

# VS-PPC-C1-RJ45-MNNA-PG9-4Q5-B - RJ45 connector



1405141

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RJ45 connector, degree of protection: IP65/IP67, number of positions: 4, CAT5 (IEC 11801:2002), material: Metal, connection method: IDC fast connection, connection cross section: AWG 26- 22, cable outlet: straight, color: silver, PROFINET

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1405141       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB17          |
| Product key                          | ABNOAA        |
| GTIN                                 | 4046356325929 |
| Weight per piece (including packing) | 70.5 g        |
| Weight per piece (excluding packing) | 70.5 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|         |                                                                                                                                                                                                                                                                                                        |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling) and chapter 13 Application specific Cabling and Interconnection Technology (AIDA) |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                      |                             |
|----------------------|-----------------------------|
| Product type         | Data connector (cable side) |
| Type                 | RJ45                        |
| Sensor type          | PROFINET                    |
| Number of positions  | 4                           |
| Connection profile   | RJ45 8(4)                   |
| No. of cable outlets | 1                           |
| Shielded             | yes                         |
| Cable outlet         | straight                    |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution  | 2 |

### Electrical properties

|                                         |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| Rated voltage (III/3)                   | 72 V (DC)                                                        |
| Rated current                           | 1.75 A                                                           |
| Nominal voltage $U_N$                   | 48 V                                                             |
| Contact resistance                      | 0.001 $\Omega$ (Wire – IDC)<br>0.005 $\Omega$ (Litz wires – IDC) |
| Transmission medium                     | Copper                                                           |
| Transmission characteristics (category) | CAT5                                                             |
| Transmission speed                      | 100 Mbps                                                         |

### Connection data

#### Connection technology

|                              |                                                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Connection method            | IDC fast connection                                                                                               |
| Connection cross section AWG | 26 ... 22 (solid)<br>26 ... 22 (flexible)                                                                         |
| Conductor cross section      | 0.13 mm <sup>2</sup> ... 0.32 mm <sup>2</sup> (solid)<br>0.14 mm <sup>2</sup> ... 0.36 mm <sup>2</sup> (flexible) |

### Dimensions

|        |       |
|--------|-------|
| Width  | 22 mm |
| Height | 30 mm |

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|        |       |
|--------|-------|
| Length | 72 mm |
|--------|-------|

## Material specifications

|                                        |               |
|----------------------------------------|---------------|
| Color                                  | silver        |
| Material                               | Metal         |
| Flammability rating according to UL 94 | V0            |
| Seal material, O-ring                  | NBR           |
| Seal material cable seal               | TPE           |
| Seal material                          | NBR           |
| Housing material                       | Metal         |
| Housing surface material               | nickel-plated |
| Cable seal material                    | TPE           |
| Contact material                       | CuSn          |
| Contact surface material               | Au/Ni         |
| Contact carrier material               | PC            |
| O-ring material                        | NBR           |
| Material for screw connection          | CuZn          |

## Cable/line

|                         |               |
|-------------------------|---------------|
| External cable diameter | 5 mm ... 8 mm |
| External cable diameter | 5 mm ... 8 mm |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP65/IP67        |
| Ambient temperature (operation)         | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Ambient temperature (assembly)          | -5 °C ... 45 °C  |

## Standards and regulations

|                          |                     |
|--------------------------|---------------------|
| Standards/specifications | IEC PAS 61076-3-117 |
|--------------------------|---------------------|

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## Approvals

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|  <b>cUL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                           |                       |                       |                   |                             |
| Only rigid conductors                                                                                                           | 50 V                  | 1.75 A                | - 22              | -                           |

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|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                          |                       |                       |                   |                             |
| Only rigid conductors                                                                                                          | 50 V                  | 1.75 A                | - 22              | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440290 |
| ECLASS-15.0 | 27440290 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002943 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| REACH candidate substance (CAS No.) | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)<br>2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
| SCIP                                | 290a0695-ad91-4dda-acc9-838b8742ba2e                                                                                                                |

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