

OMNIMATE-data - RJ45-uttag
RJ45C5 R1V 3.2N4N RL**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Produktsortimentet omfattar följande designtyper:

- 90°, liggande (horisontell) och 180°, stående (vertikal)
- spärr upp/spärr ned
- Lödningsprocess THT, THR eller SMD
- Brett utbud av olika designtyper, även med inbyggda lysdioder och skärmade kontaktflikar
- Effektkategori kat. 3 till kat. 6
- Förpackad antingen på bricka (TY) eller antistatiskt på tape-on-reel (RL)

Egenskaper och fördelar:

- Utökat temperaturområde på -40 °C till +85 °C för maximal prestandakapacitet
- Förstärkt guldager (30 µm) för förbättrat korrosionsskydd
- Minst 3 mm fritt utrymme garanterar ett perfekt lödresultat

Allmänna beställningsdata

Typ	RJ45C5 R1V 3.2N4N RL
Art.nr.	2562970000
Artikelbeteckning	Kretskortsstickanslutning, RJ45-uttag, Cat. 5 , THT/THR lödanslutning, 180°, Skärmflikar: ingen, 30-80 µm Ni / 30- µm Au , LED: Nej, Antal poler: 8, Tape
GTIN (EAN)	4050118571998
Frp	200 Stück
Förpackning	Tape

**OMNIMATE-data - RJ45-uttag
RJ45C5 R1V 3.2N4N RL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Tekniska data**Mått och vikter**

Bredd	16 mm	Byggbredd (tum)	0,63 inch
Höjd	20 mm	Bygghöjd (tum)	0,787 inch
Höjd lägstbyggande	16,5 mm	Djup	16,7 mm
Byggdjup (tum)	0,657 inch	Nettovikt	10 g

Temperaturer

Drifttemperatur, max	85 °C	Drifttemperatur, min.	-40 °C
Lagertemperatur, max.	85 °C	Lagertemperatur, min.	-40 °C

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Systemparametrar

Anslutningstyp	Hylsa	Anslutningsvinkel	180°
Antal lödstift per pol	1	Antal poler	8
Avskärmning	Ja	Delning i mm (P)	1,27 mm
Delning i tum (P)	0,05 inch	Diameter bestyckningshål (D)	0,9 mm
Kategori	Cat. 5	Koppling	8-trådig
Lödstiftlängd (l)	3,2 mm	LED	Nej
Montering på kretskortet	THT/THR lödanslutning	Produktfamilj	OMNIMATE-data - RJ45-uttag
Skärmmaterial	Mässing	Skyddsklass	IP20
Skärmarea	förnicklad	Skärmflikar	ingen
Stickcykler	750	Tolerans diameter bestyckningshål (D)	± 0,1 mm
Tolerans för stiftlängd	+0,5 / -0,5 mm		

Elektriska egenskaper

Isolationshållfasthet	1000 MΩ at 500 V DC	Märkström	1,5 A
Märkspänning	125 V AC	Spänningstålighet kontakt/kontakt	1000 V AC

Packaging

Förpackning	Tape	VPE-längd	0 m
VPE-bredd	0 m	VPE-höjd	0 m
Tape reel diameter Ø (A)	330 mm	Surface resistance	Rs = 10 ⁹ - 10 ¹² Ω

Materialdata

Isoleringsmaterial	PA 9T	Färgkod	svart
Färgtabell (jämförbar)	RAL 9011	Isoleringsmaterialgrupp	II
CTI	≥ 500	Isolationshållfasthet	1000 MΩ at 500 V DC
Moisture Level (MSL)	1	Brännbarhetsklass enligt UL 94	V-0
Kontaktgrundmaterial	Fosforbrons	Kontaktyta	Guld över nickel
Skiktstruktur för stiftkontakten	30-80 μ" Ni / 30- μ" Au	Lagertemperatur, min.	-40 °C
Lagertemperatur, max.	85 °C	Drifttemperatur, min.	-40 °C
Drifttemperatur, max	85 °C		

OMNIMATE-data - RJ45-uttag RJ45C5 R1V 3.2N4N RL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Tekniska data

Klassificeringar

ETIM 6.0	EC002637	eClass 6.2	27-25-05-04
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02

Godkännanden

Godkännanden



ROHS Uppfyllelse

Downloads

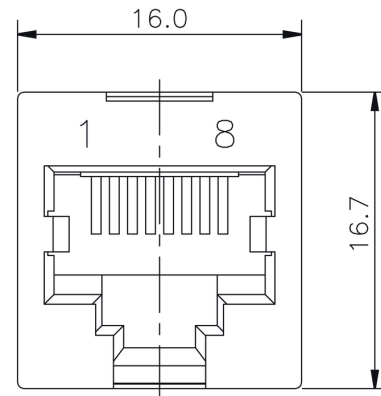
Teknikuppgifter Data [STEP](#)

OMNIMATE-data - RJ45-uttag RJ45C5 R1V 3.2N4N RL

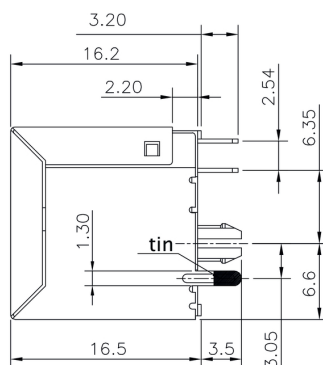
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Ritningar

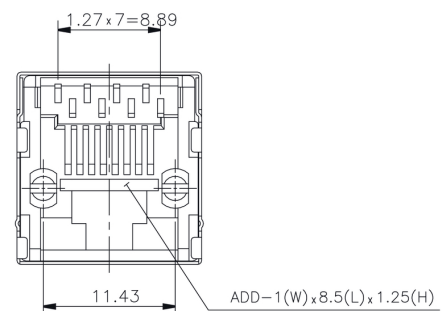
Profilritning



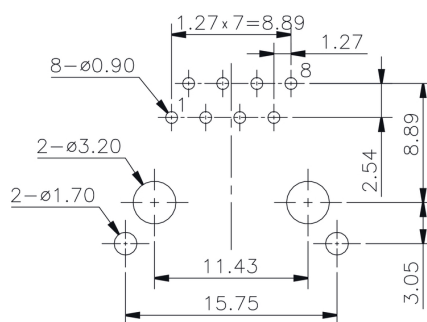
Profilritning



Profilritning



Kretskortsdesign



PCB Layout

OMNIMATE-data - RJ45-uttag RJ45C5 R1V 3.2N4N RL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Ritningar

Produktfördel



Process-optimised packaging
Tape-on-reel or tray

Produktfördel

Produktfördel



Trouble-free assembly
Short, chamfered solder pins



Suitable for all soldering processes
SMT, THT or THR

Skapandedatum den 8 juli 2019 14:04:52 CEST

Katalogversion 07.06.2019 / Tekniska ändringar förbehållna

OMNIMATE-data - RJ45-uttag

RJ45C5 R1V 3.2N4N RL

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmuller.com

Ritningar

Legend

RJ45	G1	R	1	U	3.2	E	4	GY/GY	TY	RJ45G1 R1U 3.2E4GY/GY TY
										Packaging
										TY
										RL
										Tray in box (manual assembly)
										Tape on Reel (automated assembly)
										LED
										Y/G
										Yellow/Green
										G/Y
										Green/Yellow (standard)
										GY/GY
										Green-Yellow/Green-Yellow
										O/G
										Orange/Green
										R/O
										Red/Orange
										... (further combinations possible)
										N
										without LED
										Contact surface thickness
										4
										1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"
										EMI tabs (ground fingers)
										E
										E = with EMI tabs
										N
										N = without EMI tabs
										Solder Pin length
										3.2
										3.2 mm
										1.6
										1.6 mm
										D
										SMD
										Direction, latch style
										U
										Horizontal (90°, side entry), latch up
										D
										Horizontal (90°, side entry), latch down
										V
										Vertical (180°, top entry)
										Y
										Diagonal (45°), latch up
										Number of Ports
										1
										1 Port
										12; 14; ...
										multi ports side by side, Multiport
										21; 41; ...
										multi ports about each other, Multilevel
										Assembly on PCB
										R
										Through Hole Reflow - THR
										Soldering process: Wave or Reflow soldering
										S
										Surface Mount Technology - SMT
										Soldering process: Reflow soldering
										T
										Through Hole Technology - THT
										Soldering process: Wave
										Performance Category
										C5
										Category 5
										C6
										Category 6
										C6A
										Category 6A
										C5e
										Category 5e
										M
										10/100 Mbit
										G1
										10/100/1000 Mbit
										G10
										10 Gbit
										U
										Unshielded
										MP
										10/100 Mbit with POE
										MP+
										10/100 Mbit with POE+

Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.

Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.