

1378113

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Feed-through connector, color: black, nominal current: 5 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Pin, number of rows: 2, number of positions: 6, product range: DD21H 0,85/..-PT, pitch: 2.5 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: CONNEXIS DD, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting method: Engagement nose, type of packaging: packed in cardboard

Your advantages

- · Cost-effective connection of crimped conductors in large quantities
- · Small component size for applications where space is at a premium
- · Intuitive locking mechanism prevents accidental disconnection
- · Tools for automatic crimping available as an option

Commercial data

Item number	1378113
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA01
Product key	AAACXG
GTIN	4063151745806
Weight per piece (including packing)	3.59 g
Weight per piece (excluding packing)	3.59 g
Customs tariff number	85366990
Country of origin	CN



1378113

https://www.phoenixcontact.com/us/products/1378113

Technical data

Product properties

Product type	Feed-through connector
Product family	DD21H 0,85/PT
Product line	CONNEXIS Connectors XS
Number of positions	6
Pitch	2.5 mm
Number of rows	2

Electrical properties

Properties

TP 5 5 5 5	
Nominal current I _N	5 A
Nominal voltage U _N	160 V
Contact resistance	2.6 mΩ
Rated voltage (III/3)	40 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)	200 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Interlock

Locking type	Snap-in locking
Mounting type	Engagement nose
Conductor connection	
Connection method	Crimp connection
Conductor cross-section AWG	28 18
Stripping length	3 mm

Material specifications

Material data - contact

Metal surface contact area (top layer)	Tin (Sn)
Material data - housing	
Color (Housing)	black (9005)
Insulating material	PBT
Insulating material group	II
CTI according to IEC 60112	400 ≤ CTI < 600
Flammability rating according to UL 94	V0



1378113

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Notes

Note on the contact	These connectors conform to DIN EN 61984, connectors without switching capacity (COC). When used for their intended purpose,
	they must not be plugged in or disconnected live or under load.

Dimensions

Dimensional drawing	h
Pitch	2.5 mm
Width [w]	19.7 mm
Height [h]	16.2 mm
Length [I]	30.69 mm

Mechanical tests

Tensile strength of crimp connections

Insertion strength per pos. approx.

Withdraw strength per pos. approx.

Result	Test passed
Conductor cross-section/conductor type/tractive force setpoint/actual value	AWG 28 / flexible / > 11 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25

2 N 2 N

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed

Resistance of inscriptions

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

Polarization and coding

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

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

Dimension check



1378113

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Specification	IEC 60512-1-2:2002-02
Result	Test passed
ectrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	20
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2020-05
Insulating material group	II
Comparative tracking index (IEC 60112)	CTI ≥400 to <600
Rated insulation voltage (III/3)	40 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)	1.6 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)	200 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm

Environmental and real-life conditions

minimum creepage distance (II/2)

Vibration test

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)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

1.5 mm

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	$2.6~\text{m}\Omega$
Contact resistance R ₂	$2.6~\text{m}\Omega$



1378113

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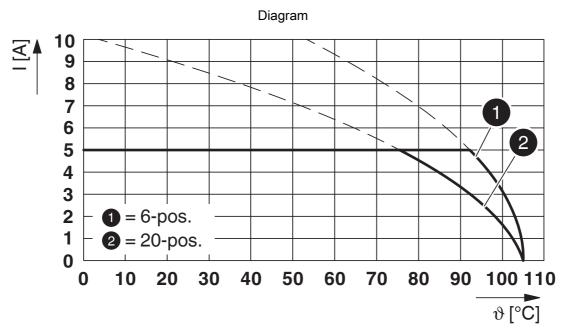
atic test	
Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 $\mathrm{dm^3/40~^\circ C/1}$ cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	1.39 kV
ocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Half-sine
Acceleration	30g
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
bient conditions	
Ambient temperature (operation)	-55 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %



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Drawings



Type: DD21PC 0,85/...-2,5-Y with DD21H 0,85/...-PT-2,5-Y



1378113

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1378113

7.1	UL Recognized Approval ID: E118976-20240611				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		125 V	5 A	18	-



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Classifications

ECLASS

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



1378113

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment 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%

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