

Printed-circuit board connector - DMCC 0,5/ 2-ST-SHL 7,0-2,54 - 1150807

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PCB connector, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm², number of positions: 2, pitch: 2.54 mm, color: black

The figure shows a 2-pos. version with 4 contacts

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 148409
GTIN	4063151148409
Custom tariff number	85366990

Technical data

Item properties

Plug-in system	MICRO COMBICON - DFMC 0,5 lock & shielded
Electrical characteristic	shielded
Range of articles	DMCC 0,5/...-ST-SHL
Number of positions	2
Number of levels	2

Electrical parameters

Nominal current	6 A
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Technical data

Electrical parameters

Nom. voltage	160 V
Rated voltage	160 V
Rated voltage (III/2)	160 V
Rated 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

Connection capacity

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]	33 mm
Width [w]	7.14 mm
Height [h]	7.85 mm
Pitch	2.54 mm

Packaging information

Type of packaging	packed in cardboard
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Packaging information

Pieces per package	100
Denomination packing units	Pcs.

Ambient conditions

Ambient temperature (storage/transport)	-20 °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)	-20 °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.	2 N
Withdraw strength per pos. approx.	1 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)	2 mm
Minimum creepage distance value (III/2)	1.5 mm
Minimum creepage distance value (II/2)	1.6 mm

Current carrying capacity / derating curves

Caption	Type: DMCC 0,5/...-ST-SHL 7,0-2,54 with DMC 0,5/...-G1SHL-2,54P20THRR...
Specification	IEC 61984:2008-10
Reduction factor	0.8
Note	Representation based on IEC 60512-5-2:2002-02

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Technical data

Current carrying capacity / derating curves

	For number of positions, see diagram
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Mechanical tests (A)

Test specification	IEC 61984
Insertion strength per pos. approx.	2 N
Withdraw strength per pos. approx.	1 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	5.2 mΩ
Insertion/withdrawal cycles	100
Contact resistance R ₂	4.6 mΩ
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV
Insulation resistance, neighboring positions	> 1.4 TΩ

Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	2
Conductor cross section	0.34 mm ²
Test current	6 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

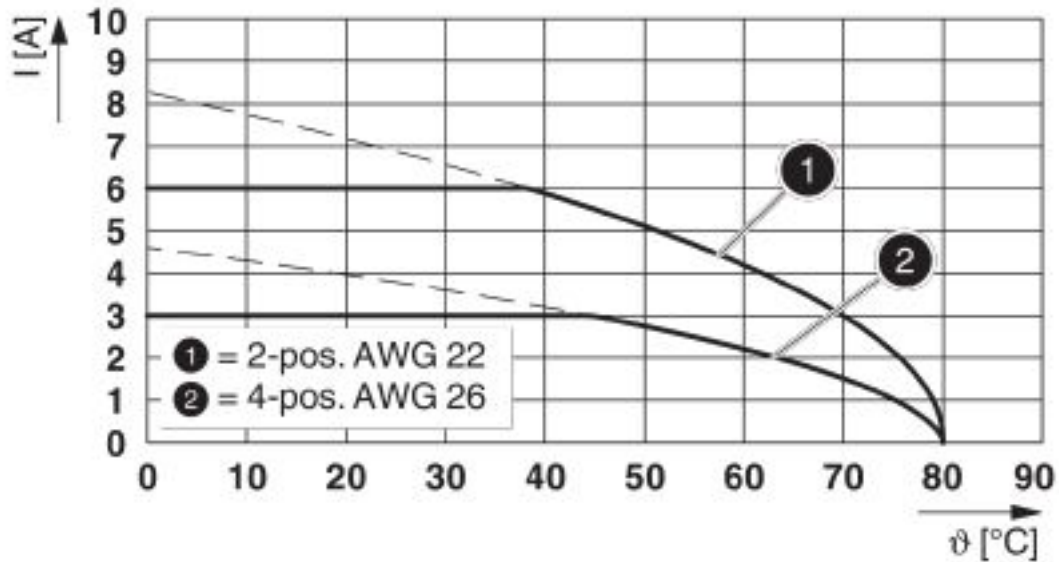
Environmental and durability tests (E)

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

Drawings

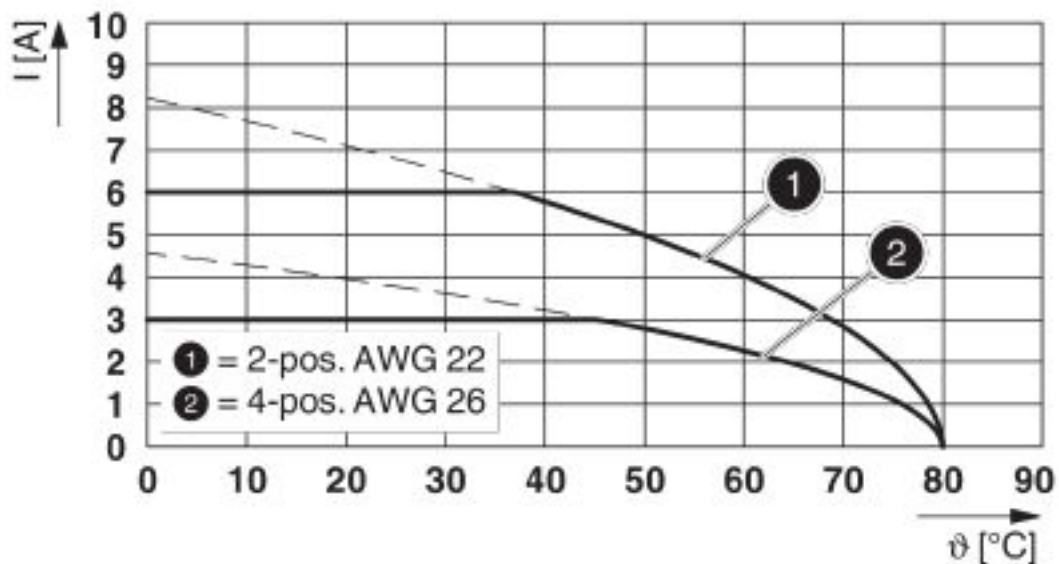
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Diagram



Type: DMCC 0,5/...-ST-SHL 7,0-2,54 with DMC 0,5/...-G1SHL-2,54P20THRR...

Diagram



Type: DMCC 0,5/...-ST-SHL 7,0-2,54 with DMCV 0,5/...-G1SHL-2,54P20THR...

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Classifications

eCl@ss

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

ETIM

ETIM 5.0	EC002638
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Approvals

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IECEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / cULus Recognized

Ex Approvals

Approval details

IECEE CB Scheme		http://www.iecee.org/	DE1-59151-M1
Nominal voltage UN	160 V		
Nominal current IN	6 A		
mm²/AWG/kcmil	0.14-.75		

VDE Gutachten mit Fertigungsüberwachung		http://www2.vde.com/de/Institut/Online-Service/ VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40042389
Nominal voltage UN	160 V		
Nominal current IN	6 A		
mm²/AWG/kcmil	0.14-.75		

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Approvals

cULus Recognized		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

Additional products

Feed-through header - DMC 0,5/ 2-G1SHL-2,54P20THRR24 - 1150791



PCB headers, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm², number of positions: 2, pitch: 2.54 mm, color: black, contact surface: Gold, solder pin [P]: 2 mm

Feed-through header - DMCV 0,5/ 2-G1SHL-2,54P20THR24 - 1150824



PCB headers, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm², number of positions: 2, pitch: 2.54 mm, color: black, contact surface: Gold, solder pin [P]: 2 mm

Accessories - DMCC 0,5/ 2-ST-WOSH-2,54 - 1150816



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

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Accessories

Accessories - DMCC 0,5/ 2-SHIELD L 7,0-2,54 - 1150660



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