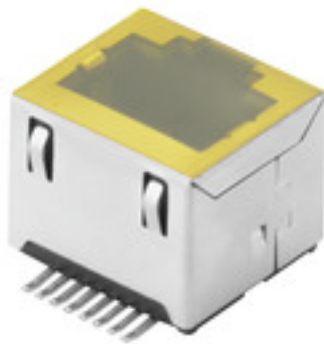


## Datos OMNIMATE - Conectores RJ45 RJ45C5 S1V 2.7E4N RL

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La gama de productos abarca los diseños siguientes:

- 90° horizontal y 180° vertical
- Bloqueo ascendente/descendente
- Procesos de soldadura THT, THR o SMD
- Amplia gama de diferentes tipos de diseño, también con LED integrados y lengüetas de contacto de apantallado
- Categoría de rendimiento 3 a cat. 6
- Embalaje en bandeja (TY) o en rollo (embalaje en cinta, RL)

Propiedades y ventajas:

- Rango de temperaturas ampliado de -40°C a +85°C para ofrecer la máxima capacidad de rendimiento
- Capa de oro reforzada (30 µm) para ofrecer una protección mejorada frente a la corrosión
- La distancia de al menos 3 mm garantiza un resultado de soldadura perfecto

### Datos generales para pedido

|            |                                                                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tipo       | RJ45C5 S1V 2.7E4N RL                                                                                                                                   |
| Código     | <a href="#">2514600000</a>                                                                                                                             |
| Versión    | Conector para placa c.i., Conectores RJ45, Cat. 5 , Conexión por soldadura SMD, 180°, Anilla de apantallado: 4 tabs, LED: No, Número de polos: 8, Tape |
| GTIN (EAN) | 4050118528268                                                                                                                                          |
| U.E.       | 300 Pieza                                                                                                                                              |
| Embalaje   | Tape                                                                                                                                                   |

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## Datos técnicos

### Dimensiones y pesos

|                          |            |                    |            |
|--------------------------|------------|--------------------|------------|
| Anchura                  | 16,1 mm    | Anchura (pulgadas) | 0,634 inch |
| Altura                   | 13,1 mm    | Altura (pulgadas)  | 0,516 inch |
| Altura construcción baja | 13,1 mm    | Profundidad        | 14,7 mm    |
| Profundidad (pulgadas)   | 0,579 inch | Peso neto          | 3,41 g     |

### Temperaturas

|                                     |       |                                     |        |
|-------------------------------------|-------|-------------------------------------|--------|
| Temperatura de almacenamiento, max. | 85 °C | Temperatura de almacenamiento, min. | -40 °C |
| Temperatura de servicio, max.       | 85 °C | Temperatura de servicio, min.       | -40 °C |

### Conformidad medioambiental del producto

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

### Especificaciones del sistema

|                                             |                            |                                        |                                  |
|---------------------------------------------|----------------------------|----------------------------------------|----------------------------------|
| Angulo de salida                            | 180°                       | Anilla de apantallado                  | 4 tabs                           |
| Apantallamiento                             | Sí                         | Categoría                              | Cat. 5                           |
| Ciclos de enchufado                         | 750                        | Familia del producto                   | Datos OMNIMATE - Conectores RJ45 |
| LED                                         | No                         | Longitud del terminal de soldadura (l) | 2,65 mm                          |
| Material del apantallamiento                | Latón                      | Modo de conexión                       | 8 núcleos                        |
| Montaje sobre placas c.i.                   | Conexión por soldadura SMD | Número de polos                        | 8                                |
| Número de terminales de soldadura por polo  | 1                          | Paso en mm (P)                         | 1,27 mm                          |
| Paso en pulgadas (P)                        | 0,05 inch                  | Superficie de apantallado              | niquelado                        |
| Tipo de conexión                            | Conector hembra            | Tipo de protección                     | IP20                             |
| Tolerancia de longitud del pin de soldadura | +0,15 / -0,15 mm           |                                        |                                  |

### Propiedades eléctricas

|                            |                     |                                                       |              |
|----------------------------|---------------------|-------------------------------------------------------|--------------|
| Intensidad nominal         | 1,5 A               | Resistencia a tensiones eléctricas, contacto/contacto | 1000 V AC    |
| Resistencia de aislamiento | 1000 MΩ at 500 V DC | Tensión nominal                                       | 125 V AC RMS |

### Datos del material

|                                     |                 |                                     |                     |
|-------------------------------------|-----------------|-------------------------------------|---------------------|
| Materiales aislantes                | PA 9T           | Color                               | negro               |
| Carta de colores (similar)          | RAL 9011        | Grupo de materiales aislantes       | II                  |
| CTI                                 | ≥ 500           | Resistencia de aislamiento          | 1000 MΩ at 500 V DC |
| Moisture Level (MSL)                | 1               | Grado inflamabilidad según UL 94    | V-0                 |
| Material del contacto               | Fósforo, bronce | Superficie de contacto              | Oro sobre níquel    |
| Temperatura de almacenamiento, min. | -40 °C          | Temperatura de almacenamiento, max. | 85 °C               |
| Temperatura de servicio, min.       | -40 °C          | Temperatura de servicio, max.       | 85 °C               |

### Embalaje

|                                   |        |                         |                                           |
|-----------------------------------|--------|-------------------------|-------------------------------------------|
| Embalaje                          | Tape   | Longitud de VPE         | 0 m                                       |
| Anchura VPE                       | 0 m    | Altura de VPE           | 0 m                                       |
| Diámetro de bobina de cinta Ø (A) | 330 mm | Resistencia superficial | Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω |

## Datos OMNIMATE - Conectores RJ45 RJ45C5 S1V 2.7E4N RL

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## Datos técnicos

### Clasificaciones

|            |             |            |             |
|------------|-------------|------------|-------------|
| 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 |

### Homologaciones en línea

Homologaciones



ROHS Conformidad

### Descargas

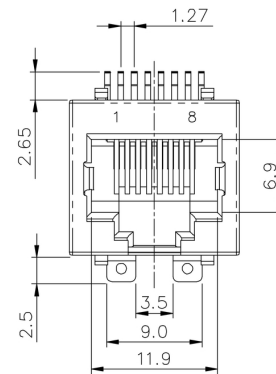
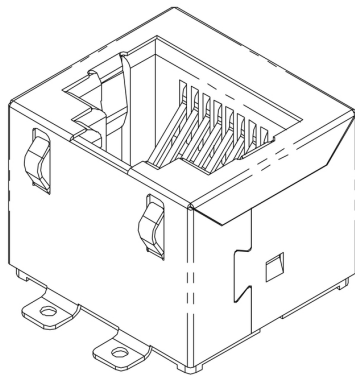
Datos de ingeniería [STEP](#)

## Datos OMNIMATE - Conectores RJ45 RJ45C5 S1V 2.7E4N RL

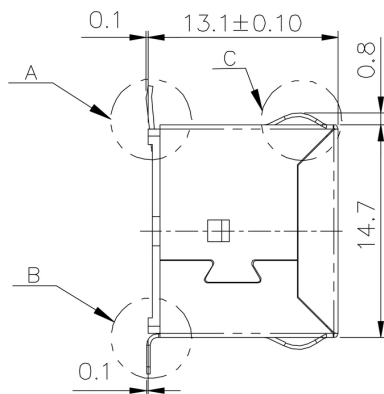
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## Dibujos

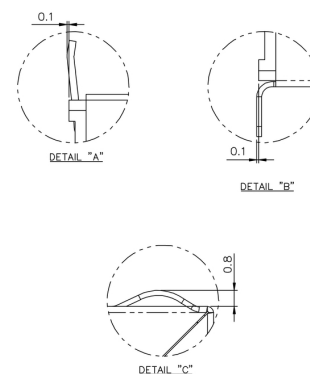
### Dibujo acotado



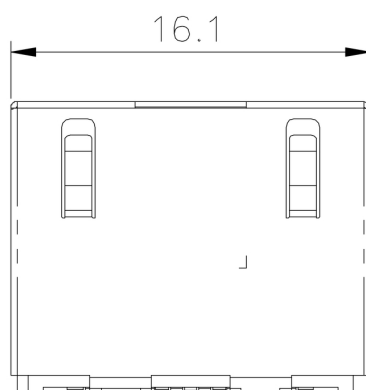
### Dibujo acotado



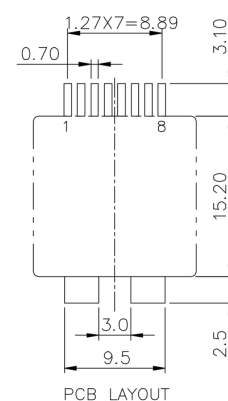
### Dibujo acotado



### Dibujo acotado



### Diseño de la placa de circuito impreso

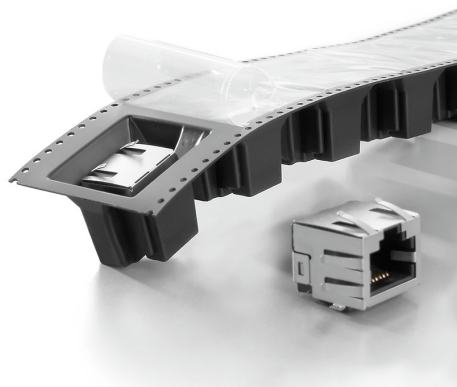


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## Dibujos

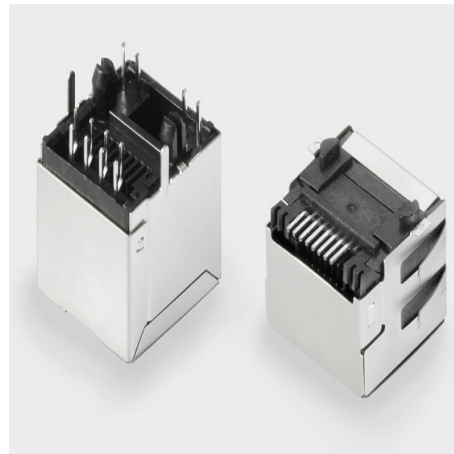
### Ventaja del producto



Process-optimised packaging  
Tape-on-reel or tray

### Ventaja del producto

### Ventaja del producto



Trouble-free assembly  
Short, chamfered solder pins



Suitable for all soldering processes  
SMT, THT or THR

Fecha de creación 3 de julio de 2019 8:41:43 CEST

## Datos OMNIMATE - Conectores RJ45 RJ45C5 S1V 2.7E4N RL

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## Dibujos

## Leyenda

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

## Recommended reflow soldering profile

**Weidmüller Interface GmbH & Co. KG**

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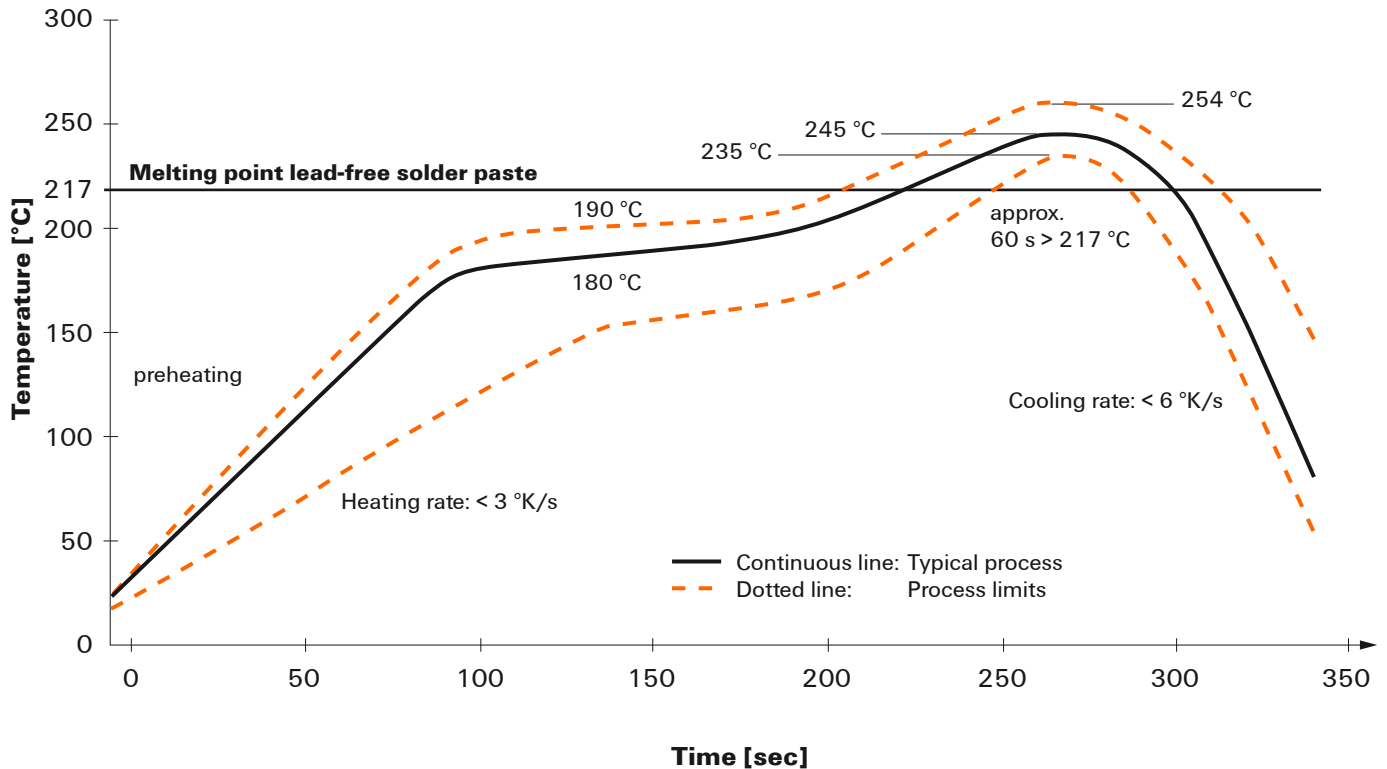
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## Reflow soldering profile

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.