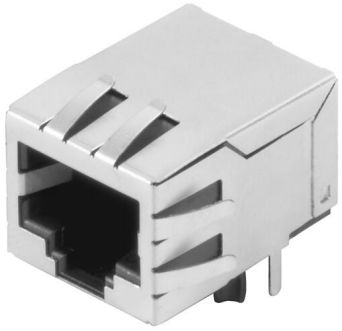
Data sheet

RJ45M T1D 3.2E4N TY

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

www.weidmueller.com





RJ45 transmitter sockets (magnetics) for gigabit applications (1000 base-T) with integrated compensation actively counteracts inductive and capacitive couplings and saves space on the PCB.
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
• Transmission rates of up to 1 Gbps
• 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
• Compliance with IEEE 802.3 requirements (1000Base-T, 1 Gbps, IEEE 802.3ab or 100Base-Tx, 100 Mbps, IEEE 802.3u)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 transformer jack, PCB plug-in connector, THT solder connection, 90°, bottom, 6 tabs, No, Plugging cycles: 750, Number of poles: 8, PA 6T, 30...80 µ" Ni / ≥ 30 µ" Au , Tray (manual assembly)
Order No.	2474160000
Type	RJ45M T1D 3.2E4N TY
GTIN (EAN)	4050118485943
Qty.	120 items
Packaging	Tray (manual assembly)
Delivery status	This article will no longer be available in the future.
Last order date	2026-12-31T00:00:00+01:00

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E471884

Dimensions and weights

Depth	21.35 mm	Depth (inches)	0.8405 inch
Height	16.8 mm	Height (inches)	0.6614 inch
Height of lowest version	13.5 mm	Width	15.9 mm
Width (inches)	0.626 inch	Net weight	3.24 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System specifications

Number of poles	8	LED	No
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	Transmission rate	10/100 MBit/s
Number of solder pins per pole	1	Type of connection	Solder connection
Solder eyelet hole diameter (D)	0.9 mm	Product family	OMNIMATE Data - RJ45 transformer jack
Pitch in mm (P)	1.27 mm	Protection degree	IP20
Plugging cycles	750	Wiring	8-core
Outgoing elbow	90°	Shield surface	nickel-plated
Shield tabs	6 tabs	Performance-Category	10/100 MBit/s
Soldering process	Manual soldering, Wave soldering	Latch option	bottom
Solder pin dimensions	Octagonal	Tolerance of solder pin position	± 0.1 mm

Electrical properties

Dielectric strength, contact / shield	1500 V DC	Dielectric strength, contact / contact	1000 V DC
Insulation resistance	≥ 500 MΩ	Nominal voltage	125 V
Rated current	1.5 A		

Standards

Connector standard	IEC 60603-7

Material data

Insulating material	PA 6T	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

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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	319.00 mm
VPE width	191.00 mm	VPE height	69.00 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		

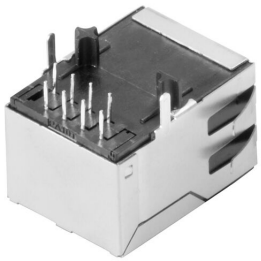
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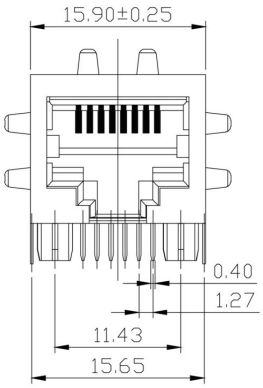
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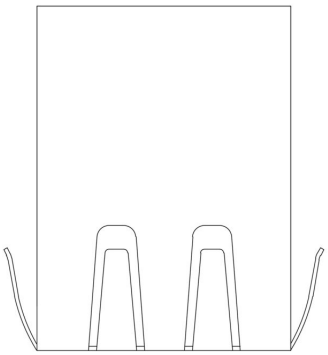
Drawings



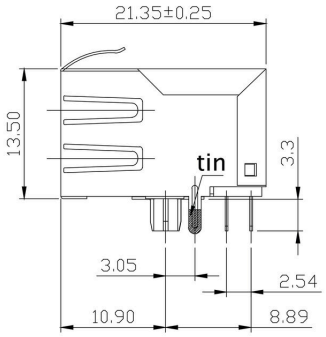
Dimensioned drawing



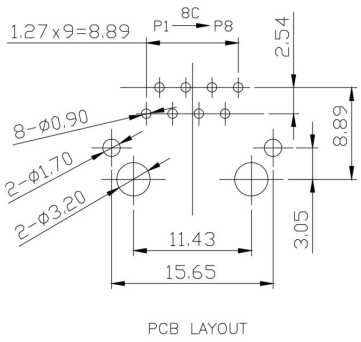
Dimensioned drawing



Dimensioned drawing

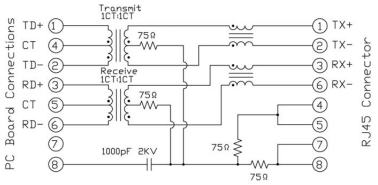


PCB design



PCB LAYOUT

Wiring diagram



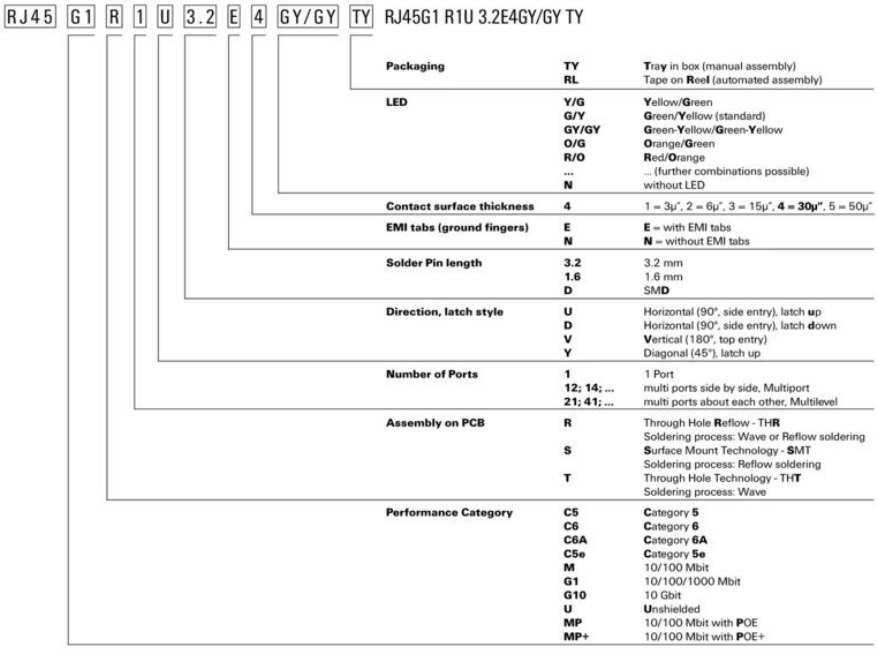
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Drawings



Type codes

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