

**OMNIMATE Data - gniazda RJ45  
RJ45C6 R1V 3.2N4N TY****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

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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
- Klasa parametrów Kat. 3 do Kat. 6
- Pakowane albo na tacy (TY) lub na rolce (taśma na szpuli, RL)

Właściwości i zalety:

- Rozszerzony zakres temperatur od -40°C do +85°C umożliwiające użytkowanie w różnorodnych warunkach
- Wzmocniona warstwa złota (30µm) dla lepszego zabezpieczenia przed korozją
- Odstęp minimum 3 mm zapewnia idealne rezultaty lutowania.

**Ogólne dane do zamówienia**

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| Typ        | RJ45C6 R1V 3.2N4N TY                                                                         |
| Nr zam.    | <a href="#">2634590000</a>                                                                   |
| Wykonanie  | Złącze wtykowe do druku, Gniazda RJ45, Połączenie lutowane THT/THR, 180°, Liczba biegunów: 8 |
| GTIN (EAN) | 4050118651270                                                                                |
| J. op.     | 160 Szt.                                                                                     |

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**Dane techniczne****Wymiary i ciężary**

|            |         |
|------------|---------|
| Masa netto | 7,475 g |
|------------|---------|

**Zgodność produktu z wymogami środowiska naturalnego**

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

**Specyfikacje systemu**

|                             |                             |                   |                              |
|-----------------------------|-----------------------------|-------------------|------------------------------|
| Cykle wpinania              | 750                         | Liczba biegunów   | 8                            |
| Powierzchnia ekranu         | niklowany                   | Rodzina produktów | OMNIMATE Data - gniazda RJ45 |
| Stopień ochrony             | IP20                        | kąt odejścia      | 180°                         |
| montaż na płytce drukowanej | Połączenie lutowane THT/THR |                   |                              |

**Opakowanie**

|              |         |               |         |
|--------------|---------|---------------|---------|
| Długość VPE  | 0,315 m | Szerokość VPE | 0,195 m |
| Wysokość VPE | 0,065 m |               |         |

**Klasyfikacje**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 6.0   | EC002637    | eClass 6.2 | 27-26-07-04 |
| eClass 9.0 | 27-44-04-02 | eClass 9.1 | 27-44-04-02 |

**certyfikaty**

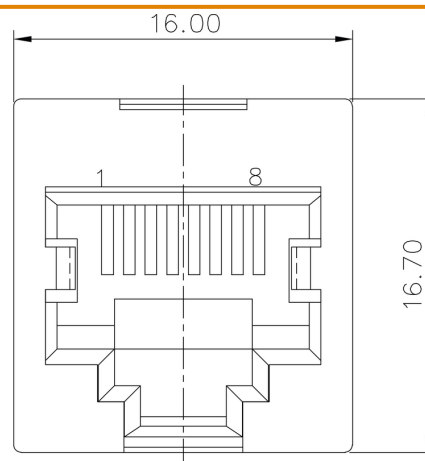
|      |        |
|------|--------|
| ROHS | Zgodny |
|------|--------|

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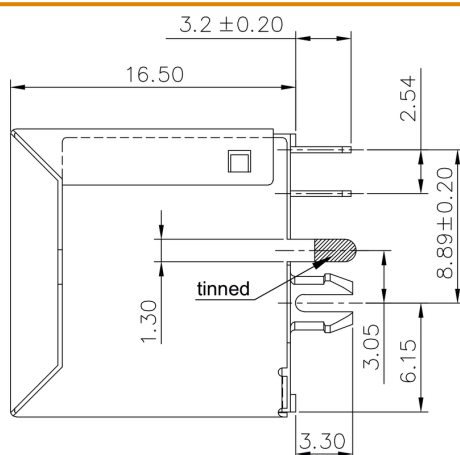
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## Rysunki

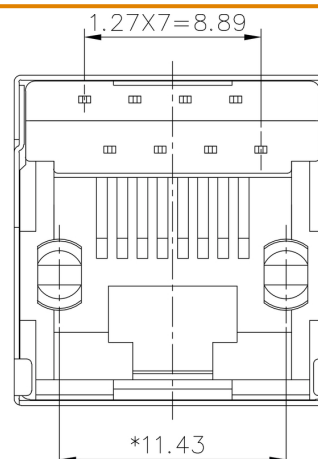
**Rysunek wymiarowy**



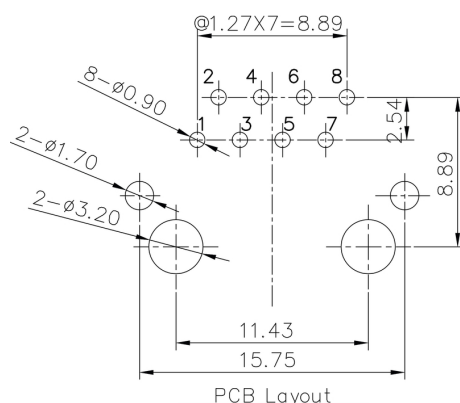
**Rysunek wymiarowy**



**Rysunek wymiarowy**



**Układ płytek obwodu drukowanego**

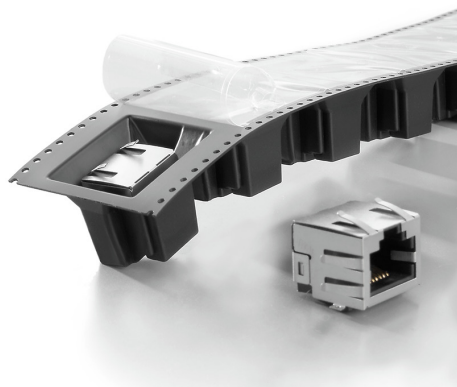


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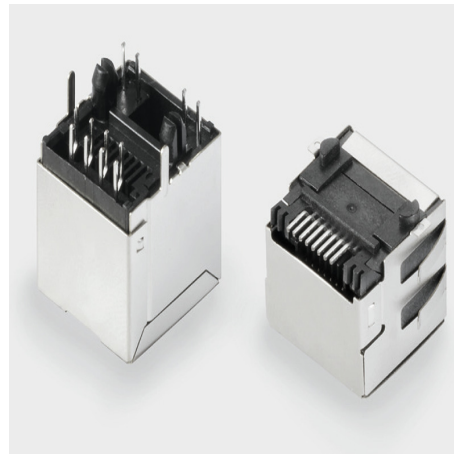
**Zaleta produktu**



Process-optimised packaging  
Tape-on-reel or tray

**Zaleta produktu**

**Zaleta produktu**



Trouble-free assembly  
Short, chamfered solder pins



Suitable for all soldering processes  
SMT, THT or THR

Data sporządzenia 4 lipca 2019 17:52:37 CEST

Aktualizacja katalogu 07.06.2019 / Zmiany techniczne zastrzeżone

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# Rysunki

## Legenda

| RJ45 | G | I | R | 1 | U | 3.2 | E | 4                         | GY/GY                                                      | T                                                                                                                                                                                                             |
|------|---|---|---|---|---|-----|---|---------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |   |   |   |   |   |     |   |                           |                                                            | TY RJ45G1 R1U 3.2E4GY GY TY                                                                                                                                                                                   |
|      |   |   |   |   |   |     |   |                           | Packaging                                                  | TY<br>RL<br><br>Tray in box (manual assembly)<br>Tape on Reel (automated assembly)                                                                                                                            |
|      |   |   |   |   |   |     |   | LED                       | Y/G<br>G/Y<br>GY/GY<br>O/G<br>R/O<br>...<br>N              | Yellow/Green<br>Green/Yellow (standard)<br>Green/Yellow/Green-Yellow<br>Orange/Green<br>Red/Orange<br>... (further combinations possible)<br>without LED                                                      |
|      |   |   |   |   |   |     |   | Contact surface thickness | 4                                                          | 1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"                                                                                                                                                                |
|      |   |   |   |   |   |     |   | EMI tabs (ground fingers) | E<br>N                                                     | E = with EMI tabs<br>N = without EMI tabs                                                                                                                                                                     |
|      |   |   |   |   |   |     |   | Solder Pin length         | 3.2<br>1.8<br>D                                            | 3.2 mm<br>1.8 mm<br>SMD                                                                                                                                                                                       |
|      |   |   |   |   |   |     |   | Direction, latch style    | U<br>D<br>V<br>Y                                           | Horizontal (90°, side entry), latch up<br>Horizontal (90°, side entry), latch down<br>Vertical (180°, top entry)<br>Diagonal (45°), latch up                                                                  |
|      |   |   |   |   |   |     |   | Number of Ports           | 1<br>12; 14; ...<br>17; 41; ...                            | 1 Port<br>multi ports side by side, Multiport<br>multi ports about each other, Multilevel                                                                                                                     |
|      |   |   |   |   |   |     |   | Assembly on PCB           | R<br><br>S<br><br>T                                        | Through Hole Reflow - THR<br>Soldering process: Wave or Reflow soldering<br>Surface Mount Technology - SMT<br>Soldering process: Reflow soldering<br>Through Hole Technology - THT<br>Soldering process: Wave |
|      |   |   |   |   |   |     |   | Performance Category      | C5<br>C6<br>CSA<br>CSe<br>M<br>G1<br>G10<br>U<br>MP<br>MP+ | Category 5<br>Category 6<br>Category 6A<br>Category 5e<br>10/100 Mbit<br>10/100/1000 Mbit<br>10 Gbit<br>Unshielded<br>10/100 Mbit with POE<br>10/100 Mbit with POE+                                           |

## Recommended wave soldering profiles

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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.