

RJ45C5 R1D 1.9E4G/Y RL**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/THR solder connection, 90°, bottom, 6 tabs, Yes, Plugging cycles: 750, Number of poles: 10, PA 9T, Tape
Order No.	3139090000
Type	RJ45C5 R1D 1.9E4G/Y RL
Qty.	
Packaging	Tape

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Technical data

Dimensions and weights

Depth	21.3 mm	Depth (inches)	0.8386 inch
Height	17.06 mm	Height (inches)	0.6717 inch
Height of lowest version	13.76 mm	Width	15.7 mm
Width (inches)	0.6181 inch		

System specifications

Number of poles	10
LED	Yes
Solder pin length (l)	1.9 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°
Shield surface	nickel-plated
Colour of right LED	yellow
Shield tabs	6 tabs
Performance-Category	Cat. 5
Soldering process	Reflow soldering, Manual soldering, Wave soldering
Latch option	bottom
Solder pin dimensions	Octagonal
Solder pin length tolerance	Lower tolerance with prefix (reveals minimum) -0.5 Upper tolerance with prefix (reveals maximum) +0.5 Tolerance, unit mm
Solder pin length tolerance	+0.5 / -0.5 mm
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	PoE / PoE+	conforming to IEEE 802.3at

Standards

Connector standard	IEC 60603-7-51
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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

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Technical data

Contact base material	Phosphorus bronze	Contact material	Cu-alloy
Contact surface	Gold over nickel	Storage temperature, min.	-40 °C
Storage temperature, max.	85 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	85 °C		

Packing

Packaging	Tape	Tape reel diameter $\varnothing$ (A)	330 mm
Surface resistance	$R_s = 109 - 1012 \Omega$		

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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Drawings

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