

## Printed-circuit board connector - IMC 1,5/16-ST-3,81 - 1858028

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Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

### Why buy this product

- ✓ Possible combinations with IMC base strips for clear separation of PCB inputs/outputs
- ✓ Possible combinations with MC 1,5 plugs for free-hanging connections
- ✓ Pitch: 3.81 mm
- ✓ Individual position coding by connecting the coding profile to the inverted plug and removing the coding tab on the counterpart
- ✓ Use in shock-proof applications



### Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 pc                                                                                                   |
| GTIN                                 | <br>4 017918 144265 |
| Weight per Piece (excluding packing) | 12.7 g                                                                                                  |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 3.81 mm  |
| Dimension a | 57.15 mm |

#### General

|                             |             |
|-----------------------------|-------------|
| Range of articles           | IMC 1,5/-ST |
| Insulating material group   | I           |
| Rated surge voltage (III/3) | 2.5 kV      |
| Rated surge voltage (III/2) | 2.5 kV      |
| Rated surge voltage (II/2)  | 2.5 kV      |
| Rated voltage (III/3)       | 160 V       |

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## Technical data

### General

|                                         |                                                        |
|-----------------------------------------|--------------------------------------------------------|
| Rated voltage (III/2)                   | 160 V                                                  |
| Rated voltage (II/2)                    | 320 V                                                  |
| Connection in acc. with standard        | EN-VDE                                                 |
| Nominal current $I_N$                   | 8 A                                                    |
| Nominal cross section                   | 1.5 mm <sup>2</sup>                                    |
| Maximum load current                    | 8 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                     | PA                                                     |
| Inflammability class according to UL 94 | V0                                                     |
| Internal cylindrical gage               | A1                                                     |
| Stripping length                        | 7 mm                                                   |
| Number of positions                     | 16                                                     |
| Screw thread                            | M2                                                     |
| Tightening torque, min                  | 0.22 Nm                                                |
| Tightening torque max                   | 0.25 Nm                                                |

### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                                      | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.                                                   | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                                   | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.                 | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                                  | 28                   |
| Conductor cross section AWG/kcmil max                                                   | 16                   |
| 2 conductors with same cross section, solid min.                                        | 0.08 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                                        | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.08 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 0.34 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. | 0.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL                                                         | 30                   |
| Maximum AWG according to UL/CUL                                                         | 14                   |

## Printed-circuit board connector - IMC 1,5/16-ST-3,81 - 1858028

### 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 |

#### ETIM

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

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

##### Ex Approvals

##### Approvals submitted

##### Approval details

|                                                                                                   |       |       |
|---------------------------------------------------------------------------------------------------|-------|-------|
| UL Recognized  |       |       |
|                                                                                                   | B     | D     |
| mm²/AWG/kcmil                                                                                     | 30-14 | 30-14 |
| Nominal current I <sub>N</sub>                                                                    | 8 A   | 8 A   |

## Printed-circuit board connector - IMC 1,5/16-ST-3,81 - 1858028

### Approvals

|                    | B     | D     |
|--------------------|-------|-------|
| Nominal voltage UN | 300 V | 300 V |

|                                                                                                                           |         |
|---------------------------------------------------------------------------------------------------------------------------|---------|
| VDE Gutachten mit Fertigungsüberwachung  |         |
| mm²/AWG/kcmil                                                                                                             | 0.2-1.5 |
| Nominal current IN                                                                                                        | 8 A     |
| Nominal voltage UN                                                                                                        | 160 V   |

|                                                                                                  |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|
| cUL Recognized  |       |       |
|                                                                                                  | B     | D     |
| mm²/AWG/kcmil                                                                                    | 30-14 | 30-14 |
| Nominal current I <sub>N</sub>                                                                   | 8 A   | 8 A   |
| Nominal voltage U <sub>N</sub>                                                                   | 300 V | 300 V |

|                                                                                                     |         |
|-----------------------------------------------------------------------------------------------------|---------|
| IECEE CB Scheme  |         |
| mm²/AWG/kcmil                                                                                       | 0.2-1.5 |
| Nominal current IN                                                                                  | 8 A     |
| Nominal voltage UN                                                                                  | 160 V   |

|                    |         |
|--------------------|---------|
| CCA                |         |
| mm²/AWG/kcmil      | 0.2-1.5 |
| Nominal current IN | 8 A     |
| Nominal voltage UN | 160 V   |

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

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|------------------------------------------------------------------------------------------------------|

### Accessories

Accessories

Cable housing

## Printed-circuit board connector - IMC 1,5/16-ST-3,81 - 1858028

### Accessories

Cable housing - KGG-MC 1,5/ 2 - 1834343



Cable housing, Pitch: 3.81 mm, Number of positions: 2, Dimension a: 10.01 mm, Color: green

Cable housing - KGG-MC 1,5/ 6 - 1834385



Cable housing, Pitch: 3.81 mm, Number of positions: 6, Dimension a: 25.25 mm, Color: green

### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

### Labeled terminal marker

Marker card - SK 3,81/2,8:FORTL.ZAHLEN - 0804109



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: 3.81 mm, Lettering field: 3.81 x 2.8 mm

### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

### Additional products

## Printed-circuit board connector - IMC 1,5/16-ST-3,81 - 1858028

### Accessories

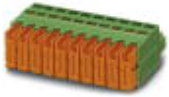
#### Plug - MC 1,5/16-ST-3,81 - 1803714



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - QC 0,5/16-ST-3,81 - 1897539



Plug component, Nominal current: 6 A, Rated voltage (III/2): 200 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Insulation displacement connection QUICKON, Color: green, Contact surface: Tin

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#### Printed-circuit board connector - MCVW 1,5/16-ST-3,81 - 1827114



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

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#### Housing - IMC 1,5/16-G-3,81 - 1862713



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Soldering

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#### Printed-circuit board connector - FRONT-MC 1,5/16-ST-3,81 - 1850806



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

## Printed-circuit board connector - IMC 1,5/16-ST-3,81 - 1858028

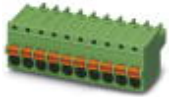
### Accessories

Printed-circuit board connector - MCC 1/16-STZ-3,81 - 1852312



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Crimp connection, Color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 5A/MCC-MT 0,2-0,35 (1859988); 8A/MCC-MT 0,5-1,0 (1859991)

Printed-circuit board connector - FK-MCP 1,5/16-ST-3,81 - 1851180



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Spring-cage connection, Color: green, Contact surface: Tin

Base strip - IMCV 1,5/16-G-3,81 - 1875564



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Mounting: Soldering

Printed-circuit board connector - MCVR 1,5/16-ST-3,81 - 1827266



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 16, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

### Drawings

Dimensioned drawing

