Printed-circuit board connector - DMCC 0,5/ 2-ST-SH 7,0-2,54 - 1128660

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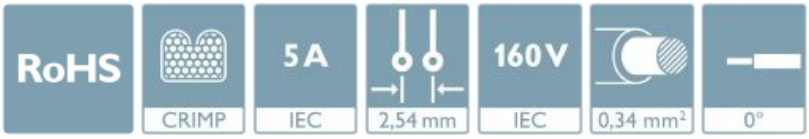
PCB connector, nominal current: 5 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm², number of positions: 2, pitch: 2.54 mm, connection method: Crimp connection, color: black

Your advantages

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



Key Commercial Data

Packing unit	1
GTIN	4 063151 057138
GTIN	4063151057138
Custom tariff number	85366990

Technical data

Item properties

Plug-in system	MICRO COMBICON - DFMC 0,5 shielded
Type of contact	Female connector
Electrical characteristic	shielded
Range of articles	DMCC 0,5/..-ST-SH
Number of positions	2
Connection method	Crimp connection
Number of levels	2

Electrical parameters

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Technical data

Electrical parameters

Nominal current	5 A
Nom. voltage	160 V
Rated voltage	50 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	250 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

Connection capacity

Connection method	Crimp connection
Conductor cross section AWG / kcmil	22
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 (3 - 6 µm Sn)
Metal surface contact area (top layer)	Gold (0.25 Au)
Metal surface contact area (middle layer)	Nickel (2 - 4 µm Ni),

Material data - housing

Housing color	black (9005)
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

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [l]	26.5 mm
Width [w]	7.1 mm
Height [h]	7.4 mm
Pitch	2.54 mm

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Technical data

Packaging information

Type of packaging	packed in cardboard
Pieces per package	100
Denomination packing units	Pcs.

General product information

Type of note	Notes on operation
Note	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Ambient conditions

Ambient temperature (storage/transport)	-30 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 80 °C
Ambient temperature (installation)	-40 °C ... 80 °C (dependent on the derating curve)
Ambient temperature (mobile installation)	-30 °C 80 °C dependent on the derating curve

Termination and connection method

Mechanical tests according to standard

Test specification	IEC 61984
Visual inspection	IEC 60512-1-1:2002-02
Dimension check	IEC 60512-1-2:2002-02
Resistance of inscriptions	IEC 60068-2-70:1995-12
Insertion and withdrawal force	IEC 60512-13-2:2006-02
No. of cycles	100
Insertion strength per pos. approx.	3 N
Withdraw strength per pos. approx.	3 N
Polarization and coding	IEC 60512-13-5:2006-02
Contact holder in insert	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
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)	1.5 mm
Minimum creepage distance value (III/2)	1.5 mm
Minimum creepage distance value (II/2)	1.25 mm

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Technical data

Current carrying capacity / derating curves

Caption	Type: DMCC 0,5/...-ST-SH-2,54 with DMC 0,5/...-G1-SH-2,54P...THRR...
Specification	IEC 61984:2008-10
Reduction factor	0.8
Note	Representation based on IEC 60512-5-2:2002-02
	For conductor cross section, see diagram

Mechanical tests (A)

Test specification	IEC 61984
Insertion strength per pos. approx.	3 N
Withdraw strength per pos. approx.	3 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R_1	4.8 mΩ
Insertion/withdrawal cycles	100
Contact resistance R_2	4.9 mΩ
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV

Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	2
Test current	5 A
Upper limiting temperature requirements <100 °C	Test passed

Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	80 °C/168 h
Corrosive stress	0.2 dm^3 SO_2 on 300 dm^3/40 °C/1 cycle
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV

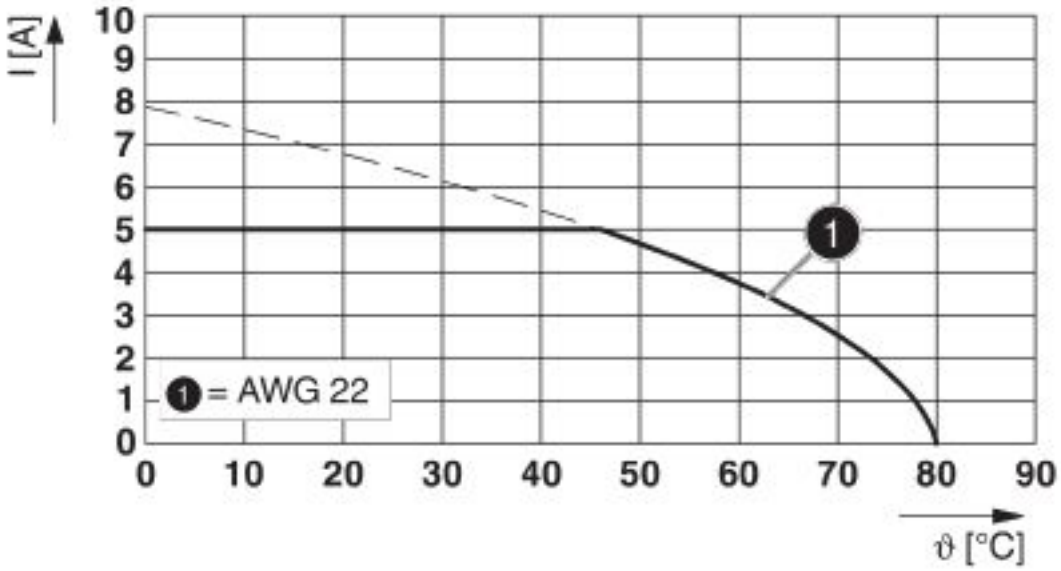
Environmental and durability tests (E)

Specification	IEC 61984:2008-10
Result, degree of protection, IP code	Finger safety with IP20 test finger

Drawings

Printed-circuit board connector - DMCC 0,5/ 2-ST-SH 7,0-2,54 - 1128660

Diagram



Type: DMCC 0,5/...-ST-SH-2,54 with DMC 0,5/...-G1-SH-2,54P...THRR...

Classifications

eCl@ss

eCl@ss 10.0.1	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

ETIM

ETIM 5.0	EC002638

Approvals

Approvals

Approvals

cULus Recognized

Ex Approvals

Approval details

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Approvals

cULus Recognized	c US	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-19920306

	B	D
Nominal voltage UN	150 V	150 V
Nominal current IN	6 A	6 A
mm²/AWG/kcmil	26-18	26-18

Accessories

Accessories

Crimp contact

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 mm²

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 mm²

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 mm²

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Accessories

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 mm²

Crimping tool

Crimping pliers - CRIMPFOX-P CC 0.75 L - 1064998

Crimping pliers, for COMBICON crimp connectors with cross section: 0.14 ... 0.75 mm². Unlockable pressure lock, precise parallel crimping, front entry, B crimp, incl. 2 positioning aids

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Additional products

Feed-through header - DMC 0,5/ 2-G1SH-2,54P20THR24 - 1097546

PCB headers, nominal current: 5 A, rated voltage (III/2): 160 V, number of positions: 2, pitch: 2.54 mm, color: black, contact surface: Gold, solder pin [P]: 2 mm

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Accessories - DMCC 0,5/ 2-SHIELD 7,0-2,54 - 1097555

Accessories, number of positions: 2, pitch: 2.54 mm

Accessories - DMCC 0,5/ 2-ST-WOSH1-2,54 - 1097476

PCB connector, number of positions: 2, pitch: 2.54 mm, color: black

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Accessories