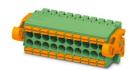


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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 26, number of rows: 2, number of positions: 13, number of connections: 26, product range: DFMC 1,5/..-ST-LR, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Insertion in base strip, conductor/PCB connection direction: 0 °, plug-in system: COMBICON DFMC 1,5, locking: Lock-and-release locking system, mounting method: Lock & Release ejector lever, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- · Optimized for tight installation situations: operation and conductor connection from one direction
- · Automatic locking and intuitive release through Lock and Release operating lever in contrasting color

Commercial data

Item number	1048915
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AABFJC
GTIN	4055626654751
Weight per piece (including packing)	14.7 g
Weight per piece (excluding packing)	14.484 g
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	DFMC 1,5/ST-LR
Product line	COMBICON Connectors S
Number of positions	13
Pitch	3.5 mm
Number of connections	26
Number of rows	2
Number of potentials	26

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Contact resistance	2 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Туре	Plug component	
Connector system	COMBICON DFMC 1,5	
Nominal cross section	1.5 mm²	
Contact connection type	Socket	

Interlock

Locking type	Lock-and-release locking system
Mounting type	Lock & Release ejector lever

Conductor connection

Conductor connection	
Connection method	Push-in spring connection
Conductor/PCB connection direction	0°
Conductor cross-section rigid	0.2 mm² 1.5 mm²
Conductor cross-section flexible	0.2 mm² 1.5 mm²
Conductor cross-section AWG	24 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.14 mm² 0.75 mm²



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Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm		
Stripping length	10 mm		
Specifications for ferrules without insulating collar			
recommended crimping tool	1212034 CRIMPFOX 6		
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 7 mm		
3	Cross section: 0.34 mm²; Length: 7 mm		
	Cross section: 0.5 mm²; Length: 8 mm 10 mm		
	Cross section: 0.75 mm²; Length: 8 mm 10 mm		
	Cross section: 1 mm²; Length: 8 mm 10 mm		
	Cross section: 1.5 mm²; Length: 10 mm		
Specifications for ferrules with insulating collar			
recommended crimping tool	1212034 CRIMPFOX 6		
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm²; Length: 8 mm		
<u>-</u>	Cross section: 0.25 mm²; Length: 8 mm 10 mm		
	Cross section: 0.34 mm²; Length: 8 mm 10 mm		
	Cross section: 0.5 mm²; Length: 8 mm 10 mm		
	Cross section: 0.75 mm²; Length: 10 mm		
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201		
1000			
Contact material	Cu alloy		
Surface characteristics	hot-dip tin-plated		
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)		
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)		
Material data - housing			
Color (Housing)	green (6021)		
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		
Material data – actuating element			
Color (Actuating element)	orange (2003)		
Insulating material	РВТ		
Insulating material group	I		
CTI according to IEC 60112	600		



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Flammability rating according to UL 94	V0
mensions	
Dimensional drawing	h
Pitch	3.5 mm
Width [w]	52.5 mm
Height [h]	13.25 mm
Length [I]	27.75 mm
punting	
Mounting type	Insertion in base strip
otes	
Notes on operation	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
	IEC 60999-1:1999-11 Test passed
Result	IEC 60999-1:1999-11
Conductor connection Specification Result Test for conductor damage and slackening	IEC 60999-1:1999-11
Conductor connection Specification Result	IEC 60999-1:1999-11 Test passed
Conductor connection Specification Result Test for conductor damage and slackening Specification	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11
Conductor connection Specification Result Test for conductor damage and slackening Specification Result	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 O.2 mm² / solid / > 10 N
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N
Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N
Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / flexible / > 40 N IEC 60512-13-2:2006-02



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Withdraw strength per pos. approx.	2 N	
Resistance of inscriptions		
Specification	IEC 60068-2-70:1995-12	
Result	Test passed	
Polarization and coding		
Specification	IEC 60512-13-5:2006-02	
Result	Test passed	
(iqual inapportion		
/isual inspection	IEC 60512 1 1:2002 02	
Specification Result	IEC 60512-1-1:2002-02 Test passed	
resuit	i est passeu	
Dimension check		
Specification	IEC 60512-1-2:2002-02	
Result	Test passed	
Specification	IEC 60068-2-6:2007-12	
Frequency	10 - 150 - 10 Hz	
Sweep speed	1 octave/min	
Amplitude	0.35 mm (10 Hz 60.1 Hz)	
Acceleration	50 m/s² (60.1 Hz 150 Hz)	
	٥٢١	
Test duration per axis	2.5 h	
	2.5 h X-, Y- and Z-axis	
Test duration per axis Test directions		
Test duration per axis Test directions Durability test Specification	X-, Y- and Z-axis IEC 60512-9-1:2010-03	
Test duration per axis Test directions Durability test	X-, Y- and Z-axis	
Test duration per axis Test directions Ourability test Specification Impulse withstand voltage at sea level Contact resistance R ₁	X-, Y- and Z-axis IEC 60512-9-1:2010-03	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm 3 SO $_2$ on 300 dm 3 /40 °C/1 cycle	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm 3 SO $_2$ on 300 dm 3 /40 °C/1 cycle 105 °C/168 h	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm 3 SO $_2$ on 300 dm 3 /40 °C/1 cycle 105 °C/168 h	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm 3 SO $_2$ on 300 dm 3 /40 °C/1 cycle 105 °C/168 h 1.39 kV	
Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage Ambient conditions Ambient temperature (operation)	X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle 105 °C/168 h 1.39 kV -40 °C 105 °C (dependent on the derating curve)	



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Electrical tests

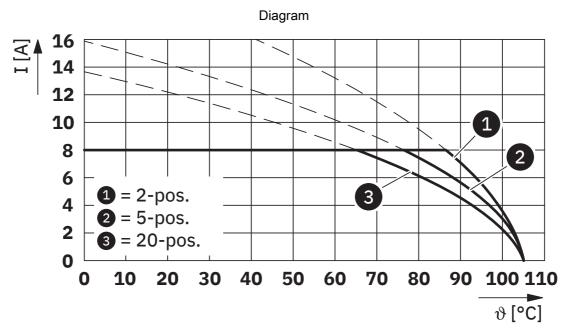
Specification	IEC 60512-5-1:2002-02
Tested number of positions	20
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
emperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
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 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)	1.5 mm
Rated insulation voltage (II/2)	320 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)	1.6 mm
ckaging specifications	
Type of packaging	packed in cardboard
1 Jpo of paokaging	paonou iii ourubouru



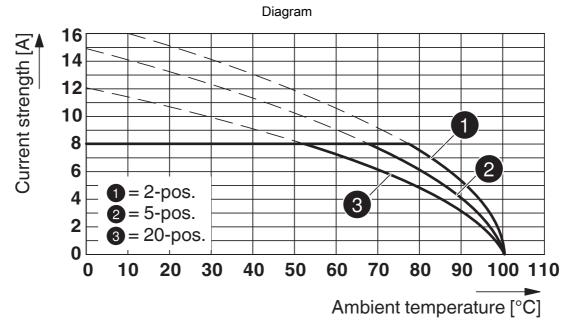
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Drawings



Type: DFMC 1,5/...-ST-3,5-LR with DMC 1,5/...-G1F-3,5-LR P...THR

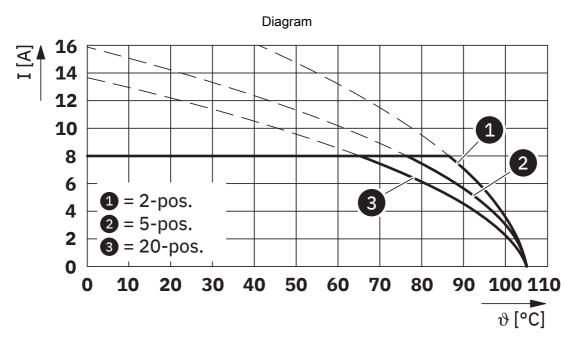


Type: DFMC 1,5/...-ST-3,5-LR with DMCV 1,5/...-G1F-3,5-LR P20THR

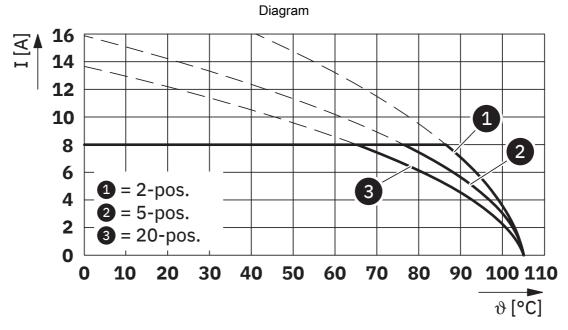


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Type: DFMC 1,5/...-ST-3,5-LR with DMC 1,5/...-G1-3,5-LR P...THR

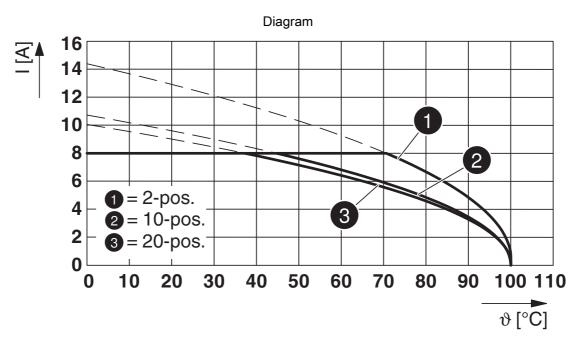


Type: DFMC 1,5/...-ST-3,5-LR with DMC 1,5/...-G1F-3,5-LR P35



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Type: DFMC 1,5/...-ST-3,5-LR with DMCV 1,5/...-G1F-3,5-LR P35



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1048915

CULus Recognized Approval ID: E60425-19920306						
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²		
В						
Field wiring	300 V	8 A	24 - 16	-		
С						
Factory wiring	50 V	8 A	24 - 16	-		
D						
Field wiring	300 V	8 A	24 - 16	-		

VDE	VDE report with production monitoring Approval ID: 40038423					
	Nominal voltage U _N Nominal current I _N Cross section AWG Cross section mm ²					
keine						
		160 V	8 A	-	0.2 - 1.5	



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Classifications

ECLASS

	ECLASS-13.0	27460202	
	ECLASS-15.0	27460202	
ETIM			
	ETIM 9.0	EC002638	
UNSPSC			

UNSPSC 21.0 39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
invironment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		
EF3.0 Climate Change			
CO2e kg	0.3 kg CO2e		

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