

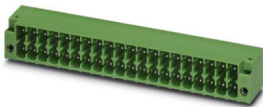
# Printed-circuit board connector - DMC 1,5/12-G1F-3,5-LR P35



1053875

<https://www.phoenixcontact.com/in/products/1053875>

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PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 24, number of rows: 2, number of positions: 12, number of connections: 24, product range: DMC 1,5/...-G1F, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON - DFMC 1,5, Pin connector pattern alignment: Standard, Locking: Snap-in locking, mounting: Lock & release threaded flange, type of packaging: packed in cardboard

## Your advantages

- Automatic locking and intuitive release through Lock and Release operating lever in contrasting color
- Conductor connection on several levels enables higher contact density
- Small component size for applications where space is at a premium
- Well-known mounting principle allows worldwide use

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## Commercial Data

Order Key	1053875
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	AAA
Product Key	AABSJB
GTIN	4055626687865
Weight per Piece (including packing)	6.966 g
Weight per Piece (excluding packing)	5.3 g
Customs tariff number	85366930
Country of origin	CN

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## Technical Data

### Product properties

Number of positions	12
Number of connections	24
Number of rows	2
Connector system	MINI COMBICON - DFMC 1,5
Number of potentials	24
Pin layout	Linear pinning

### Electrical properties

Maximum load current	8 A
Rated voltage (II/2)	250 V
Rated voltage (III/2)	160 V
Rated surge voltage (II/2)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (III/3)	2.5 kV
Nominal voltage $U_N$	160 V
Nominal current $I_N$	8 A
Nominal current $I_N$	8 A

### Material specifications

#### 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	Tin-plated
Metal surface contact area (top layer)	Tin (4 - 8 $\mu\text{m}$ Sn)
Metal surface contact area (middle layer)	Nickel (1.5 - 4 $\mu\text{m}$ Ni)
Metal surface soldering area (top layer)	Tin (4 - 8 $\mu\text{m}$ Sn)
Metal surface soldering area (middle layer)	Nickel (1.5 - 4 $\mu\text{m}$ Ni)

#### Material data - housing

Housing color	green (6021)
Insulating material	PBT
Insulating material group	IIIa
CTI according to IEC 60112	225
Flammability rating according to UL 94	V0

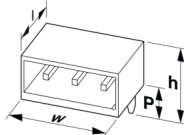
### Dimensions

# Printed-circuit board connector - DMC 1,5/12-G1F-3,5-LR P35



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Dimensional drawing	
Width	49 mm
Height	14.3 mm
Installed height	10.8 mm
Length of the solder pin	3.5 mm
Length	11.6 mm
Length of the solder pin	3.5 mm
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.2 mm
Pitch	3.5 mm

## PCB design

Pin spacing	2.50 mm
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## Mechanical tests

### Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

### Repeated connection and disconnection

Specification	IEC 60999-1:1999-11
Result	Test passed

### Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm <sup>2</sup> / solid / > 10 N
	0.2 mm <sup>2</sup> / flexible / > 10 N
	1.5 mm <sup>2</sup> / solid / > 40 N
	1.5 mm <sup>2</sup> / flexible / > 40 N

### Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	3 N
Withdraw strength per pos. approx.	2 N

### Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Result	Test passed
Test force per pos.	20 N

### Resistance of inscriptions

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Specification	IEC 60068-2-70:1995-12
Result	Test passed

## Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

## Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

## Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed

## Electrical tests

### Electrical properties

Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Contact resistance	3 mΩ
Pollution degree	2

### Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	20

### Temperature cycles

Specification	IEC 60999-1:1999-11
Result	Test passed

### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	IIIa
Comparative tracking index (IEC 60112:2003-01)	CTI 225
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.6 mm
Rated insulation voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2.5 mm

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## Environmental and real-life conditions

### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Sweep speed	5g (60.1 - 150 Hz)
Test duration per axis	2.5 h

### Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance $R_1$	3 m $\Omega$
Contact resistance $R_2$	3.5 m $\Omega$
Insertion/withdrawal cycles	25

### Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	1.39 kV

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

## Packaging specifications

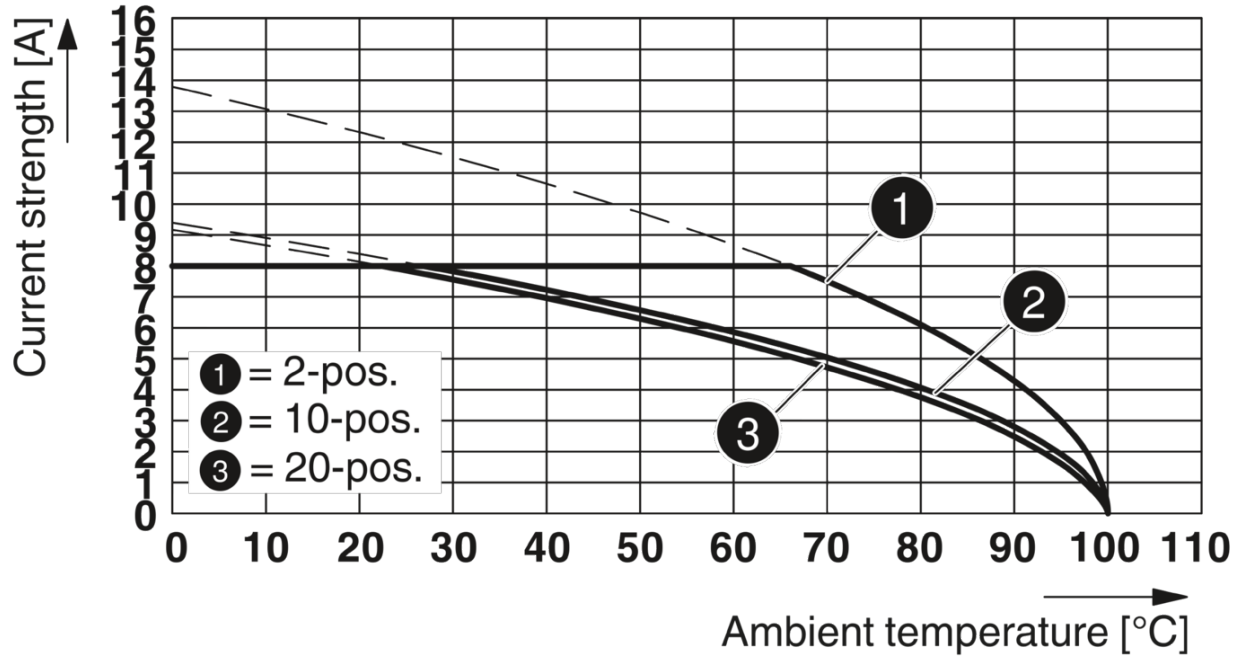
Type of packaging	packed in cardboard
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Drawings

Diagram

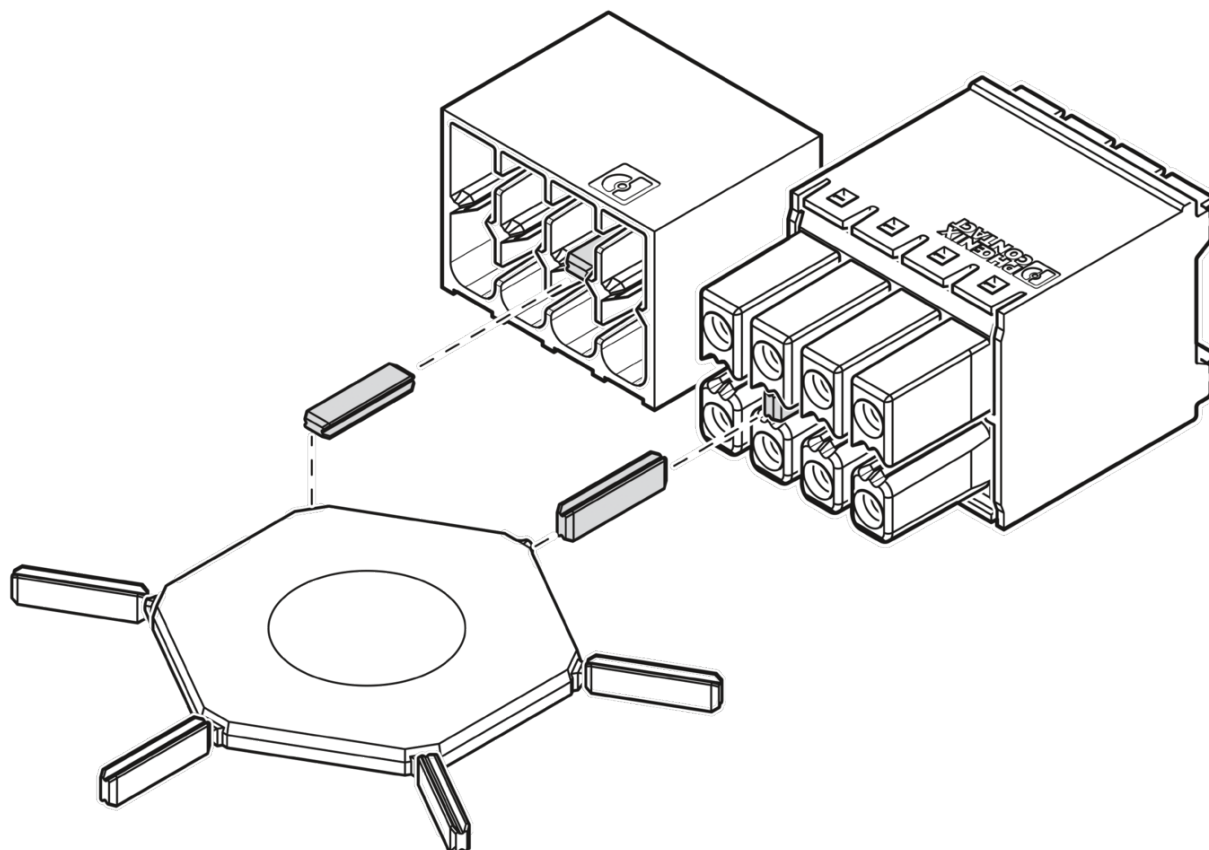


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Schematic diagram



Use of the CP-DMC... coding profile



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## Approvals

EAC

cULus Recognized	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
Use group B	150 V	8 A	-	-
Use group D	300 V	8 A	-	-

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## Classifications

### ECLASS

ECLASS-9.0	27440402
ECLASS-10.0.1	27440402
ECLASS-11.0	27460201

### ETIM

ETIM 6.0	EC002637
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### UNSPSC

UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

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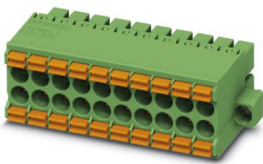
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## Accessories

### Printed-circuit board connector

Printed-circuit board connector - DFMC 1,5/12-STF-3,5 - 1790399

Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12 with 24 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin

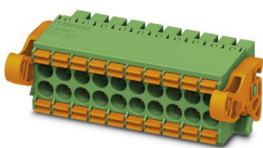


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### Printed-circuit board connector

Printed-circuit board connector - DFMC 1,5/12-ST-3,5-LR - 1790580

Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 12 with 24 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin



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## Coding profile

Coding profile - CP-DMC 1,5 NAT - 1790647

Coding profile, for insertion between the coding ribs of the connector and the header following the reflow soldering process, insulating material, color: natural



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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)

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