

## Printed-circuit board connector - IC 2,5/ 4-STGF-5,08 - 1825527

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Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

### Why buy this product

- ✓ Plug with inverted contact system (pin contact)
- ✓ Well-known connection principle allows worldwide use
- ✓ Easy PCB replacement thanks to plug-in modules
- ✓ Screwable flange for superior mechanical stability
- ✓ Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- ✓ Can be combined with the MSTB 2',5 range
- ✓ Low temperature rise, thanks to maximum contact force



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| GTIN                                 | <br>4 017918 049683 |
| GTIN                                 | 4017918049683                                                                                           |
| Weight per Piece (excluding packing) | 7.520 g                                                                                                 |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Environmental Product Compliance

|            |                                                                          |
|------------|--------------------------------------------------------------------------|
| China RoHS | Hazardous substances above threshold values                              |
|            | Environmentally Friendly Use Period = 50                                 |
|            | For details go to tab "Downloads", Category "Manufacturer's declaration" |

#### Dimensions

|        |         |
|--------|---------|
| Length | 19.2 mm |
|--------|---------|

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## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Height      | 15 mm    |
| Width       | 30.44 mm |
| Pitch       | 5.08 mm  |
| Dimension a | 15.24 mm |

### General

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| Range of articles                      | IC 2,5/...-STGF                      |
| Type of contact                        | Male connector                       |
| Number of positions                    | 4                                    |
| Connection method                      | Screw connection with tension sleeve |
| Insulating material group              | I                                    |
| Rated surge voltage (III/3)            | 4 kV                                 |
| Rated surge voltage (III/2)            | 4 kV                                 |
| Rated surge voltage (II/2)             | 4 kV                                 |
| Rated voltage (III/3)                  | 250 V                                |
| Rated voltage (III/2)                  | 320 V                                |
| Rated voltage (II/2)                   | 630 V                                |
| Connection in acc. with standard       | EN-VDE                               |
| Nominal current $I_N$                  | 12 A                                 |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                  |
| Maximum load current                   | 12 A                                 |
| Insulating material                    | PA                                   |
| Flammability rating according to UL 94 | V0                                   |
| Internal cylindrical gage              | A3                                   |
| Stripping length                       | 7 mm                                 |
| Screw thread                           | M3                                   |
| Tightening torque, min                 | 0.5 Nm                               |
| Tightening torque max                  | 0.6 Nm                               |

### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                         | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.                                         | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                           | 24                   |
| Conductor cross section AWG max.                                           | 12                   |
| 2 conductors with same cross section, solid min.                           | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                           | 1 mm <sup>2</sup>    |

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## Technical data

### Connection data

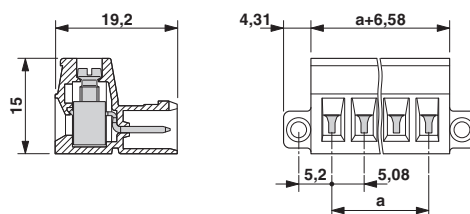
|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 2 conductors with same cross section, stranded min.                                     | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                     | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL                                                         | 30                   |
| Maximum AWG according to UL/CUL                                                         | 12                   |

### Standards and Regulations

|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CSA    |
| Flammability rating according to UL 94 | V0     |

## Drawings

Dimensional drawing



## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
|----------|----------|

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECCE CB Scheme / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

| CSA  13631 |       |       |
|-----------------------------------------------------------------------------------------------|-------|-------|
|                                                                                               | B     | D     |
| mm <sup>2</sup> /AWG/kcmil                                                                    | 28-12 | 28-12 |
| Nominal current I <sub>N</sub>                                                                | 10 A  | 10 A  |
| Nominal voltage U <sub>N</sub>                                                                | 300 V | 300 V |

| UL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 60425 |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
|                                                                                                                                                                                                                                                                      | B     | D     |
| mm <sup>2</sup> /AWG/kcmil                                                                                                                                                                                                                                           | 30-12 | 30-12 |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                       | 12 A  | 10 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                       | 250 V | 300 V |

## Printed-circuit board connector - IC 2,5/ 4-STGF-5,08 - 1825527

### Approvals

|                                                                                                                                    |         |
|------------------------------------------------------------------------------------------------------------------------------------|---------|
| VDE Gutachten mit Fertigungsüberwachung  40004701 |         |
| mm²/AWG/kcmil                                                                                                                      | 0.2-2.5 |
| Nominal current I <sub>N</sub>                                                                                                     | 12 A    |
| Nominal voltage U <sub>N</sub>                                                                                                     | 250 V   |

|                                                                                                                                                                                                                                                                     |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| cUL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 60425 |       |       |
|                                                                                                                                                                                                                                                                     | B     | D     |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                       | 30-12 | 30-12 |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                      | 12 A  | 10 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                      | 250 V | 300 V |

|                                                                                                                                                                              |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| IECEE CB Scheme  <a href="http://www.iecee.org/">http://www.iecee.org/</a> DE1-56062-B1B2 |         |
| mm²/AWG/kcmil                                                                                                                                                                | 0.2-2.5 |
| Nominal current I <sub>N</sub>                                                                                                                                               | 12 A    |
| Nominal voltage U <sub>N</sub>                                                                                                                                               | 250 V   |

|                   |
|-------------------|
| EAC EAC-Zulassung |
|-------------------|

|             |
|-------------|
| EAC B.01742 |
|-------------|

|                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Bridge

Insertion bridge - EBP 2- 5 - 1733169



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 2

## Printed-circuit board connector - IC 2,5/ 4-STGF-5,08 - 1825527

### Accessories

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#### Cable housing

Cable housing - KGG-MSTB 2,5/ 4 - 1803882



Cable housing, Pitch: 0 mm, Number of positions: 4, Dimension a: 20 mm, Color: green

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#### Coding element

Coding star - CR-MSTB - 1734401



Coding section, inserted into the recess in the header or the inverted plug, red insulating material

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#### Filler plug

Accessories - MSTB-BL - 1755477



Keying cap, for forming sections, plugs onto header pin, green insulating material

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#### Labeled terminal marker

Marker card - SK 5,08/3,8:FORTL.ZAHLEN - 0804293



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, for terminal block width: 5.08 mm, Lettering field: 5.08 x 3.8 mm

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#### Panel mounting frame

## Printed-circuit board connector - IC 2,5/ 4-STGF-5,08 - 1825527

### Accessories

#### Accessories - IC-DFR 4 - 1852040



Accessories, Number of positions: 4, Pitch: 5.08 mm, Color: green, This assembly frame can only be used in combination with IC 2,5/...-STGF-5,08

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### Screwdriver tools

#### Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, 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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### Additional products

#### Printed-circuit board connector - MSTB 2,5/ 4-STF-5,08 - 1778001



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - MSTBT 2,5/ 4-STF-5,08 - 1805327



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - MVSTBW 2,5/ 4-STF-5,08 - 1834929



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

## Printed-circuit board connector - IC 2,5/ 4-STGF-5,08 - 1825527

### Accessories

#### Printed-circuit board connector - TMSTBP 2,5/ 4-STF-5,08 - 1853120



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin, The plug allows conductors to be looped through from module to module.

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#### Printed-circuit board connector - FKCT 2,5/ 4-STF-5,08 - 1902327



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Push-in spring connection, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - QC 1/ 4-STF-5,08 - 1883378



Plug component, Nominal current: 10 A, Rated voltage (III/2): 630 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Displacement connection, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - FKCVR 2,5/ 4-STF-5,08 - 1874125



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Push-in spring connection, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - FKCVW 2,5/ 4-STF-5,08 - 1873825



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Push-in spring connection, Color: green, Contact surface: Tin

## Printed-circuit board connector - IC 2,5/ 4-STGF-5,08 - 1825527

### Accessories

#### Printed-circuit board connector - FKC 2,5/ 4-STF-5,08 - 1873223



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Push-in spring connection, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - MVSTBR 2,5/ 4-STF-5,08 - 1835119



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - MSTBC 2,5/ 4-STZF-5,08 - 1809750



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Crimp connection, Color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

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#### Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 4, Pitch: 5.08 mm, Connection method: Front screw connection, Color: green, Contact surface: Tin