

## RJ45C5E S1U DE4G/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  $\geq 1500$  V AC RMS (2250 V AC peak value) according to IEEE 802.3
- Dielectric strength  $\geq 1500$  V AC (peak value) or  $\geq 1500$  V DC according to IEC 60603

Properties and advantages:

- Extended temperature range of  $-40^{\circ}\text{C}$  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. 5e, SMD solder connection, 90°, top, 6 tabs, Yes, Plugging cycles: 750, Number of poles: 12, PA 9T, 30...80 $\mu\text{m}$ Ni / $\geq 30$ $\mu\text{m}$ Au , Tape
Order No.	<a href="#">2562890000</a>
Type	RJ45C5E S1U DE4G/Y RL
GTIN (EAN)	4050118571912
Qty.	200 items
Packaging	Tape

## RJ45C5E S1U DE4G/Y RL

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

www.weidmueller.com

## Technical data

### Approvals

Approvals	CURUS
ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E471884

### Dimensions and weights

Depth	15.7 mm	Depth (inches)	0.6181 inch
Height	14.71 mm	Height (inches)	0.5791 inch
Height of lowest version	13.41 mm	Width	18.8 mm
Width (inches)	0.7402 inch	Net weight	3.36 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)	3.7 mm	
Mounting onto the PCB	SMD 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	SMD solder connection	
Solder eyelet hole diameter (D)	0.9 mm	
Category	Cat. 5e	
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. 5e	
Soldering process	Reflow soldering, Manual soldering	
Latch option	top	
Solder pin dimensions	Octagonal	
Coplanarity:	100 µm	
Solder pin length tolerance	Lower tolerance with prefix (reveals minimum)	-0.2
	Upper tolerance with prefix (reveals maximum)	+0,02
	Tolerance, unit	mm
Solder pin length tolerance	+0,02 / -0.2 mm	
Tolerance of solder pin position	± 0.15 mm	
Forward voltage, min.	1.8 V	
Colour of left LED	green	

## RJ45C5E S1U DE4G/Y RL

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

## Technical data

## 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 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	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	Tape	VPE length	329.00 mm
VPE width	329.00 mm	VPE height	63.00 mm
Tape reel diameter Ø (A)	330 mm	Surface resistance	Rs = 109 - 1012 Ω

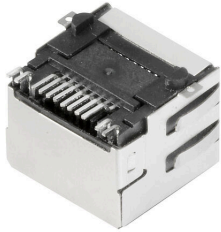
## Important note

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		

**Drawings**



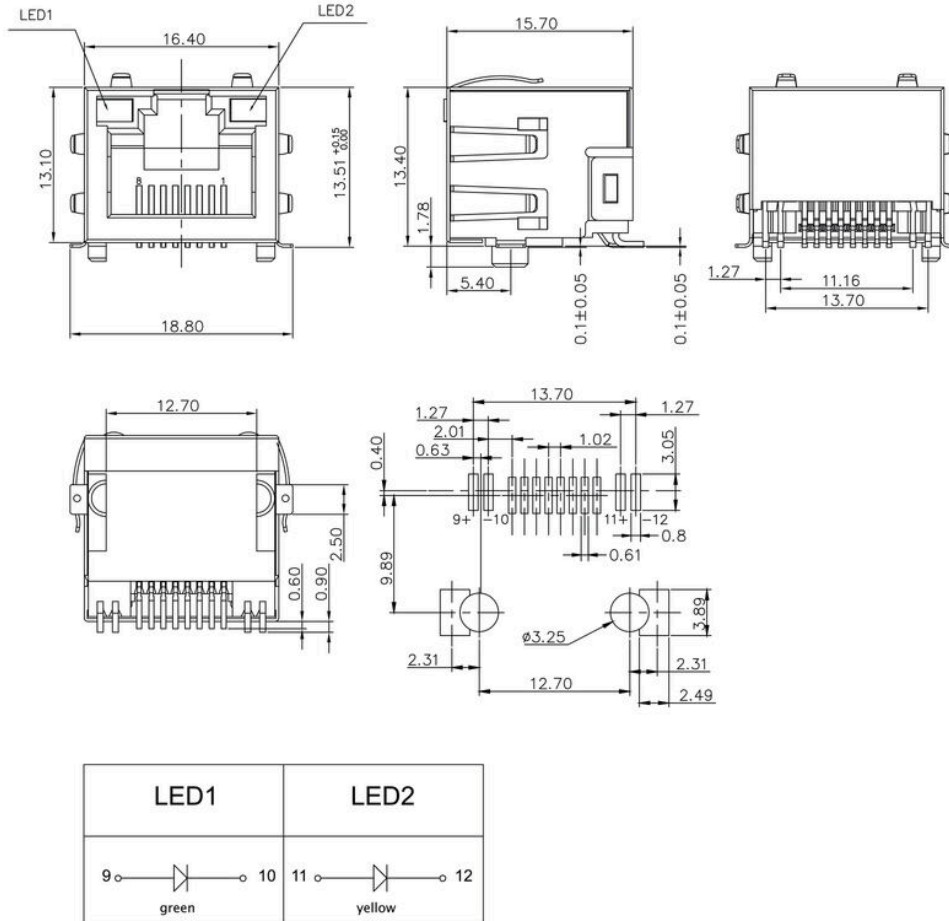
**RJ45C5E S1U DE4G/Y RL**

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

**Drawings**

www.weidmueller.com

**Dimensional drawing**



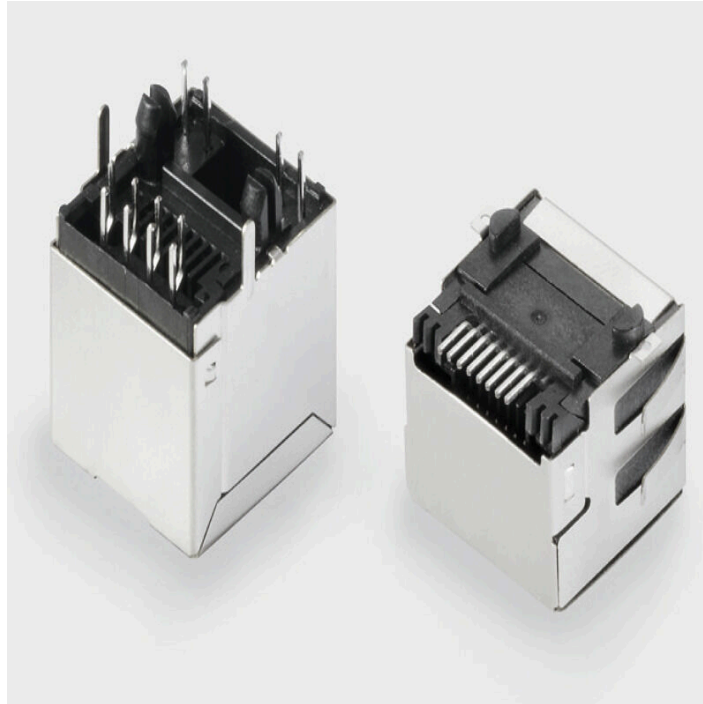
RJ45C5E S1U DE4G/Y RL

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

Drawings

www.weidmueller.com

Product benefits



Trouble-free assembly Short, chamfered solder pins

Code	Value	Description
RJ45	G1	RJ45G1
R	1	Through Hole Reflow - THR
U	3.2	Horizontal (90°, side entry), latch up
E	4	Horizontal (90°, side entry), latch down
GY/GY	TY	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