

## OMNIMATE Data - RJ45 Buchsen RJ45C5E S1U 0.9N4N RL

**Weidmüller Interface GmbH & Co. KG**  
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Das Produktsortiment umfasst folgende Ausführungen:

- 90°, liegend (horizontal) und 180°, stehend (vertikal)
- Rasthaken oben und unten (latch up / latch down)
- THT-, THR- oder SMT-Lötverfahren
- Vielzahl verschiedener Bauformen auch mit integrierten LED's und Schirm-Kontaktfahnen
- Performance Kategorie von Cat.3 bis Cat.6
- Ausführung verpackt im Tray (TY) oder auf Rolle (Tape-on-Reel, RL)
- Kompatibel mit modularem RJ45 Stecker gemäß ANSI / TIA-1096-A und IEC 60603
- Spannungsfestigkeit  $\geq 1500V$  AC RMS (2250V AC Scheitelwert) gemäß IEEE 802.3
- Spannungsfestigkeit  $\geq 1500V$  AC (Scheitelwert) oder  $\geq 1500V$  DC gemäß IEC 60603

Eigenschaften und Vorteile:

- Erweiterter Temperaturbereich von  $-40^{\circ}C$  bis  $+85^{\circ}C$ , für maximale Leistungsfähigkeit
- Verstärkte Goldschicht ( $30\mu$ ) für verbesserten Korrosionsschutz
- Mindestens 3mm Stand-off gewährleistet ein perfektes Lötergebnis

### Allgemeine Bestelldaten

|            |                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Typ        | RJ45C5E S1U 0.9N4N RL                                                                                                                             |
| Best.-Nr.  | <a href="#">1455220000</a>                                                                                                                        |
| Ausführung | Leiterplattensteckverbinder, RJ45 Buchsen, SMD-Lötanschluss, 1.27 mm, Polzahl: 8, 90°, Lötstiftlänge (l): 3.5 mm, Gold über Nickel, schwarz, Tape |
| GTIN (EAN) | 4050118261516                                                                                                                                     |
| VPE        | 200 Stück                                                                                                                                         |
| Verpackung | Tape                                                                                                                                              |

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## Technische Daten

### Abmessungen und Gewichte

|                      |            |               |            |
|----------------------|------------|---------------|------------|
| Breite               | 16,41 mm   | Breite (inch) | 0,646 inch |
| Höhe                 | 15,19 mm   | Höhe (inch)   | 0,598 inch |
| Höhe niedrigstbauend | 13,41 mm   | Tiefe         | 16,6 mm    |
| Tiefe (inch)         | 0,654 inch | Nettogewicht  | 0,009 g    |

### Temperaturen

|                          |       |                          |        |
|--------------------------|-------|--------------------------|--------|
| Betriebstemperatur, max. | 85 °C | Betriebstemperatur, min. | -40 °C |
| Lagertemperatur, max.    | 85 °C | Lagertemperatur, min.    | -40 °C |

### Umweltanforderungen

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

### Elektrische Eigenschaften

|                      |          |                                       |             |
|----------------------|----------|---------------------------------------|-------------|
| Isolationswiderstand | > 500 MΩ | Nennspannung                          | 125 V AC    |
| Nennstrom            | 1,5 A    | Spannungsfestigkeit Kontakt / Kontakt | ≥ 1000 V DC |

### Systemkennwerte

|                          |                 |                              |                              |
|--------------------------|-----------------|------------------------------|------------------------------|
| Abgangswinkel            | 90°             | Anschlussart                 | Buchse                       |
| Anzahl Lötstifte pro Pol | 1               | Beschaltung                  | 8-adrig                      |
| Kategorie                | Cat. 5e         | LED                          | Nein                         |
| Lötstiftlänge (l)        | 3,5 mm          | Montage auf der Leiterplatte | SMD-Lötanschluss             |
| Polzahl                  | 8               | Produktfamilie               | OMNIMATE Data - RJ45 Buchsen |
| Raster in Zoll (P)       | 0,05 inch       | Raster in mm (P)             | 1,27 mm                      |
| Riegel-Option            | oben            | Schirm tabs                  | keine                        |
| Schirmmaterial           | Kupferlegierung | Schirmoberfläche             | vernickelt                   |
| Schirmung                | Ja              | Schutzart                    | IP20                         |
| Steckzyklen              | 750             |                              |                              |

### Werkstoffdaten

|                              |                         |                                |                  |
|------------------------------|-------------------------|--------------------------------|------------------|
| Isolierstoff                 | PA 9T                   | Farbe                          | schwarz          |
| Farbtabelle (ähnlich)        | RAL 9011                | Isolierstoffgruppe             | II               |
| CTI                          | ≥ 500                   | Isolationswiderstand           | > 500 MΩ         |
| Moisture Level (MSL)         | 1                       | Brennbarkeitsklasse nach UL 94 | V-0              |
| Kontaktbasismaterial         | Phosphor-Bronze         | Kontaktoberfläche              | Gold über Nickel |
| Schichtaufbau - Steckkontakt | 30-80 μ" Ni / 30- μ" Au | Lagertemperatur, min.          | -40 °C           |
| Lagertemperatur, max.        | 85 °C                   | Betriebstemperatur, min.       | -40 °C           |
| Betriebstemperatur, max.     | 85 °C                   |                                |                  |

### Verpackungen

|                              |        |                       |                                           |
|------------------------------|--------|-----------------------|-------------------------------------------|
| Verpackung                   | Tape   | VPE Länge             | 45 mm                                     |
| VPE Breite                   | 330 mm | VPE Höhe              | 330 mm                                    |
| Tape-Spulendurchmesser Ø (A) | 330 mm | Oberflächenwiderstand | Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω |

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**Technische Daten****Klassifikationen**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 6.0   | EC002637    | eClass 6.2 | 27-25-05-04 |
| eClass 7.1 | 27-25-05-04 | eClass 8.1 | 19-17-01-25 |
| eClass 9.0 | 27-44-04-02 | eClass 9.1 | 27-44-04-02 |

**Zulassungen**

Zulassungen



ROHS

Konform

**Downloads**

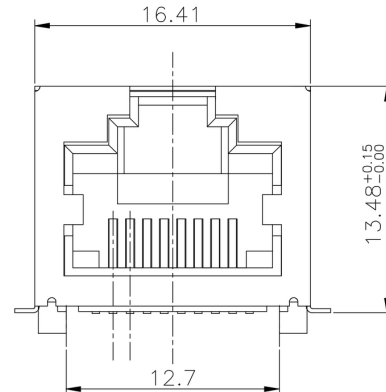
|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Anwenderdokumentation | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>                                                                                      |
| Broschüre/Katalog     | <a href="#">CAT 9 IETH 15/16 EN</a><br><a href="#">MB FREECONTACT EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |

## OMNIMATE Data - RJ45 Buchsen RJ45C5E S1U 0.9N4N RL

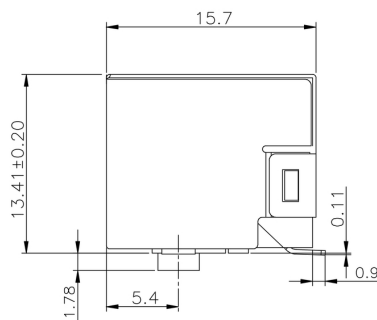
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## Zeichnungen

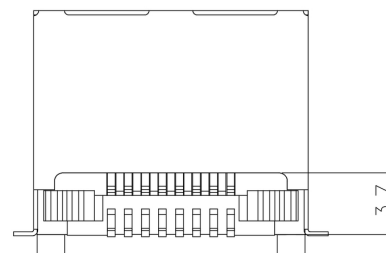
### Maßzeichnung



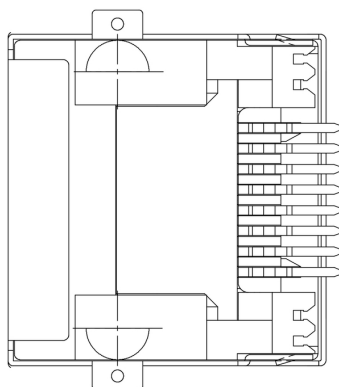
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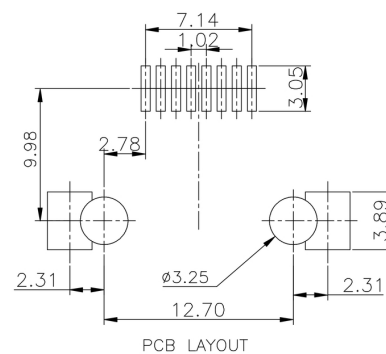
### Maßzeichnung



### Maßzeichnung



### Leiterplatten-Layout

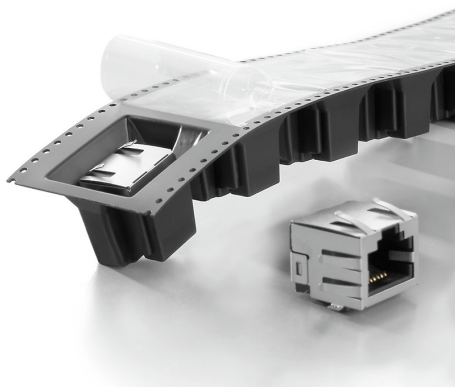


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## Zeichnungen

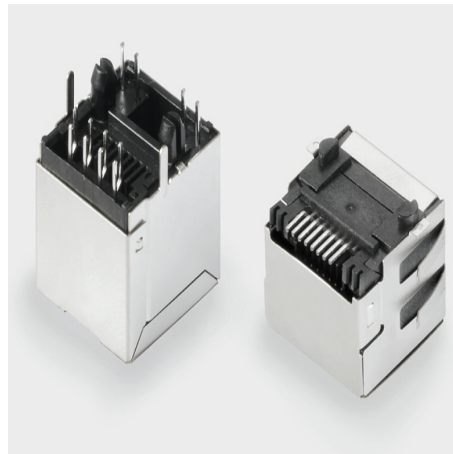
### Produktvorteil



Prozessoptimierte Verpackung  
Tape-on-Reel oder Tray

### Produktvorteil

### Produktvorteil



Störungsfreie Bestückung  
Kurze, angefastete Lötstifte



Passend für alle Lötverfahren  
SMT, THT oder THR

Erstellungs-Datum 23. Mai 2019 17:33:59 MESZ

# OMNIMATE Data - RJ45 Buchsen

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## Zeichnungen

## Legende

| RJ45 | G1 | R | 1 | U | 3.2 | E | 4 | GY/GY | TY | RJ45G1 R1U 3.2E4GY/GY TY |
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**Empfohlenes Reflow-Lötprofil****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

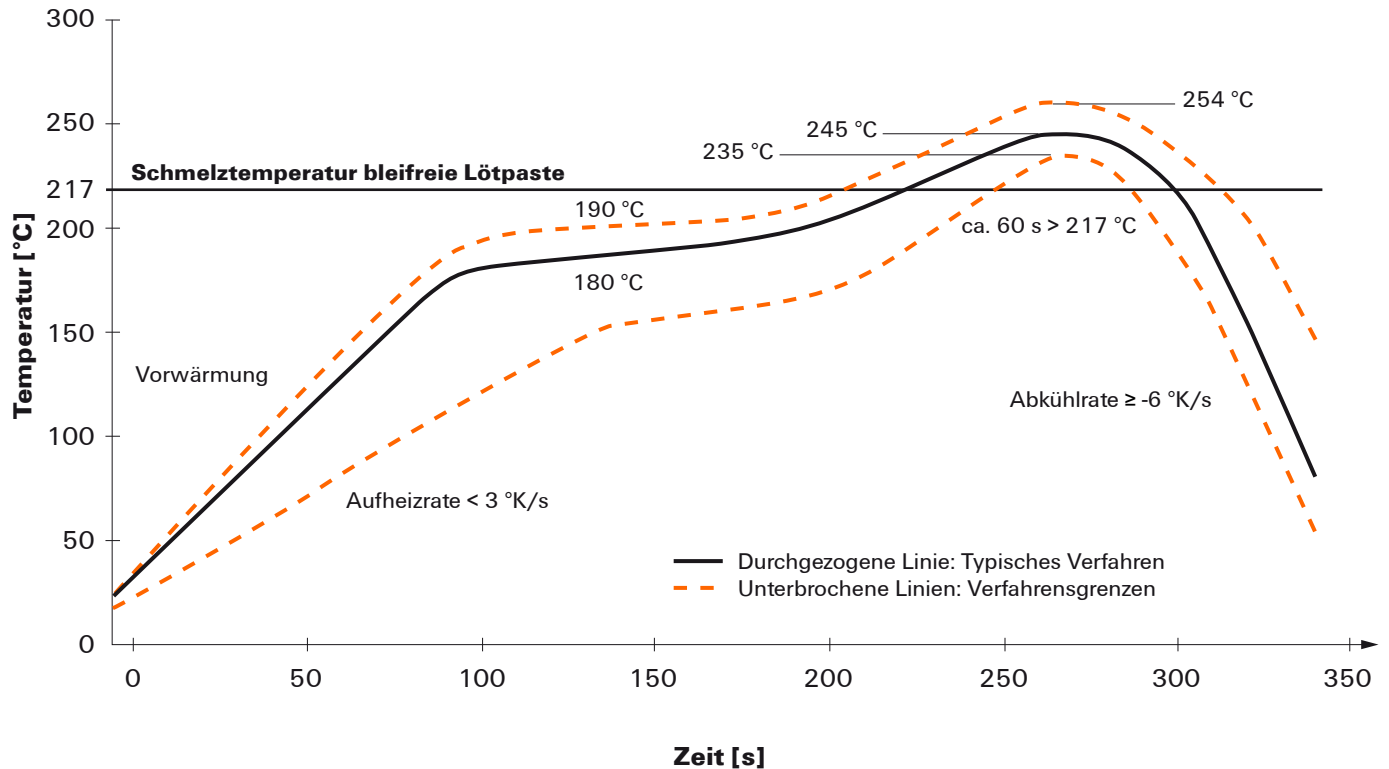
D-32758 Detmold

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**Reflow Lötprofil**

Das ideale Temperaturprofil für die Surface Mount Technology (SMT) ist eine häufig gestellte Frage in der Produktionswelt. Eine eindeutige Antwort gibt es nicht. Der Temperatur-Zeit-Verlauf ist abhängig von den Verarbeitungseigenschaften der Lotpaste und den Belastungsgrenzen der Bauelemente.

Folgende Parameter sind zu berücksichtigen:

- Vorheizzeit
- Maximale Temperatur
- Zeit oberhalb des Pasten-Schmelzpunktes
- Abkühlzeit
- maximaler Aufheizgradient
- minimaler Abkühlgradient

Das von uns empfohlene Lötprofil beschreibt den typischen Verlauf sowie die Prozessgrenzen. In der Vorheizphase werden Platine und Bauelemente schonend vorgeheizt. Der Aufheizgradient beträgt  $\leq +3$  K/s. Parallel dazu wird die Lotpaste „aktiviert“. In der Zeit oberhalb der Schmelztemperatur 217 °C wird das Lot flüssig, verbindet die Bauelemente mit den Anschlüssen auf der Platine. Dabei wird die maximale Temperatur von 245 °C bis 254 °C zwischen 10 und 40 Sekunden gehalten. In der Abkühlzeit bei  $\geq -6$  K/s härtet das Lot aus. Platine und Bauelemente werden nicht zu rasch abgekühlt, um Spannungsrisse zu vermeiden.