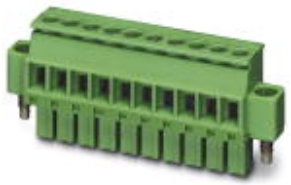
# Printed-circuit board connector - MCVW 1,5/12-STF-3,81 - 1828595

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://download.phoenixcontact.com)



The figure shows a 10-position version of the product

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

## Product Features

- Generously dimensioned wiring space
- Compact dimensions of the MCV 1,5 plug range
- Plug for vertical plug-in direction
- Individual position coding by removing the coding tab and connecting the coding profile to the header

## Key commercial data

| | |
|---|---|
| **package_quantity** | 50 |
| **GTIN** | 4017918114909 |

## Technical data

### Dimensions

| | |
|---|---|
| **Pitch** | 3.81 mm |
| **Dimension a** | 41.91 mm |

### General

| | |
|---|---|
| **Range of articles** | MCVW 1,5/..-STF |
| **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 |
| **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 mm² |
| **Maximum load current** | 8 A (with 1.5 mm² conductor cross section) |
| **Insulating material** | PA |
| **Inflammability class according to UL 94** | V0 |
| **Internal cylindrical gage** | A1 |

# Printed-circuit board connector - MCVW 1,5/12-STF-3,81 - 1828595

## Technical data

### General

| | |
|---|---|
| **Stripping length** | 7 mm |
| **Number of positions** | 12 |
| **Screw thread** | M2 |
| **Tightening torque, min** | 0.22 Nm |
| **Tightening torque max** | 0.25 Nm |

### Connection data

| | |
|---|---|
| **Conductor cross section solid min.** | 0.14 mm² |
| **Conductor cross section solid max.** | 1.5 mm² |
| **Conductor cross section stranded min.** | 0.14 mm² |
| **Conductor cross section stranded max.** | 1.5 mm² |
| **Conductor cross section stranded, with ferrule without plastic sleeve min.** | 0.25 mm² |
| **Conductor cross section stranded, with ferrule without plastic sleeve max.** | 1.5 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve min.** | 0.25 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve max.** | 0.5 mm² |
| **Conductor cross section AWG/kcmil min.** | 28 |
| **Conductor cross section AWG/kcmil max** | 16 |
| **2 conductors with same cross section, solid min.** | 0.08 mm² |
| **2 conductors with same cross section, solid max.** | 0.5 mm² |
| **2 conductors with same cross section, stranded min.** | 0.08 mm² |
| **2 conductors with same cross section, stranded max.** | 0.75 mm² |
| **2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.** | 0.25 mm² |
| **2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.** | 0.34 mm² |
| **2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.** | 0.5 mm² |
| **2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.** | 0.5 mm² |
| **Minimum AWG according to UL/CUL** | 30 |
| **Maximum AWG according to UL/CUL** | 14 |

## 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 |

# Printed-circuit board connector - MCVW 1,5/12-STF-3,81 - 1828595

## classifications

### eCl@ss

| | |
|---|---|
| **eCl@ss 8.0** | 27440402 |

### ETIM

| | |
|---|---|
| **ETIM 3.0** | EC001121 |
| **ETIM 4.0** | EC002638 |
| **ETIM 5.0** | EC002637 |

### UNSPSC

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

## approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / GOST / IECEE CB Scheme / GOST / CCA / cULus Recognized /

### Approval details

**CSA**

| **Usegroups** | **B** | **D** |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm²/AWG/kcmil | 28-16 | 28-16 |

**UL Recognized**

| **Usegroups** | **B** | **D** |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm²/AWG/kcmil | 30-14 | 30-14 |

**VDE Gutachten mit Fertigungsüberwachung**

| | |
|---|---|
| Nominal voltage UN | 160 V |
| Nominal current IN | 8 A |

# Printed-circuit board connector - MCVW 1,5/12-STF-3,81 - 1828595

## approvals

| | |
|---|---|
| mm²/AWG/kcmil | 0.2-1.5 |

**cUL Recognized**

| Usegroups | B | D |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm²/AWG/kcmil | 30-14 | 30-14 |

**GOST**

**IECEE CB Scheme**

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

**CCA**

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

**cULus Recognized**

## accessories

**Labeled terminal marker**

# Printed-circuit board connector - MCVW 1,5/12-STF-3,81 - 1828595

## accessories

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



**Screwdriver tools**

SZS 0,4X2,5 VDE - 1205037



## Drawings

Dimensioned drawing

© Phoenix Contact 2013 - all rights reserved
http://www.phoenixcontact.com