

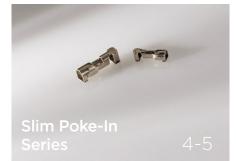


TE Connectivity (TE)'s low profile PCB connectors are ideal for LED lighting applications and accommodate multiple design requirements with up to 6 position connector configurations. The releasable poke-in wire connector features an integral conductor release mechanism recessed below the top side of the connector. This mechanism cannot be compromised or broken during multiple insertion and release cycles and requires no special tooling. The modular version of the releasable poke-in connector enables flexibility in design and color configurations enable easy identification.



INTELLIGENT BUILDINGS /// BUCHANAN WireMate CONNECTORS

WHAT'S INSIDE BUCHANAN WireMate Connectors



NON-RELEASABLE Current rating: 6-16A Voltage rating: 300 VAC



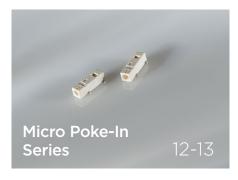
RELEASABLE Current rating: 6A with 18AWG 5A with 20 AWG & 22 AWG Voltage rating: 400 VAC



RELEASABLE Current rating: 6-10A Voltage rating: 300 VAC



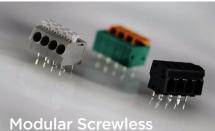
RELEASABLE Current rating: 5-9A Voltage rating: 600 VAC/DC



NON-RELEASABLE Current rating: 3A Max Voltage rating: 250 VAC/DC



RELEASABLE Current rating: 6A Max Voltage rating: 600 VAC Max



Modular ScrewlessSeries16-1

RELEASABLE Current rating: Up to 10A Max Voltage rating: 300 VAC Max



RELEASABLE Current - Voltage rating: 3.5mm: 2-12 position: 8A @ 300 VAC 5.0mm: 2-9 position: 15A @ 300 VAC 5.0mm: 10-12 position: 10A @ 300 VAC



Slim Poke-In Series

TE Connectivity (TE)'s BUCHANAN WireMate connector slim pokein series are developed for wire to PCB board connection. The slim connector with no housing serves as an easy poke-in connector with strong retention ability. The advantage of using this connector is that the conductor can be connected quickly without special tools and the small profile saves the space on the PCB.



Applications

- LED Lighting Systems
- Home Automation
- Security Systems
- Telecommunications

Electrical

Voltage rating: 300 VAC MaxDielectric strength: 2000 VAC

Specifications

- Application Specification:
- Product Specification:
- UL Approval:

<u>108-137049</u> UL1977

114-137049

Materials

Contact:

Copper Alloy with Tin plating

Mechanical

- Operating temperature range -40 to 125°C
- Wire retention: 30N Minimum
- Current rating: see table below

Benefits

- Quick solderless poke-in connector design
- Slim contacts that have no covering housing
- Several solutions for solid and stranded wire from 16 AWG to 24 AWG
- Safety standards with UL/CQC approval
- Available in Tape & Reel packaging

Current Ratings					
Part Number	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
<u>2834010-3</u>	-	-	11 A	8 A	6 A
<u>2834012-3</u>	16 A	13 A	11 A	-	-

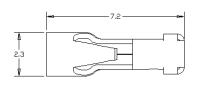
INTELLIGENT BUILDINGS /// BUCHANAN WireMate CONNECTOR SLIM POKE-IN SERIES

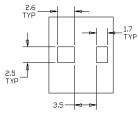


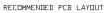
Part Number Description	
2834010-3	For wire 20, 22 and 24 AWG
<u>2834012-3</u>	For wire 16, 18 and 20 AWG

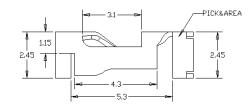
Dimensions

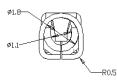
2834010-3



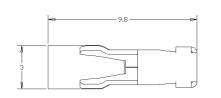


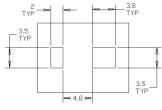


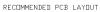


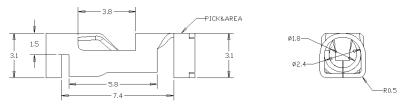


2834012-3









Dimensions are shown for reference purposes only. Specifications subject to change.



Slim Poke-In Series

TE Connectivity (TE)'s BUCHANAN WireMate connector slim poke-in series is designed for quick and easy Wire-to-Board and Board-to-Board connectivity in a low profile, slim form factor. The releasable contact function along with the design for multiple wire sizes allows for convenience in installation and rework. Additionally, the low profile and small footprint allows for high density and compact PCB designs.



Applications

- Telecommunication Systems
- Lighting Systems
- Security
- Room and Area Lighting

Electrical

Current Rating:	10A for wire 18 AWG 6A for wire 20 AWG & 22 AWG
	4A for board to board connection
 Voltage Rating: 	300 VAC Max

Mechanical

- Operating Temperature: Wire Gauge 2834167-3:
- -40°C to +105°C 18-22 AWG (solid/stranded) 20-24 AWG (solid/stranded)
- Tin dipped required for stranded

2834171-3:

Material

Contact:

Copper Alloy with Tin plating

Specifications

- Application Specification: <u>114-137166</u>
- Product Specification: <u>108-137166</u>

Product Compliance / Approvals

• UL Approval:

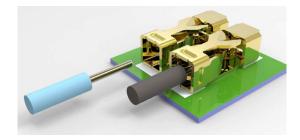
UL1977 / File: E28476

- Releasable function allows for quick rework
- Designed for compact PCB layouts
- Bare contact offers size and cost savings from housed poke-in
- Wide range of wire sizes accepted
- Board-to-board mating function



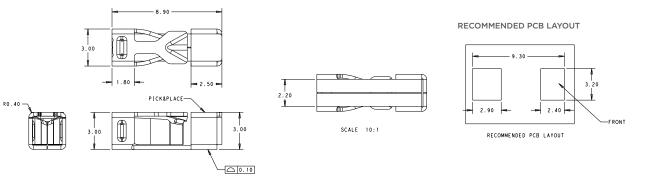


Part Number	Description
2834167-3	Releasable Slim Female Contact
<u>2834171-3</u>	Ultraminiature Slim Contact
2834172-3	Ultraminiature Slim Male Pin Contact

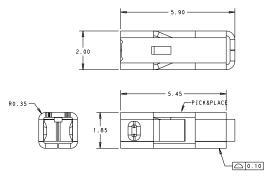


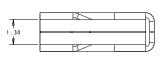
Dimensions

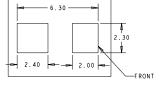
2834167-3



2834171-3

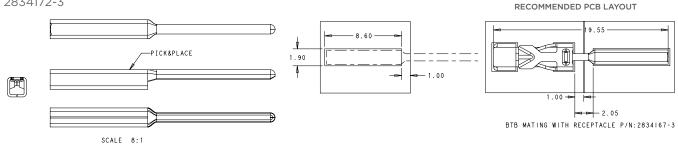






RECOMMENDED PCB LAYOUT

2834172-3





Poke-In Series

TE Connectivity (TE)'s introduces the BUCHANAN WireMate connector poke-in series is a 4.0mm pitch modular connector for Wire-to-Board connectivity. The poke-in feature allows for easy and fast installation and its modular design enables a flexible solution. In addition, this connector comes in various color configurations making identification and assembly easy and efficient.



Applications

- Access Controls
- LED Lighting
- Small Appliances
- Thermostats

Electrical

Current rating:	6A with 18 AWG 5A with 20 AWG & 22 AWG
 Voltage rating: 	400 VAC Max
 Dielectric strength: 	1800 VAC

Mechanical

• Operating Temperature: -40°C- + 105°

Specifications

 Application Specification: 	<u>114-137055</u>
 Product Specification: 	<u>108-137055</u>
• UL Approval:	UL1977

• IEC60838 comply with clause 15 of IEC 60598-1

Materials

• Contact:

Copper Alloy with Tin plating

Benefits

- Modular Technology enables flexibility in design
- Easy and fast installation with poke-in contact feature
- Color configurations enables easy identification
- Compact size design for space saving

Colors

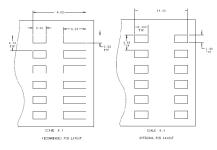
- Beige | Natural
- Black
- Blue
- Brown
- Gray
- Red
- White
- Yellow

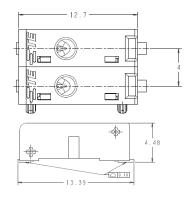


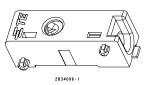
	Number of Positions	Description	Color	Part Number
6.	1	1 Pole Modular Releasable Poke-In Connector	Black	<u>2-2834006-1</u>
	1	1 Pole Modular Releasable Poke-In Connector	Red	<u>3-2834006-1</u>
	2	2 Pole Modular Releasable Poke-In Connector	White / Red	<u>5-2834006-2</u>
e le t	2	2 Pole Modular Releasable Poke-In Connector	Red / Black	7-2834006-2
	2	2 Pole Modular Releasable Poke-In Connector	Black / White	<u>8-2834006-2</u>
	3	3 Pole Modular Releasable Poke-In Connector	Black / White / Red	<u>5-2834006-3</u>
2.2	2	2 Pole Modular Releasable Poke-In Connector	Gray / Blue	<u>1-2834006-0</u>
	2	2 Pole Modular Releasable Poke-In Connector	Brown / Yellow	<u>2-2834006-0</u>
	1	1 Pole Modular Releasable Poke-In Connector	Natural	<u>2834006-1</u>
	2	2 Pole Modular Releasable Poke-In Connector	Natural	<u>2834006-2</u>
	3	3 Pole Modular Releasable Poke-In Connector	Natural	<u>2834006-3</u>
	3	2 Pole Modular Releasable Poke-In Connector	Natural	<u>1-2834006-2</u>

Contact a TE Sales representative if you need other poles with various color configuration.

Dimensions









Poke-In Series

TE Connectivity (TE)'s low profile, SMT releasable poke-in wire connector accommodates multiple design requirements with 1, 2 & 3 position connector configurations. The releasable poke-in wire connector features an integral conductor release mechanism, recessed below the top side of the connector and cannot be compromised or broken during multiple insertion and release cycles. Ideal for LED lighting applications, the surface mount releasable poke-in connectors accept 18 to 22 gauge solid and stranded conductors and are tape and reel packaged for high speed SMT processing.

Applications

- Linear or Circular LED Light Modules
- Metering and Control Terminal Block Connections
- Power to Contact Boards in Applications and Building Equipment

-40°C to 130°C

114-32113

E28476

108-32063

Electrical

Current rating:	18 AWG wire - 9A 20-22 AWG wire - 5A
 Voltage rating: 	600 VAC/DC

Mechanical

Operating temperature:

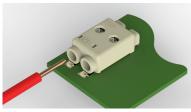
Specifications

- Application specification:
- Product specification:
- UL and cUL recognized:

Materials

- Housing:
- Contacts:

UL 94 VO high temperature resistant thermoplastic Tin over nickel plated copper alloy



Insert solid conductors horizontal to printed circuit board to complete termination



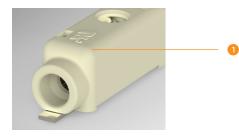
Insert stranded conductors horizontal to printed circuit boards and/or remove both solid and stranded conductors by first depressing the release mechanism with a ball point pen or the tip of any small device. Remove the conductors by pulling horizontal to the printed circuit board.

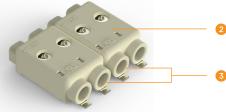


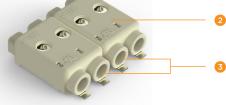
- Automated production with flat top surface for vacuum pick up and high temperature material for re-flow processing
- Low profile design and rounded corners prevent obstruction of LED lighting and minimizes shadowing
- Side by side stackable design on 4 mm spacing supports higher connection variations, minimizes part number inventory and lowers production costs
- Integral robust wire release mechanism to help prevent damage during wire assembly and rework
- Requires no specialized tools for wire insertion or removal
- Accommodates multiple design requirements with 1, 2 & 3 position connector configurations
- Support high voltage connections with a 2 position 8 mm centerline version
- Accepts 18 22 gauge solid, stranded or pre-bond conductors in AWG or metric sizes to support global applications
- Prevent obstruction of LED lights with a low profile design and rounded corners to minimize shadows



BUCHANAN WireMate CONNECTOR POKE-IN SERIES









- 1 Low profile design and rounded corners prevent obstruction of LED light and minimizes shadowing
- Plat top surface for vacuum pick up
- 3 Side by side stackable on 4mm centers

4 Recessed release mechanism eliminates multi-surface features on top of connector and cannot be pried upward during conductor insertion eliminating potential for breakage

5 Integral terminal release confines wire on all four sides inside terminal housing ensuring secure connection

Wire types and sizes accepted

- Solid wire:
- Stranded wire:
- 18 AWG & 0.5mm². 16 strands Max. 20, 22 AWG, 7 strands Max 0.75mm² 24 strands Max 0.34mm² 19 strands Max

18, 20, 22 AWG, 0.75 and 0.34mm²

- Prebond wire: 18 AWG, 16 strands Max
 - 20 AWG, 7 strands Max
- Max insulation OD: 2.5mm (.098") Max
- Strip Length: 9.0mm ± 1.0 (0.354" ± 0.039)

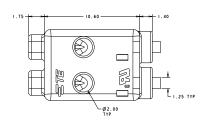
Product Selection Information

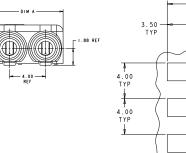
Number of Positions	Part Number	"A" Dimension	"B" Dimension
1 Position	<u>2213301-1</u>	3.90mm	12.00mm
2 Position	2213301-2	7.90mm	16.00mm
3 Position	<u>2213301-3</u>	11.90mm	20.00mm
2 Position High Voltage	<u>1-2213301-2</u>	11.90mm	20.00mm

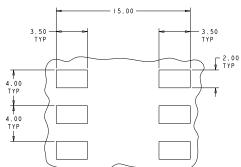


Dimensions



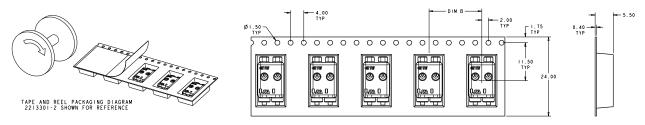






Recommended PCB Layout

Tape and Reel Packaging Diagram - 2213301-2 shown for reference





BUCHANAN WireMate CONNECTOR Micro Poke-In Series

TE Connectivity (TE)'s BUCHANAN WireMate micro poke-in wire SSL connector is a low profile, printed circuit board connector specifically designed for LED lighting applications. The connector is currently available in a one position version that accepts 24 and 26 AWG solid wire only. The connector is designed with rounded corners to minimize shadowing. The connector is RoHS compliant and is a cost effective alternative to hand soldering wires to printed circuit boards.



Applications

- LED Lighting
- Small Appliances
- Thermostats
- Digital Signage

Electrical

- 250 VAC, 3A Max
- 250 VDC, 3A Max
- 1500 Dielectric Withstanding Voltage

Mechanical

- Wire retention force: 6N Minimum
- Wire Insertion Force: 8N (24 AWG) 6N (26 AWG)
- Operating Temperature:

<u>114-5482</u>

108-78810

-25°C to 130°C

Specifications

- Application Specification:
- Product Specification:
- UL1977
- JPN DENANHO

Materials

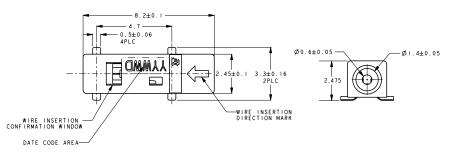
- Housing:
- Contact:
- High temperature resistant thermoplastic Copper Alloy, tin over Nickel plating

- Compact size design for space savings
- Low profile flat surface allows for vacuum pick up
- High temperature material for type reflow processes
- Tape & reel packaging for high speed assembly

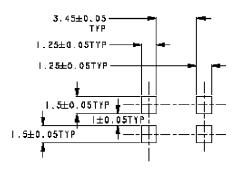


Part Number	Description
<u>2134611-1</u>	Micro Poke-In Series Connector

Dimensions



Referential Connector placement

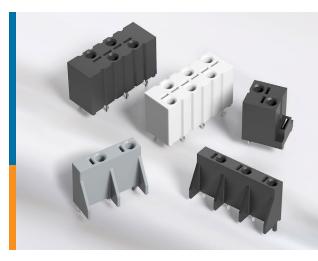


Referential P.C.B. layout



BUCHANAN WireMate CONNECTOR Vertical Poke-In Series

TE Connectivity (TE)'s BUCHANAN WireMate connectors vertical poke-in series are now offered in tray packaging for pick and place insertion for LED driver applications. The in-line connectors are available in 2 & 3 positions. The vertical poke-in connectors can also be offered in tray packaging. They are available in 2, 4 & 6 staggered positions. Compatible in potable and non-potable applications, with printed circuit board wave solder processes, the connectors allow for insertion of stripped solid conductor wire without special tooling. Designed for permanent connections within OEM assemblies, wire is securely held in place but can be removed with an extraction tool, if required.



Applications

- Lighting Ballast and LED Drivers
- Garage Door Openers
- HVAC Controls
- Security Systems
- Vending and Gaming Products

Electrical

 Current Rating: 	6A Max (UL)
 Voltage Rating: 	600 VAC Max
 Dielectric Strength: 	2200 VAC

Mechanical

Wire Retention:	5 lb. (22.25 N)
• Durability:	5 cycles
• Pitch:	.138 (3.5 mm) staggered centerline .322 (8.2 mm) in-line centerline

-30 °C to 105 °C operating temperature

Specifications

 Application Specifications: 	<u>114-13075</u> Vertical Poke-In <u>114-13223</u> In-Line Poke-In
 Product Specifications: 	<u>108-2059</u> Vertical Poke-In <u>108-2059-1</u> In-Line Poke-In

• UL 1977

Materials

• Housing:	UL 94 V-0 rated PBT
Contact:	Pre-tin over nickel plate copper alloy

- Eliminates the need to hand solder or fixture and wave-solder wires directly to printed circuit board
- In-line screwless version terminates industry standard 18 AWG solid wire
- Staggered versions terminate industry standard 18-16 AWG solid wire and 18 AWG bonded wire
- Thru-hole solder mount with retention features integral to solder legs for PCB retention
- 2 & 4 position staggered and in-line versions have secondary board locks for additional retention
- Now available in tray packaging (2 & 3 position In-Line Screwless connectors only)

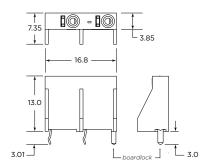




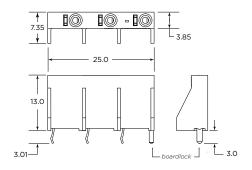
Part Number	Description
<u>1-2213629-2</u>	2 Position Vertical Poke-In Connector In Pocket Trays
<u>2213629-3</u>	3 Position Vertical Poke-In Connector In Pocket Trays
<u>1-2008552-2</u>	2 Position In-Line Poke-In Wire Connector
<u>2008552-3</u>	3 Position In-Line Poke-In Wire Connector
<u>1811957-1</u>	2 Position Vertical Poke-In Wire Connector with Boardlock
<u>1811444-1</u>	4 Position Vertical Poke-In Wire Connector
<u>1811398-1</u>	6 Position Vertical Poke-In Wire Connector

Dimensions

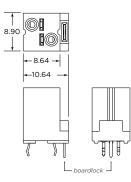
2 position in-line screwless wire connector



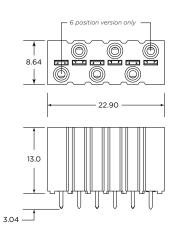
3 position in-line screwless wire connector



2 position screwless wire connector



4 & 6 position screwless wire connector





Modular Screwless Series

TE Connectivity (TE)'s BUCHANAN WireMate connectors modular screwless series are flexible and efficient and the wires are easy to replace with no need for special tooling. Its multifarious product pitch enables design flexibility and the different color configurations helps ease identification. High density and compact design enable this series to be used in the field of telecommunication system, lighting system, security, and wire arrangement of architectures.



Applications

- LED Driver
- Lighting System
- Power Supply

Electrical

 Current Rating: 	Up to 10A Max
 Voltage Rating: 	300 VAC Max
 Dielectric Strength: 	2000 VAC

Mechanical

Operating Temperature: -40°C-+105°C
 Reusable Cycles: 5 cycles

Specifications

 Application Specification: 	<u>114-137080</u>			
 Product Specification: 	<u>108-137080</u>			
• UL Approval:	UL1059			

Materials

Housing:	PA, UL 94 V-0
Contact:	Copper Alloy with Tin plating

- Achieve quick assembly without the need for special tooling
- Help save space with a high density compact design
- Obtain design flexibility with multifarious Product Pitch
- Help ease identification with different colors configuration



	Pitch	Position Size	Style	Housing Design	Color	Part Number
1222	5.00 mm	2	Double Side Entry	Modular		<u>1-2834014-2</u>
	5.00 mm	4	Double Side Entry	Modular		<u>1-2834014-4</u>
	5.00 mm	6	Double Side Entry	Modular		<u>1-2834014-6</u>
	2.54 mm	3	Top Side Entry	Modular		<u>1-2834015-3</u>
THUR	2.54 mm	2	Side Entry	Modular		<u>1-2834016-2</u>
CAR .	5.00 mm	2	Top Lever	Modular		<u>1-2834018-2</u>
0000	5.00 mm	3	Top Lever	Modular		<u>1-2834018-3</u>
	3.50 mm	2	Top Entry	Modular		<u>1-2834019-2</u>
0000	3.50 mm	3	Top Entry	Modular		1-2834019-3
	2.50 mm	2	Top Side Entry	Modular		1-2834021-2
1000	2.50 mm	3	Top Side Entry	Modular		1-2834021-3
	2.50 mm	4	Top Side Entry	Modular		1-2834021-4
	3.50 mm	2	Top Side Entry	Modular		1-2834011-2
7550	3.50 mm	3	Top Side Entry	Modular		1-2834011-3
	3.50 mm	4	Top Side Entry	Modular		<u>1-2834011-4</u>
	3.50 mm	5	Top Side Entry	Modular		<u>1-2834011-5</u>
	5.08 mm	3	Top Side Entry	Modular	Gray	<u>2834114-2</u>
and a second	3.81 mm	2	Side Entry	Modular	Gray	<u>2834088-1</u>
17111	3.81 mm	3	Side Entry	Modular	Gray	<u>2834088-2</u>
1	5.00 mm	3	Side Entry	Modular	Gray	<u>2834089-2</u>
17771	5.00 mm	4	Side Entry	Modular	Gray	<u>2834089-3</u>
	5.08 mm	2	Side Entry	Modular	Gray	<u>2834090-1</u>
* 5 5 5	5.00 mm	2	Side Entry	Modular	Gray	<u>2834095-1</u>
	5.00 mm	2	Side Entry	Modular	Gray	2834097-1
	2.50 mm	2	Top Side Entry	Modular	Gray	<u></u> <u>2834084-1</u>
/ REAL	2.54 mm	2	Top Side Entry	Modular	Gray	<u>2834085-1</u>
NILL STATE	2.54 mm	3	Top Side Entry	Modular	Gray	<u>2834085-2</u>
	5.00 mm	2	Top Side Entry	Modular	Gray	<u>2834078-1</u>
	5.00 mm	3	Top Side Entry	Modular	Gray	<u>2834078-2</u>
A L-1-1 -1	5.00 mm	2	Top Side Entry	Modular	Gray	<u>2834076-1</u>
1444	5.08 mm	3	Top Side Entry	Modular	Gray	<u>2834077-2</u>
	5.00 mm	2	Side Entry	Modular	Gray	<u>2834098-1</u>
10.000	5.00 mm	2	Side Entry	Modular	Gray	<u>2834080-1</u>
	5.00 mm	2	Side Entry	Modular	Gray	<u>2834082-1</u>
41.1.4.4	5.00 mm	3	Side Entry	Modular	Gray	<u>2834082-2</u>

Contact a TE Sales representative if you need other poles with various color configuration.



Surface Mount TB Series

TE Connectivity (TE)'s BUCHANAN WireMate connectors surface mount series is a two-piece pluggable connector solution designed for customers seeking to switch from wave soldering to surface mount PCB processing. The new series includes surface mount headers and mating plugs in vertical and right-angle configurations from 2 to 12 poles. The surface mount headers are one of several product offerings from TE enabling customers to make the change to full SMT processed printed circuit boards.



Applications

- HVAC Equipment and Controls
- Industrial Controls
- Security Systems
- Industrial Lighting Solutions
- Elevator/Escalator

Electrical

- Current/Voltage Rating: 3.5mm: 2-12 position: 8A @ 300 VAC 5.0mm: 2-9 position: 15A @ 300 VAC 5.0mm: 10-12 position: 10A @ 300 VAC
- Impulse Withstanding Voltage: 2500 VAC

Mechanical

• Wire Gauge:	3.5mm: 30-16 AWG 5.0mm: 26-12 AWG
Screw Torque:	4.5 in-lbf

Materials

Housing:Contact:

Thermoplastic, Black (UL 94 V-0) Copper Alloy, Tin Plated

Product Compliance / Approvals

• UL E60677



- Surface mount headers allow for simple reflow soldering and faster PCB assembly
- Retention features ensure secure PCB mounting
- 90°, 180°, 270° wire entry plugs







5.0)mm Header	mates with 5.0mm Plug		or mates with 5	or mates with 5.0mm Plug		mm Plug or mates with 5.0mm Plug	
Positions	Header PN's	Description	Plugs PN's	Description	Plugs PN's	Description	Plugs PN's	Description
2	<u>2305908-2</u>	5.0mm Pitch	<u>2305909-2</u>	5.0mm Pitch	<u>2213934-2</u>	5.0mm Pitch	<u>2213935-2</u>	5.0mm Pitch
3	<u>2305908-3</u>	SMT Right Angle Standard	<u>2305909-3</u>	180° Wire Entry Plug with	<u>2213934-3</u>	270° Wire Entry Plug with	<u>2213935-3</u>	90° Wire Entry Plug with
4	<u>2305908-4</u>	Header	2305909-4	Retention Clips	<u>2213934-4</u>	Retention Clips	<u>2213935-4</u>	Retention Clips
5	<u>2305908-5</u>	and the second	<u>2305909-5</u>	PPPPPP	<u>2213934-5</u>	recere	<u>2213935-5</u>	ecces
6	<u>2305908-6</u>		<u>2305909-6</u>	ARRENT .	<u>2213934-6</u>	UPPPP	<u>2213935-6</u>	VPPPP
7	<u>2305908-7</u>		<u>2305909-7</u>		<u>2213934-7</u>	and the second s	<u>2213935-7</u>	Eline
8	<u>2305908-8</u>	2305908-3	<u>2305909-8</u>	2305909-3	<u>2213934-8</u>	2213934-3	<u>2213935-8</u>	2213935-3
9	<u>2305908-9</u>		<u>2305909-9</u>	~	<u>2213934-9</u>	~	<u>2213935-9</u>	
10	<u>1-2305908-0</u>		<u>1-2305909-0</u>		<u>1-2213934-0</u>		<u>1-2213935-0</u>	HAR
11	<u>1-2305908-1</u>	La Carlos	<u>1-2305909-1</u>		<u>1-2213934-1</u>		<u>1-2213935-1</u>	
12	<u>1-2305908-2</u>	-A. R. R.	<u>1-2305909-2</u>	O O O	<u>1-2213934-2</u>		<u>1-2213935-2</u>	- and KI



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1-1773930-3 06/2017 JN

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