

Connector - QPD P 3PE2,5 6-10 BK - 1582202

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QUICKON-connector, black, 3+PE-pos., 1.0 mm² ... 2.5 mm²/630 V/20 A, with QUICKON nut, for cables with a diameter of 6 mm ... 10 mm.

Product Features

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Convenient: quick and easy assembly without special tools
- Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- Safer connection thanks to polarization against mismatching and touch-proof protection according to DIN EN 0105
- Easy maintenance - the connectors enable fast device replacement and simplify startup thanks to pre-assembled cables



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 38.0 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

Technical data

General

| | |
|------------------------------|--------------------|
| Type | QPD 4x2,5 |
| Color | black |
| Locking type | Screw locking |
| Connection method | QUICKON connection |
| | IDC connection |
| Number of positions | 4 |
| Note number of positions | 3+PE |
| Wrench size, union nut | 22 mm |
| Tightening torque, union nut | 5 Nm |

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Technical data

General

| | |
|---------------------------------------|---------------------|
| Number of connections | 4 |
| Conductor cross section flexible min. | 1 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section solid min. | 1 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section AWG min. | 16 |
| Conductor cross section AWG max. | 14 |

Cable

| | |
|---|------------------------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
| Wire insulation material | PVC/PE/TPE/rubber |
| Wire diameter including insulation | 2.5 mm ... 3.8 mm |
| External cable diameter | 6 mm ... 10 mm |

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP68 () |
| | IP69K |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Temperature when conductor connected | -5 °C ... 50 °C |

Electrical characteristics

| | |
|--------------------------------|--------|
| Nominal current I _N | 20 A |
| Rated current | 20 A |
| Rated voltage (III/3) | 690 V |
| Rated voltage (III/2) | 1000 V |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (II/2) | 8 kV |

Mechanical characteristics

| | |
|-----------------------------|---------|
| QUICKON connectability | max. 10 |
| Insertion/withdrawal cycles | 50 |

Material data

| | |
|--------------------------|---------------|
| Contact material | Cu |
| Contact surface material | silver-plated |
| Contact carrier material | PA |
| Insulating material | PA |

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Technical data

Material data

| | |
|--|-----|
| Flammability rating according to UL 94 | V0 |
| Overvoltage category | III |
| Degree of pollution | 3 |

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440605 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC000516 |
| ETIM 4.0 | EC000516 |
| ETIM 5.0 | EC002560 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11 | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2 | 39121522 |

Approvals

Approvals

Approvals

VDE Zeichengenehmigung / UL Listed / cUL Listed / EAC / EAC / UL Listed / cUL Listed / GL / cULus Listed


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Approvals


Ex Approvals

Approvals submitted

Approval details

| | |
|--|---------|
| VDE Zeichengenehmigung  | |
| mm²/AWG/kcmil | 1.0-2.5 |
| Nominal current IN | 20 A |
| Nominal voltage UN | 690 V |

| | |
|---|-------|
| UL Listed  | |
| mm²/AWG/kcmil | 16 |
| Nominal current IN | 10 A |
| Nominal voltage UN | 600 V |

| | |
|--|-------|
| cUL Listed  | |
| mm²/AWG/kcmil | 16 |
| Nominal current IN | 10 A |
| Nominal voltage UN | 600 V |

| |
|-----|
| EAC |
|-----|

| |
|-----|
| EAC |
|-----|

| |
|---|
| UL Listed  |
|---|

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Approvals

cUL Listed 

GL

cULus Listed 

Accessories

Accessories

Coding element

Coding profile - CP-QPD - 1582459



Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

Device marking

Plastic label - EMLP (13X9)R - 0819453



Plastic label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, Mounting type: Adhesive, Lettering field: 13 x 9 mm

Engraving material - GPE 13X 9 WH - 0806932



Engraving material, Sheet, white, unlabeled, can be labeled with: Engraving, Plotter, Mounting type: Adhesive, Lettering field: 13 x 9 mm

Protective cap

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Accessories

Protective cap - QPD PSK 2,5 - 1582151



Protective cap made of transparent plastic for QPD connectors 4x 2.5 mm², IP50.

Seal

Seal - KV-DI-PG16-1XASI - 1582462



Seal for one AS-i line, 17.2 x 9 mm, from NBR, black, for IP65/67 degree of protection

Seal - KV-DI-PG16-2XASI - 1582464



Seal for two AS-i lines, 17.2 x 9 mm, from NBR, black, for IP65/67 degree of protection

Socket spanner

Socket wrench - QSS 22 - 1670206

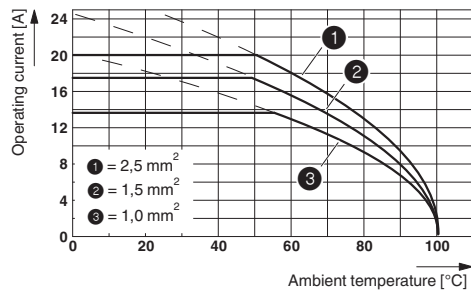


Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

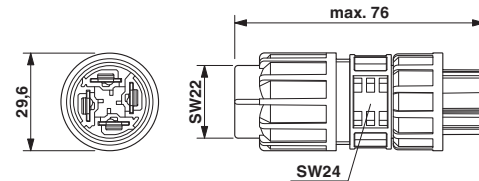
Drawings

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Diagram

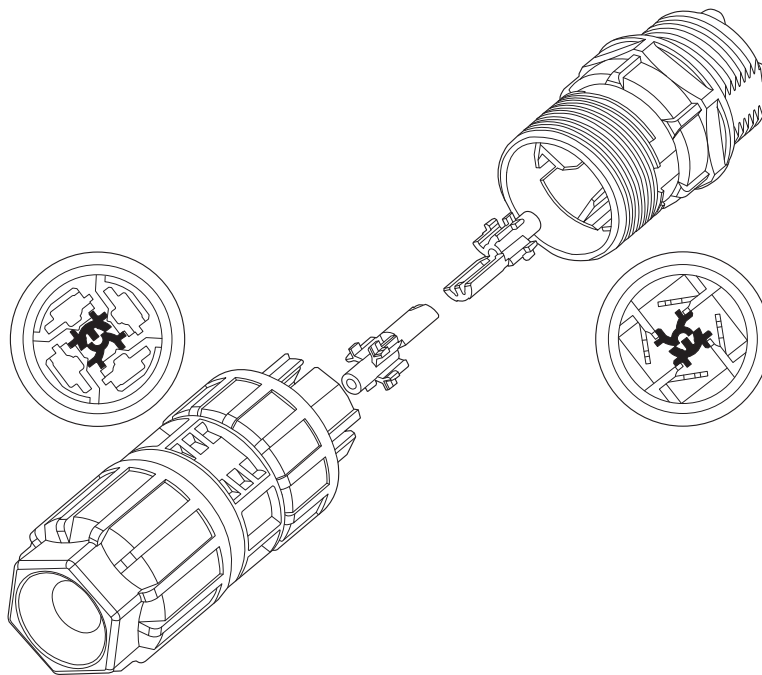


Dimensional drawing



Dimensional drawing: connector, 2.5 mm²

Schematic diagram



Coding of the QUICKON plug-in connection

Mouser Electronics

Authorized Distributor

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