

# Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, 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

- Well-known connection principle allows worldwide use
- Easy PCB replacement thanks to plug-in modules
- 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	 4 017918 042462
GTIN	4017918042462
Weight per Piece (excluding packing)	25.970 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Length [ l ]	19.2 mm
Width [ w ]	82.78 mm
Height [ h ]	15 mm
Pitch	5.08 mm
Dimension a	76.2 mm

### General

Range of articles	IC 2,5/..-ST
-------------------	--------------

# Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

## Technical data

### General

Type of contact	Male connector
Number of positions	16
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>
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>

# Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

## Technical data

### Connection data

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

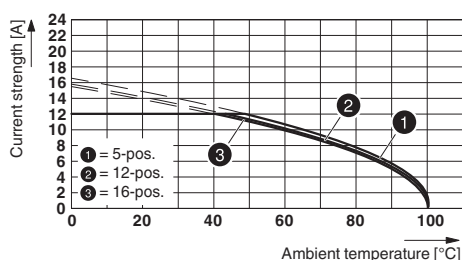
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

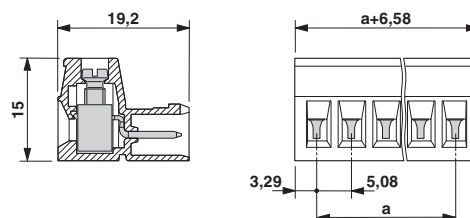
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Diagram



Dimensional drawing



Type: (U)MSTBVK 2,5/...-ST-5,08 with IC 2,5/...-ST-5,08

## 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
----------	----------

# Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

## Classifications

### ETIM

ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	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 / cULus Recognized

#### Ex Approvals

### Approval details

CSA		13631
	B	D
mm <sup>2</sup> /AWG/kcmil	28-12	28-12
Nominal current IN	10 A	10 A
Nominal voltage UN	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 IN	12 A	10 A	
Nominal voltage UN	250 V	300 V	

# Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

## Approvals

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/ VDE-approved-products/Pages/Online-Search.aspx</a>	40004701
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current IN	12 A		
Nominal voltage UN	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	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current IN	12 A	10 A	
Nominal voltage UN	250 V	300 V	

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-58978-B1B2
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current IN	12 A		
Nominal voltage UN	250 V		

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 2,5/16-ST-5,08 - 1786310

### Accessories

---

#### Cable housing

Cable housing - KGG-MSTB 2,5/ 2 - 1803934



Cable housing, pitch: 0 mm, number of positions: 2, dimension a: 10 mm, color: green

---

Cable housing - KGS-MSTB 2,5/ 8 - 1783779



Cable housing, pitch: 0 mm, number of positions: 8, dimension a: 40 mm, color: green

---

#### Coding element

Coding star - CR-MSTB - 1734401



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

---

#### Filler plug

Accessories - MSTB-BL - 1755477



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

---

#### 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

# Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

## Accessories

---

### 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

---

### Additional products

Printed-circuit board connector - MSTB 2,5/16-STZ-5,08 - 1764248



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin

---

Plug - MSTBVK 2,5/16-ST-5,08 - 1831456



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin, mounting: DIN rail

---

Printed-circuit board connector - MSTB 2,5/16-ST-5,08 - 1757158



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin

---

Printed-circuit board connector - FKC 2,5/16-ST-5,08 - 1873197



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Push-in spring connection, Color: green, contact surface: Tin

---

## Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

### Accessories

Printed-circuit board connector - UMSTBVK 2,5/16-ST-5,08 - 1833959



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin, mounting: DIN rail

Printed-circuit board connector - MSTBU 2,5/16-STD-5,08 - 1824269



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin, mounting: Direct mounting

Printed-circuit board connector - MSTBC 2,5/16-STZ-5,08 - 1809640



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Crimp connection, Color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] 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

Printed-circuit board connector - MSTBC 2,5/16-ST-5,08 - 1808955



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Crimp connection, Color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] 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

Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin



## Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

### Accessories

#### Printed-circuit board connector - MVSTBR 2,5/16-ST-5,08 - 1792388



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin

#### Base strip - IC 2,5/16-G-5,08 - 1786543



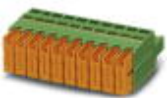
Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Printed-circuit board connector - FKCT 2,5/16-ST-5,08 - 1902259



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Push-in spring connection, Color: green, contact surface: Tin

#### Printed-circuit board connector - QC 1/16-ST-5,08 - 1883844



Plug component, nominal current: 10 A, rated voltage (III/2): 630 V, number of positions: 16, pitch: 5.08 mm, connection method: Displacement connection, Color: green, contact surface: Tin

#### Printed-circuit board connector - FKCVR 2,5/16-ST-5,08 - 1874099



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Push-in spring connection, Color: green, contact surface: Tin

## Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

### Accessories

#### Printed-circuit board connector - FKCVW 2,5/16-ST-5,08 - 1873799



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Push-in spring connection, Color: green, contact surface: Tin

#### Base strip - ICV 2,5/16-G-5,08 - 1786080



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Printed-circuit board connector - MSTBT 2,5/16-ST-5,08 - 1781124



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin

#### Printed-circuit board connector - FRONT-MSTB 2,5/16-ST-5,08 - 1777426



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Front screw connection, Color: green, contact surface: Tin

#### Printed-circuit board connector - MSTBP 2,5/16-ST-5,08 - 1769159



Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin

## Printed-circuit board connector - IC 2,5/16-ST-5,08 - 1786310

### Accessories

Printed-circuit board connector - SMSTB 2,5/16-ST-5,08 - 1826429

Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 16, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin



---

Feed-through terminal block - ZFKK 1,5-ICV-5,08 - 1873029



Feed-through terminal block, connection method: Special and hybrid connection, cross section: 0.2 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 24 - 16, width: 5.1 mm, color: gray, mounting: NS 35/15, NS 35/7,5

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Phoenix Contact](#) manufacturer:*

Other Similar products are found below :

[1212619](#) [3240366](#) [1893300](#) [1401029](#) [1773093](#) [2814045](#) [2989433](#) [2963886](#) [2966537](#) [2313944](#) [2834546](#) [2834407](#) [1687312](#) [3056145](#)  
[1775619](#) [1618261](#) [1674998](#) [2858894](#) [443023](#) [2905235](#) [2833547](#) [3240098](#) [2905234](#) [FFKDS/V-2.54](#) [0201391](#) [0201595](#) [7001438](#)  
[MICROFOX-R](#) [PLC-RSP- 24DC/21-21](#) [PR1-RSC3-LDP-24DC/21](#) [PR1-RSC3-LV-120AC/2X21](#) [PSI-MOS-DNET CAN/FO 660/BM](#) [PSM-](#)  
[SET-FSMA/4-KT](#) [PSR-SCF-120UC/URM/2X21](#) [PT 4-DIO 1N 5408/L-R](#) [PT 4-FSI/F-LED 12](#) [1202580](#) [1203534](#) [1205985](#) [1206308](#) [1201798](#)  
[1207420](#) [1207886](#) [1208461](#) [1208843](#) [1206188](#) [1212066](#) [1212096](#) [1212171](#) [1212250](#)