

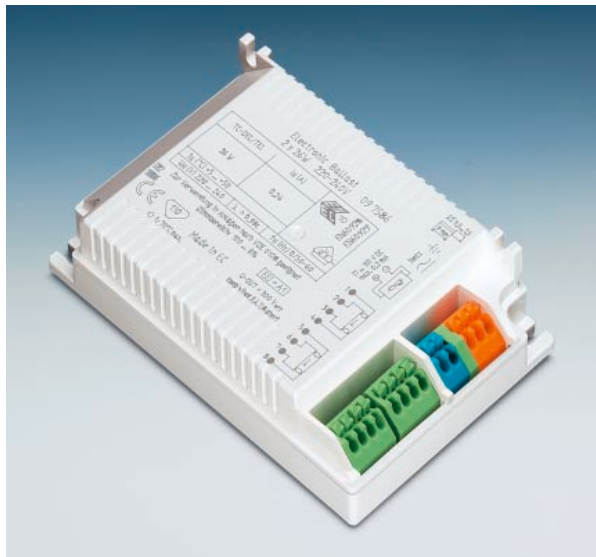
## COMBICON compact; Spring-Cage PCB Termination Blocks PTSA 0,5/... with a 2.5 mm Pitch PTSA 1,5/... with a 3.5 mm Pitch

---

The PTSA spring-cage PCB terminal block range is characterized by an easy-to-operate angled spring-cage connection.

It clamps solid and stranded conductors up to 0.5 or 1.5 mm<sup>2</sup> with the pitches 2.5 and 3.5 mm. Due to the small pitches and the compact outer dimensions, this range is particularly suitable for applications in which space is critical. Typical applications include in particular lighting engineering and telecommunications. The PTSA range can be supplied as a termination block either with solder pins arranged in a row at the front, or with offset solder pins

Z pinning serves to increase the voltage values up to 400 V or 630 V. Pitch spacers and different color versions make it easy to put together customized termination blocks. It is possible to intermix the pitches. Individual labeling of these products is possible.



### COMBICON Select

The COMBICON search engine with CAD downloading



COMBICON Select – the printed circuit board connection software supports your workflow from the PCB and housing layout to the ordering process with:

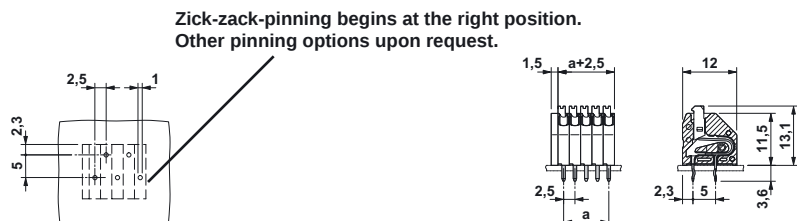
- Systematic and fast selection of products
- Universal Internet aided engineering with extensive CAD downloading
- Easy-to-use e-shopping functions.

[select.phoenixcontact.com/combicon](http://select.phoenixcontact.com/combicon)

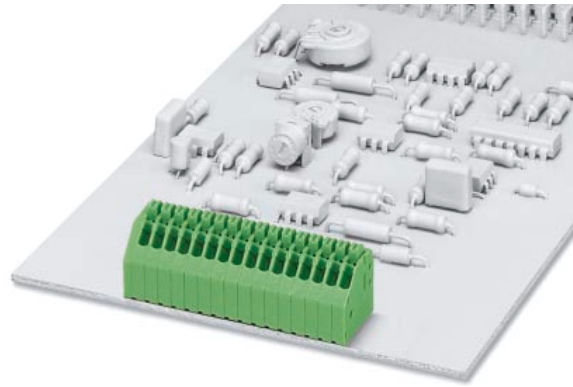
# PCB Termination Blocks PTSA 0,5/...-2,5-Z 2.5 mm Pitch



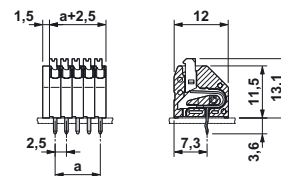
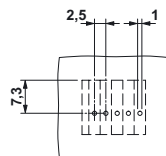
| Description                                                            | No. of pos. | Dim.<br>a<br>[mm]                       | Type                             | Order No.  | Pcs./Pkt. |
|------------------------------------------------------------------------|-------------|-----------------------------------------|----------------------------------|------------|-----------|
| <b>PCB termination blocks, offset pins, 2.5 mm pitch, color: green</b> |             |                                         |                                  |            |           |
|                                                                        | 2           | 2.5                                     | PTSA 0,5/2-2,5-Z                 | 19 90 00 9 | 250       |
|                                                                        | 3           | 5                                       | PTSA 0,5/3-2,5-Z                 | 19 90 01 2 | 250       |
|                                                                        | 4           | 7.5                                     | PTSA 0,5/4-2,5-Z                 | 19 90 02 5 | 250       |
|                                                                        | 5           | 10                                      | PTSA 0,5/5-2,5-Z                 | 19 90 03 8 | 100       |
|                                                                        | 6           | 12.5                                    | PTSA 0,5/6-2,5-Z                 | 19 90 04 1 | 100       |
|                                                                        | 7           | 15                                      | PTSA 0,5/7-2,5-Z                 | 19 90 05 4 | 100       |
|                                                                        | 8           | 17.5                                    | PTSA 0,5/8-2,5-Z                 | 19 90 06 7 | 100       |
|                                                                        | 9           | 20                                      | PTSA 0,5/9-2,5-Z                 | 19 90 07 0 | 100       |
|                                                                        | 10          | 22.5                                    | PTSA 0,5/10-2,5-Z                | 19 90 08 3 | 100       |
|                                                                        | 11          | 25                                      | PTSA 0,5/11-2,5-Z                | 19 90 09 6 | 50        |
|                                                                        | 12          | 27.5                                    | PTSA 0,5/12-2,5-Z                | 19 90 10 6 | 50        |
|                                                                        | 13          | 30                                      | PTSA 0,5/13-2,5-Z                | 19 90 11 9 | 50        |
|                                                                        | 14          | 32.5                                    | PTSA 0,5/14-2,5-Z                | 19 90 12 2 | 50        |
|                                                                        | 15          | 35                                      | PTSA 0,5/15-2,5-Z                | 19 90 13 5 | 50        |
|                                                                        | 16          | 37.5                                    | PTSA 0,5/16-2,5-Z                | 19 90 14 8 | 50        |
|                                                                        | 17          | 40                                      | PTSA 0,5/17-2,5-Z                | 19 90 15 1 | 50        |
|                                                                        | 18          | 42.5                                    | PTSA 0,5/18-2,5-Z                | 19 90 16 4 | 50        |
|                                                                        | 19          | 45                                      | PTSA 0,5/19-2,5-Z                | 19 90 17 7 | 50        |
|                                                                        | 20          | 47.5                                    | PTSA 0,5/20-2,5-Z                | 19 90 18 0 | 50        |
|                                                                        | 21          | 50                                      | PTSA 0,5/21-2,5-Z                | 19 90 19 3 | 50        |
|                                                                        | 22          | 52.5                                    | PTSA 0,5/22-2,5-Z                | 19 90 20 3 | 50        |
|                                                                        | 23          | 55                                      | PTSA 0,5/23-2,5-Z                | 19 90 22 9 | 50        |
|                                                                        | 24          | 57.5                                    | PTSA 0,5/24-2,5-Z                | 19 90 23 2 | 50        |
| <b>Technical data</b>                                                  |             |                                         |                                  |            |           |
| Dimensions                                                             |             |                                         |                                  |            |           |
| Pitch                                                                  |             | [mm]                                    | see description                  |            |           |
| Hole diameter                                                          |             | [mm]                                    | 2.5                              |            |           |
| Pin dimensions                                                         |             | [mm]x[mm]                               | 1                                |            |           |
|                                                                        |             |                                         | 0.4 x 0.75                       |            |           |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                  |             |                                         |                                  |            |           |
| Insulating material group                                              |             | —                                       | I                                |            |           |
| Surge voltage category / contamination class                           |             | —/—                                     | III / 3                          | III / 2    | II / 2    |
| Rated voltage                                                          |             | [V]                                     | 160                              | 250        | 400       |
| Rated surge voltage                                                    |             | [kV]                                    | 2.5                              | 2.5        | 2.5       |
| Nominal current / cross section                                        |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| Maximum load current / cross section                                   |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| <b>Connection capacity</b>                                             |             |                                         |                                  |            |           |
| Solid / stranded / conductor sizes                                     |             | [mm²]/[mm²]/AWG                         | 0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 |            |           |
| Stranded with ferrule without / with plastic sleeve                    |             | [mm²]                                   | —                                |            |           |
| <b>Stripping length</b>                                                |             |                                         |                                  |            |           |
|                                                                        |             | [mm]                                    | 8                                |            |           |
| <b>Insulating material</b>                                             |             |                                         |                                  |            |           |
|                                                                        |             |                                         | PA                               |            |           |
|                                                                        |             |                                         | V0                               |            |           |
| <b>Approval data (UL/CUL and CSA)</b>                                  |             |                                         |                                  |            |           |
| Nominal voltage / current / conductor sizes                            |             | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG | —                                |            |           |
|                                                                        |             |                                         | —                                |            |           |



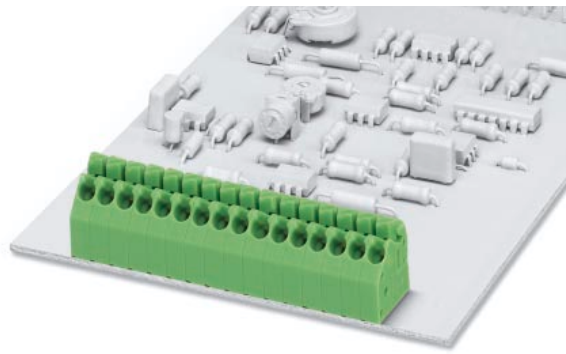
# PCB Termination Blocks PTSA 0,5/...-2,5-F 2.5 mm Pitch



| Description                                                                      | No. of pos. | Dim.<br>a<br>[mm]                       | Type                             | Order No.  | Pcs./Pkt. |
|----------------------------------------------------------------------------------|-------------|-----------------------------------------|----------------------------------|------------|-----------|
| <b>PCB termination blocks, pins at the front,<br/>2.5 mm pitch, color: green</b> |             |                                         |                                  |            |           |
|                                                                                  | 2           | 2.5                                     | PTSA 0,5/2-2,5-F                 | 19 89 74 8 | 250       |
|                                                                                  | 3           | 5                                       | PTSA 0,5/3-2,5-F                 | 19 89 75 1 | 250       |
|                                                                                  | 4           | 7.5                                     | PTSA 0,5/4-2,5-F                 | 19 89 76 4 | 250       |
|                                                                                  | 5           | 10                                      | PTSA 0,5/5-2,5-F                 | 19 89 77 7 | 100       |
|                                                                                  | 6           | 12.5                                    | PTSA 0,5/6-2,5-F                 | 19 89 78 0 | 100       |
|                                                                                  | 7           | 15                                      | PTSA 0,5/7-2,5-F                 | 19 89 79 3 | 100       |
|                                                                                  | 8           | 17.5                                    | PTSA 0,5/8-2,5-F                 | 19 89 80 3 | 100       |
|                                                                                  | 9           | 20                                      | PTSA 0,5/9-2,5-F                 | 19 89 81 6 | 100       |
|                                                                                  | 10          | 22.5                                    | PTSA 0,5/10-2,5-F                | 19 89 82 9 | 100       |
|                                                                                  | 11          | 25                                      | PTSA 0,5/11-2,5-F                | 19 89 83 2 | 50        |
|                                                                                  | 12          | 27.5                                    | PTSA 0,5/12-2,5-F                | 19 89 84 5 | 50        |
|                                                                                  | 13          | 30                                      | PTSA 0,5/13-2,5-F                | 19 89 85 8 | 50        |
|                                                                                  | 14          | 32.5                                    | PTSA 0,5/14-2,5-F                | 19 89 86 1 | 50        |
|                                                                                  | 15          | 35                                      | PTSA 0,5/15-2,5-F                | 19 89 87 4 | 50        |
|                                                                                  | 16          | 37.5                                    | PTSA 0,5/16-2,5-F                | 19 89 88 7 | 50        |
|                                                                                  | 17          | 40                                      | PTSA 0,5/17-2,5-F                | 19 89 89 0 | 50        |
|                                                                                  | 18          | 42.5                                    | PTSA 0,5/18-2,5-F                | 19 89 90 0 | 50        |
|                                                                                  | 19          | 45                                      | PTSA 0,5/19-2,5-F                | 19 89 91 3 | 50        |
|                                                                                  | 20          | 47.5                                    | PTSA 0,5/20-2,5-F                | 19 89 92 6 | 50        |
|                                                                                  | 21          | 50                                      | PTSA 0,5/21-2,5-F                | 19 89 93 9 | 50        |
|                                                                                  | 22          | 52.5                                    | PTSA 0,5/22-2,5-F                | 19 89 94 2 | 50        |
|                                                                                  | 23          | 55                                      | PTSA 0,5/23-2,5-F                | 19 89 95 5 | 50        |
|                                                                                  | 24          | 57.5                                    | PTSA 0,5/24-2,5-F                | 19 89 99 7 | 50        |
| <b>Technical data</b>                                                            |             |                                         |                                  |            |           |
| Dimensions                                                                       |             |                                         |                                  |            |           |
| Pitch                                                                            |             | [mm]                                    | see description                  |            |           |
| Hole diameter                                                                    |             | [mm]                                    | 2.5                              |            |           |
| Pin dimensions                                                                   |             | [mm]x[mm]                               | 1                                |            |           |
| 0.4 x 0.75                                                                       |             |                                         |                                  |            |           |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                            |             |                                         |                                  |            |           |
| Insulating material group                                                        |             | —                                       | I                                |            |           |
| Surge voltage category / contamination class                                     |             | —/—                                     | III / 3                          | III / 2    | II / 2    |
| Rated voltage                                                                    |             | [V]                                     | 63                               | 250        | 250       |
| Rated surge voltage                                                              |             | [kV]                                    | 2.5                              | 2.5        | 2.5       |
| Nominal current / cross section                                                  |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| Maximum load current / cross section                                             |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| <b>Connection capacity</b>                                                       |             |                                         |                                  |            |           |
| Solid / stranded / conductor sizes                                               |             | [mm²]/[mm²]/AWG                         | 0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 |            |           |
| Stranded with ferrule without / with plastic sleeve                              |             | [mm²]                                   | —                                |            |           |
| <b>Stripping length</b>                                                          |             |                                         |                                  |            |           |
|                                                                                  |             | [mm]                                    | 8                                |            |           |
| <b>Insulating material</b>                                                       |             |                                         |                                  |            |           |
| Inflammability class in acc. with UL 94                                          |             |                                         | PA                               |            |           |
| V0                                                                               |             |                                         |                                  |            |           |
| <b>Approval data (UL/CUL and CSA)</b>                                            |             |                                         |                                  |            |           |
| Nominal voltage / current / conductor sizes                                      |             | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG | —                                |            |           |
|                                                                                  |             |                                         | —                                |            |           |



# PCB Termination Blocks PTSA 1,5/...-3,5-Z 3.5 mm Pitch



| Description                                                            | No. of pos. | Dim.<br>a<br>[mm] | Type              | Order No.  | Pcs./Pkt. |
|------------------------------------------------------------------------|-------------|-------------------|-------------------|------------|-----------|
| <b>PCB termination blocks, offset pins, 3.5 mm pitch, color: green</b> |             |                   |                   |            |           |
|                                                                        | 2           | 3.5               | PTSA 1,5/2-3,5-Z  | 19 85 19 5 | 250       |
|                                                                        | 3           | 7                 | PTSA 1,5/3-3,5-Z  | 19 85 20 5 | 250       |
|                                                                        | 4           | 10.5              | PTSA 1,5/4-3,5-Z  | 19 85 21 8 | 250       |
|                                                                        | 5           | 14                | PTSA 1,5/5-3,5-Z  | 19 85 22 1 | 100       |
|                                                                        | 6           | 17.5              | PTSA 1,5/6-3,5-Z  | 19 85 23 4 | 100       |
|                                                                        | 7           | 21                | PTSA 1,5/7-3,5-Z  | 19 85 24 7 | 100       |
|                                                                        | 8           | 24.5              | PTSA 1,5/8-3,5-Z  | 19 85 25 0 | 100       |
|                                                                        | 9           | 28                | PTSA 1,5/9-3,5-Z  | 19 85 26 3 | 100       |
|                                                                        | 10          | 31.5              | PTSA 1,5/10-3,5-Z | 19 85 27 6 | 100       |
|                                                                        | 11          | 35                | PTSA 1,5/11-3,5-Z | 19 85 28 9 | 50        |
|                                                                        | 12          | 38.5              | PTSA 1,5/12-3,5-Z | 19 85 29 2 | 50        |
|                                                                        | 13          | 42                | PTSA 1,5/13-3,5-Z | 19 85 30 2 | 50        |
|                                                                        | 14          | 45.5              | PTSA 1,5/14-3,5-Z | 19 85 31 5 | 50        |
|                                                                        | 15          | 49                | PTSA 1,5/15-3,5-Z | 19 85 32 8 | 50        |
|                                                                        | 16          | 52.5              | PTSA 1,5/16-3,5-Z | 19 85 33 1 | 50        |
|                                                                        | 17          | 56                | PTSA 1,5/17-3,5-Z | 19 85 34 4 | 50        |
|                                                                        | 18          | 59.5              | PTSA 1,5/18-3,5-Z | 19 85 35 7 | 50        |
|                                                                        | 19          | 63                | PTSA 1,5/19-3,5-Z | 19 85 36 0 | 50        |
|                                                                        | 20          | 66.5              | PTSA 1,5/20-3,5-Z | 19 85 37 3 | 50        |
|                                                                        | 21          | 70                | PTSA 1,5/21-3,5-Z | 19 85 38 6 | 50        |
|                                                                        | 22          | 73.5              | PTSA 1,5/22-3,5-Z | 19 85 39 9 | 50        |
|                                                                        | 23          | 77                | PTSA 1,5/23-3,5-Z | 19 85 40 2 | 50        |
|                                                                        | 24          | 80.5              | PTSA 1,5/24-3,5-Z | 19 85 41 5 | 50        |

## Technical data

|                |           |
|----------------|-----------|
| Dimensions     |           |
| Pitch          | [mm]      |
| Hole diameter  | [mm]      |
| Pin dimensions | [mm]x[mm] |

## Technical data in accordance with IEC/ DIN VDE

|                                              |           |
|----------------------------------------------|-----------|
| Insulating material group                    | —         |
| Surge voltage category / contamination class | —/—       |
| Rated voltage                                | [V]       |
| Rated surge voltage                          | [kV]      |
| Nominal current / cross section              | [A]/[mm²] |
| Maximum load current / cross section         | [A]/[mm²] |

## Connection capacity

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| Solid / stranded / conductor sizes                  | [mm²]/[mm²]/AWG |
| Stranded with ferrule without / with plastic sleeve | [mm²]           |

## Stripping length

## Insulating material

Inflammability class in acc. with UL 94

## Approval data (UL/CUL and CSA)

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| Nominal voltage / current / conductor sizes | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG |
|---------------------------------------------|-----------------------------------------|

see description

3.5

1

0.4 x 0.,75

III / 3

250

4

I

III / 2

400

4

2 / 1.5

2 / 1.5

II / 2

630

4

0.5 - 1.5 / 0.5 - 1.5 / 20 - 16

0.5 - 1.0 / 0.5

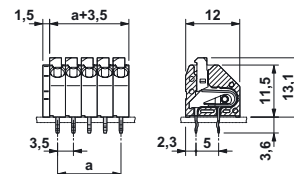
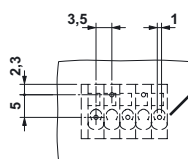
8

PA

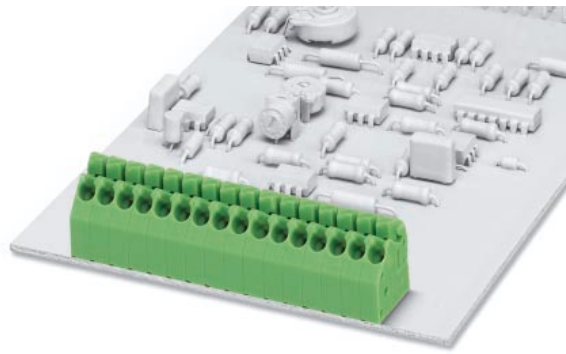
V2

300 / 2 / 24 - 16

Zick-zack-pinning begins at the right position.  
Other pinning options upon request.



# PCB Termination Blocks PTSA 1,5/...-3,5-F 3.5 mm Pitch



| Description                                                                  | No. of pos. | Dim.<br>a<br>[mm] | Type              | Order No.  | Pcs./Pkt. |
|------------------------------------------------------------------------------|-------------|-------------------|-------------------|------------|-----------|
| <b>PCB termination blocks, pins at the front, 3.5 mm pitch, color: green</b> |             |                   |                   |            |           |
|                                                                              | 2           | 3.5               | PTSA 1,5/2-3,5-F  | 19 84 96 3 | 250       |
|                                                                              | 3           | 7                 | PTSA 1,5/3-3,5-F  | 19 94 97 6 | 250       |
|                                                                              | 4           | 10.5              | PTSA 1,5/4-3,5-F  | 19 84 98 9 | 250       |
|                                                                              | 5           | 14                | PTSA 1,5/5-3,5-F  | 19 84 99 2 | 100       |
|                                                                              | 6           | 17.5              | PTSA 1,5/6-3,5-F  | 19 85 00 1 | 100       |
|                                                                              | 7           | 21                | PTSA 1,5/7-3,5-F  | 19 85 01 4 | 100       |
|                                                                              | 8           | 24.5              | PTSA 1,5/8-3,5-F  | 19 85 02 7 | 100       |
|                                                                              | 9           | 28                | PTSA 1,5/9-3,5-F  | 19 85 03 0 | 100       |
|                                                                              | 10          | 31.5              | PTSA 1,5/10-3,5-F | 19 85 04 3 | 100       |
|                                                                              | 11          | 35                | PTSA 1,5/11-3,5-F | 19 85 05 6 | 50        |
|                                                                              | 12          | 38.5              | PTSA 1,5/12-3,5-F | 19 85 06 9 | 50        |
|                                                                              | 13          | 42                | PTSA 1,5/13-3,5-F | 19 85 07 2 | 50        |
|                                                                              | 14          | 45.5              | PTSA 1,5/14-3,5-F | 19 85 08 5 | 50        |
|                                                                              | 15          | 49                | PTSA 1,5/15-3,5-F | 19 85 09 8 | 50        |
|                                                                              | 16          | 52.5              | PTSA 1,5/16-3,5-F | 19 85 10 8 | 50        |
|                                                                              | 17          | 56                | PTSA 1,5/17-3,5-F | 19 85 11 1 | 50        |
|                                                                              | 18          | 59.5              | PTSA 1,5/18-3,5-F | 19 85 12 4 | 50        |
|                                                                              | 19          | 63                | PTSA 1,5/19-3,5-F | 19 85 13 7 | 50        |
|                                                                              | 20          | 66.5              | PTSA 1,5/20-3,5-F | 19 85 14 0 | 50        |
|                                                                              | 21          | 70                | PTSA 1,5/21-3,5-F | 19 85 15 3 | 50        |
|                                                                              | 22          | 73.5              | PTSA 1,5/22-3,5-F | 19 85 16 6 | 50        |
|                                                                              | 23          | 77                | PTSA 1,5/23-3,5-F | 19 85 17 9 | 50        |
|                                                                              | 24          | 80.5              | PTSA 1,5/24-3,5-F | 19 85 18 2 | 50        |

## Technical data

|                |           |
|----------------|-----------|
| Dimensions     |           |
| Pitch          | [mm]      |
| Hole diameter  | [mm]      |
| Pin dimensions | [mm]x[mm] |

## Technical data in accordance with IEC/ DIN VDE

|                                              |           |
|----------------------------------------------|-----------|
| Insulating material group                    | —         |
| Surge voltage category / contamination class | —/—       |
| Rated voltage                                | [V]       |
| Rated surge voltage                          | [kV]      |
| Nominal current / cross section              | [A]/[mm²] |
| Maximum load current / cross section         | [A]/[mm²] |

## Connection capacity

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| Solid / stranded / conductor sizes                  | [mm²]/[mm²]/AWG |
| Stranded with ferrule without / with plastic sleeve | [mm²]           |

## Stripping length

## Insulating material

Inflammability class in acc. with UL 94

## Approval data (UL/CUL and CSA)

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| Nominal voltage / current / conductor sizes | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG |
|---------------------------------------------|-----------------------------------------|

see description

3.5

1

0.4 x 0.75

|         |         |        |
|---------|---------|--------|
| III / 3 | I       | II / 2 |
| 200     | III / 2 | 400    |
| 4       | 200     | 4      |
|         | 4       |        |
|         | 2 / 1.5 |        |
|         | 2 / 1.5 |        |

0.5 - 1.5 / 0.5 - 1.5 / 20 - 16

0.5 - 1.0 / 0.5

8

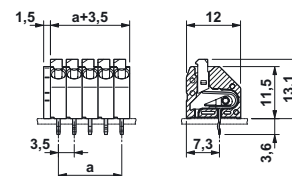
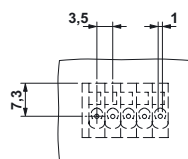
PA

V2

300 / 2 / 24 - 16

—

© Phoenix Contact 2005





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.