

RJ45C5 R1U 2.8N4N RL

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Asortyment produktów obejmuje następujące konstrukcje:

- 90°, leżąca (pozioma) oraz 180°, stojąca (pionowa)
- górny zatrzask / dolny zatrzask
- Procesy lutowania THT, THR lub SMD
- Szeroki wybór różnorodnych konstrukcji, także z wbudowanymi kontrolkami LED oraz zaciskami ekranu
- Kategoria działania Cat. 3 do Cat. 6
- Pakowane na tacy (TY) lub na rolce (taśma na szpuli, RL)
- Kompatybilny ze złączem modułowym RJ45, zgodnie z ANSI / TIA-1096-A oraz IEC 60603
- Wytrzymałość dielektryczna ≥ 1500 V AC RMS (wartość szczytowa 2250 V AC) zgodnie z IEEE 802.3
- Wytrzymałość dielektryczna ≥ 1500 V AC (wartość szczytowa) lub ≥ 1500 V DC zgodnie z IEC 60603

Właściwości i zalety:

- Rozszerzony zakres temperaturowy od -40° degC do $+85^{\circ}$ degC dla maksymalnej wydajności
- Wzmocniona warstwa złota (30μ) dla lepszego zabezpieczenia przed korozją
- Odstęp minimum 0,3 mm zapewnia idealne rezultaty lutowania

Ogólne dane zamówieniowe

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| Wersja | Złącze wtykowe do druku, Gniazda RJ45, Cat. 5 , Połączenie lutowane THT/THR, 90°, Opcja zatrzaskiwania: góra, Zaciski ekranu: brak, $30\ldots 80\mu$ / $\geq 30\mu$, LED: Nie, Liczba biegunów: 8, Tape |
| Nr zam. | 2638490000 |
| Typ | RJ45C5 R1U 2.8N4N RL |
| GTIN (EAN) | 4050118657104 |
| Ilość | 200 Szt. |
| opakowanie | Tape |

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Dane techniczne

Wymiary i ciężary

| | | | |
|------------|----------|------------------|------------|
| Głębokość | 15,7 mm | Głębokość (cale) | 0,618 inch |
| Wysokość | 13,11 mm | Wysokość (cale) | 0,516 inch |
| Szerokość | 16,4 mm | Szerokość (cale) | 0,646 inch |
| Masa netto | 7,095 g | | |

Normy

Norma dot. łączników wtykowych IEC 60603-7

Właściwości elektryczne

| | | | |
|-------------------------------------|------------------------|--------------------------------------|-----------|
| PoE / PoE+ | zgodnie z IEEE 802.3at | Prąd znamionowy | 1,5 A |
| Wytrzymałość izolacji | ≥ 500 MΩ | Wytrzymałość napięciowa styk / ekran | 1500 V DC |
| Wytrzymałość napięciowa styk / styk | 1000 V DC | napięcie znamionowe | 125 V |

Specyfikacje systemu

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|---|---|--------------------------------|---------------------|
| Cykle wpinania | 750 | Długość kołka lutowniczego (l) | 2,8 mm |
| Ekranowanie | Tak | Kategoria | Cat. 5 |
| Klasa mocy | Cat. 5 | LED | Nie |
| Liczba biegunów | 8 | Materiał ekranu | mosiądz, niklowany |
| Opcja zatraskiwania | góra | Powierzchnia ekranu | niklowany |
| Proces lutowania | Lutowanie rozpltywowe, Lutowanie ręczny, Lutowa- nie falowe | Raster w calach (P) | 0,04 " |
| Raster w mm (P) | 1,02 mm | Rodzaj przyłącza | Połączenie lutowane |
| Rodzina produktów | OMNIMATE Data - gniazdo modułowe RJ45 | Stopień ochrony | IP20 |
| Tolerancja pozycjonowania kołka lutow- niczego | ± 0,1 mm | Wymiary kołka lutowniczego | ośmiokątny |
| Zaciski ekranu | brak | kąt odejścia | 90° |
| montaż na płycie drukowanej | Połączenie lutowane THT/ THR | | |

Dane materiałowe

| | | | |
|---|--------------------|---------------------------------|------------------------|
| Materiał izolacyjny | PA 9T | Barwny | czarny, cyjan |
| Tabela kolorów (podobny) | RAL 9011, RAL 5018 | grupa materiałów izolacyjnych | II |
| Wytrzymałość izolacji | ≥ 500 MΩ | Moisture Level (MSL) | 1 |
| Klasa palności wg UL 94 | V-0 | podstawowy materiał styku | stop brązu fosforowego |
| Materiał styków | Stop Cu | Powierzchnia styku | Złoto na niklu |
| Struktura warstwowa przyłącza lutowa- nego | 30...80 μ" | Struktura warstwowa wtyku | 30...80 μ" / ≥ 30 μ" |
| Temperatura magazynowania, min. | -40 °C | Temperatura magazynowania, max. | 85 °C |
| Temperatura pracy, min. | -40 °C | Temperatura pracy, max. | 85 °C |

Opakowanie

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|---------------|--------|--------------|--------|
| opakowanie | Tape | Długość VPE | 357 mm |
| Szerokość VPE | 354 mm | Wysokość VPE | 126 mm |

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www.weidmueller.com**Dane techniczne****Klasyfikacje**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | 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 | 27-46-02-01 |
| ECLASS 12.0 | 27-46-02-01 | ECLASS 13.0 | 27-46-02-01 |

Dopuszczenia

| | |
|------|--------|
| ROHS | Zgodny |
|------|--------|

Pobieranie

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| Dopuszczenie/Certyfikat/Deklaracja zgodności | Certificate of Compliance |
| Dane projektowe | CAD data – STEP |
| Katalogi | Catalogues in PDF-format |

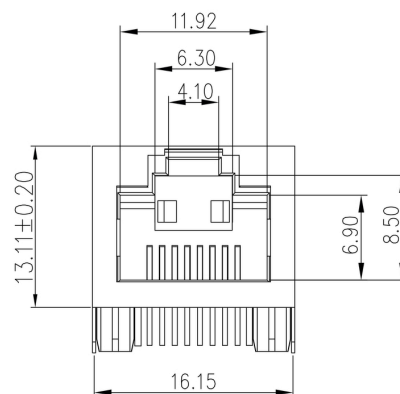
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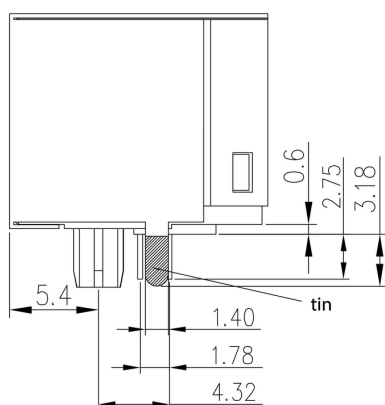
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Rysunki

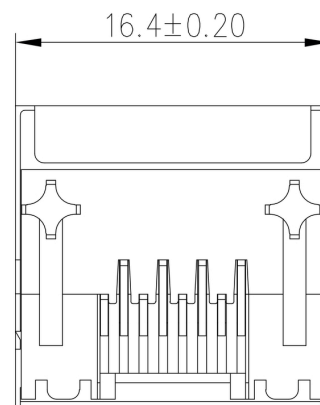
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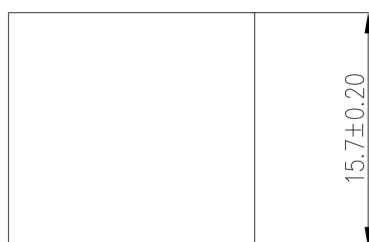
Rysunek wymiarowy



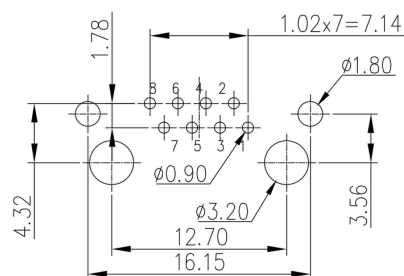
Rysunek wymiarowy



Rysunek wymiarowy



Układ płytek obwodu drukowanego



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Rysunki

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Recommended wave soldering profiles

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Fon: +49 5231 14-0
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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

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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.