

## RJ45C5 R1V 3.2N4G/Y TY

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

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	PCB plug-in connector, RJ45 jacks, Cat. 5 , THT/THR solder connection, 180°, Shield tabs: none, 30...80 $\mu\text{m}$ Ni / $\geq 30$ $\mu\text{m}$ Au , LED: Yes, green, yellow, Number of poles: 8, Tray
Order No.	<a href="#">2516380000</a>
Type	RJ45C5 R1V 3.2N4G/Y TY
GTIN (EAN)	4050118529944
Qty.	120 pc(s).
Packaging	Tray

## RJ45C5 R1V 3.2N4G/Y TY

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

## Technical data

## Dimensions and weights

Depth	16.7 mm	Depth (inches)	0.657 inch
Height	20 mm	Height (inches)	0.787 inch
Height of lowest version	16.5 mm	Net weight	3.417 g
Width	16 mm	Width (inches)	0.63 inch

## System specifications

Category	Cat. 5
Colour of left LED	green
Colour of right LED	yellow
LED	Yes
Mounting onto the PCB	THT/THR solder connection
Number of poles	8
Number of solder pins per pole	1
Outgoing elbow	180°
Performance-Category	Cat. 5
Pitch in inches (P)	0.05 inch
Pitch in mm (P)	1.27 mm
Plugging cycles	750
Product family	OMNIMATE Data - RJ45 modular jack
Protection degree	IP20
Shield surface	nickel-plated
Shield tabs	none
Shielding	Yes
Shielding material	Brass
Solder eyelet hole diameter (D)	0.9 mm
Solder eyelet hole diameter tolerance (D)	± 0.1 mm
Solder pin length (l)	3.2 mm
Solder pin length tolerance	+0.5 / -0.5 mm
Solder pin length tolerance	Lower tolerance with prefix (reveals minimum) -0.5
	Upper tolerance with prefix (reveals maximum) +0.5
	Tolerance, unit mm
Soldering process	Manual soldering, Wave soldering
Type of connection	Socket connector
Wiring	8-core

## Electrical properties

Dielectric strength, contact / contact	1500 V DC	Insulation strength	1000 MΩ at 500 V DC
Rated current	1.5 A	Rated voltage	125 V AC

## Standards

Connector standard	IEC 60603-7-51
--------------------	----------------

**RJ45C5 R1V 3.2N4G/Y TY**

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

[info@weidmueller.com](mailto:info@weidmueller.com)**Technical data****Material data**

Insulating material	PA 9T	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	1000 MΩ at 500 V DC
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact base material	Phosphorus bronze	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	VPE length	0 m
VPE width	0 m	VPE height	0 m

**Classifications**

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	eClass 11.0	27460201

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	E471884

**Downloads**

Engineering Data	<a href="#">STEP</a>
------------------	----------------------

**RJ45C5 R1V 3.2N4G/Y TY**

**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

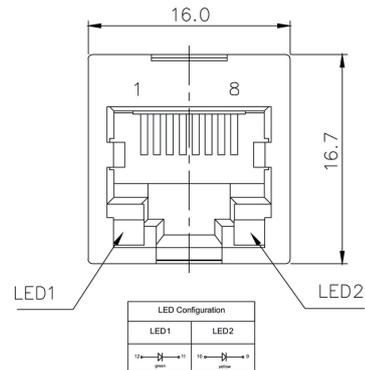
32760 Detmold

Tel. +49 5231 14-0

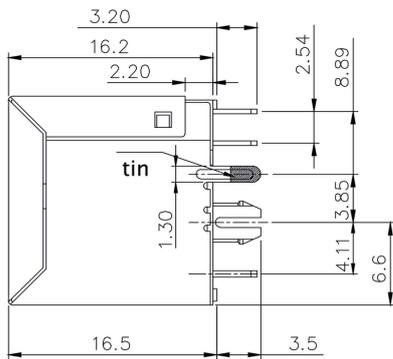
Fax. +49 5231 14-2083

**Drawings**

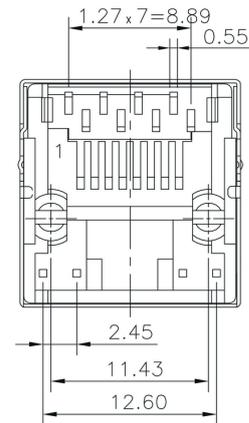
**Dimensioned drawing** [info@weidmueller.com](mailto:info@weidmueller.com)



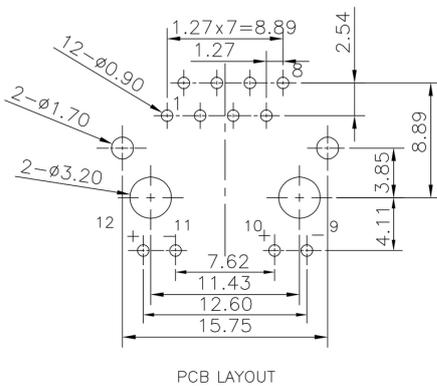
**Dimensioned drawing**



**Dimensioned drawing**



**PCB design**



RJ45C5 R1V 3.2N4G/Y TY

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

Drawings

Code	Value	Description
RJ45	G1	RJ45G1
R	R	R1U
U	U	3.2E
3.2	E	4
E	4	GY/GY
4	GY/GY	TY
TY	TY	RJ45G1 R1U 3.2E4GY/GY TY
Packaging	TY RL	Tray in box (manual assembly) Tape on Reel (automated assembly)
LED	Y/G G/Y GY/GY O/G R/O ... N	Yellow/Green Green/Yellow (standard) Green-Yellow/Green-Yellow Orange/Green Red/Orange ... (further combinations possible) without LED
Contact surface thickness	4	1 = 3µ, 2 = 6µ, 3 = 15µ, 4 = 30µ, 5 = 50µ
EMI tabs (ground fingers)	E N	E = with EMI tabs N = without EMI tabs
Solder Pin length	3.2 1.6 D	3.2 mm 1.6 mm SMD
Direction, latch style	U D V Y	Horizontal (90°, side entry), latch up Horizontal (90°, side entry), latch down Vertical (180°, top entry) Diagonal (45°), latch up
Number of Ports	1 12; 14; ... 21; 41; ...	1 Port multi ports side by side, Multiport multi ports about each other, Multilevel
Assembly on PCB	R S T	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
Performance Category	C5 C6 C6A C5e M G1 G10 U MP MP+	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