

SP 2,5/ 3 - Plug

3040274

<https://www.phoenixcontact.com/in/products/3040274>



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Plug, nom. voltage: 500 V, nominal current: 24 A, number of positions: 3, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm²- 4 mm², color: gray

Your advantages

- Large-surface labeling option
- Practical coding option

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 3040274 |
| Packing unit | 50 pc |
| Minimum order quantity | 1 pc |
| Sales Key | BE2 |
| Product Key | BE2144 |
| Catalog Page | Page 318 (C-1-2019) |
| GTIN | 4017918832803 |
| Weight per Piece (including packing) | 8.958 g |
| Weight per Piece (excluding packing) | 8.958 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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Technical Data

Product properties

| | |
|---------------------|---------------|
| Product type | Terminal plug |
| Number of positions | 3 |
| 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 | 2.5 mm ² |
| Stripping length | 8 mm ... 10 mm |
| Internal cylindrical gage | A3 |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross section rigid | 0.08 mm ² ... 4 mm ² |
| Cross section AWG | 28 ... 12 (converted acc. to IEC) |
| Conductor cross section flexible | 0.08 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible [AWG] | 28 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 2.5 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm ² ... 2.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² |
| Nominal current | 24 A |
| Maximum load current | 24 A (with 4 mm ² conductor cross section) |
| Nominal voltage | 500 V |
| Nominal cross section | 2.5 mm ² |

Dimensions

| | |
|--------|---------|
| Width | 15.6 mm |
| Height | 39 mm |
| Length | 15.8 mm |
| Pitch | 5.2 mm |

Material specifications

| | |
|--|--------|
| Color | gray |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |

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| | |
|---|-------------|
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| 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 ... 105 °C (max. short-term operating temperature RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

Standards and regulations

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

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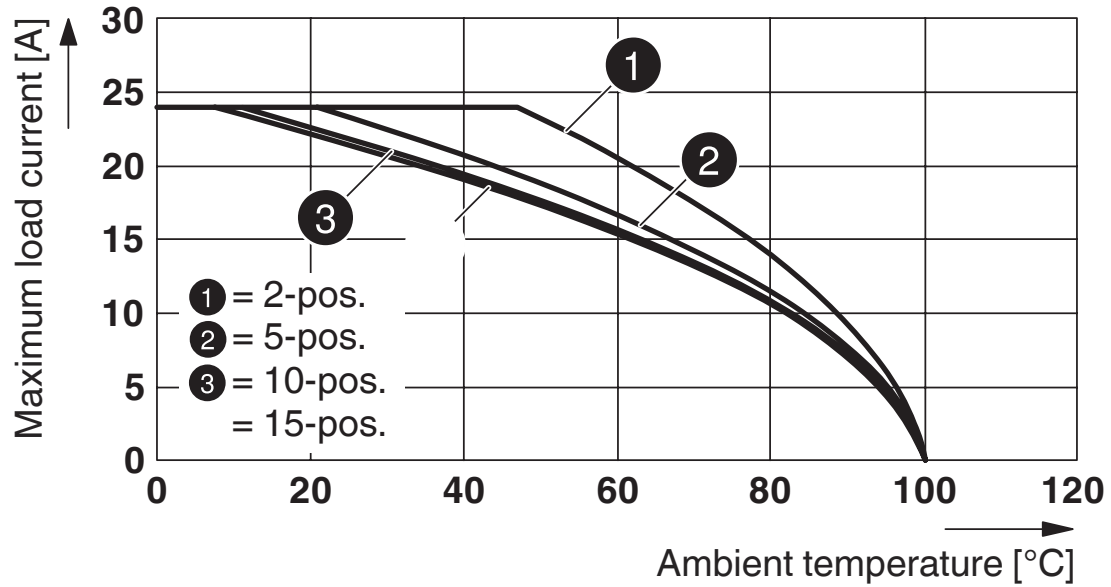
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Drawings

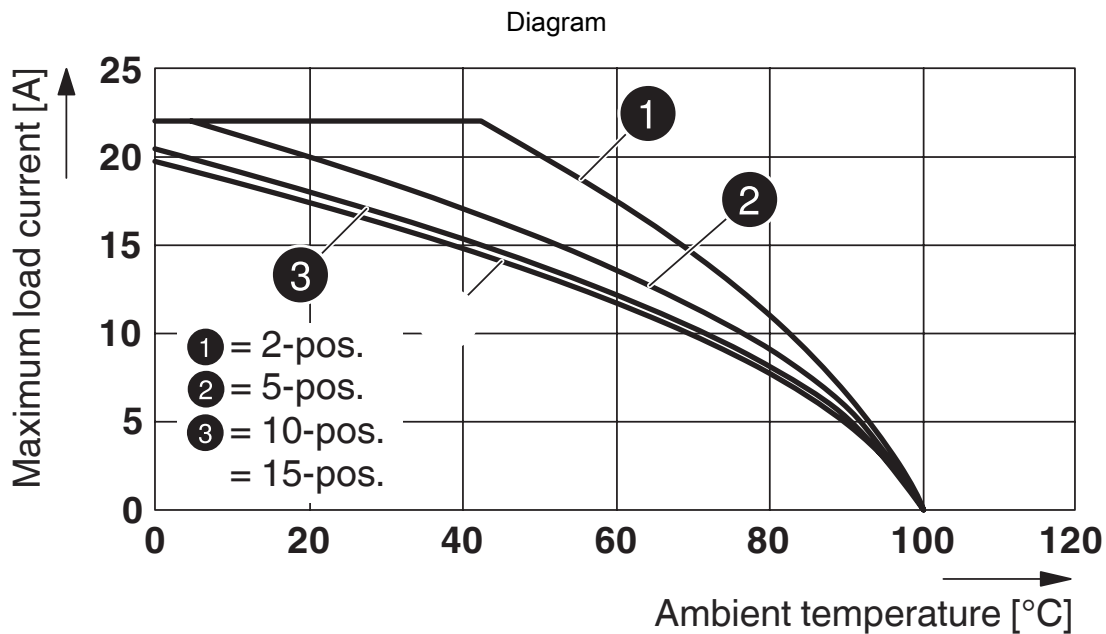
Diagram



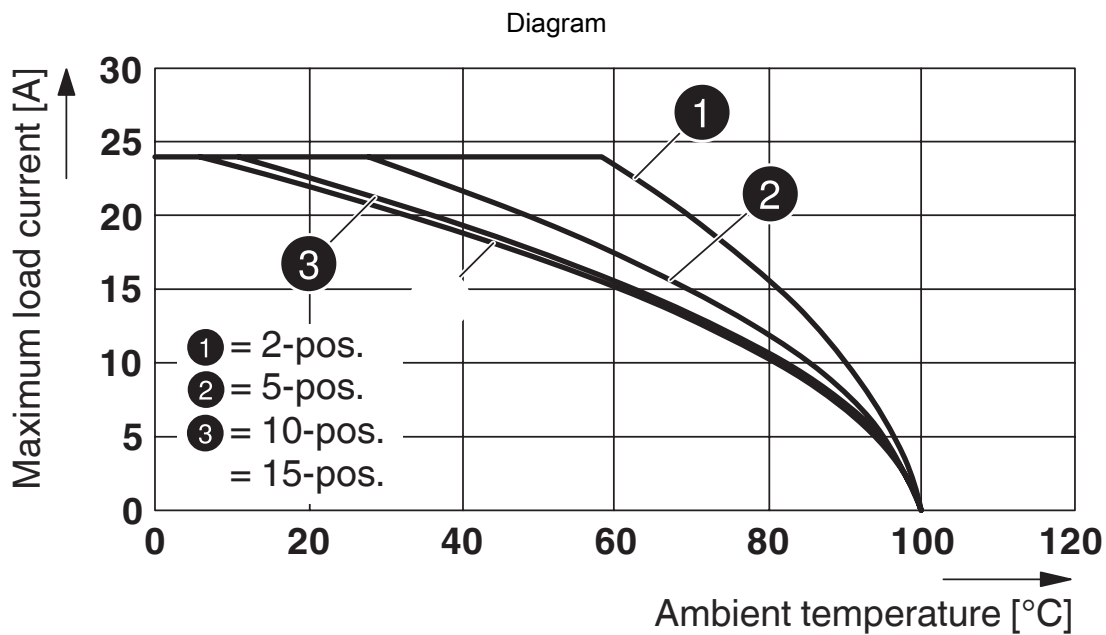
Derating curve for ST 2,5/ 1P, ST 2,5/ 2P, ST 2,5-TWIN/ 1P and for all plug versions SP...

Circuit diagram





Derating curve for STTB 2,5/ 2P, STTB 2,5/ 2P-PV and for all plug versions SP... .

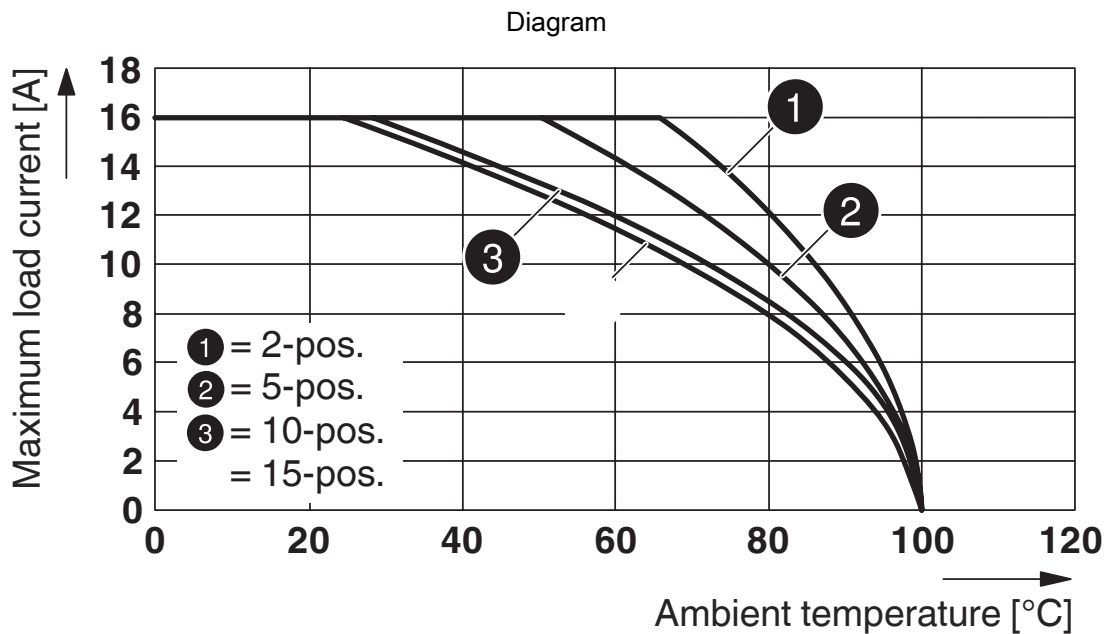


Derating curve for ST 2,5-QUATTRO/2P, ST 2,5-QUATTRO/4P and for all plug versions SP... .

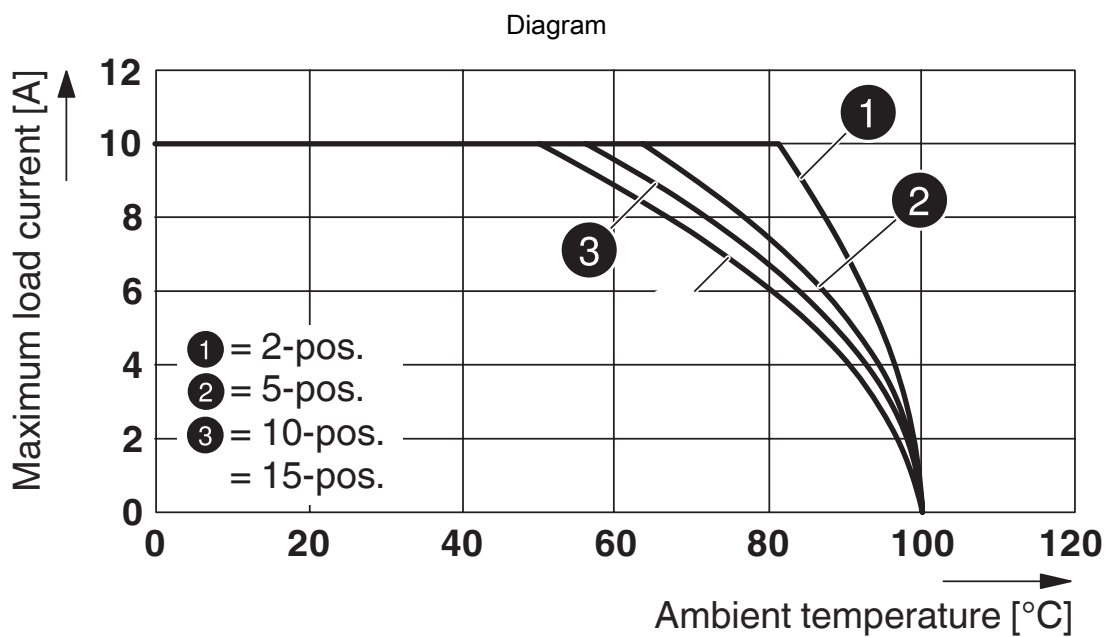
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Derating curve for ST 2,5-TWIN-MT/1P, ST 2,5-TWIN-TG/1P and for all plug versions SP... .



Derating curve for ST 2,5-4L/1P, ST 2,5-4L/2P and for all plug versions SP... .


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Approvals


|  CSA Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| Use group B | 300 V | 20 A | 28 - 12 | - |
| Use group C | 300 V | 20 A | 28 - 12 | - |
| Use group D | 600 V | 5 A | 28 - 12 | - |


|  IECEE CB Scheme Approval ID: DE1-62736/B1/B2 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|


|  EAC Approval ID: RU C-DE.A*30.B.01742 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  LR Approval ID: LR2042068TA | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  RS Approval ID: 22.44.01.00083.250 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  BV Approval ID: 27721/B0 BV | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  EAC Approval ID: RU C-DE.BL08.B.00511 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  VDE Zeichengenehmigung Approval ID: 40019518 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| Only flexible conductors | 500 V | - | - | 0.2 - 2.5 |
| Only rigid conductors | 500 V | - | - | 0.2 - 4 |

|  cULus Recognized Approval ID: E60425 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

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| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B | 300 V | 20 A | 26 - 12 | - |
| Use group C | 300 V | 20 A | 26 - 12 | - |
| Use group D | 600 V | 5 A | 26 - 12 | - |

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC002021 |
|----------|----------|

UNSPSC

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

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Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Accessories

PZ/2 - Strain relief

3040627

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

PZ/4 - Strain relief

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

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PR - Latching

3040559

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

PR/2 - Latching

3040630

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

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PRT/2 - Latching

3040631

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

PRZ - Latching

3040614

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

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PSH 3- 6 - Shield connection clamp

3040591

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Shield connection clamp, color: black

PSH 5-10 - Shield connection clamp

3040601

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Shield connection clamp, color: black

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ST-BW - Actuation tool

1207608

<https://www.phoenixcontact.com/in/products/1207608>

Actuation tool, for all 2.5 mm² - 4.0 mm² spring-cages



ISH 2,5/0,2 - Insulating sleeve

3002843

<https://www.phoenixcontact.com/in/products/3002843>

Insulating sleeve, color: white



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ISH 2,5/0,5 - Insulating sleeve

3002856

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Insulating sleeve, color: gray

ISH 2,5/1,0 - Insulating sleeve

3002869

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Insulating sleeve, color: black

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ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/in/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

ZBF 5 CUS - Zack Marker strip, flat

0825025

<https://www.phoenixcontact.com/in/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

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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

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

0808697

<https://www.phoenixcontact.com/in/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/in/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

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

0810863

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

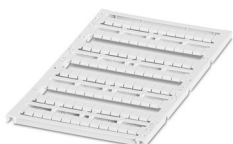


Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

UC-TMF 5 CUS - Marker for terminal blocks

0824638

<https://www.phoenixcontact.com/in/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/in/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

UCT-TMF 5 CUS - Marker for terminal blocks

0829658

<https://www.phoenixcontact.com/in/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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