

VS-08-RJ45-5-Q/IP20 BK - RJ45 connector



1658008

<https://www.phoenixcontact.com/gb/products/1658008>

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RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black, Ethernet

Your advantages

- Easy and time-saving assembly with IDC fast connection technology
- Can be used internationally due to EAC, UL 1863, and CAN/CSA C22.2
- Ideal companion for servicing or repairs in the field: no special tools required for mounting

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1658008 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | ABNAAD |
| Product key | ABNAAD |
| GTIN | 4046356138536 |
| Weight per piece (including packing) | 10.38 g |
| Weight per piece (excluding packing) | 9.012 g |
| Customs tariff number | 85366990 |
| Country of origin | CH |

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Technical data

Product properties

| | |
|----------------------|-----------------------------|
| Product type | Data connector (cable side) |
| Type | RJ45 |
| Sensor type | Ethernet |
| Number of positions | 8 |
| Connection profile | RJ45 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Cable outlet | straight |
| Positions/contacts | 8P8C |

Insulation characteristics

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

Electrical properties

| | |
|-----------------------------------------|----------------------------------------------------|
| Rated voltage (III/3) | 72 V (DC) |
| Rated surge voltage | 330 kV |
| Rated current | 1.75 A |
| Contact resistance | < 20 mΩ (Contact) < 100 mΩ (shield) |
| Frequency range | 100 MHz |
| Insulation resistance | > 500 MΩ |
| Nominal voltage U_N | 48 V |
| Nominal current I_N | 1.75 A |
| Contact resistance per contact pair | < 20 Ω |
| Contact resistance | > 10 mΩ (Wire – IDC) 0.005 Ω (Litz wires – IDC) |
| Transmission medium | Copper |
| Transmission speed | 1 Gbps |
| Transmission characteristics (category) | CAT5 |
| Transmission speed | 1 Gbps |
| Power transmission | PoE++ in accordance with: IEEE 802.3bt |

Connection data

Connection technology

| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Connection method | Insulation displacement connection |
| Connection cross section AWG | 26 ... 23 (solid) 26 ... 23 (flexible) |
| Conductor cross section | 0.14 mm ² ... 0.25 mm ² (solid) 0.14 mm ² ... 0.25 mm ² (flexible) |

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| | |
|----------------------------------|----------------------------------|
| Connection in acc. with standard | in accordance with IEC 60603-7-1 |
| Cable outlet, angle | 180 |

Dimensions

| | |
|--------|----------|
| Width | 14 mm |
| Height | 14.6 mm |
| Length | 55.85 mm |

Material specifications

| | |
|----------------------------------------|---------|
| Color | black |
| Material | Plastic |
| Flammability rating according to UL 94 | V0 |
| Housing material | Plastic |
| Cable seal material | NBR |
| Contact material | CuSn |
| Contact surface material | Au/Ni |
| Contact carrier material | PC |
| O-ring material | FPM |
| Locking latch material | PC |
| Material for screw connection | PA |

Cable/line

| | |
|--------------------------|----------------------|
| External cable diameter | 4.5 mm ... 8 mm |
| External cable diameter | 4.5 mm ... 8 mm |
| Cable cross section | 0.14 mm ² |
| Test voltage Core/Core | 1000 V |
| Test voltage Core/Shield | 1500.00 V |
| Halogen-free | no |

Mechanical properties

Mechanical data

| | |
|-------------------------------------|-----------|
| Insertion/withdrawal cycles | ≥ 1000 |
| Insertion force per signal contact | < 20.00 N |
| Extraction force per signal contact | < 20 N |

Environmental and real-life conditions

Test specification

| | |
|---------------|------------------------|
| Type of test | Vibration test |
| Specification | IEC 60068-2-6 |
| Frequency | 10-500 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm |
| Acceleration | 50.00 m/s ² |
| Test duration | 20.00 s |

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Ambient conditions

| | |
|-----------------------------------------|------------------|
| Degree of protection | IP20 |
| | IP20 |
| Ambient temperature (operation) | -20 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

Mounting

| | |
|---------------|--------------------|
| Mounting type | For field assembly |
|---------------|--------------------|

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Drawings

Schematic diagram



Connector pin assignment

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Approvals

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UL Listed

Approval ID: FILE E 335024



cUL Listed

Approval ID: FILE E 335024

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440114 |
| ECLASS-15.0 | 27440114 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002636 |
|----------|----------|

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.) | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
| SCIP | 14622286-2cb4-46e5-9715-6fce15f91571 |

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