

# QP 1,5/ 1-M BU - Plug

3051056

<https://www.phoenixcontact.com/us/products/3051056>



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Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: blue

## Product description

Connector element center, left housing with engagement pin, right opened without cover

## Your advantages

- The QT-COMBI plugs for self-assembly provide solutions that users can implement themselves
- The conductor is connected using the familiar IDC connection with no stripping, therefore saving time
- Tested for railway applications
- The QP 1,5/... fast connector plug is designed for the connection of solid and stranded conductors

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3051056             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE03                |
| Product key                          | BE3144              |
| Catalog page                         | Page 289 (C-1-2019) |
| GTIN                                 | 4046356082907       |
| Weight per piece (including packing) | 4.179 g             |
| Weight per piece (excluding packing) | 4.108 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | TR                  |

## Technical data

### Product properties

|                     |               |
|---------------------|---------------|
| Product type        | Terminal plug |
| Number of positions | 1             |
| Pitch               | 5.2 mm        |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                     |      |
|---------------------|------|
| Rated surge voltage | 6 kV |
|---------------------|------|

### Connection data

|                       |                     |
|-----------------------|---------------------|
| Nominal cross section | 1.5 mm <sup>2</sup> |
|-----------------------|---------------------|

### 1 level

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| Material wire insulation                | PVC / PE                                                  |
| Connection in acc. with standard        | IEC 61984                                                 |
| Conductor cross section rigid           | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Cross section AWG                       | 24 ... 16 (converted acc. to IEC)                         |
| Conductor cross section flexible        | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Conductor cross section, flexible [AWG] | 24 ... 16 (converted acc. to IEC)                         |
| Cross section, sensor conductors        | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>             |
| Nominal current                         | 17.5 A                                                    |
| Maximum load current                    | 17.5 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                         | 500 V                                                     |
| Nominal cross section                   | 1.5 mm <sup>2</sup>                                       |

### Dimensions

|        |        |
|--------|--------|
| Width  | 5.2 mm |
| Height | 20 mm  |
| Depth  | 40 mm  |
| Length | 20 mm  |
| Pitch  | 5.2 mm |

### Material specifications

|                                                                  |             |
|------------------------------------------------------------------|-------------|
| Color                                                            | blue        |
| Flammability rating according to UL 94                           | V0          |
| Insulating material group                                        | I           |
| Insulating material                                              | PA          |
| Static insulating material application in cold                   | -60 °C      |
| Relative insulation material temperature index (Elec., UL 746 B) | 125 °C      |
| Fire protection for rail vehicles (DIN EN 45545-2) R22           | HL 1 - HL 3 |

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|                                                         |             |
|---------------------------------------------------------|-------------|
| Fire protection for rail vehicles (DIN EN 45545-2) R23  | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24  | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26  | HL 1 - HL 3 |
| Calorimetric heat release NFPA 130 (ASTM E 1354)        | 28 MJ/kg    |
| Surface flammability NFPA 130 (ASTM E 162)              | passed      |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed      |
| Smoke gas toxicity NFPA 130 (SMP 800C)                  | passed      |

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                          |
|------------------------------------------|--------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C (max. operating temperature see derating curve)                   |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C) |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                          |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                          |
| Permissible humidity (operation)         | 20 % ... 90 %                                                            |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                            |

## Standards and regulations

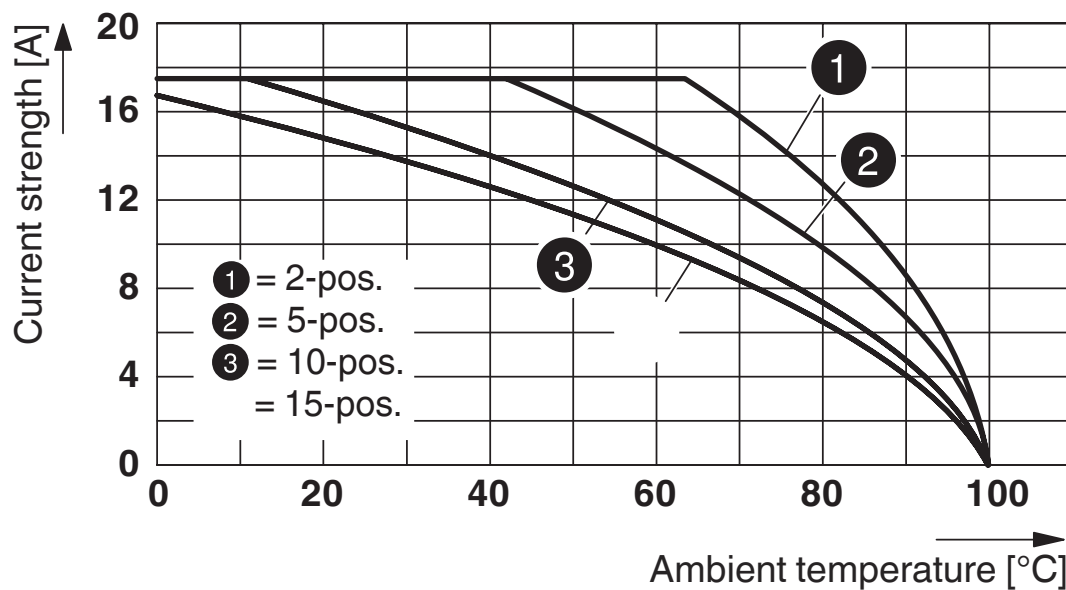
|                                  |           |
|----------------------------------|-----------|
| Connection in acc. with standard | IEC 61984 |
|----------------------------------|-----------|

## Drawings

Circuit diagram



Diagram



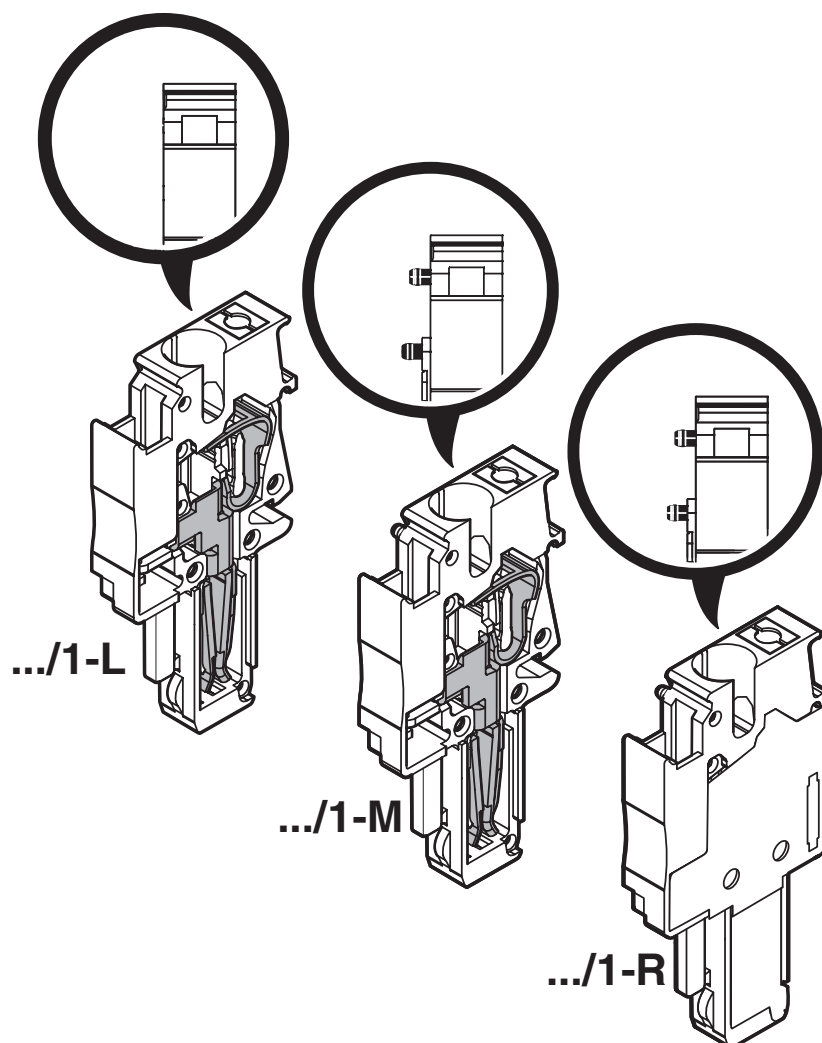
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Schematic diagram



# QP 1,5/ 1-M BU - Plug

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3051056>

|  <b>CSA</b><br>Approval ID: 2030668 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                          | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group C                                                                                                          | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group D                                                                                                          | 600 V                 | 5 A                   | 24 - 16           | -                           |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00511 |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>DNV GL</b><br>Approval ID: TAE00003J6 |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                                        | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group C                                                                                                                        | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group D                                                                                                                        | 600 V                 | 5 A                   | 24 - 16           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141151 |
| ECLASS-12.0 | 27141151 |
| ECLASS-13.0 | 27250306 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002021 |
|----------|----------|

### 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.)     | No substance above 0.1 wt%               |

# QP 1,5/ 1-M BU - Plug

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## Accessories

### RPS - Reducing plug

0201647

<https://www.phoenixcontact.com/us/products/0201647>



Reducing plug, number of positions: 1, color: gray

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### QP 1,5/ 1-L - Plug

3051014

<https://www.phoenixcontact.com/us/products/3051014>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: gray

## QP 1,5/ 1-M BU - Plug

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## QP 1,5/ 1-L BU - Plug

3051027

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Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: blue

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## QP 1,5/ 1-L GNYE - Plug

3051030

<https://www.phoenixcontact.com/us/products/3051030>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: green-yellow

## QP 1,5/ 1-M BU - Plug

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### QP 1,5/ 1-M - Plug

3051043

<https://www.phoenixcontact.com/us/products/3051043>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: gray

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### QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: blue

## QP 1,5/ 1-M BU - Plug

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## QP 1,5/ 1-M GNYE - Plug

3051069

<https://www.phoenixcontact.com/us/products/3051069>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: green-yellow

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## QP 1,5/ 1-R - Plug

3051072

<https://www.phoenixcontact.com/us/products/3051072>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: gray

## QP 1,5/ 1-M BU - Plug

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## QP 1,5/ 1-R BU - Plug

3051085

<https://www.phoenixcontact.com/us/products/3051085>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: blue

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## QP 1,5/ 1-R GNYE - Plug

3051098

<https://www.phoenixcontact.com/us/products/3051098>



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: green-yellow

## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



### PZ/2 - Strain relief

3040627

<https://www.phoenixcontact.com/us/products/3040627>



Strain relief, width: 9.3 mm, height: 48.7 mm, number of positions: 2, color: black

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### PZ/4 - Strain relief

3040643

<https://www.phoenixcontact.com/us/products/3040643>



Strain relief, width: 19.6 mm, height: 48.7 mm, number of positions: 4, color: black

## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



## PRZ - Latching

3040614

<https://www.phoenixcontact.com/us/products/3040614>



Latching, number of positions: 2, length: 64 mm, color: orange

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## PR - Latching

3040559

<https://www.phoenixcontact.com/us/products/3040559>



Latching, width: 4.4 mm, height: 29.8 mm, number of positions: 1, color: orange

## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



### PR/2 - Latching

3040630

<https://www.phoenixcontact.com/us/products/3040630>



Latching, width: 10 mm, height: 29.8 mm, number of positions: 2, color: orange

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### PRT/2 - Latching

3040631

<https://www.phoenixcontact.com/us/products/3040631>



Latching, can only be released using a screwdriver, width: 9 mm, height: 23.2 mm, number of positions: 2, color: orange

## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



## MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plug, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray

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## MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



## MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



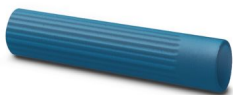
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## MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



## MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



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## MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



## QP 1,5/ 1-M BU - Plug

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## MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



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## MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



## QP 1,5/ 1-M BU - Plug

3051056

<https://www.phoenixcontact.com/us/products/3051056>



## PS-5 - Test plug

3030983

<https://www.phoenixcontact.com/us/products/3030983>

Test plug, Modular test plug, number of positions: 1, color: red



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## DP PS-5 - Spacer plate

3036725

<https://www.phoenixcontact.com/us/products/3036725>

Spacer plate, depth: 29 mm, width: 5.2 mm, height: 22.4 mm, number of positions: 1, color: red



## QP 1,5/ 1-M BU - Plug

3051056

<https://www.phoenixcontact.com/us/products/3051056>



## PS-5/2,3MM RD - Test plug

3038723

<https://www.phoenixcontact.com/us/products/3038723>



Test plug, number of positions: 1, color: red

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## ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/us/products/0808642>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



## ZBF 5 CUS - Zack Marker strip, flat

0825025

<https://www.phoenixcontact.com/us/products/0825025>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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## ZBF 5,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0808671

<https://www.phoenixcontact.com/us/products/0808671>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

## QP 1,5/ 1-M BU - Plug

3051056

<https://www.phoenixcontact.com/us/products/3051056>



### ZBF 5,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0808697

<https://www.phoenixcontact.com/us/products/0808697>



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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### ZBF 5,LGS:GERADE ZAHLEN - Zack Marker strip, flat

0810821

<https://www.phoenixcontact.com/us/products/0810821>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



## ZBF 5,LGS:UNGERADE ZAHLEN - Zack Marker strip, flat

0810863

<https://www.phoenixcontact.com/us/products/0810863>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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## UC-TMF 5 - Marker for terminal blocks

0818153

<https://www.phoenixcontact.com/us/products/0818153>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

## QP 1,5/ 1-M BU - Plug

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<https://www.phoenixcontact.com/us/products/3051056>



## UC-TMF 5 CUS - Marker for terminal blocks

0824638

<https://www.phoenixcontact.com/us/products/0824638>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

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## UCT-TMF 5 - Marker for terminal blocks

0828744

<https://www.phoenixcontact.com/us/products/0828744>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

## QP 1,5/ 1-M BU - Plug

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## UCT-TMF 5 CUS - Marker for terminal blocks

0829658

<https://www.phoenixcontact.com/us/products/0829658>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

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## SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/us/products/1204517>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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