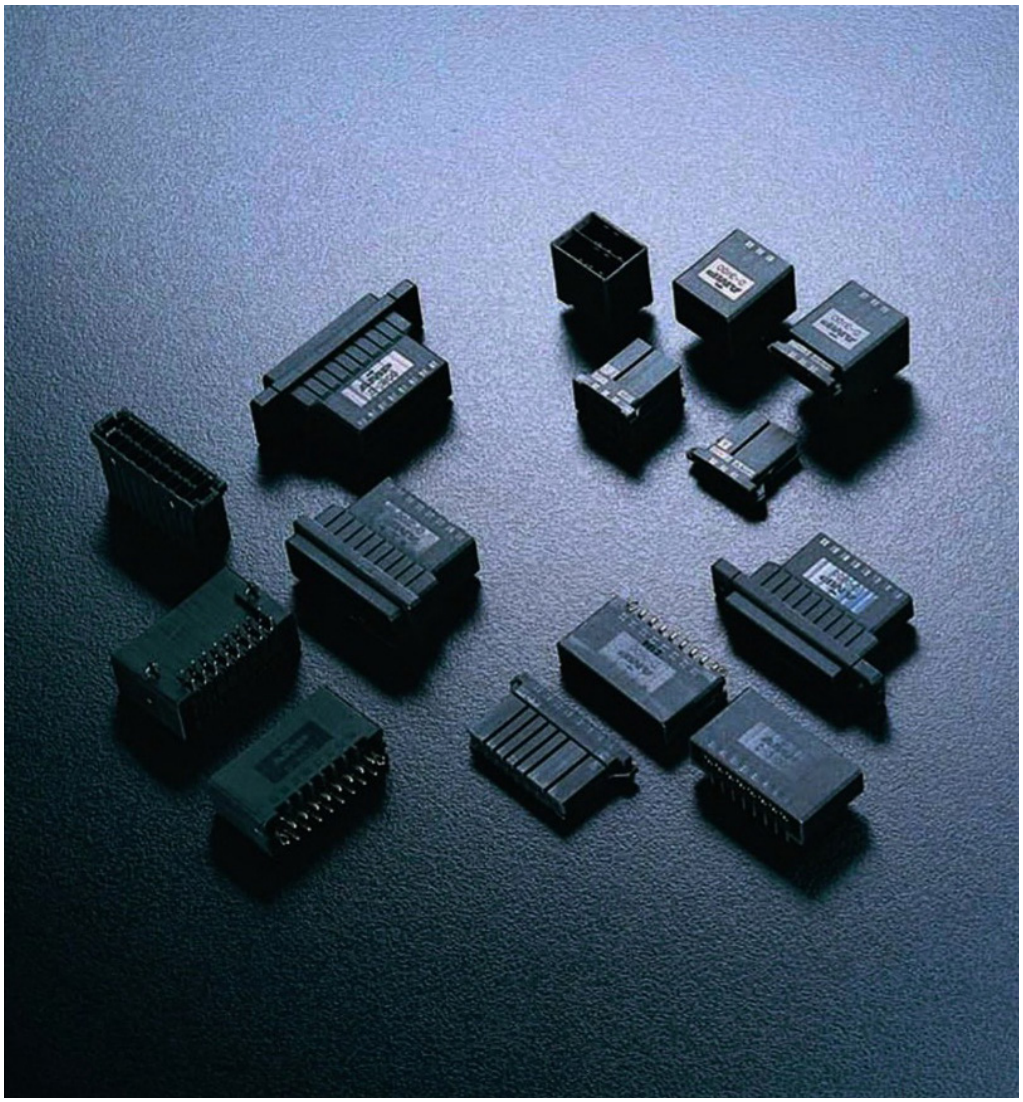
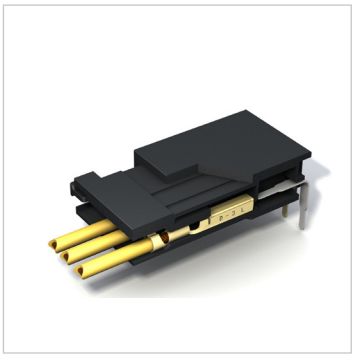
EVERY CONNECTION COUNTS

DYNAMIC D-3000 SERIES

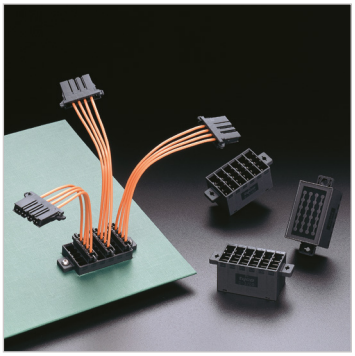
2026 Edition

RoHS Ready





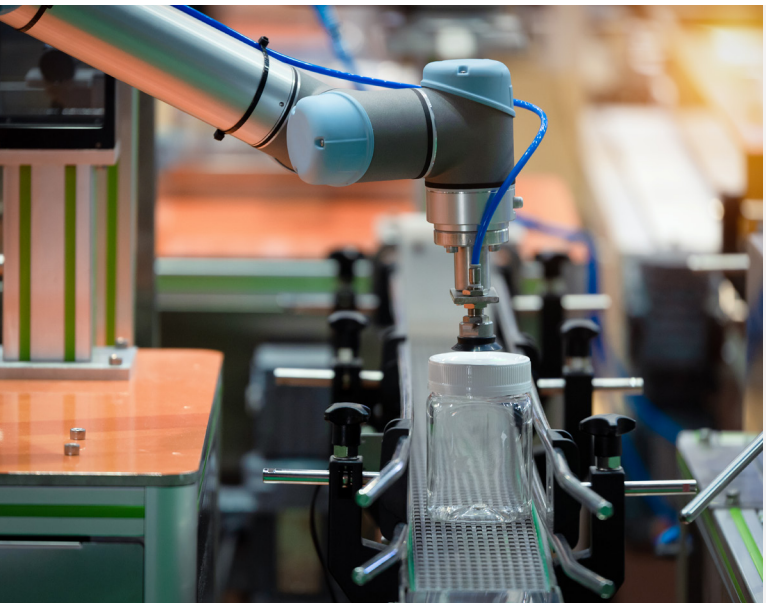




DYNAMIC D-3000 SERIES

SERIES INTRODUCTION

The D-3000 series is the main Dynamic Series. They are widely used as industrial ‘signal’ and ‘power’ connectors. Pin layout comes in two types: 3.81mm pitch (standard) and 5.08mm pitch (high voltage). The standard pitch is used for both signal circuits and power connection. The high voltage type is used for more than 600V voltage rating applications. For power connection, it meets the trend for small size and high power which comply with miniaturization of the machinery. The high conductivity copper alloy can carry a higher current of 15A per pole despite its small size. This concept is based on the development strategy of the Dynamic Series to cover as wide a range of solutions for as many customers as possible. This concept makes the D-3000 series contacts fit all D-3000 housings, and the wide variety of which means that it is not necessary for a customer to look outside of this range for every requirement. The D-3000 series has been in development for more than two decades since its initial development, gaining momentum through customer input, and is currently being extended further.



Applications

- BESS / EVI
- Servo Drives
- Robotics
- Semi-conduct
- Automation control

Product Highlights

Anti-twist contact structure

An anti-twist contact structure was developed for automotive industry which has 3 contact points when mating receptacle contact with tab contact or header. The concept of 3-contactpoints provides high reliability in the actual environment.

Three plating types

Three plating types are available to meet the customer's cost, performance requirements and applications. Under a normal environment with few mating/unmating condition, tin plating can be used. In order to balance the product stable performance and material cost, Dynamic D-3000 releases Palladium-Nickel alloy + gold flash, replacing most gold-plated parts to improve sustainability. PdNi will be abbreviation in the follow catalog to instead of Palladium-Nickel alloy + gold flash.

Where more mating/unmating cycles required, PdNi or gold plating with 0.38µm thickness can be used. If the environment is deleterious, PdNi or gold plating at 0.76µm thickness can be selected.

Two types of contact pressure options

Dynamic D-3000 series has two types of contact, standard contact pressures version and high contact pressure version. They can be selected depending on different applications. The standard contact pressure can be used in more mating/unmating cycles or high pin count applications. The high Contact pressure version can be the choice for high vibration applications.

High Current

The Dynamic D-3000 series is able to conduct up to 15A (at a maximum temperature rise of 30°C). It is achieved by both high conductivity copper alloy and the 3 contact points structure.

Audible Latching

When mating, a clear 'lock' sound and vibration will be felt by the operators, that can prevent mis-mating (or halfmating) problems when operators is not able to clearly see the assembly area.

Keying

Both the receptacle and the board-mounting header are equipped with keying features to prevent assembly errors. It ensures proper alignment and connection, even when using more than two sets of connectors with the same pin count on a single board. Furthermore, they can be extended the feasibility of more options of error proofing by means of using the keying plug on receptacle housing and the pin cutting tool on the board-mounting header.

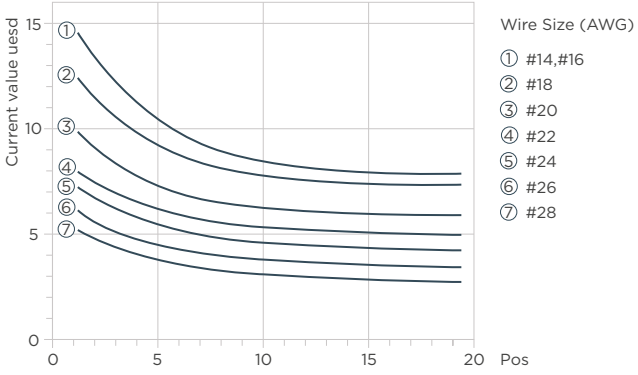
D-3000 Series Performance and Specifications

Performance

Item \ Pitch	3.81mm	5.08mm
Rated Voltage	250V AC/DC	800V AC/DC (Pollution degree I)
Rated Current	1 pole: 15A 3 pole: 12A 6 pole: 9.5A 16pole: 8A (AWG#16 for use as power source)	
Contact resistance	10mΩ max	
Withstanding Voltage	1,500V AC(1 min)	2,200V AC(1 min)
Temperature	-55~+105°C	

Positions/Wire Size/Rated Current

- basic data from qualification test report 501-5013
- temperature rise of 30°C



Performance & Specificatios

Product Specifications	108-5349
Test Report	501-5013
Applications Specifications	114-5148
Pull tool product number(234168-1) manual	411-5726

Hand tool manual	
Tool product number	Instruction No.
91565-1 91559-1 91558-1 91560-1 91561-1	408-8547-1

Refer to instruction manuals for usage information.
An E-Catalogue is also available for download from the internet

Material and Plating

Category	Materials	Plating
Receptacle Contact Tab Contact	Copper alloys	Tin, Gold or PdNi over Nickel under-plated
Board Mount Header	Copper alloys	Tin, Gold or PdNi over Nickel under-plated
Housing	UL94V-0 thermoplastic PBT with glass fiber, PPS (SMT type), Black	

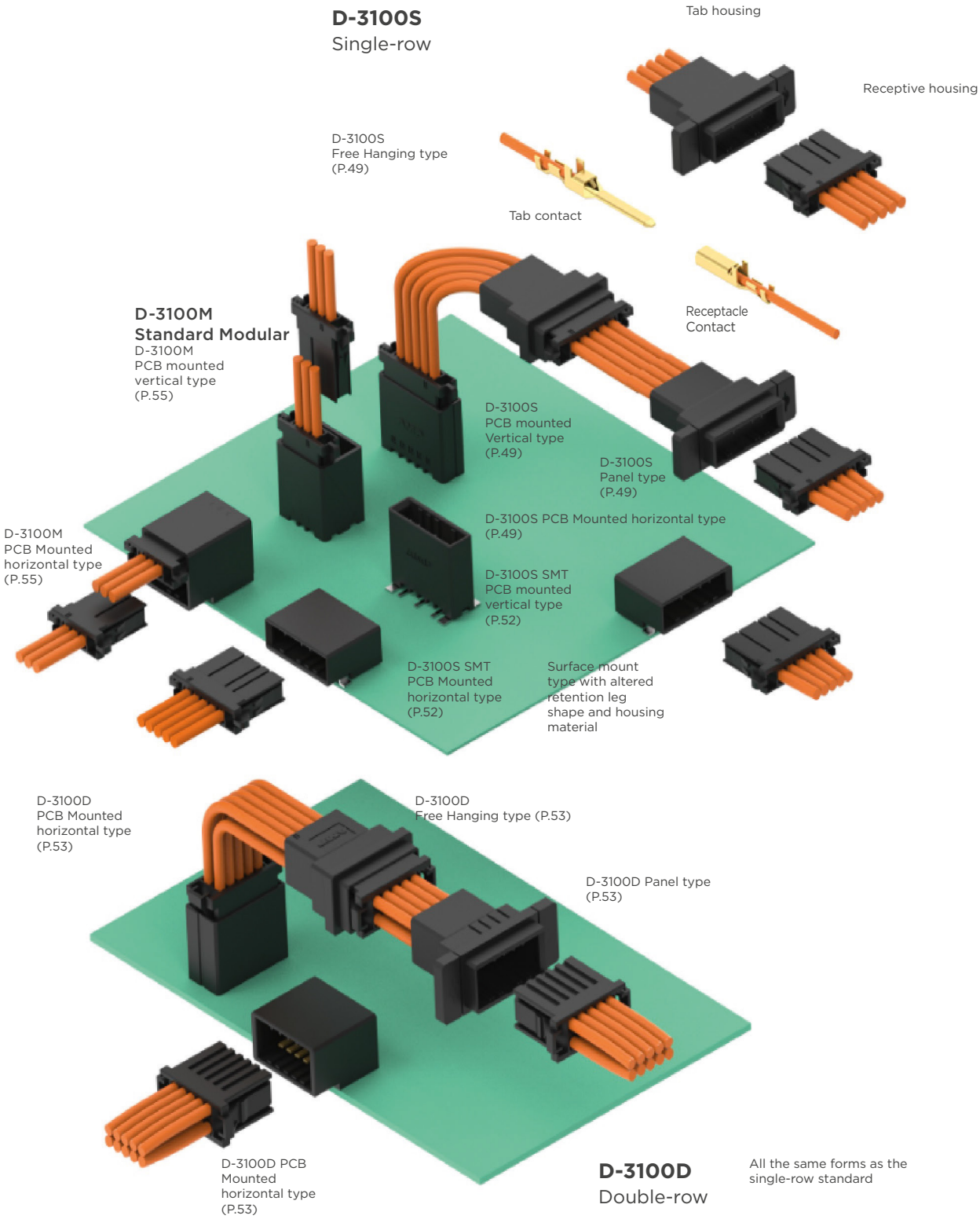
Safety Standards

The safety specifications listed below are approved on specific part numbers. Please contact our Technical Support Centre to check whether the part numbers you use are approved or not. Keep in mind that there are instances where values differ from those given by Tyco Electronics Specifications.

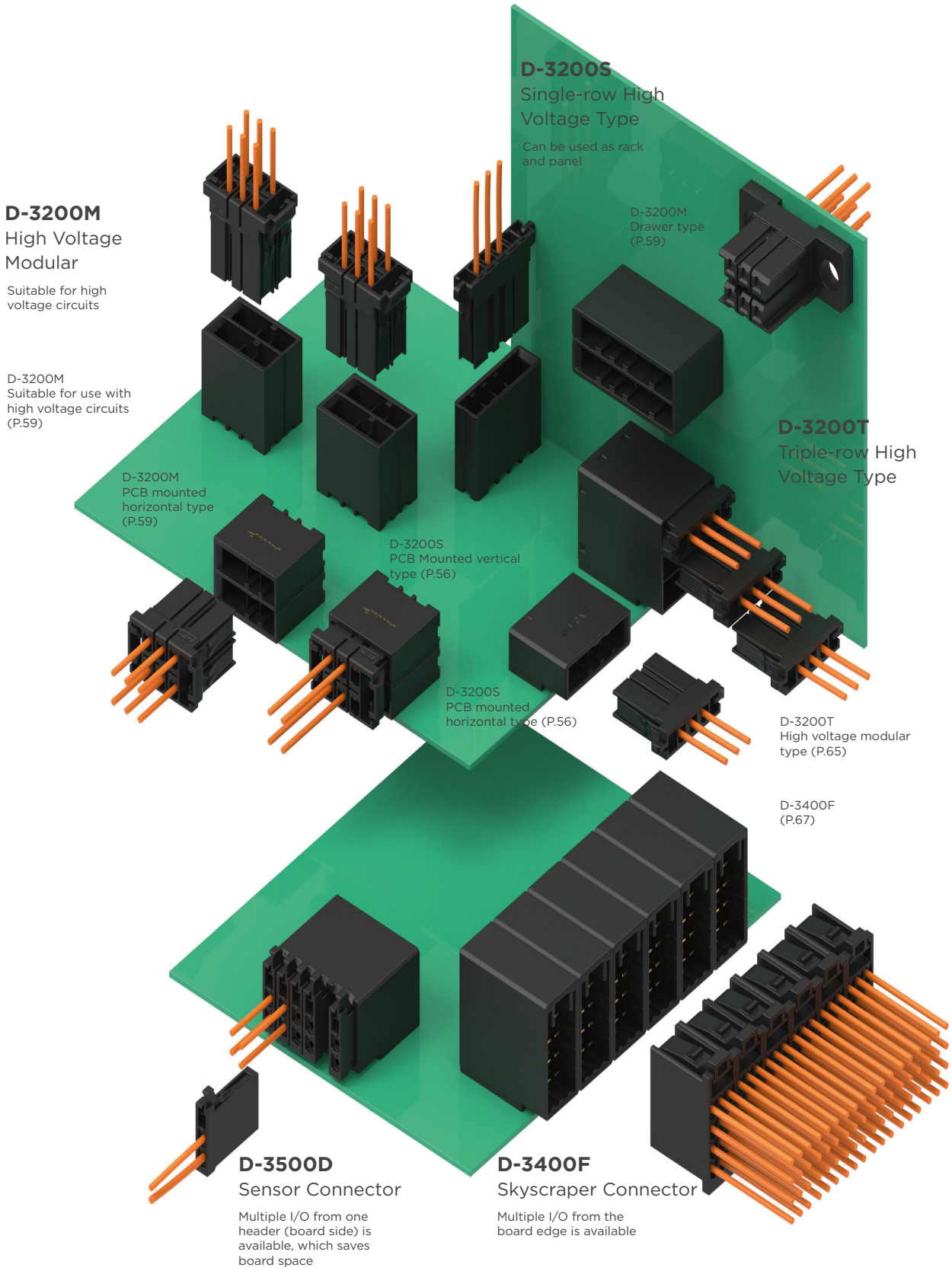
STD. \ Series	D-3100 and D-3400 series (3.81mm pitch)			D-3200 and D-3500 series (5.08mm pitch)		
	Rated Voltage	Rated Current	Temperature Range	Rated Voltage	Rated Current	Temperature Range
Product Specifications 108-5349	250V AC/DC	Above table	-55°C ~+105°C	800V AC/DC(overvol-tage type I, Pollution degree I)	Above table	-55°C ~+105°C
ULFile No.E247738 (Recognized Component)	Based on the require-ments of Application	Based on the require-ments of Application	—	Based on the require-ments of Application	Based on the require-ments of Application	—
CSAReport No. LR7189	250V AC/DC	8A max	—	250V AC/DC	8A max	—
TÜV License No. R9151488 (EN61984)IP prot ection level IP-00 Overvoltage type (II)	200V AC/DC	AWG / A 28 / 2 26 / 3 24 / 3 22 / 4 20 / 5 18 / 6 16 / 8 14 / 8	-55°C ~+105°C	400V AC	AWG / A 28 / 2 26 / 3 24 / 3 22 / 4 20 / 5 18 / 6 16 / 8 14 / 8	-55°C ~+105°C
Same as above Overvol-tage type (III)	150V AC/DC	Same as above	Same as above	300V AC/DC	Same as above	Same as above

Dynamic D-3000 Series Product Family Overview

All connector forms are provided, from the wire-to-wire panel type and free hanging type to the wire-to-board horizontal type and vertical type. Each position can carry a maximun current of up to 15A.



Dynamic D-3000 Series Product Family Overview

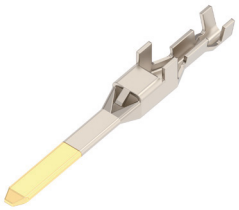


Dynamic D-3000 Series Product Family Overview

Crimped contacts



Receptacle Contact
(used in receptacle housing)



Tab contact
(used in tab housing)

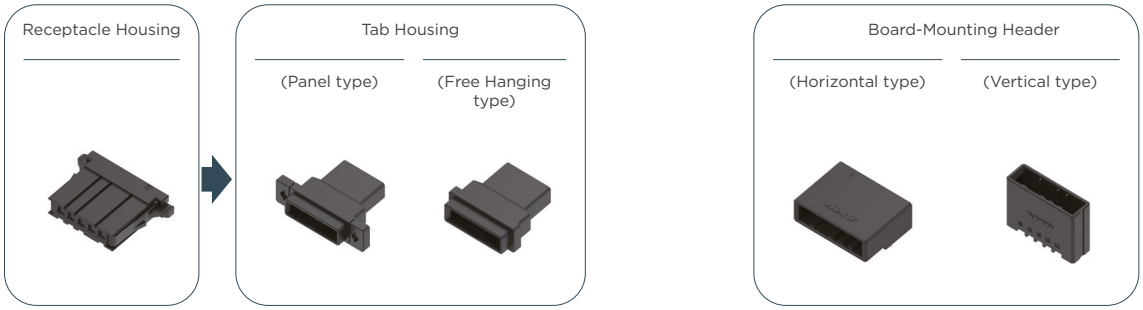
Wire Range				Plating	Receptacle Contact *2			TAB Contact *2		Application Toolings	
AWG	mm²	Outside Diameter of Insulation mm	Wire Range Mark		Contact pressure type	Strip Form *3	Loose Piece *4	Strip Form *3	Loose Piece *4	CCII hand tool *1 *4	Mini Applicator *3
28 26	0.08 0.12	0.8-1.2	S	0.38µm Gold	Standard	175194-2	175216-2	175284-2	175287-2	91565-1	2836130-1
					High	1-175194-2	1-175216-2				
				0.76µm Gold	Standard	175194-3	175216-3	175284-3	175287-3		
24	0.2	1.0-1.4			High	1-175194-3	1-175216-3				
				Tin	High	1-175194-5	1-175216-5	175284-5	175287-5		
24	0.2	1.2-1.6	M	0.38µm PdNi/ Gold	Standard	175195-2	175217-2	175285-2	175288-2	91559-1	2151080-1
					High	1-175195-2	1-175217-2				
				0.76µm PdNi/ Gold	Standard	175195-3	175217-3	175285-3	175288-3		
22 20	0.30 0.50	1.7-2.6			High	1-175195-3	1-175217-3				
				Tin	High	1-175195-5	1-175217-5	175285-5	175288-5		
20 18	0.5 0.85	1.8-2.8	L	0.38µm PdNi/ Gold	Standard	175196-2	175218-2	175286-2	175289-2	91558-1	2151018-1
					High	1-175196-2	1-175218-2				
				0.76µm PdNi/ Gold	Standard	175196-3	175218-3	175286-3	175289-3		
16	1.25	2.2-2.8			High	1-175196-3	1-175218-3				
				Tin	High	1-175196-5	1-175218-5	175286-5	175289-5		
16 14	1.25 2.20	2.2-2.8	2L	0.38µm PdNi/ Gold	Standard	917484-2	917511-2	917485-2	917512-2	91560-1	2151119-1
					High	1-917484-2	1-917511-2				
				0.76µm PdNi/ Gold	Standard	917484-3	917511-3	917485-3	917512-3		
					High	1-917484-3	1-917511-3				
				Tin	High	1-917484-5	1-917511-5	917485-5	917512-5		
16	1.25	3.1-3.3	3L	0.38µm PdNi/ Gold	Standard	353715-2	353717-2	353716-2	353718-2	91561-1	2151073-1
					High	1-353715-2	1-353717-2				
				0.76µm PdNi/ Gold	Standard	353715-3	353717-3	353716-3	353718-3		
14	2.2	3.3-3.8			High	1-353715-3	1-353717-3				
				Tin	High	1-353715-5	1-353717-5	353716-5	353718-5		

Remarks:
*1 The outer diameter of the insulation is applicable to loose piece contacts. For strip contacts, refer to application spec 114-5148.
*2 Receptacle contacts are only available for receptacle housings, while the Tab contacts are only available for tab housings.
*3 Strip Form contacts are used with Mini-applicators
*4 Loose Piece contacts are used with hand tools.
Part numbers in grey shade color are PdNi plating

Note: all products are RoHS compliant on selection.

D3100S Single-row Standard Types – 3.81mm pitch

Configurations



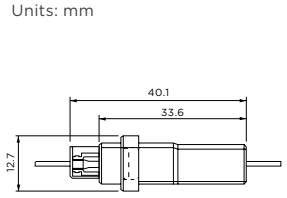
Pos	Key	Receptacle housing	Tab housing			Plating	Board-Mounting Header	
			Panel type	Free Hanging type	L Bracket		Horizontal type	Vertical type
3	X	1-178288-3	1-178802-3	1-177648-3	S	0.38µm PdNi	1-178293-2	1-178313-2
						0.76µm PdNi	1-178293-3	1-178313-3
						Tin	1-178293-5	1-178313-5
	Y	2-178288-3	2-178802-3	2-177648-3	S	0.38µm PdNi	2-178293-2	2-178313-2
						0.76µm PdNi	2-178293-3	2-178313-3
						Tin	2-178293-5	2-178313-5
4	X	1-178288-4	—	—	—	0.38µm PdNi	1-178294-2	1-178314-2
						0.76µm PdNi	1-178294-3	1-178314-3
						Tin	1-178294-5	1-178314-5
	Y	2-178288-4	—	—	—	0.38µm PdNi	2-178294-2	2-178314-2
						0.76µm PdNi	2-178294-3	2-178314-3
						Tin	—	2-178314-5
5	X	1-178288-5	1-178802-5	1-177648-5	L	0.38µm PdNi	1-178295-2	1-178315-2
						0.76µm PdNi	1-178295-3	1-178315-3
						Tin	1-178295-5	1-178315-5
6	X	1-178288-6	—	—	—	0.38µm PdNi	1-178296-2	1-178316-2
						0.76µm PdNi	1-178296-3	1-178316-3
						Tin	1-178296-5	1-178316-5
	Y	2-178288-6	—	—	—	0.38µm PdNi	2-178296-2	2-178316-2
						0.76µm PdNi	—	2-178316-3
						Tin	—	2-178316-5
8	X	1-178288-7	1-178802-7	1-177648-7	L	0.38µm PdNi	1-178297-2	1-178317-2
						0.76µm PdNi	1-178297-3	1-178317-3
						Tin	1-178297-5	1-178317-5
10	X	1-178288-8	1-178802-8	1-177648-8	L	0.38µm PdNi	1-178298-2	1-178318-2
						0.76µm PdNi	1-178298-3	1-178318-3
						Tin	1-178298-5	1-178318-5
	Y	2-178288-8	2-178802-8	2-177648-8	L	0.76µm PdNi	2-178298-3	2-178318-2

Relative Product Information

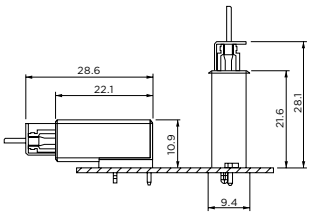
Applicable contact ...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

Mated Dimensions

Units: mm



Panel /Free Hanging type



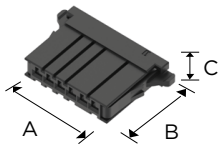
Horizontal /Vertical type

D3100S Single-row Standard Types – 3.81mm pitch

External Dimensions

- Receptacle Housing

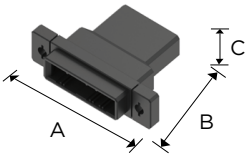
Units: mm



Pos	Key	Part Number	Dimensions		
			A	B	C
3	X	1-178288-3	26.8	22.8	7.2
	Y	2-178288-3			
4	X	1-178288-4	30.6		
	Y	2-178288-4			
5	X	1-178288-5	34.4		
6	X	1-178288-6	38.2		
	Y	2-178288-6			
8	X	1-178288-7	45.8		
10	X	1-178288-8	53.4		
	Y	2-178288-8			

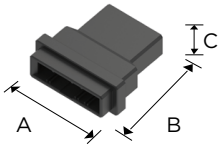
- Tab Housing

Panel type



Pos	Key	Part Number	Dimensions		
			A	B	C
3	X	1-178802-3	40.0	33.6	12.7
	Y	2-178802-3			
5	X	1-178802-5	47.0		
8	X	1-178802-7	59.0		
10	X	1-178802-8	67.0		
	Y	2-178802-8			

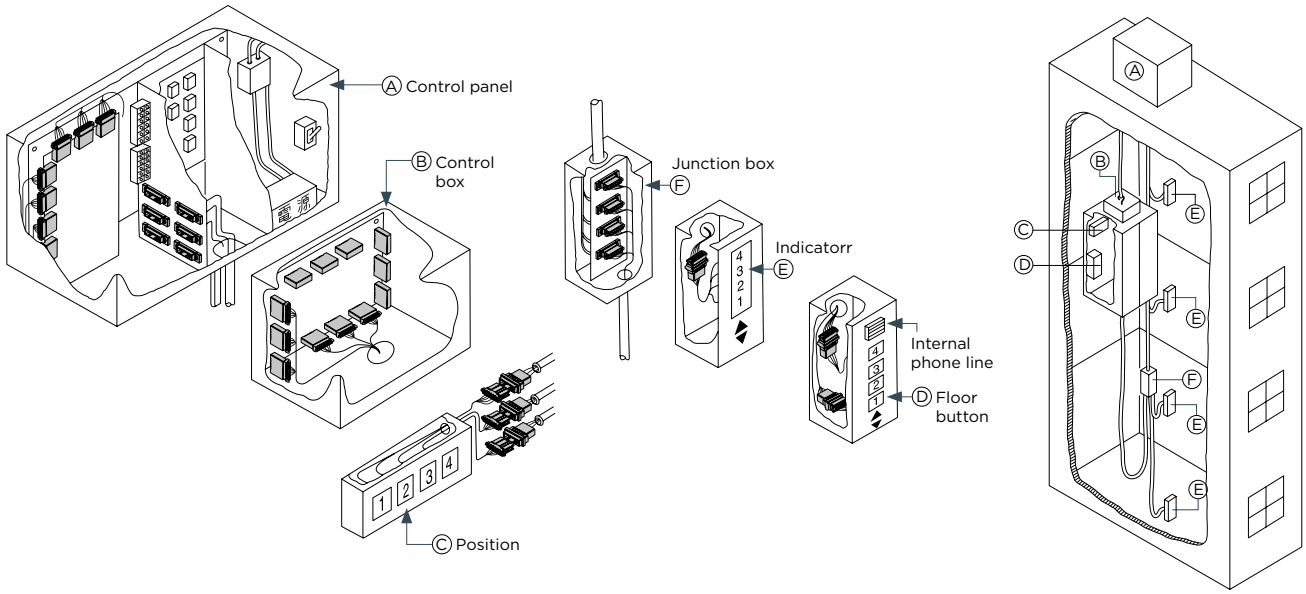
Free Hanging type



Pos	Key	Part Number	Dimensions		
			A	B	C
3	X	1-177648-3	25.6	33.6	12.7
	Y	2-177648-3			
5	X	1-177648-5	33.2		
8	X	1-177648-7	44.6		
10	X	1-177648-8	52.2		
	Y	2-177648-8			

Application Example

Example of elevator applications

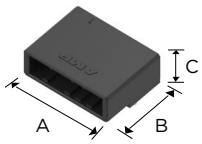


D3100S Single-row Standard Types – 3.81mm pitch

External Dimensions

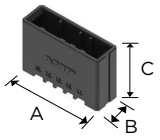
Board-Mounting Header

Horizontal type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
3	X	0.38µm PdNi	1-178293-2	21.6	22.1	10.9
		0.76µm PdNi	1-178293-3			
		Tin	1-178293-5			
	Y	0.38µm PdNi	2-178293-2			
		0.76µm PdNi	2-178293-3			
		Tin	2-178293-5			
4	X	0.38µm PdNi	1-178294-2	25.4		
		0.76µm PdNi	1-178294-3			
		Tin	1-178294-5			
	Y	0.38µm PdNi	2-178294-2			
		0.76µm PdNi	2-178294-3			
5	X	0.38µm PdNi	1-178295-2	29.2		
		0.76µm PdNi	1-178295-3			
		Tin	1-178295-5			
6	X	0.38µm PdNi	1-178296-2	33.1		
		0.76µm PdNi	1-178296-3			
		Tin	1-178296-5			
	Y	0.38µm PdNi	2-178296-2			
8	X	0.38µm PdNi	1-178297-2	40.7		
		0.76µm PdNi	1-178297-3			
		Tin	1-178297-5			
10	X	0.38µm PdNi	1-178298-2	48.3		
		0.76µm PdNi	1-178298-3			
		Tin	1-178298-5			
	Y	0.76µm PdNi	2-178298-3			

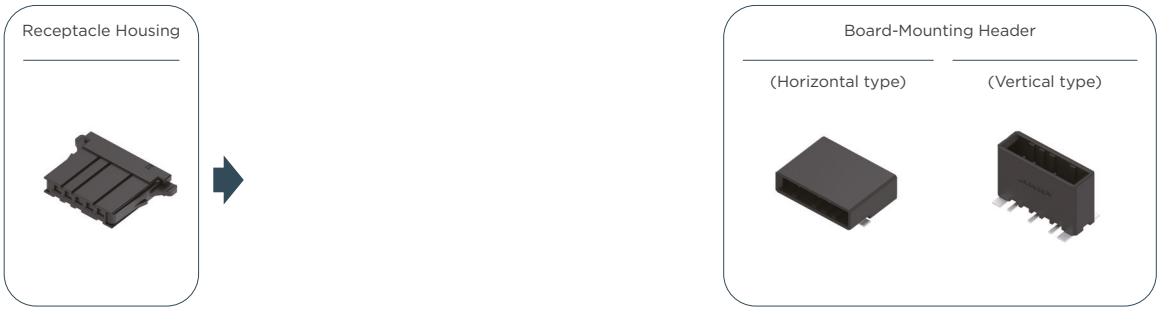
Vertical type (Through hole)



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
3	X	0.38µm PdNi	1-178313-2	21.6	9.4	21.6
		0.76µm PdNi	1-178313-3			
		Tin	1-178313-5			
	Y	0.38µm PdNi	2-178313-2			
		0.76µm PdNi	2-178313-3			
		Tin	2-178313-5			
4	X	0.38µm PdNi	1-178314-2	25.4		
		0.76µm PdNi	1-178314-3			
		Tin	1-178314-5			
	Y	0.38µm PdNi	2-178314-2			
		0.76µm PdNi	2-178314-3			
		Tin	2-178314-5			
5	X	0.38µm PdNi	1-178315-2	29.2		
		0.76µm PdNi	1-178315-3			
		Tin	1-178315-5			
6	X	0.38µm PdNi	1-178316-2	33.1		
		0.76µm PdNi	1-178316-3			
		Tin	1-178316-5			
	Y	0.38µm PdNi	2-178316-2			
		0.76µm PdNi	2-178316-3			
		Tin	2-178316-5			
8	X	0.38µm PdNi	1-178317-2	40.7		
		0.76µm PdNi	1-178317-3			
		Tin	1-178317-5			
10	X	0.38µm PdNi	1-178318-2	48.3		
		0.76µm PdNi	1-178318-3			
		Tin	1-178318-5			
	Y	0.38µm PdNi	2-178318-2			

D3100S Single-row SMT Types – 3.81mm pitch

Configurations

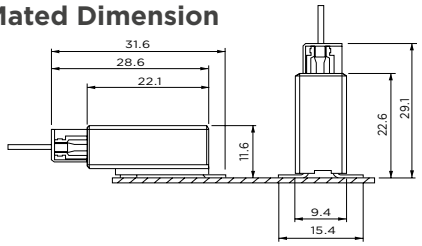


Pos	Key	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
			Panel type	Free Hanging type		Horizontal type	Vertical type
5	X	1-178288-5	—	—	0.38µm PdNi	1-177662-2	1-177665-2
8		1-178288-7	—	—	0.38µm PdNi	1-179188-2	—
			—	—	0.76µm PdNi	1-179188-3	

Relative Product Information

Applicable contact...P.7
Performance & Specifications...P.4
Accessories...31-33

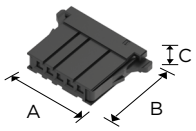
Mated Dimension



Horizontal/Vertical type

External Dimensions

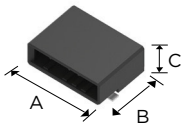
- Receptacle Housing



Pos	Key	Part Number	Dimensions		
			A	B	C
5	X	1-178288-5	34.4	22.8	7.2
8		1-178288-7	45.8		

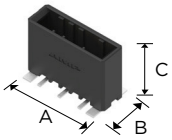
- Board-Mounting Header

Horizontal type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
5	X	0.38µm PdNi	1-177662-2	29.2	22.1	11.6
8	X	0.38µm PdNi	1-179188-2	40.7		
		0.76µm PdNi	1-179188-3			

Vertical type

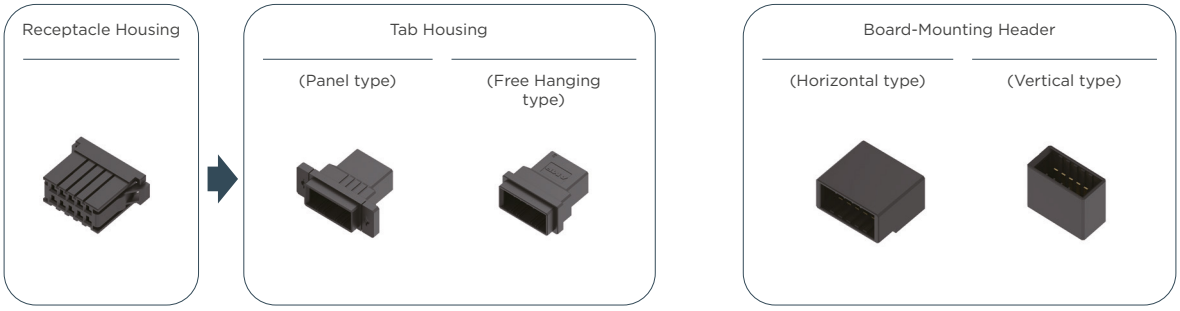


Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
5	X	0.38µm PdNi	1-177665-2	29.2	9.4	22.6

Units: mm

D3100D Double-row Standard Types – 3.81mm pitch

Configurations

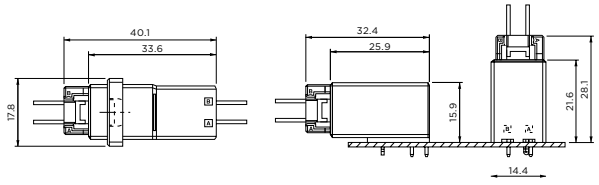


Pos	Key	Receptacle housing	Tab housing			Plating	Board-Mounting Header	
			Panel type	Free Hanging type	L Bracket		Horizontal type	Vertical type
6	X	178289-3	178803-3	178964-3	S	0.38µm PdNi	178303-2	178323-2
	X					0.76µm PdNi	178303-3	178323-3
	X					Tin	178303-5	178323-5
8	X	178289-4	—	178964-4	S	0.38µm PdNi	1717412-2	1903601-2
	X					0.76µm PdNi	1717412-3	—
	X					Tin	—	1903601-5
10	X	178289-5	178803-5	178964-5	L	0.38µm PdNi	178305-2	178325-2
	X					0.76µm PdNi	178305-3	178325-3
	X					Tin	178305-5	178325-5
12	X	178289-6	178803-6	178964-6	L	0.38µm PdNi	178306-2	178326-2
	X					0.76µm PdNi	178306-3	178326-3
	X					Tin	178306-5	178326-5
16	X	178289-7	178803-7	178964-7	L	0.38µm PdNi	178307-2	178327-2
	X					0.76µm PdNi	178307-3	178327-3
	X					Tin	178307-5	178327-5
20	X	178289-8	178803-8	178964-8	L	0.38µm PdNi	178308-2	178328-2
	X					0.76µm PdNi	178308-3	178328-3
	X					Tin	178308-5	178328-5

Relative Product Information

Applicable contact...P.7
Performance & Specifications...P.4
Applicable tools and accessories...P.31-P.33

Mated Dimensions

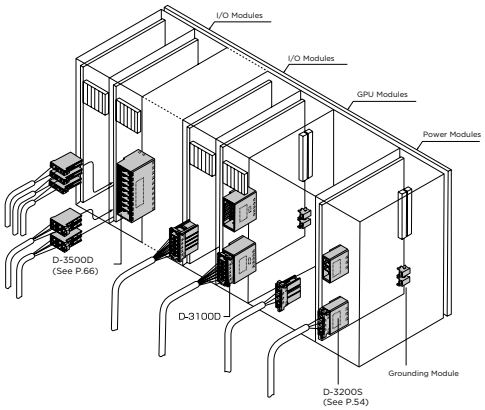


Panel /Free Hanging type

Horizontal /Vertical type

Applications example

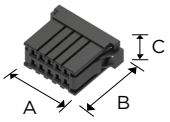
Example of Programmable Controller Application



D3100D Double-row Standard Types – 3.81mm pitch

External Dimensions

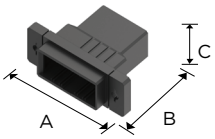
- Receptacle Housing



Pos	Key	Part Number	Dimensions		
			A	B	C
6	X	178289-3	24.4	22.8	12.5
8	X	178289-4	28.2		
10	X	178289-5	32.0		
12	X	178289-6	35.8		
16	X	178289-7	42.7		
20	X	178289-8	51.0		

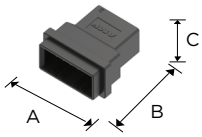
Tab Housing

Panel type



Pos	Key	Part Number	Dimensions		
			A	B	C
6	X	178803-3	40.0	33.6	17.8
10	X	178803-5	47.0		
12	X	178803-6	51.0		
16	X	178803-7	59.0		
20	X	178803-8	67.0		

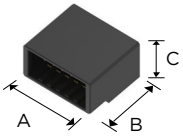
Free Hanging type



Pos	Key	Part Number	Dimensions		
			A	B	C
6	X	178964-3	25.6	33.6	17.8
8	X	178964-4	29.4		
10	X	178964-5	33.2		
12	X	178964-6	37.0		
16	X	178964-7	44.6		
20	X	178964-8	52.2		

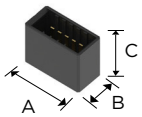
Board-Mounting Header

Horizontal type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
6	X	0.38µm PdNi	178303-2	21.6	25.9	15.9
	X	0.76µm PdNi	178303-3			
	X	Tin	178303-5			
8	X	0.38µm PdNi	1717412-2	25.4		
	X	0.76µm PdNi	1717412-3			
10	X	0.38µm PdNi	178305-2	29.2		
	X	0.76µm PdNi	178305-3			
	X	Tin	178305-5			
12	X	0.38µm PdNi	178306-2	33.1		
	X	0.76µm PdNi	178306-3			
	X	Tin	178306-5			
16	X	0.38µm PdNi	178307-2	40.7		
	X	0.76µm PdNi	178307-3			
	X	Tin	178307-5			
20	X	0.38µm PdNi	178308-2	48.3		
	X	0.76µm PdNi	178308-3			
	X	Tin	178308-5			

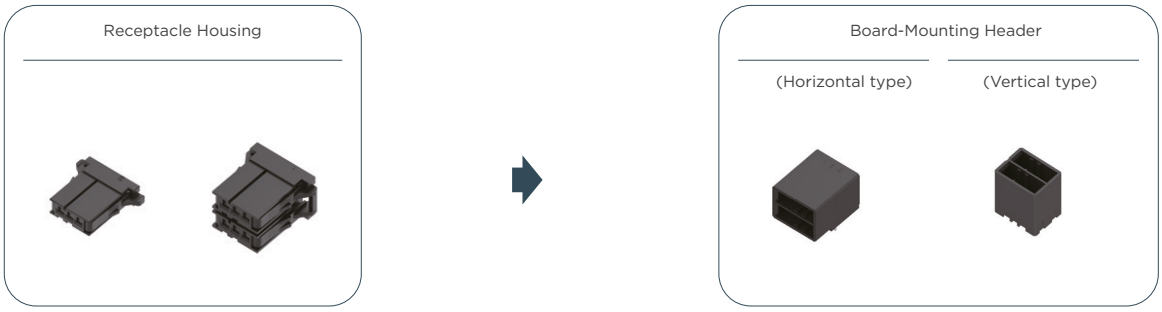
Vertical type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
6	X	0.38µm PdNi	178323-2	21.6	14.4	21.6
	X	0.76µm PdNi	178323-3			
	X	Tin	178323-5			
8	X	0.38µm PdNi	1903601-2	25.4		
	X	Tin	1903601-5			
10	X	0.38µm PdNi	178325-2	29.2		
	X	0.76µm PdNi	178325-3			
	X	Tin	178325-5			
12	X	0.38µm PdNi	178326-2	33.1		
	X	0.76µm PdNi	178326-3			
	X	Tin	178326-5			
16	X	0.38µm PdNi	178327-2	40.7		
	X	0.76µm PdNi	178327-3			
	X	Tin	178327-5			
20	X	0.38µm PdNi	178328-2	48.3		
	X	0.76µm PdNi	178328-3			
	X	Tin	178328-5			

D3100M Double-row Standard Modular Types – 3.81mm pitch

Configurations



Pos	Key	Receptacle housing		Tab housing		Plating	Board-Mounting Header	
		1 row 3 pos. D3100S	2 row 6 pos.	Panel type	Free Hanging type		Horizontal type	Vertical type
6	XX	1-178288-3 (x2)	1-178128-6 (x1)	—	—	0.38µm PdNi	1-178137-2	1-178141-2
						0.76µm PdNi	1-178137-3	1-178141-3
						Tin	1-178137-5	1-178141-5
	YY	2-178288-3 (x2)	2-178128-6 (x1)			0.38µm PdNi	2-178137-2	—
						Tin	2-178137-5	
	XY	1-178288-3 (x1) 2-178288-3 (x1)	3-178128-6 (x1)			0.38µm PdNi	3-178137-2	3-178141-2
						0.76µm PdNi	3-178137-3	3-178141-3
						Tin	3-178137-5	3-178141-5

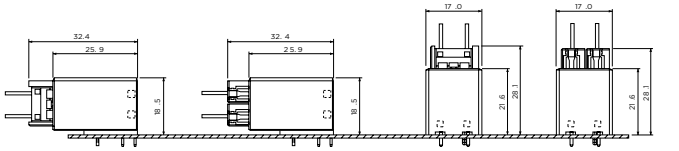
Relative Product Information

Applicable contact...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

Mated Dimensions

Horizontal type

Vertical type

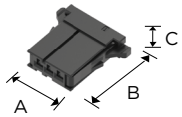


(When a modular use)

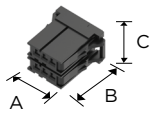
(When a modular use)

External Dimensions

- Receptacle Housing



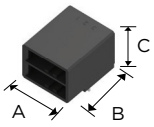
Pos	Key	Part Number	Dimensions		
			A	B	C
3	X	1-178288-3	26.8	22.8	7.2
	Y	2-178288-3			



Pos	Key	Part Number	Dimensions		
			A	B	C
6	XX	1-178127-6	24.8	22.8	14.8
	YY	2-178127-6			
	XY	3-178127-6			

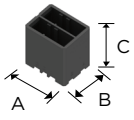
- Board-Mounting Header

Horizontal type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
6	XX	0.38µm PdNi	1-178137-2	21.6	25.9	18.5
		0.76µm PdNi	1-178137-3			
		Tin	1-178137-5			
	YY	0.38µm PdNi	2-178137-2			
		Tin	2-178137-5			
	XY	0.38µm PdNi	3-178137-2			
		0.76µm PdNi	3-178137-3			
		Tin	3-178137-5			

Vertical type

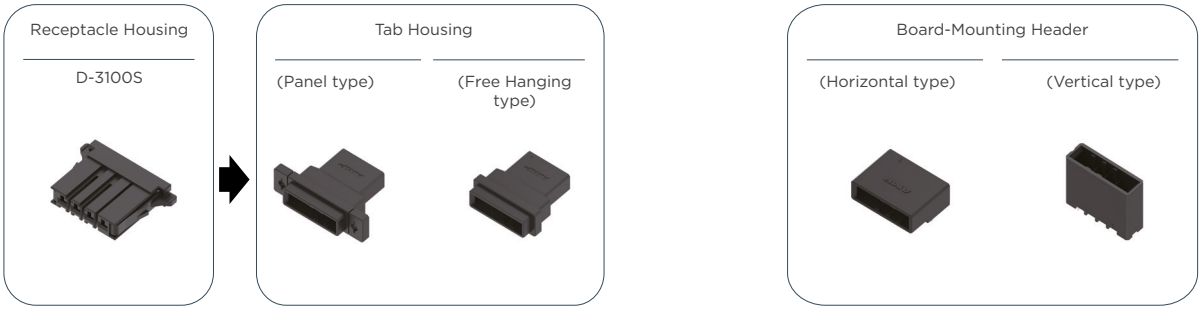


Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
6	XX	0.38µm PdNi	1-178141-2	21.6	17.0	21.6
		0.76µm PdNi	1-178141-3			
		Tin	1-178141-5			
	XY	0.38µm PdNi	3-178141-2			
		0.76µm PdNi	3-178141-3			
		Tin	3-178141-5			

Units: mm

D3200S Single-row High Voltage Types – 5.08mm pitch

Configurations



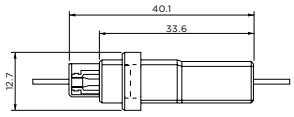
Pos	Key	Receptacle housing	Tab housing			Plating	Board-Mounting Header	
			Panel type	Free Hanging type	L Bracket		Horizontal type	Vertical type
2	X	1-178128-2	1-179553-2	1-179552-2	S	0.38µm PdNi	1-179276-2	1-917337-2
						0.76µm PdNi	1-179276-3	1-917337-3
						Tin	1-179276-5	1-917337-5
	Y	2-178128-2	2-179553-2	2-179552-2		0.38µm PdNi	2-179276-2	2-917337-2
						0.76µm PdNi	2-179276-3	2-917337-3
						Tin	—	2-917337-5
3	X	1-178128-3	1-179553-3	1-179552-3		0.38µm PdNi	1-178138-2	1-178136-2
						0.76µm PdNi	1-178138-3	1-178136-3
						Tin	1-178138-5	1-178136-5
	Y	2-178128-3	2-179553-3	2-179552-3		0.38µm PdNi	2-178138-2	2-178136-2
						0.76µm PdNi	2-178138-3	2-178136-3
						Tin	2-178138-5	2-178136-5
	Z	3-178128-3	—	—	—	Tin	—	3-178136-5
4	X	1-178128-4	1-179553-4	1-179552-4	S	0.38µm PdNi	1-179277-2	1-917338-2
						0.76µm PdNi	1-179277-3	1-917338-3
						Tin	1-179277-5	1-917338-5
	Y	2-178128-4	2-179553-4	2-179552-4		0.38µm PdNi	2-179277-2	2-917338-2
						0.76µm PdNi	2-179277-3	2-917338-3
						Tin	2-179277-5	2-917338-5
5	X	1-178128-5	—			0.38µm PdNi	1-316130-2	1-316132-2
						0.76µm PdNi	1-316130-3	1-316132-3
						Tin	1-316130-5	1-316132-5
	Y	2-178128-5				0.38µm PdNi	2-316130-2	2-316132-2
						0.76µm PdNi	2-316130-3	2-316132-3
6	X	1-178128-6				0.38µm PdNi	1-316131-2	1-316133-2
						0.76µm PdNi	1-316131-3	1-316133-3
						Tin	1-316131-5	1-316133-5
	Y	2-178128-6				0.38µm PdNi	2-316131-2	2-316133-2
						0.76µm PdNi	—	2-316133-3
						Tin	2-316131-5	—

Relative Product Information

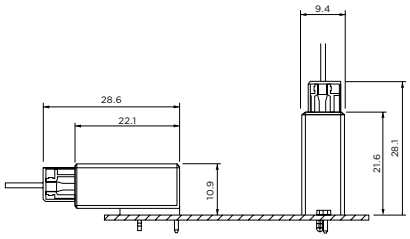
Applicable contact...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

D3200S Single-row High Voltage Types – 5.08mm pitch

Mated Dimensions



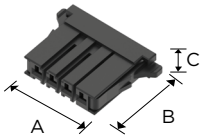
Panel /Free Hanging type



Horizontal /Vertical type

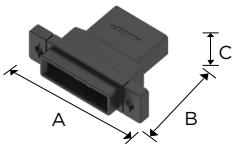
External Dimensions

- Receptacle Housing



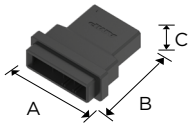
Pos	Key	Part Number	Dimensions		
			A	B	C
2	X	1-178128-2	24.6	22.8	7.2
	Y	2-178128-2			
3	X	1-178128-3	29.7		
	Y	2-178128-3			
	Z	3-178128-3			
4	X	1-178128-4	34.8		
	Y	2-178128-4			
5	X	1-178128-5	39.9		
	Y	2-178128-5			
6	X	1-178128-6	45.0		
	Y	2-178128-6			

Panel type



Pos	Key	Part Number	Dimensions		
			A	B	C
2	X	1-179553-2	36.8	33.6	12.7
	Y	2-179553-2			
3	X	1-179553-3	41.9		
	Y	2-179553-3			
4	X	1-179553-4	47.0		
	Y	2-179553-4			

Free Hanging type



Pos	Key	Part Number	Dimensions		
			A	B	C
2	X	1-179552-2	23.0	33.6	12.7
	Y	2-179552-2			
3	X	1-179552-3	28.1		
	Y	2-179552-3			
4	X	*1-179552-4	33.2		
	Y	*2-179552-4			

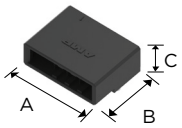
Units: mm

D3200S Single-row High Voltage Types – 5.08mm pitch

External Dimensions

- Board-Mounting Header

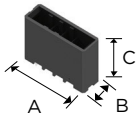
Horizontal type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
2	X	0.38µm PdNi	1-179276-2	19.1	22.1	10.9
		0.76µm PdNi	1-179276-3			
		Tin	1-179276-5			
	Y	0.38µm PdNi	2-179276-2			
		0.76µm PdNi	2-179276-3			
3	X	0.38µm PdNi	1-178138-2	24.2		
		0.76µm PdNi	1-178138-3			
		Tin	1-178138-5			
	Y	0.38µm PdNi	2-178138-2			
		0.76µm PdNi	2-178138-3			
		Tin	2-178138-5			
4	X	0.38µm PdNi	1-179277-2	29.2		
		0.76µm PdNi	1-179277-3			
		Tin	1-179277-5			
	Y	0.38µm PdNi	2-179277-2			
		0.76µm PdNi	2-179277-3			
		Tin	2-179277-5			
5	X	0.38µm PdNi	1-316130-2	34.3		
		0.76µm PdNi	1-316130-3			
		Tin	1-316130-5			
	Y	0.38µm PdNi	2-316130-2			
		0.76µm PdNi	2-316130-3			
6	X	0.38µm PdNi	1-316131-2	39.4		
		0.76µm PdNi	1-316131-3			
		Tin	1-316131-5			
	Y	0.38µm PdNi	2-316131-2			
		Tin	2-316131-5			

- Board-Mounting Header

Vertical type

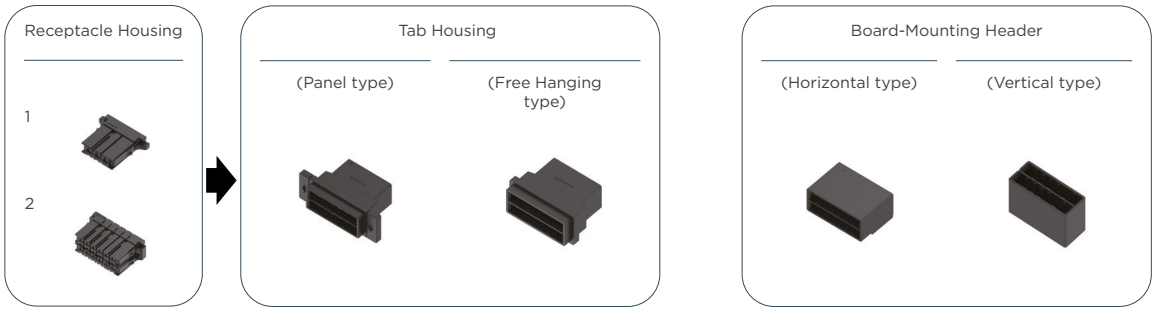


Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
2	X	0.38µm PdNi	1-917337-2	19.1	9.4	21.6
		0.76µm PdNi	1-917337-3			
		Tin	1-917337-5			
	Y	0.38µm PdNi	2-917337-2			
		0.76µm PdNi	2-917337-3			
		Tin	2-917337-5			
3	X	0.38µm PdNi	1-178136-2	24.2		
		0.76µm PdNi	1-178136-3			
		Tin	1-178136-5			
	Y	0.38µm PdNi	2-178136-2			
		0.76µm PdNi	2-178136-3			
		Tin	2-178136-5			
	Z	Tin	3-178136-5			
4	X	0.38µm PdNi	1-917338-2	29.2		
		0.76µm PdNi	1-917338-3			
		Tin	1-917338-5			
	Y	0.38µm PdNi	2-917338-2			
		0.76µm PdNi	2-917338-3			
		Tin	2-917338-5			
5	X	0.38µm PdNi	1-316132-2	34.3		
		0.76µm PdNi	1-316132-3			
		Tin	1-316132-5			
	Y	0.38µm PdNi	2-316132-2			
		0.76µm PdNi	2-316132-3			
6	X	0.38µm PdNi	1-316133-2	39.4		
		0.76µm PdNi	1-316133-3			
		Tin	1-316133-5			
	Y	0.38µm PdNi	2-316133-2			
		0.76µm PdNi	2-316133-3			

Units: mm

D3200M Double-row High Voltage Types – 5.08mm pitch

Configurations



Pos	Key	1 row (D3200S)	Receptacle housing (2)	Tab housing			Plating	Board-Mounting Header	
				Panel type	Free Hanging type			Horizontal type	Vertical type
						L Bracket			
6Pin	XX	1-178128-3 (x2)	1-178129-6 (x1)	1-179555-3	1-179554-3	S	0.38µm PdNi	1-178139-2	1-178140-2
							0.76µm PdNi	1-178139-3	1-178140-3
							Tin	1-178139-5	1-178140-5
	YY	2-178128-3 (x2)	2-178129-6 (x1)	2-179555-3	2-179554-3	S	0.38µm PdNi	2-178139-2	2-178140-2
							0.76µm PdNi	2-178139-3	2-178140-3
							Tin	2-178139-5	2-178140-5
	XY	1-178128-3 (x1) 2-178128-3 (x1)	3-178129-6 (x1)	3-179555-3	3-179554-3	S	0.38µm PdNi	3-178139-2	3-178140-2
							0.76µm PdNi	3-178139-3	3-178140-3
							Tin	3-178139-5	3-178140-5
	YX	2-178128-3 (x1) 1-178128-3 (x1)	-	-	-	-	0.38µm PdNi	4-178139-2	-
	ZX	3-178128-3 (x1) 1-178128-3 (x1)	-	-	-	-	Tin	6-178139-5	-
10Pin	XX	1-178128-5 (x2)	1-917659-5 (x1)	-	-	-	0.38µm PdNi	1-316080-2	1-917657-2
							0.76µm PdNi	1-316080-3	1-917657-3
							Tin	1-316080-5	1-917657-5
	YY	2-178128-5 (x2)	2-917659-5 (x1)	-	-	-	0.38µm PdNi	2-316080-2	2-917657-2
							0.76µm PdNi	2-316080-3	2-917657-3
							Tin	2-316080-5	2-917657-5
	XY	1-178128-5 (x1) 2-178128-5 (x1)	3-917659-5 (x1)	-	-	-	0.38µm PdNi	3-316080-2	3-917657-2
							0.76µm PdNi	3-316080-3	3-917657-3
							Tin	3-316080-5	3-917657-5
12Pin	XX	1-178128-6 (x2)	1-917659-6 (x1)	1-179555-6	1-179554-6	L	0.38µm PdNi	1-316081-2	1-917658-2
							0.76µm PdNi	1-316081-3	1-917658-3
							Tin	1-316081-5	1-917658-5
	YY	2-178128-6 (x2)	2-917659-6 (x1)	2-179555-6	2-179554-6	L	0.38µm PdNi	2-316081-2	2-917658-2
							0.76µm PdNi	2-316081-3	2-917658-3
							Tin	-	-
	XY	1-178128-6 (x1) 2-178128-6 (x1)	3-917659-6 (x1)	3-179555-6	3-179554-6	L	0.38µm PdNi	3-316081-2	3-917658-2
							0.76µm PdNi	3-316081-3	3-917658-3
							Tin	-	-
20Pin	XX	-	1-917659-8 (x1)	1-179555-8	-	-	-	-	-

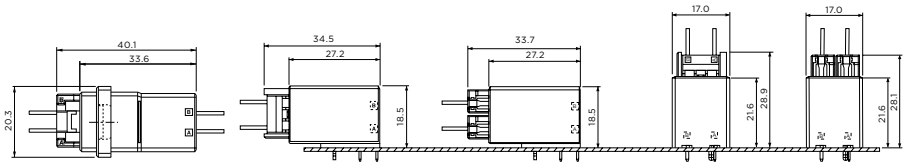
Relative Product Information

Applicable contact ...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

For Dynamic D3200S Receptacle housings, please see page 16

D3200M Double-row High Voltage Types – 5.08mm pitch

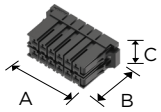
Mated Dimensions



Panel/Free Hanging type | Horizontal type | (When modular use) | Vertical type | (When modular use)

External Dimensions

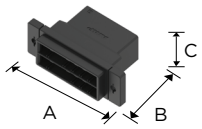
- Receptacle Housing



Pos	Key	Part Number	Dimensions		
			A	B	C
6	XX	1-178129-6	27.3	22.8	14.8
	YY	2-178129-6			
	XY	3-178129-6			
10	XX	1-917659-5	37.5		
	YY	2-917659-5			
	XY	3-917659-5			
12	XX	1-917659-6	42.5		
	YY	2-917659-6			
	XY	3-917659-6			
20	XX	1-917659-8	62.9		

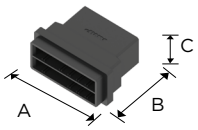
- Tab Housing

Panel type



Pos	Key	Part Number	Dimensions		
			A	B	C
6	XX	1-179555-3	41.9	33.6	20.3
	YY	2-179555-3			
	XY	3-179555-3			
12	XX	1-179555-6	57.9		
	YY	2-179555-6			
	XY	3-179555-6			
20	XX	1-179555-8	78.2		

Free Hanging type



Pos	Key	Part Number	Dimensions		
			A	B	C
6	XX	1-179554-3	28.1	33.6	20.3
	YY	2-179554-3			
	XY	3-179554-3			
12	XX	1-179554-6	43.4		
	XY	3-179554-6			

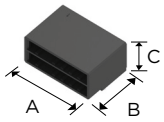
Units: mm

D3200M Double-row High Voltage Types – 5.08mm pitch

External Dimensions

Board-Mounting Header

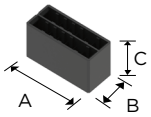
Horizontal type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
6	XX	0.38µm PdNi	1-178139-2	24.2	27.2	18.5
		0.76µm PdNi	1-178139-3			
		Tin	1-178139-5			
	YY	0.38µm PdNi	2-178139-2			
		0.76µm PdNi	2-178139-3			
		Tin	2-178139-5			
	XY	0.38µm PdNi	3-178139-2			
		0.76µm PdNi	3-178139-3			
		Tin	3-178139-5			
	YX	0.38µm PdNi	4-178139-2			
	ZX	Tin	6-178139-5			
10	XX	0.38µm PdNi	1-316080-2	34.3		
		0.76µm PdNi	1-316080-3			
		Tin	1-316080-5			
	YY	0.38µm PdNi	2-316080-2			
		0.76µm PdNi	2-316080-3			
		Tin	2-316080-5			
	XY	0.38µm PdNi	3-316080-2			
		0.76µm PdNi	3-316080-3			
		Tin	3-316080-5			
12	XX	0.38µm PdNi	1-316081-2	39.4		
		0.76µm PdNi	1-316081-3			
		Tin	1-316081-5			
	YY	0.38µm PdNi	2-316081-2			
		0.76µm PdNi	2-316081-3			
		Tin	—			
	XY	0.38µm PdNi	3-316081-2			
		0.76µm PdNi	3-316081-3			

Board-Mounting Header

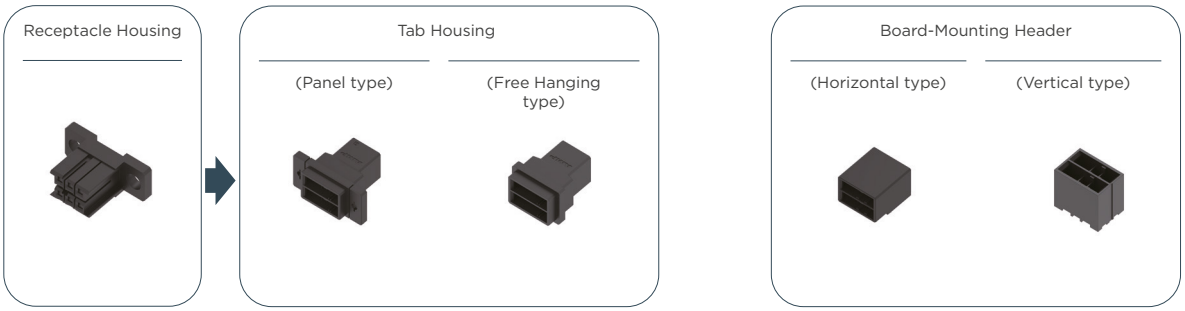
Vertical type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
6	XX	0.38µm PdNi	1-178140-2	24.2	17.0	21.6
		0.76µm PdNi	1-178140-3			
		Tin	1-178140-5			
	YY	0.38µm PdNi	2-178140-2			
		0.76µm PdNi	2-178140-3			
		Tin	2-178140-5			
	XY	0.38µm PdNi	3-178140-2			
		0.76µm PdNi	3-178140-3			
		Tin	3-178140-5			
10	XX	0.38µm PdNi	1-917657-2	34.3		
		0.76µm PdNi	1-917657-3			
		Tin	1-917657-5			
	YY	0.38µm PdNi	2-917657-2			
		0.76µm PdNi	2-917657-3			
		Tin	2-917657-5			
	XY	0.38µm PdNi	3-917657-2			
		0.76µm PdNi	3-917657-3			
		Tin	3-917657-5			
12	XX	0.38µm PdNi	1-917658-2	39.4		
		0.76µm PdNi	1-917658-3			
		Tin	1-917658-5			
	YY	0.38µm PdNi	2-917658-2			
		0.76µm PdNi	2-917658-3			
		Tin	—			
	XY	0.38µm PdNi	3-917658-2			
		0.76µm PdNi	3-917658-3			
		Tin	—			

D3200M Double-row High Voltage Types – 5.08mm pitch Drawer type application

Configurations



Pos	Key	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
			Panel type	Free Hanging type		Horizontal type	Vertical type
6	XX	1-917266-3	1-179555-3	1-179554-3	0.38µm PdNi	1-178139-2	1-178140-2
					0.76µm PdNi	1-178139-3	1-178140-3
					Tin	1-178139-5	1-178140-5

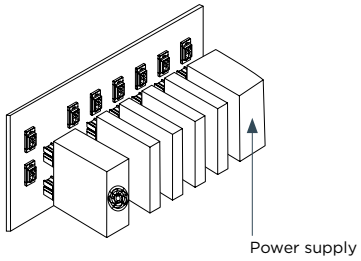
Relative Product Information

Applicable contact ...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

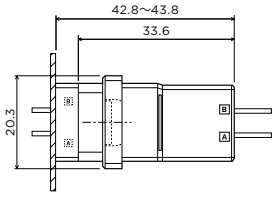
For Dynamic D3200M Tab housings, please see page 19
For Dynamic D3200M Board-mounting headers, please see page 20

Application Example

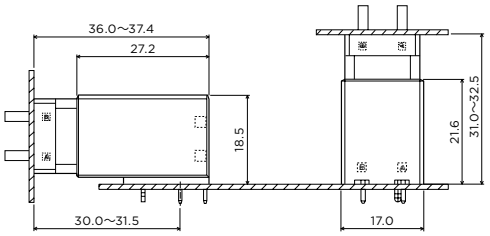
Example of Compact Disk Device Application



Mated Dimensions



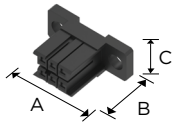
Panel /Free Hanging type



Horizontal /Vertical type

External Dimensions

- Receptacle Housing (Drawer type)



Pos	Key	Part Number	Dimensions		
			A	B	C
6	XX	1-917266-3	40.0	25.7	15.4

D3200T Triple-row High Voltage Types – 5.08mm pitch

Configurations

Receptacle Housing



Board-Mounting Header

(Horizontal type)



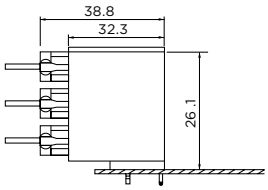
Receptacle Housing						Board-Mounting Header			
Single-Row (D-3200S)			Double-Row (D-3200M)Single-Row (D-3200S)			Horizontal type (D-3200T)			
POS	KEY	Part Number	POS	KEY	Part Number	POS	KEY	Plating	Part Number
3	X	1-178128-3 (x3)	6	XX	1-178129-6 (x1)	9	XXX	0.38µm PdNi	1-1123624-2
			3	X	1-178128-3 (x1)			Tin	1-1123624-5
3	X	1-178128-3 (x2)	6	XX	1-178129-6 (x1)	9	XXY	Tin	3-1123624-5
3	Y	2-178128-3 (x1)	3	Y	2-178128-3 (x1)				
3	X	1-178128-3 (x1)	6	XY	3-178129-6 (x1)	9	XYZ	0.38µm PdNi	9-1123624-2
3	Y	2-178128-3 (x1)							
3	Z	3-178128-3 (x1)	3	Z	3-178128-3 (x1)				

Relative Product Information

Applicable contact ...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

For Dynamic D3200S receptacle housings, please see page 16
For Dynamic D3200M receptacle housings, please see page 19

Mated Dimensions

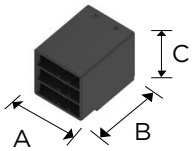


Horizontal type

External Dimensions

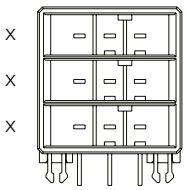
- Board-Mounting Header

Horizontal type

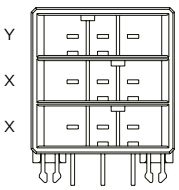


Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
9	XXX	0.38µm PdNi	1-1123624-2	24.2	32.3	27.1
		Tin	1-1123624-5			
	XXY	Tin	3-1123624-5			
	XYZ	0.38µm PdNi	9-1123624-2			

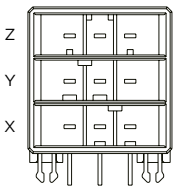
Key Type



1-1123624-2,-5
Key definitionXXX



3-1123624-2,-5
Key definitionXXY



9-1123624-2
Key definitionXYZ

D3400F Skyscraper Connector – 3.81mm pitch

Configurations

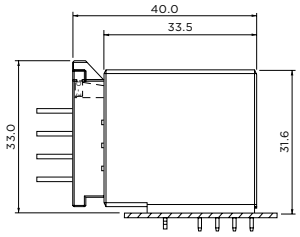


Pos	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
		Panel type	Free Hanging type		Horizontal type	Vertical type
12	178214-1	–	–	0.38µm PdNi	178216-2	–
				0.76µm PdNi	178216-3	
				Tin	178216-5	
20	917249-1			0.38µm PdNi	917251-2	
				0.76µm PdNi	917251-3	
				Tin	917251-5	

Relative Product Information

Applicable contact ...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

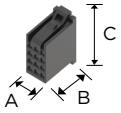
Mated Dimensions



Horizontal type

External Dimensions

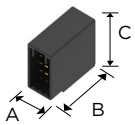
- Receptacle Housing



Pos	Part Number	Dimensions		
		A	B	C
12	178214-1	12.2	22.8	32.1
20	917249-1	19.8		

- Board-Mounting Header

Horizontal type



Pos	Plating	Part Number	Dimensions		
			A	B	C
12	0.38µm PdNi	178216-2	15.0	33.5	31.6
	0.76µm PdNi	178216-3			
	Tin	178216-5			
20	0.38µm PdNi	917251-2	22.6		
	0.76µm PdNi	917251-3			
	Tin	917251-5			

D3500D Sensor Connector – 5.08mm pitch

Configurations

Receptacle Housing



Tab Housing

(Panel type)



(Free Hanging type)



Board-Mounting Header

(Horizontal type)



(Vertical type)



Pos	Color	Receptacle housing
2 Pin	Black	175362-1
	Natrual	1-175362-1
	Blue	2-175362-1
	Black	175362-2 (No Lock Arm)
	Black	175362-3
4 Pin	Black	175363-1
	Natrual	1-175363-1
	Blue	2-175363-1
	Yellow	3-175363-1
	Red	4-175363-1
	Black	175363-2 (No Lock Arm)
6 Pin	Black	1318095-1

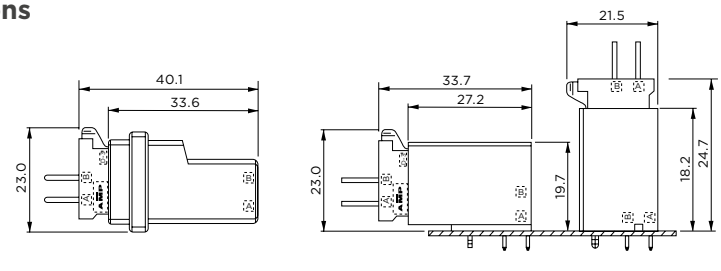
Pos	Board-Mounting Header		
	Plating	Horizontal type	Vertical type
4P	0.38μm PdNi	1376133-2	-
	Tin	1376133-5	-
12Pin	0.38μm PdNi	177555-2	316516-2
	0.76μm PdNi	177555-3	316516-3
	Tin	177555-5	316516-5
20Pin	0.38μm PdNi	175365-2	316517-2
	0.76μm PdNi	175365-3	316517-3
	Tin	175365-5	316517-5

Pos	Tab housing		
	Panel type	Free hanging type	
			L-Bracket
12Pin	917241-6	917242-6	S
	3-917241-6	3-917242-6	
20Pin	917241-8	917242-8	S
	3-917241-8	3-917242-8	

Relative Product Information

Applicable contact ...P.7
Performance & Specifications ...P.4
Applicable tools and accessories ... P.31-P.33

Mated Dimensions



Panel/Free Hanging type

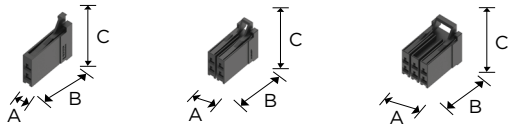
Horizontal type

Vertical type

D3500D Sensor Connector – 5.08mm pitch

External Dimensions

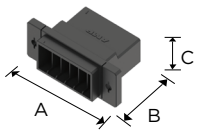
- Receptacle Housing



Pos	Part Number	Dimensions		
		A	B	C
2	175362-1	4.6	22.8	21.0
	175362-2			
	175362-3			
4	175363-1	9.7		
	1-175363-1			
	2-175363-1			
	175363-2			
	175363-3			
6	1318095-1	14.7		

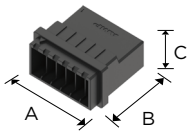
- Tab Housing

Panel type



Pos	Part Number	Dimensions		
		A	B	C
12	917241-6	52.0	33.6	21.5
	3-917241-6			
20	917241-8	72.0		
	3-917241-8			

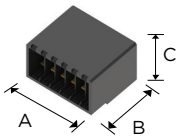
Free Hanging type



Pos	Part Number	Dimensions		
		A	B	C
12	917242-6	36.4	33.6	21.5
	3-917242-6			
20	917242-8	56.8		
	3-917242-8			

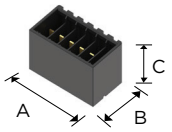
- Board-Mounting Header

Horizontal type



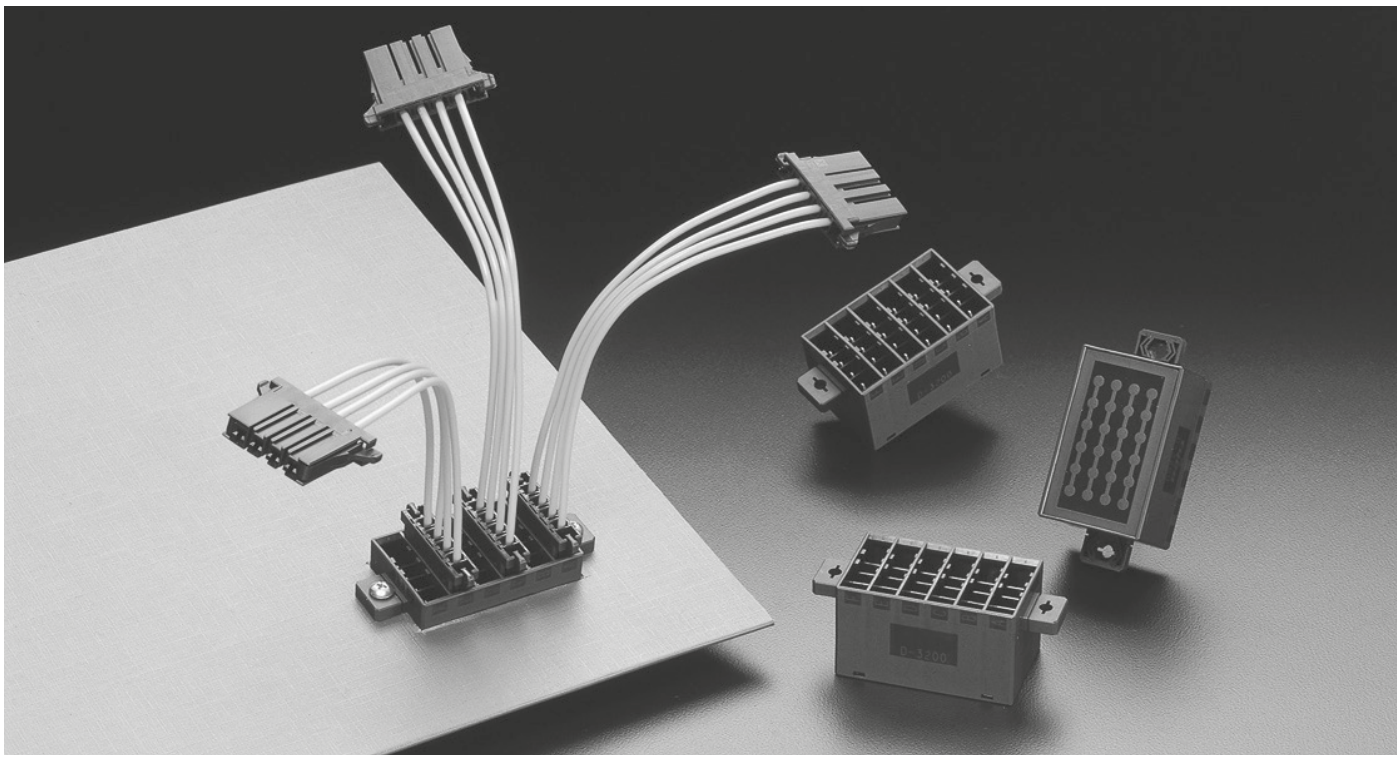
Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
4	–	0.38µm PdNi	1376133-2	12.2	27.2	19.7
12		0.38µm PdNi	177555-2	32.5		
		0.76µm PdNi	177555-3			
		Tin	177555-5			
20		0.38µm PdNi	175365-2	52.8		
		0.76µm PdNi	175365-3			
		Tin	175365-5			

Vertical type



Pos	Plating	Part Number	Dimensions		
			A	B	C
12	0.38µm PdNi	316516-2	32.5	18.2	21.6
	0.76µm PdNi	316516-3			
	Tin	316516-5			
20	0.38µm PdNi	316517-2	52.8		
	0.76µm PdNi	316517-3			
	Tin	316517-5			

Dyna-Tap Connectors



Series introduction

The common FA equipment is a device formed by combining functionally separated units in a final process. Tap on the circuit board was the original method used for supplying power to each unit. Therefore, TE Connectivity developed a connector with tap function— Dyna-Tap, which will not further burden the circuit board of which the space should be further saved in the future.
Dyna-Tap Connectors is a Dynamic series tap connector developed as an FA power connector, so it is the most suitable product for tap of the main power cable.

Applications

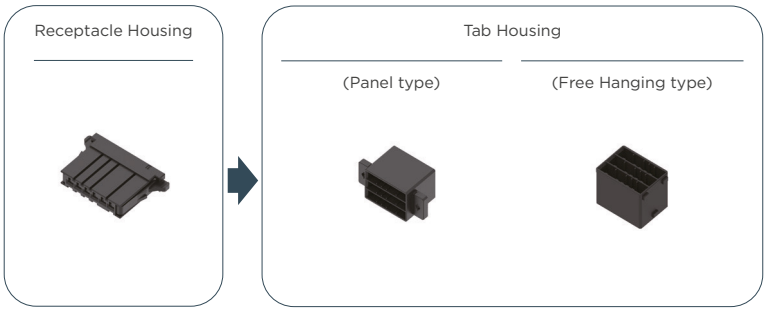
Elevator control room
Power protection relays
Semiconductor production equipment
Power supply for production line

Product Highlights

- Since in most applications it is fixed outside the circuit board (chassis), a dust cover is installed to prevent dust from entering the inside of the device. Therefore, it can be used in harsh environments
- The Dynamic series connectors and contacts can be used. It is a power supply board that uses the Dynamic series with excellent connection reliability and gain high reputation. Compared to terminal blocks, its installation and maintenance costs are reduced significantly. Meanwhile, compatible terminals enable less costs of use and inventory
- Positions of Power board installation can be set freely. Considering that the relay type and panel type connectors are used jointly, panel type with fixtures near to opener or buttom are both available
- Cost advantage by reducing number of components used and saving working hours on installation
- The back is engraved with an electrical connection diagram

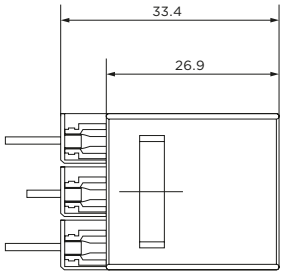
D-3100 Dyna-Tap 18P (6Px3ROW), 24P (6Px4ROW) – 3.81mm pitch

Configurations



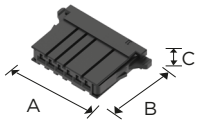
Pos	Receptacle housing	Dyna-Tap		Through-hole
		Panel type	Free Hanging type	
6	1-178288-6	—	—	—
18	—	1376807-2	1376807-1	
24		—	—	1971003-1
				1971003-2

Mated Dimension



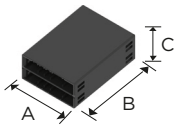
External Dimensions

- Receptacle Assembly



Pos	Key	Part Number	Dimensions		
			A	B	C
6	X	1-178288-6	38.2	22.8	7.2

Through-hole



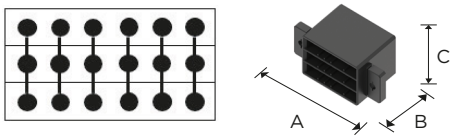
The circuit schematic is provided in the side of the product schematic above

Pos	Key	Part Number	Dimensions		
			A	B	C
24	X	1971003-1	33.1	45.7	17.1
		1971003-2	35.1		35.1

Units: mm

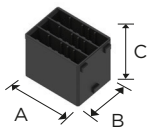
- Dyna-Tap

Panel type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
18	X	0.38µm PdNi	1376807-2	51.0	26.9	24.6

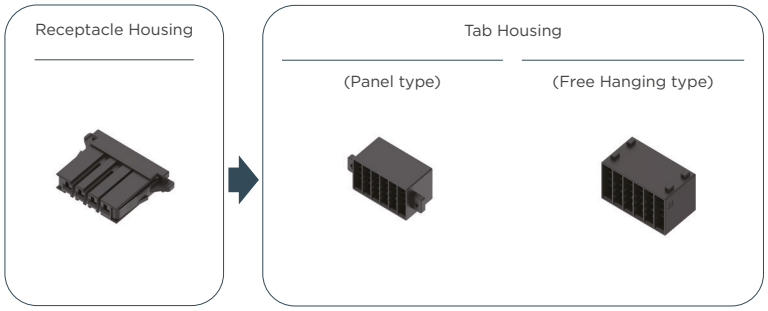
Free Hanging type



Pos	Key	Plating	Part Number	Dimensions		
				A	B	C
18	X	0.38µm PdNi	1376807-1	33.1	24.6	26.9

D-3200 Dyna-Tap 24P (4Px6ROW) – 5.08 mm pitch

Configurations

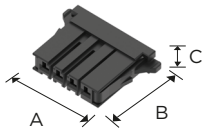


Pos	Receptacle housing	Dyna-Tap		Plating
		Panel type	Free Hanging type	
4	1-178128-4	–	–	–
24	–	1827691-2*1	1827691-1	0.38µm PdNi
		1-1827691-2*1	1-1827691-1	Tin
		1827691-3*2	–	0.38µm PdNi
		1-1827691-3*2		Tin

*1 Front panel type *2 Bottom panel type

External Dimensions

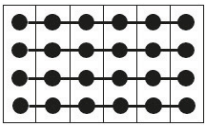
- Receptacle Housing

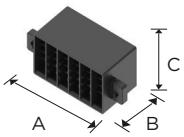


Pos	Part Number	Dimensions		
		A	B	C
4	1-178128-4	24.6	22.8	7.2

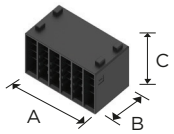
- Dyna-Tap

Panel type





Pos	Plating	Part Number	Dimensions		
			A	B	C
24	0.38µm PdNi	1827691-2	65.0	26.9	29.2
	Tin	1-1827691-2			
	0.38µm PdNi	1827691-3			
	Tin	1-1827691-3			



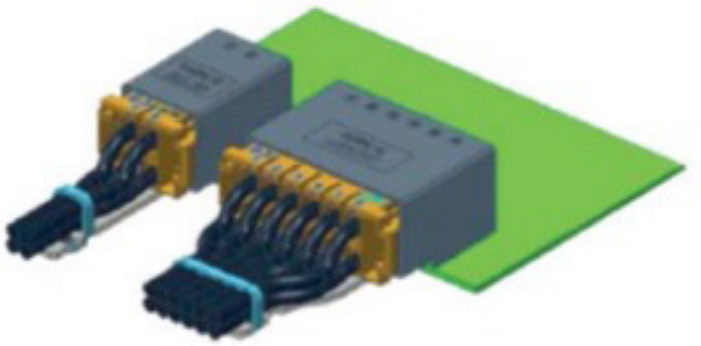
Free Hanging type

Pos	Plating	Part Number	Dimensions		
			A	B	C
24	0.38µm PdNi	1827691-1	47.5	26.9	29.2
	Tin	1-1827691-1			

Dynamic D-3200 FMLB Series

Series introduction

TE Connectivity's (TE) first mate last break (FMLB) Dynamic Series connectors are designed for applications where there are specific grounding requirements. It allows the ground to be established prior to the power connections being made, and the ground is maintained until after the power connections are broken. The latest addition to this family is the D-3000 FMLB 5.08mm option, now offering FMLB solutions from signal level circuitry to power circuit connectivity up to 15A –all in a ruggedized, industrialized package.

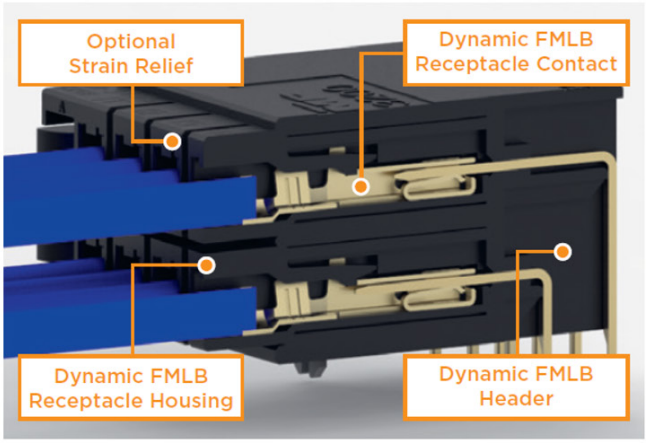


Applications

- Industrial Control
- Human Machine Interface (HMI)
- Data Communication
- Motion & Drives
- Production Equipment
- Robotics
- Servo Drives
- Elevator/Escalator
- Power Distribution
- Industrial Process Controls
- Factory Automation Computers
- Numeric Controllers
- Variable Frequency Drives
- Switching Power Supplies

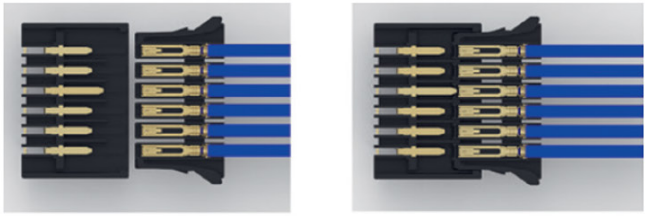
Product Highlights

- Establish ground before making power connection and maintain ground until after power connections are broken, helping ensure a safer connection
- Multiple points of contact, provide a very stable electrical and mechanical connection
- Gold plated contacts result in high conductivity and enable very low insertion forces
- Vibration resistant designed to withstand the most demanding and inhospitable environments
- Housings are keyed preventing mis-mating and misalignment, simplifying and reducing installation/maintenance time in the field for service engineers
- Positive audible locking sound when inserting the connector provides assurance of positive mating
- Lower your total cost of ownership by using the standard D-3000 hand applicator tooling



- The prolonged grounding contact provides the first electrical connection during the mating procedure and is an essential part of each safety earthing system in electrical distribution systems

FMLB System



Dynamic D-3200 FMLB Series Contact

- Crimp contacts



Receptacle Contact
(for Receptacle housing)

Wire range				Plating	Strip Form *2	Loose Piece *3	Application Toolings	
AWG	mm²	Outer diameter of insulation mm	Wire Rang mark				CCII hand tool *1 *3	Mini Applicator *2
28	0.08	0.8-1.2	S	0.38µm Gold	2298107-1	2311162-1	91565-1	2836130-1
26	0.12							
24	0.2	1.0-1.4						
24	0.2	1.2-1.6	M	0.38µm Gold	2298107-2	2311162-2	91559-1	2151080-1
22	0.30	1.7-2.6						
20	0.50							
20	0.5	1.8-2.8	L	0.38µm Gold	2298107-3	2311162-3	91558-1	2151018-1
18	0.85			0.38µm PdNi	6-2298107-8			
16	1.25	2.2-2.8						
16	1.25	2.2-2.8	2L	0.38µm Gold	2298107-4	2311162-4	91560-1	2151119-1
14	1.20			0.38µm PdNi	6-2298107-9			
16	1.25	3.1-3.3	3L	0.38µm Gold	2298107-5	2311162-5	91561-1	2151073-1
14	2.2	3.3-3.8						

Remarks:
*1 The outer diameter of the insulation is applicable to loose piece contacts. For strip contacts, refer to application spec 114-5148
*2 Strip Form contacts are used with Mini-applicators
*3 Loose Piece contacts are used with hand tools
Note: all products are RoHS compliant on selection

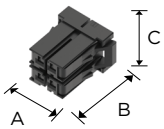
Configurations

Pos	Key	Receptacle housing		Board-Mounting Header	
		Standard	Strain Relief Kit	Plating	Horizontal type
4Pin	RR	1-2291727-1	1-2303376-1	0.38µm Gold	1-2299004-1
	SS	2-2291727-1	2-2303376-1	0.38µm Gold	2-2299004-1
12Pin	RR	1-2291728-1	1-2303378-1	0.38µm Gold	1-2299005-1
	SS	2-2291728-1	2-2303378-1	0.38µm Gold	2-2299005-1



External Dimensions

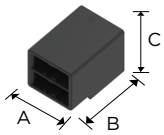
- Receptacle Housing



Pos	Key	Part Number	Dimensions		
			A	B	C
4	RR	1-2291727-1	14.2	22.8	14.8
	SS	2-2291727-1			
12	RR	1-2291728-1	34.5		
	SS	2-2291728-1			

- Board-Mounting Header

Horizontal type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
4	RR	0.38µm Gold	0.38µm Gold	1-2299004-1	14.2	22.8	14.8
	SS		0.38µm Gold	2-2299004-1			
12	RR		0.38µm Gold	1-2299005-1	34.5		
	SS		0.38µm Gold	2-2299005-1			

Dynamic D-3000 Series Tools and accessories

Hand tool for crimp contact

Hand Tools CERTI-CRIMP II, D-1000 Series Flip Locator, D-3000 Series,
Crimp part, as well as the machine, are highly reliable,
Straight action method is introduced.



- Handles are completely covered in urethane providing an easy grip and gentle on hands.
- Wire ranges and crimping height control values are printed on the crimping head for easy confirmation while working. Also, the ratchet in the handle keeps crimping quality very consistent.
- Hand crimping tool with wire stripper has four variations, while the previous model had only three variations.
- We recommend periodic maintenance when using hand crimping tools to keep crimping quality consistent.

Keying plug and Contact cutting tool

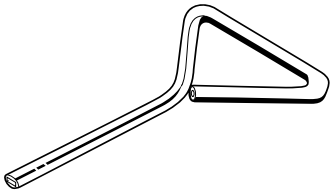
Key Plug–equipped D-3000 Series

(Used to prevent misinsertion)
Avoid mis-plugging when connectors with the same No of Pos. are used together.



Part Number: 175855-1

Receptacle Contact Cutting Tool D-3000 Series



Part Number: 919041-1
Application Specification: 411-78047

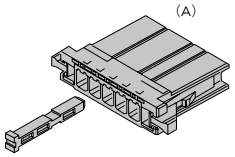
Dynamic D-3000 Series accessories

Keying plug and contact cutting tool

How to use the plug and tool for the D-3000 Series

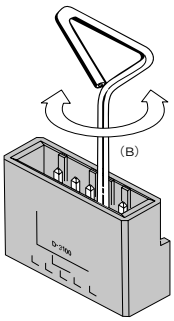
In addition, mis-insertion function keying has been installed from the beginning in some of the products (D-3100S/ D-3100M/ D-3200S/D-3200M)

① The keying plug is inserted into the receptacle housing

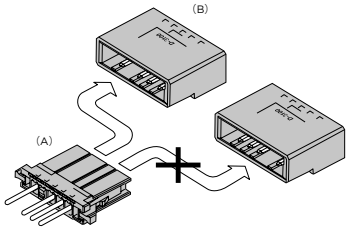


② Wrench off a tab in the corresponding position of mating Tab Header and empty that position. To wrench off the tab, insert Cutting Jig into its root and turn tool as shown

* In tab Housing (Panel/freehanging type), 1 pole is not inserted and is left free



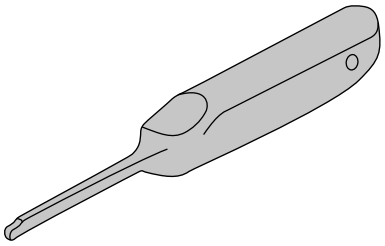
③ When using these, it is impossible to mis-insert



Dynamic D-3000 Series accessories

Extraction tool for D-3000 Series

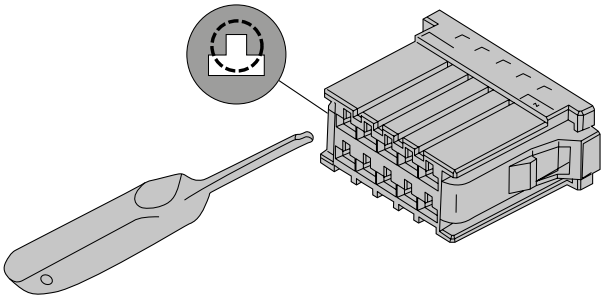
Wiring type tool for pulling the contact from the housing



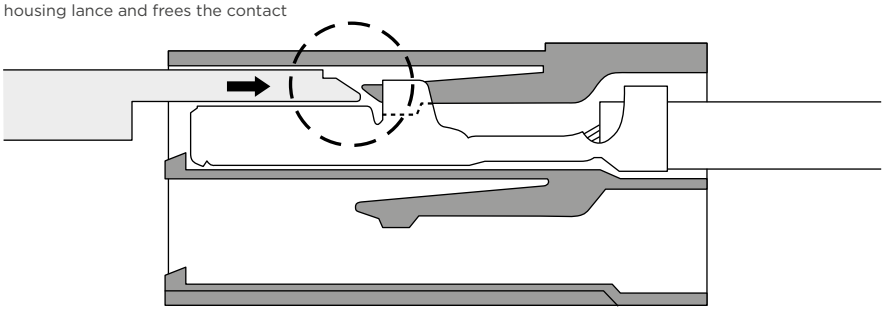
Model: 234168-1
Operating Manual: 411-5726

Using the extractor

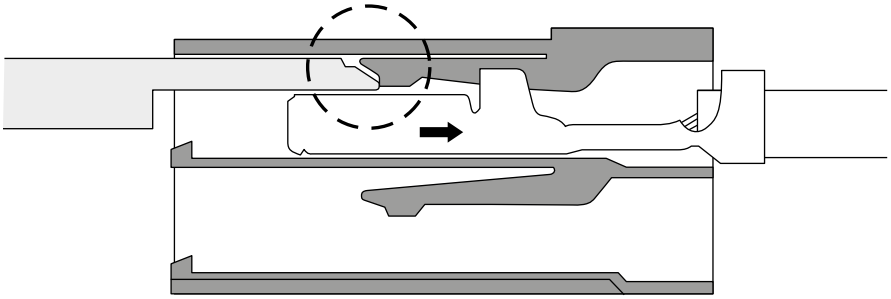
(1) Extractor tool is inserted into the small, upper part of the convex hole in the housing as shown in the diagram (please hold the tool the right way up)



(2) The tip of the tool lifts the housing lance and frees the contact



(3) Contact can be withdrawed



* Take care not to insert into the Contact Section. If you have inserted by error, replace the damaged contact with a new one before proceeding.

Dynamic D-3000 Series accessories

L-bracket for D-3000

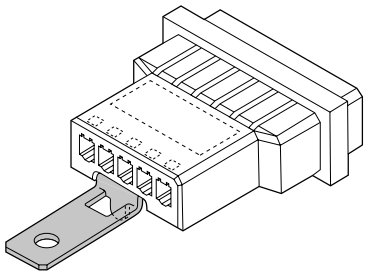
Used to fix the air-to-air housing of the plug to the panel surface.
Model: 5900121-2(S)
5900121-4(L)



Part Number:5900121-2 (S)

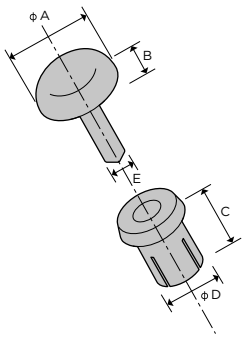


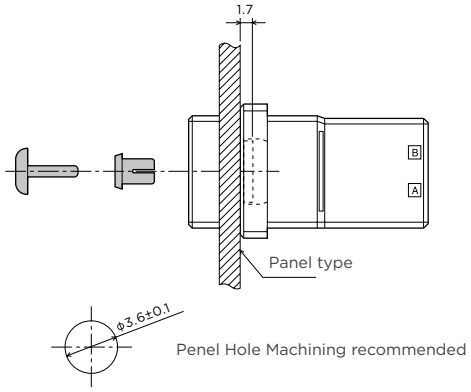
Part Number:5900121-4(L)



Push Rivets

Used to secure panel-type tab housings onto panels (Use as a handy mounting hard ware.
Cannot be used with larger sized housings or those that are frequently inserted and withdrawn).



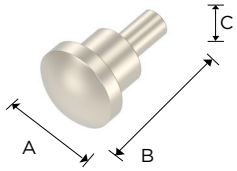


Part Number	Panel Thickness	Dimensions					Insertion Strength	Retention Force
			B	C	D	E		
900128-1	0.3-1.3	6.4	1.6	4.5	3.5	1.95	19.6N-29.4N	127.4N Min.*
900128-2	1.3-2.3			5.5				

*When using 2

Panel Mounting Screws D-3000

Part Number	Dimensions		
	A	B	C
900167-1	9.0	10.3	M3



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About TE Connectivity

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