R**
			Soldering process: Wave or Reflow soldering
	S		**S**urface Mount Technology - S**M**T
			Soldering process: Reflow soldering
	T		Through Hole Technology - TH**T**
			Soldering process: Wave
Performance Category	C5		Category **5**
	C6		Category **6**
	C6A		Category **6A**
	C5e		Category **5e**
	M		10/100 Mbit
	G1		10/100/1000 Mbit
	G10		10 Gbit
	U		**U**nshielded
	MP		10/100 Mbit with **P**O**E**
	MP+		10/100 Mbit with **P**O**E**+

Legend