Data sheet

RJ45C5 T1V 3.2N4G/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, 180°, none, Yes, Plugging cycles: 750, Number of poles: 12, PA 66, 30...80 µ" Ni / ≥ 30 µ" Au , Tray (manual assembly)
Order No.	2562960000
Type	RJ45C5 T1V 3.2N4G/Y TY
GTIN (EAN)	4050118571981
Qty.	120 items
Packaging	Tray (manual assembly)

Data sheet

RJ45C5 T1V 3.2N4G/Y TY

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

www.weidmueller.com

Technical data

Approvals

ROHS	Conform

Dimensions and weights

Depth	16.7 mm	Depth (inches)	0.6575 inch
Height	20 mm	Height (inches)	0.7874 inch
Height of lowest version	16.5 mm	Width	16 mm
Width (inches)	0.6299 inch	Net weight	7.1 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)	3.2 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	180°	Forward current	20 mA
Forward voltage, max.	2.6 V	Shield surface	nickel-plated
Colour of right LED	yellow	Shield tabs	none
Performance-Category	Cat. 5	Soldering process	Manual soldering, Wave soldering
Solder pin dimensions	Octagonal	Tolerance of solder pin position	± 0.15 mm
Forward voltage, min.	1.8 V	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 66	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

RJ45C5 T1V 3.2N4G/Y TY

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

www.weidmueller.com

Technical data

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	317.00 mm
VPE width	192.00 mm	VPE height	68.00 mm

Important note

Notes

Classifications

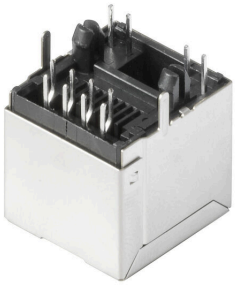
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

RJ45C5 T1V 3.2N4G/Y TY

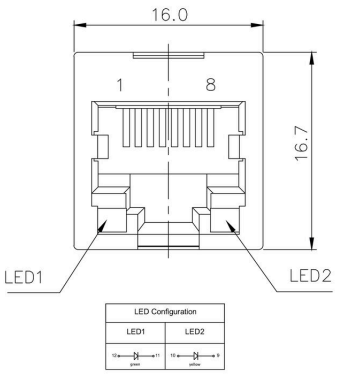
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

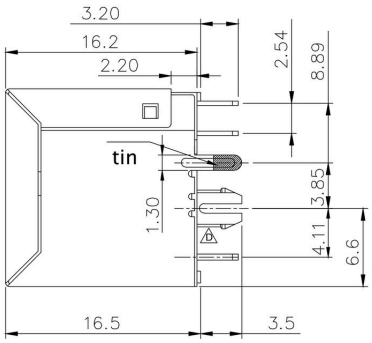
Drawings



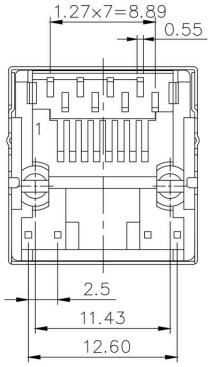
Dimensioned drawing



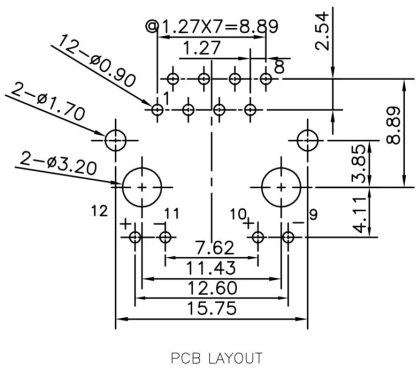
Dimensioned drawing



Dimensioned drawing



PCB design



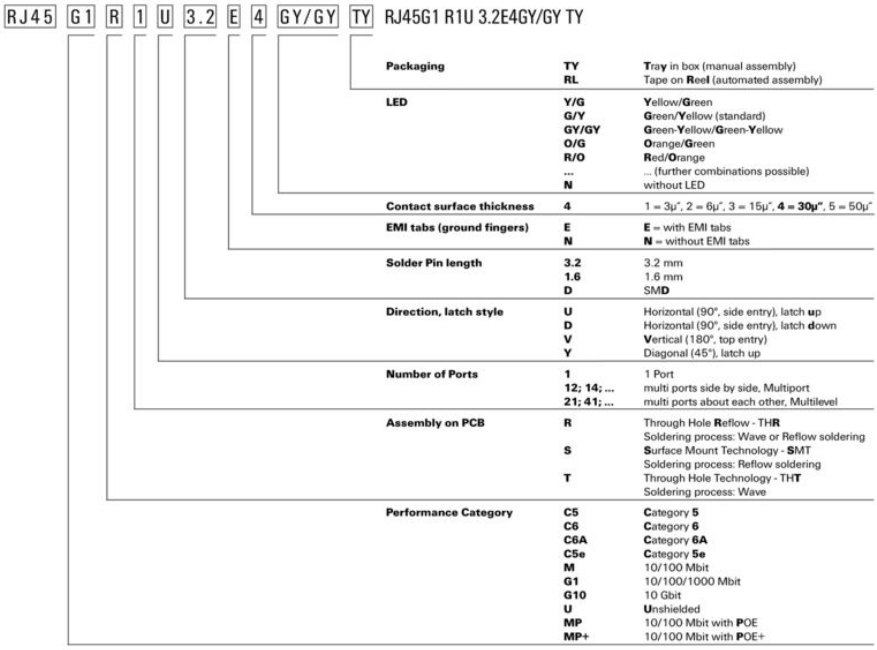
PCB LAYOUT

RJ45C5 T1V 3.2N4G/Y TY

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

www.weidmueller.com

Drawings



Legend