

# Printed-circuit board connector - DMCC 0,5/12-ST-2,54 - 1027614

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>)

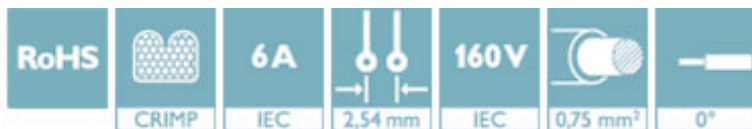
PCB connector, nominal current: 6 A, rated voltage (III/2): 160 V, Nominal cross section: 0.75 mm<sup>2</sup>, number of positions: 12, pitch: 2.54 mm, connection method: Crimp connection, color: black



The figure shows a 10-pos. version with 20 contacts

## Your advantages

- Cost-effective connection of crimped conductors in large quantities
- Gold-plated contacts ensure transfer quality remains stable over the long term
- Contacts arranged in a double row enable high packing density in a compact area
- Tools for manual and automatic crimping available as an option



## Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	
GTIN	4055626522753
Weight per Piece (excluding packing)	1.970 g
Custom tariff number	85366990
Country of origin	China

## Technical data

### Item properties

Brief article description	PCB connector
Plug-in system	MICRO COMBICON - DFMC 0,5
Type of contact	Female connector
Range of articles	DMCC 0,5/...-ST
Pitch	2.54 mm
Number of positions	12
Connection method	Crimp connection

# Printed-circuit board connector - DMCC 0,5/12-ST-2,54 - 1027614

## Technical data

### Item properties

Number of levels	2
Number of connections	24
Number of potentials	24

### Electrical parameters

Nom. voltage	160 V
--------------	-------

### Connection capacity

Connection method	Crimp connection
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Maximum external diameter of the insulation 1.9 mm)
Conductor cross section AWG / kcmil	26 ... 18 (Maximum external diameter of the insulation 1.9 mm)
Stripping length	4.1 mm ... 4.5 mm

### Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Selective coating
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Gold (0.25
Metal surface contact area (middle layer)	Nickel (2 - 4 µm Ni),

### Material data - housing

Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

### Dimensions for the product

Length [ l ]	16 mm
Width [ w ]	30.98 mm
Height [ h ]	6.49 mm
Pitch	2.54 mm
Dimension a	27.94 mm

### Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

### Ambient conditions

# Printed-circuit board connector - DMCC 0,5/12-ST-2,54 - 1027614

## Technical data

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-55 °C ... 100 °C (dependent on the derating curve)

### Termination and connection method

### Mechanical tests according to standard

Visual examination	Test passed IEC 60512-1-1:2002-02
Dimensional test	Test passed IEC 60512-1-2:2002-02
Resistance of marking	Test passed IEC 60068-2-70:1995-12
Result	Test passed
Specification	IEC 60512-13-2:2006-02
No. of cycles	100
Insertion strength per pos. approx.	2 N
Withdraw strength per pos. approx.	2 N
Polarization and coding	Test passed IEC 60512-13-5:2006-02
Result	Test passed
Specification	IEC 60512-15-1:2008-05
Test force per pos.	20 N

### Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Rated insulation voltage (III/3)	160 V
Rated insulation voltage (III/2)	160 V
Rated insulation voltage (II/2)	320 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Minimum clearance - inhomogeneous field (III/3)	1.5 mm
Minimum clearance - inhomogeneous field (III/2)	1.5 mm
Minimum clearance - inhomogeneous field (II/2)	1.5 mm
Minimum creepage distance value (III/3)	2 mm
Minimum creepage distance value (III/2)	1.5 mm
Minimum creepage distance value (II/2)	1.6 mm

### Mechanical tests (A)

Insertion strength per pos. approx.	2 N
Withdraw strength per pos. approx.	2 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

### Durability tests (B)

# Printed-circuit board connector - DMCC 0,5/12-ST-2,54 - 1027614

## Technical data

### Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Insertion/withdrawal cycles	100
Contact resistance R <sub>2</sub> 1st level	2.2 mΩ
Contact resistance R <sub>2</sub> 2nd level	2.4 mΩ
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV

### Climatic tests (D)

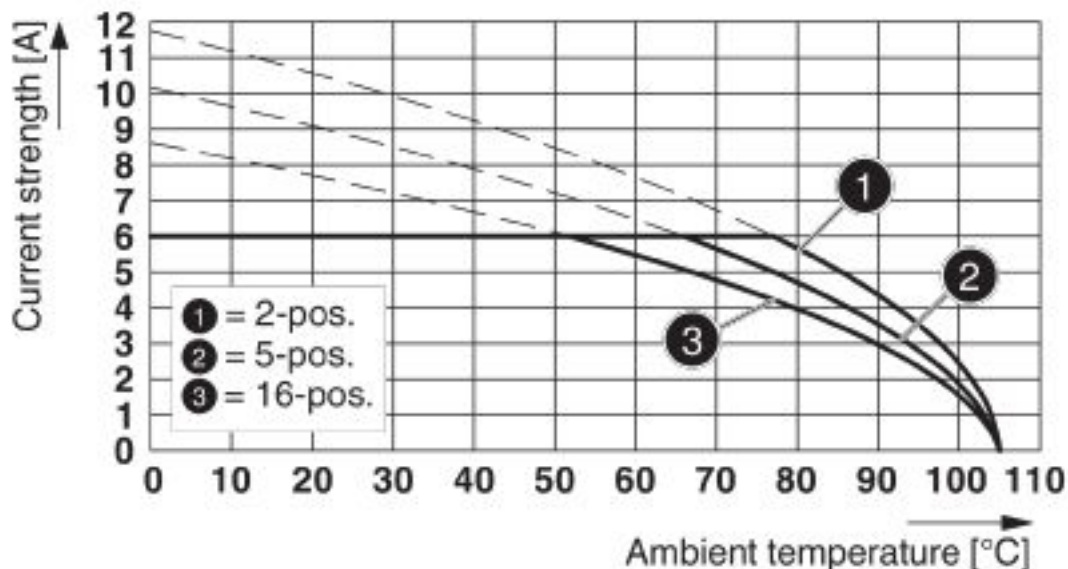
Specification	DIN 50018:2013-05
Cold stress	-55 °C/2 h
Thermal stress	105 °C/168 h
Corrosive stress	1.0 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV

### Environmental and durability tests (E)

Specification	IEC 61984:2008-10
Result, degree of protection, IP code	Back of hand safety with IP10 access probe

## Drawings

Diagram



Type: DMCC 0.5/...-ST-2.54 with DMC 0.5/...-G1-2.54 P...THR R...

# Printed-circuit board connector - DMCC 0,5/12-ST-2,54 - 1027614

## Classifications

### eCl@ss

eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 6.0	EC002638
ETIM 7.0	EC002638

## Approvals


### Approvals

#### Approvals

cULus Recognized

#### Ex Approvals

## Approval details

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>	E60425-19920306
	B	D	
Nominal voltage UN	150 V	150 V	
Nominal current IN	6 A	6 A	
mm <sup>2</sup> /AWG/kcmil	26-18	26-18	

## Accessories

### Accessories

Crimp contact

## Printed-circuit board connector - DMCC 0,5/12-ST-2,54 - 1027614

### Accessories

Accessories - MCC 0,5-MP AU 0,14-0,5 - 1013425



Crimp contact, type of contact: Female connector, connection method: Crimp connection, contact surface: Gold, Conductor cross section flexible: 0.14 ...0.5 mm<sup>2</sup>, type of packaging: packed in cardboard

Accessories - MCC 0,5-MP AU 0,14-0,5 R - 1013420



Crimp contact, type of contact: Female connector, connection method: Crimp connection, contact surface: Gold, Conductor cross section flexible: 0.14 ...0.5 mm<sup>2</sup>, type of packaging: Taped on roll

Accessories - MCC 0,5-MP AU 0,34-0,75 - 1013419



Crimp contact, type of contact: Female connector, connection method: Crimp connection, contact surface: Gold, Conductor cross section flexible: 0.34 ...0.75 mm<sup>2</sup>, type of packaging: packed in cardboard

Accessories - MCC 0,5-MP AU 0,34-0,75 R - 1013418



Crimp contact, type of contact: Female connector, connection method: Crimp connection, contact surface: Gold, Conductor cross section flexible: 0.34 ...0.75 mm<sup>2</sup>, type of packaging: Taped on roll

### Crimping tool

Crimping pliers - CRIMPFOX-P CC 0.75 L - 1064998



Crimping pliers, for COMBICON crimp connectors with cross section: 0.14 ... 0.75 mm<sup>2</sup>. Unlockable pressure lock, precise parallel crimping, front entry, B crimp, incl. 2 positioning aids

### Additional products

## Printed-circuit board connector - DMCC 0,5/12-ST-2,54 - 1027614

### Accessories

Printed-circuit board connector - DMC 0,5/12-G1-2,54 P20THR R72 - 1844824



PCB headers, nominal current: 6 A, rated voltage (III/2): 160 V, Nominal cross section: 0.5 mm<sup>2</sup>, number of positions: 12, pitch: 2.54 mm, color: black, contact surface: Gold, mounting: THR soldering, solder pin [P]: 2 mm, Sample values available under SAMPLE DMC...

Printed-circuit board connector - DMC 0,5/12-G1-2,54 SMD R72 - 1845124



PCB headers, nominal current: 6 A, rated voltage (III/2): 160 V, Nominal cross section: 0.5 mm<sup>2</sup>, number of positions: 12, pitch: 2.54 mm, color: black, contact surface: Gold, mounting: SMD soldering, Pin layout: Linear pad geometry, solder pin [P]: 2 mm, Sample values available under SAMPLE DMC...

Printed-circuit board connector - DMCV 0,5/12-G1-2,54 P20THR R72 - 1844976



PCB headers, nominal current: 6 A, rated voltage (III/2): 160 V, Nominal cross section: 0.5 mm<sup>2</sup>, number of positions: 12, pitch: 2.54 mm, color: black, contact surface: Gold, mounting: THR soldering, solder pin [P]: 2 mm, Sample values available under SAMPLE DMC...

Printed-circuit board connector - DMCV 0,5/12-G1-2,54 SMD R72 - 1845276



PCB headers, nominal current: 6 A, rated voltage (III/2): 160 V, Nominal cross section: 0.5 mm<sup>2</sup>, number of positions: 12, pitch: 2.54 mm, color: black, contact surface: Gold, mounting: SMD soldering, Pin layout: Linear pad geometry, Sample values available under SAMPLE DMC...

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Pluggable Terminal Blocks](#) category:*

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

Other Similar products are found below :

[57.510.0053](#) [MC 1.5/ 6-ST-3.5 GY AU](#) [ET02015000J0G](#) [860505](#) [860516](#) [860810](#) [GBPACX-12](#) [93.731.4953.0](#) [PV05-5,08-K](#) [PVP03-3,50](#)  
[PVS02-5,00](#) [1-1986160-3](#) [1377680000](#) [1531000000](#) [1546228-5](#) [ELFP03110](#) [ELFP10210](#) [ELFT07250](#) [ELVD12100](#) [ELVF09400](#)  
[ELVP03100](#) [ELXH071G0E](#) [1700410](#) [1746952](#) [1760336](#) [1809474](#) [1855000000](#) [19346](#) [1946309](#) [1950227](#) [1973592](#) [19892](#) [25.320.4053.1](#)  
[25.320.4553.9](#) [25.320.4753.1](#) [25.320.5453.1](#) [25.340.0353.1](#) [25.340.1053.1](#) [25.345.3553.0M001](#) [25.640.3553.1](#) [SH02-5,08](#) [SH06-3,81](#) [SH08-](#)  
[5,08](#) [SH08-5,08-K](#) [SH12-5,08](#) [SHS04-5,00](#) [30.303](#) [30.305](#) [30.306](#) [1719561](#)