



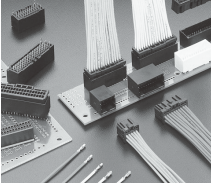
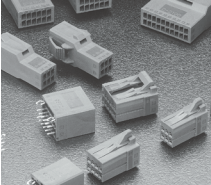
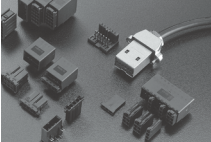
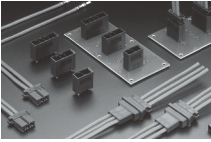
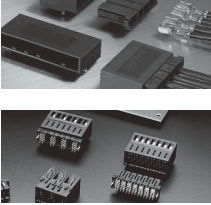

# Dynamic Series Connectors

RoHS  
Ready 



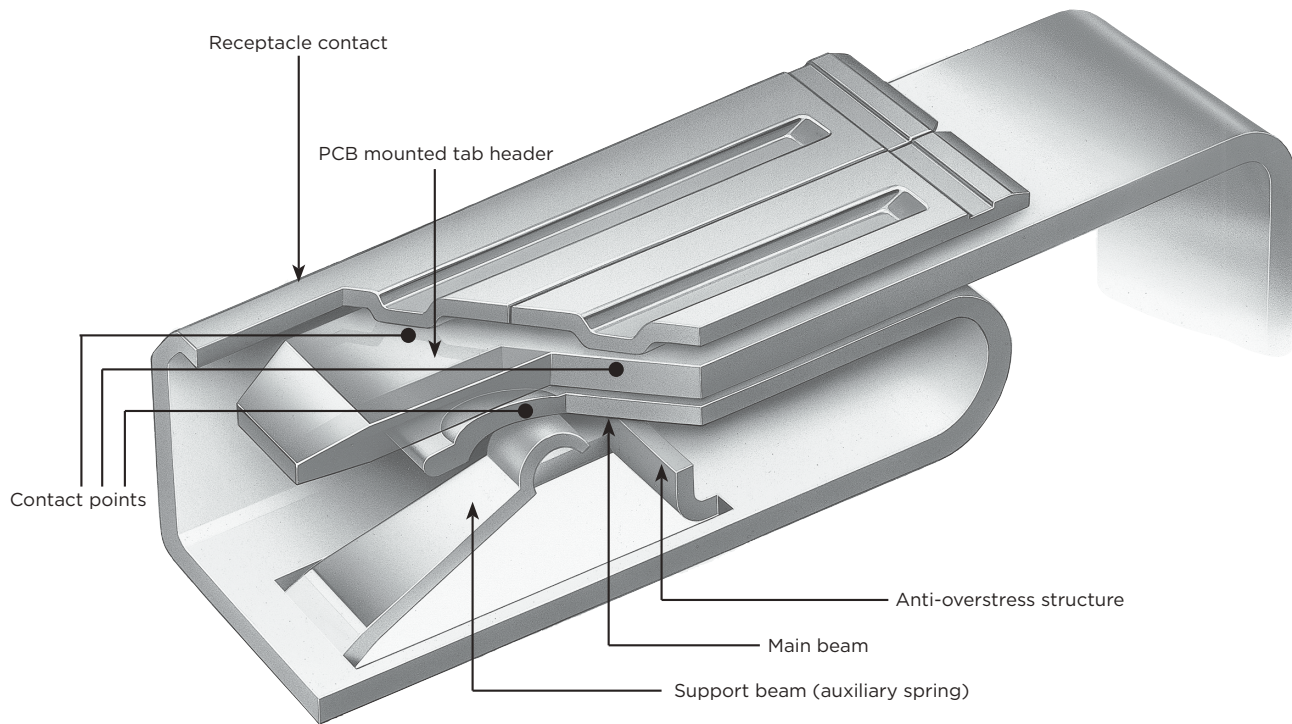
EVERY CONNECTION COUNTS

Dynamic Series List

Name of Series				Electrical Performance				Pitch (mm)	Wire Range (AWG)		
Series	Family images	Spec. Name	Description	Maximum Current Rating (A)	Maximum Voltage Rating (V AC/DC)	Withstanding Voltage (V AC/1 minute)	Durability (Cycles)				
1000 (P.10 - 24)		1100S	Standard	3	125	700	50 (Gold 0.38u) 30 (Tin)	2.0	30 - 22		
		1100D	Standard								
		1200S	High Voltage	5	250	1100	50 (Gold 0.38u) 30 (Tin)	2.5	30 - 18		
		1200D	High Voltage								
		1500T	Module Type								
		1900	Spring Clamp Type					3.5	24 - 20		
2000 (P.25 - 33, P.89, P.92)		2100S	Standard Type	5	250	1500	500 (Gold 0.38u)	2.5	28 - 18		
		2100D	Standard Type								
		2100M	Multiposition Drawer	2.6	24	24	500 (Gold 0.38u)	D-2 (2.5) D-3 (3.81)	D-2 (28 - 18) D-3 (28 - 14)		
		2600D	Hybrid Power/Signal	D-2 (3.2) D-3 (7.5)							
		2800	HTS Modular/Multi-frame	5				3.0	28 - 18		
3000 (P.34 - 61, P.90, P.92)		3100S	Standard Type	15	250	1500	500 (Gold 0.38u, 0.76u) 1000 (Tin)	3.81	28 - 14		
		3100D	Standard Type								
		3100M	Modular Type								
		3200S	High Voltage Type								
		3200M	High Voltage Type								
		3200T	High Voltage Type								
		3400F	Skyscraper		250	1500	3.81				
		3500D	Modular Type		600	2200	5.08				
		3700	For Motors		250	1500	3.81				
		3800	HTS Module		600	2200	5.2				
		3900	Spring Clamp		14.5	300	1500	500		7.5	22 - 14
		*3950	Spring Clamp		14.5	300	1500	500		7.5	22 - 14
		4000 (P.62 - 68, P.90, P.92)		4200S	Standard Type	24	600	2500	25 (Gold 0.38u)	6.35	16 - 12
4200M	Modular Type			24	600	2500	6.35				
4800	HTS Modular/Multi-frame			24	600	2500	6.35				
5000 (P.69 - 84, P.90, P.92)		5200S	Standard	30	630	3000	50 (Gold 0.76u) 25 (Gold 0.38u)	10.16	16 - 8		
		5200S	Cable Clamp								
		5200D	Cable Clamp								
		5200M	High Voltage								
		5200Ma	High Current	45	30	25 (Silver)	50 (Gold 0.76u) 25 (Gold 0.38u)	10.16	20 - 8		
		5300S	Reversed Housing								
		5300D	Reversed Housing	30	42	600	3000	25 (Gold)	13.10	16 - 8	
		5800	HTS Module								
		5900	Spring Clamp								
		DZ-5200	Board to Board	20	250	2200	15 (Gold)	5.08	-		
DZ-5200	Board to Board	30	600	4000	10.16						
7000 (P.94 - 99)		7100	Standard Type	65	630	3000	20 (Silver)	16.0	16 - 6		
		7300	Reverse Type								
Special Products		Dynamic Pneumatic Connector		Refer the Product Specification 108-78406				8.5	Ø4,6 (Tube)		
		Multiple Enclosure Connector		Refer the catalog							



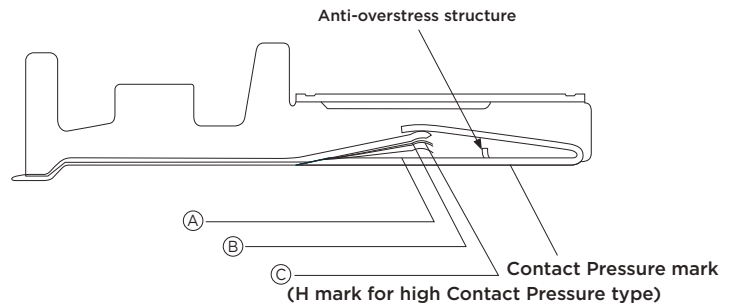
Contact Features (Example of the D-3000 Series)



(Illustration of D-3 Connector)

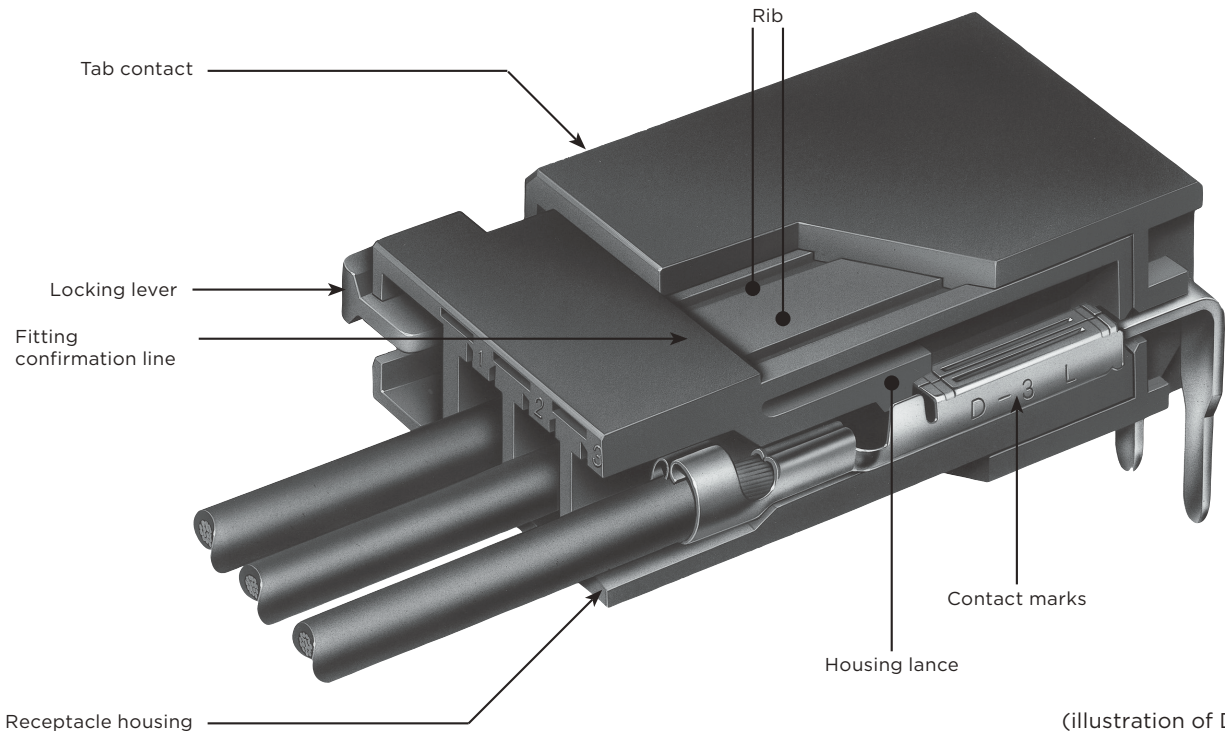
Contact Pressure Adjustment Method

- Gold-plated and tin-plated contacts are available. Adjustable gaps for the auxiliary spring (at positions of A-C) to get the optimum contact pressure. For gold-plated product, both high Contact Pressure and standard contact pressure are available in accordance with the intended use
- Anti-overstress structure prevents damage to the main beam which might be caused by insertion of foreign objects or twisting (Receptacle contact type of D-2 S, M/D-3 S, M, L, 2L, 3L/D-5 S, M)



Plating	Type	Contact Pressure	Position	Contact Pressure mark	Applicable unit	Specifications	Application	Mating Cycles
Gold-plated	Standard Contact Pressure	Around 1.47N	A	—	1-100	Standard	Used for signal/current Multipolar direction and High mating cycles circuits	500
	High Contact Pressure	Around 2.45N	B	H	1-20	Vibration/High current	Used for signal/Power supply/Motor, Applications for high-vibration ion	500
Tin-plated	High Contact Pressure	Around 3.92N	C	H	1-10	High Current	Used for Signal/Power supply Circuits low mating cycles	100

Housing Features (Example of D-3000 Series)

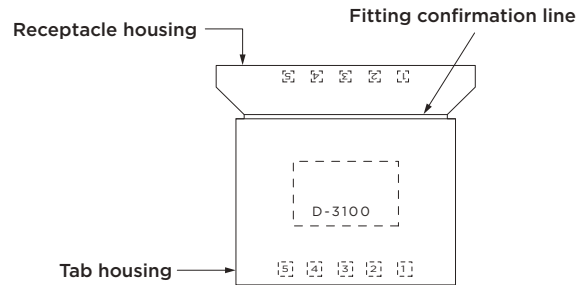
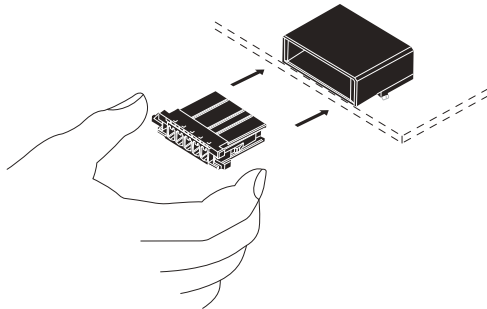


(illustration of D - 3000 Series)

Easy to insert and extract the connector

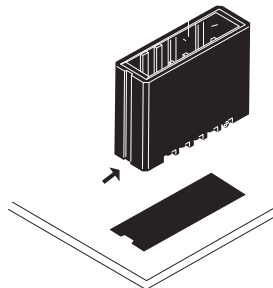
- When you insert or extract the connector, a clear "lock" sound will be heard. A fitting confirmation line is provided to confirm the operation both with your ears and eyes
- Pinch 2 locks on both sides of the housing to easily extract the connector (D -3100/D-3200/D-4000/D-5200 Series)
- For safety consideration, well rounded corners will be used

to prevent hand injuries when inserting or extracting the connector



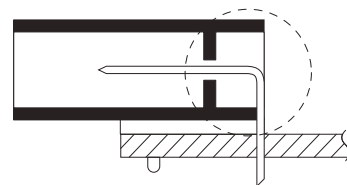
Vertical-type header

To avoid mis-installation or mis-alignment of the boards, keep in mind the direction (Concave) of Vertical-type header (only available for D-3000 Series)



Housing to protect tine part

For protecting the solder tine, horizontal-type header will be fully applied to cover type.



Dynamic Series Connectors

**Guideline for selecting plating** ( These guidelines apply to the D-3000 series only. Please note that they may not be suitable for other products. )

Whether to use gold or tin plating varies depending on the voltage, current, environment (vibration, temperature, gas, etc.), number of contact positions, and other variables. Gold plating is recommended for general

industrial machinery, but in reality cost considerations are also a factor. To help in this selection, these guidelines have been put together for the Dynamic Series as a reference in the selection process.

**1) Selection based on voltage and current**

	Gold-plated	Undetermined zone	Tin-plated	No plating (reference)
Voltage	Below 3 V	3 to 30 V	30 to 100 V	Over 100 V
Current	Below 1 A	1 to 10 A	Over 10 A	Over 0.1 A

(Table - 1)

Table 1 shows us that gold should always be used for applications under 3 volts and 1 ampere. When the voltage is over 30 and amperage is over 1, tin plating can be used. The most difficult area to make a selection is in the undetermined zone. In this zone either gold or tin plating can be used, but

the environment causes extensive variation. In a clean environment tin plating is acceptable. However, use gold plating if the environment is bad, such as in high heat or humidity, the presence of gas is possible, vibration is extreme, mating and demating are excessive, or other factors.

**2) Selection based on number of contact positions (selection based on contact pressure)**

Selecting based on the number of contact positions is often forgotten. The higher the contact pressure the more possible it is to use tin plating or no plating, regardless of the voltage or current mentioned in section 1. However, if they are too high, mating and demating become impossible so the connector function is lost. To get around this, we can drive the voltage and current down into a workable zone, but then we run into the problem of oxidation. Then, to prevent oxidation, we use tin (approximately 2.94 N optimum contact pressure) or gold (approximately 1.18 N) plating. But, the contact pressure increases proportionally as we increase the number of contact positions, causing mating and demating to become difficult. Generally speaking, given a 39.2 N limit for mating/demating by hand, it becomes difficult without

using leverage, such as a lever or jack screw. The Dynamic D-3000 series has a maximum of 20 contact positions. That means the contact pressure with tin plating is 3.92 N, and with gold plating is 2.45 N and 1.47 N (high pressure types and standard types are available for some applications). For instance, given 3.92 N for tin plating, we can calculate insertion and extraction forces of 58.8 N and 49.0 N, which is difficult because it exceeds the range for barehanded work. Once we understand this, we see that as contact positions increase we must use gold plating regardless of the voltage and current conditions mentioned in section 1. Table 2 shows the applicable maximum number of contact positions as a reference.

Contact pressure	Applicable maximum number of contact positions
(1) Gold plating Standard contact pressure: 1.47N	20
(2) Gold plating High contact pressure: 2.45N	20
(3) Tin plating High contact pressure: 3.92N	12

(Table - 2) Note: Insertion force and extraction force are not the same as contact pressure.

**3) Environment (vibration, humidity, gas, etc.)**

Although the environment was discussed in section 1 about voltage and current, it is summarized again here. Use gold plating in a bad environment, particularly for high vibration or heat, the presence of gas or other bad conditions. Gold is a noble metal. This means that gold does not react easily with other materials, which means that its surface does not oxidize or tarnish when exposed to air. Of all metals, only gold has this property. Other metals, noble metals except

gold, such as platinum or rhodium for example, do not produce absolutely no oxide film. This is a very important property for contacts. In consideration of this, there is no better material than gold plating if the environment is bad. Also, if vibration is an issue, there is the risk of fretting corrosion (micro-abrasion). Always use gold plating. If possible, high-contact pressure connectors are recommended.

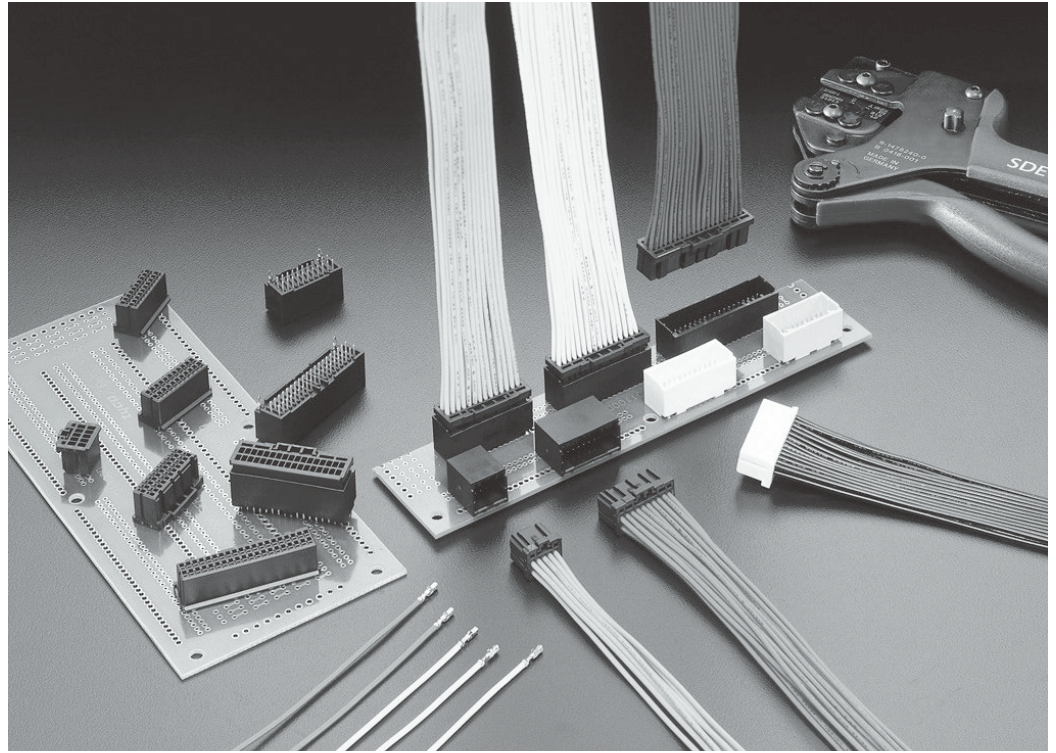


## D-1000 Series

### Series Introduction

D-1000 Series are the smallest connectors for signal lines among all the Dynamic connector series. The Dynamic 1000 Series consists of 3 different pitch sizes: 2.0mm standard type, 2.5mm high-voltage type and 3.5mm type.

D-1000 Series has gold plated contacts to maintain its high reliability and also tin plated contacts for economical market needs. Customers can choose their own contacts according to specifications, applications and cost.



### Product features

1. Wide Applicable Wire Range  
D-1000 series has wide applicable wire range of 30 AWG through 18 AWG with 2.2 mm of outside diameter maximum (D-1200/ D-1500). Therefore there are no special safety considerations using it in electrical cabinets.
2. Hand Tools are available for all wire sizes.  
It can save on delivery lead time and involve minimal installation tooling costs.
3. Housing and Contact Features
  - A) Housing products  
The D-1000 series consists of D-1100 series for 2.0mm pitch center line, D-1200 series for 2.5mm pitch center line as standard type. In addition, the D-1500 series and D-1900 series have a pitch of 3.5mm
  - B) Contact Products  
D-1000 series provide gold plating contact as standard products and also tin plating contact for economical market needs. You can choose the contact according to your own specifications, application, and quality level and cost, so that you can utilize D-1000 series in many places
4. Other Features (Basic Dynamic series features)
  - Header connector and tab connector have enough length from the tip of contact to top of its housing. To prevent contact from bending during mating
  - D-1000 series are provided with housing lance structure
  - Clear identification of circuit number helps with correct wiring
  - Metal retention leg on header prevents unwanted movement from cable tension
  - Housing lock design offers no wire scratching

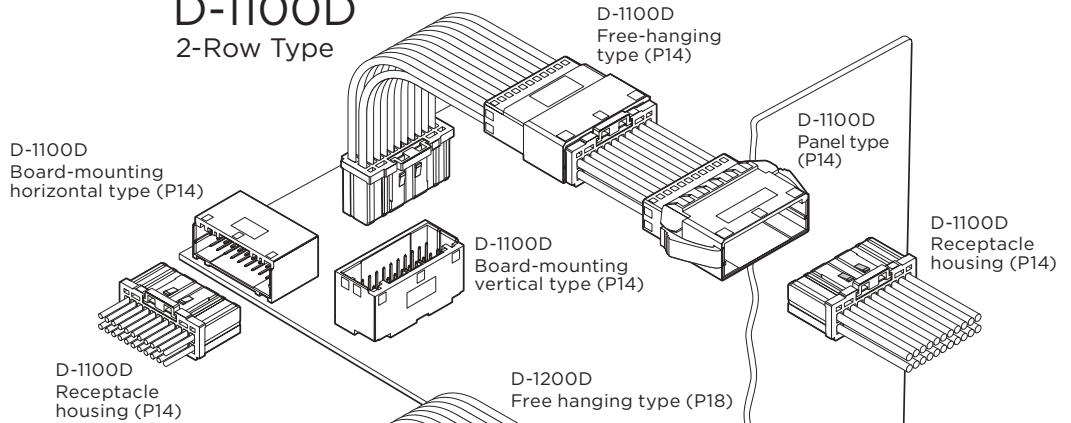
Note: All Part Numbers are RoHS compliant.

You need to confirm LOT size and lead time.

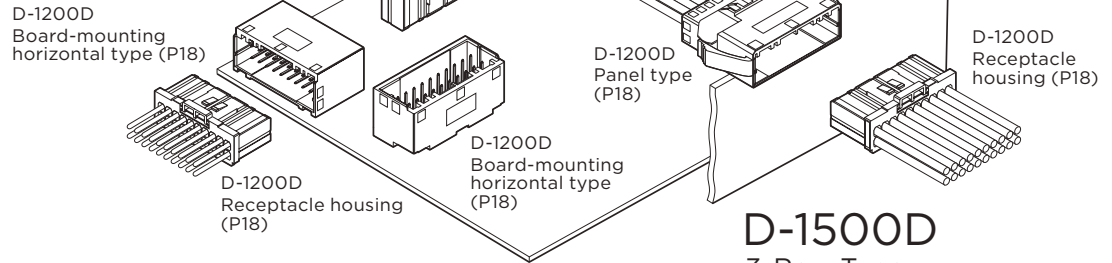
D-1000 Series Configurations

D-1000 Series

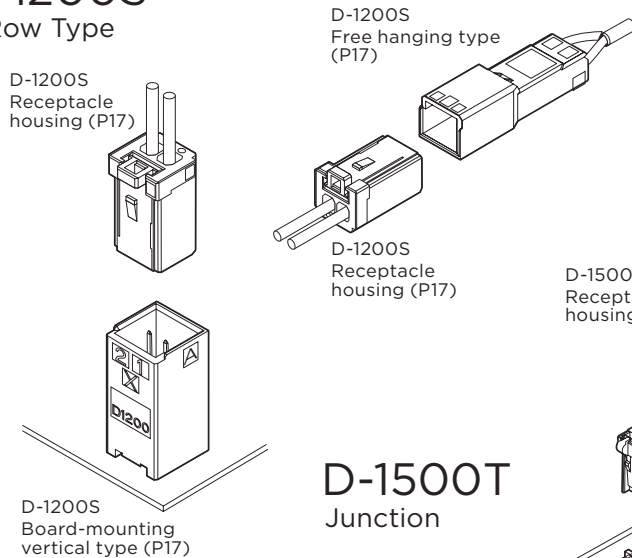
**D-1100D**  
2-Row Type



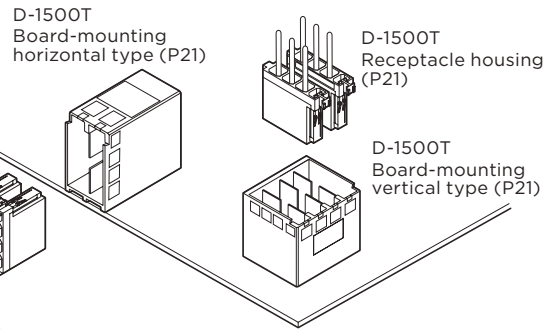
**D-1200D**  
2-Row Type



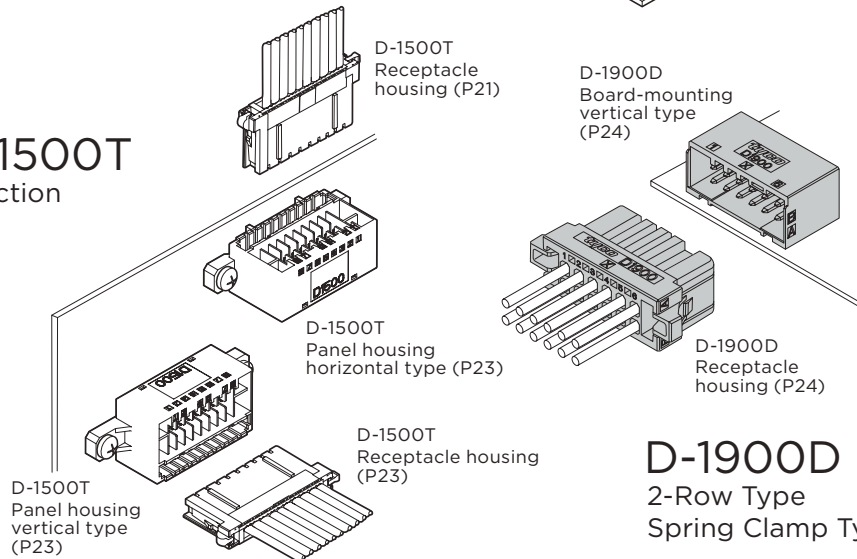
**D-1200S**  
1-Row Type



**D-1500D**  
3-Row Type



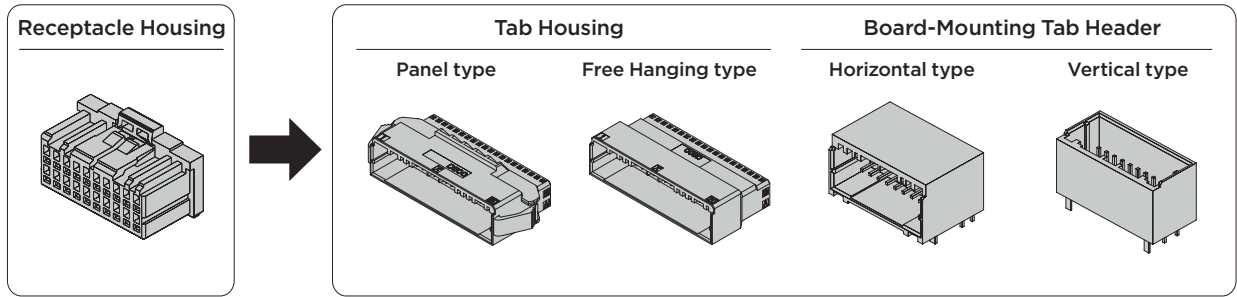
**D-1500T**  
Junction



**D-1900D**  
2-Row Type  
Spring Clamp Type

D-1100D 2-Row Standard Types

**Part Number Chart**



No. of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing		Board-Mounting Tab Header	
					Panel type	Free Hanging type	Horizontal type	Vertical type
10	Black	X	1-1827862-5	Gold	-	-	1-1827873-5	1-2040516-5
20	Black	X	1-1827862-0	Gold	-	-	1-1827873-0	-
22	Black	X	1-1827863-1	Gold	1-1903128-1	1-1903127-1	-	1-1827872-1
	Yellow	Y	3-1871057-1	Tin	-	-	-	3-1871056-1
26	Black	X	1-1827863-3	Gold	1-1903128-3	1-1903127-3	1-1939638-3	1-1827872-3
	Natural		1-1871057-3	Tin	-	-	-	1-1871056-3
	Black	Y	2-1827863-3	-	-	-	Pg 16 SMT Mate	
28	Black	X	1-1827863-4	Gold	1-1903128-4	1-1903127-4	1-1939638-4	1-1827872-4
30	Black	X	1-1827863-5	Gold	-	-	-	1-1827872-5
	Natural		-	Tin				-
32	Black	X	1-1827863-6	Gold	1-1903128-6	1-1903127-6	-	1-1827872-6
	Red		5-1871057-6	Tin	-	-	-	5-1871056-6
34	Black	X	1-1827863-7	Gold	1-1903128-7	1-1903127-7	1-1939638-7	1-1827872-7
	Black	Y	2-1827863-7	Gold	-	-	-	2-1827872-7
40	Black	X	1-1827863-0	Gold	1-1903128-0	1-1903127-0	1-1939638-0	1-1827872-0
				Tin			-	1-1871315-0
	Natural	X	1-1871057-0	Tin	-	-	-	1-1871056-0
	Yellow		3-1871057-0	Tin	-	-	-	3-1871056-0
	Red		5-1871057-0	Tin	-	-	-	5-1871056-0

**Related product information**

Application Contact ...P.13

Performance • Specifications ...P.11

Note: All Part Numbers are RoHS compliant.  
You need to confirm LOT and lead time.

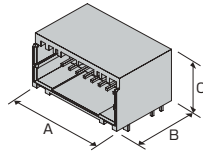


D-1100D 2-Row Standard Types

D-1000 Series

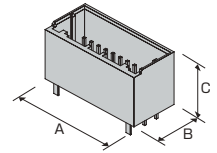
• Board-Mounting Tab Header

Horizontal type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
10	X	Gold	Black	1-1827873-5	12.6	15.0	11.8
20	X	Gold	Black	1-1827873-0	22.6	15.0	11.8
26	X	Gold	Black	1-1939638-3	28.6	15.0	11.8
28	X	Gold	Black	1-1939638-4	30.6	15.0	11.8
30	X	Tin	Yellow	-	32.6	15.0	11.8
34	X	Gold	Black	1-1939638-7	36.6	15.0	11.8
40	X	Gold	Black	1-1939638-0	42.6	15.0	11.8

Vertical type

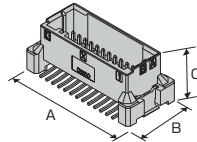


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
10	X	Gold	Black	1-2040516-5	12.6	11.3	12.5
22	X	Gold	Black	1-1827872-1	24.6	11.3	12.5
		Gold	Natural	-			
		Tin	Yellow	3-1871056-1			
26	X	Gold	Black	1-1827872-3	28.6	11.3	12.5
		Tin	Natural	1-1871056-3			
28	X	Gold	Black	1-1827872-4	30.6	11.3	12.5
		Tin	Red	-			
30	X	Gold	Black	1-1827872-5	32.6	11.3	12.5
		Tin	Black	-			
		Tin	Natural	1-1871056-5			
		Tin	Yellow	-			
32	X	Gold	Black	1-1827872-6	34.6	11.3	12.5
		Tin	Natural	-			
		Tin	Red	5-1871056-6			
34	X	Gold	Black	1-1827872-7	36.6	11.3	12.5
	Y	Gold	Black	2-1827872-7			
40	X	Gold	Black	1-1827872-0	42.6	11.3	12.5
		Tin	Black	1-1871315-0			
	X	Tin	Natural	1-1871056-0			
		Tin	Yellow	3-1871056-0			
		Tin	Red	5-1871056-0			

SMT Type

• Board-Mounting Tab Header

Vertical type



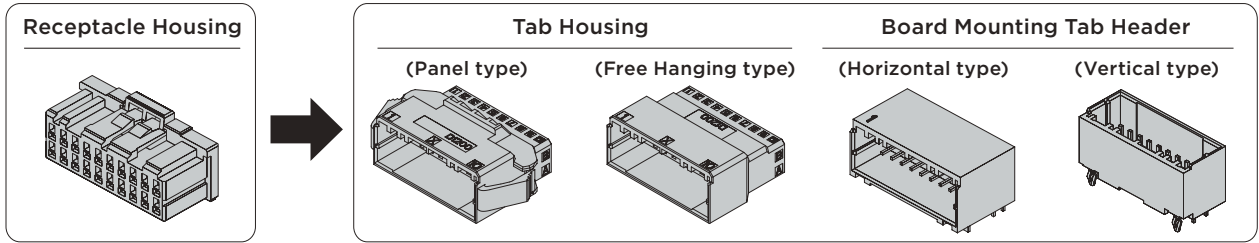
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
26	X	Gold	Black	1-1939995-3	34.6	16.3	13.5
	Y	Gold	Black	2-1939995-3			
40	X	Gold	Black	1-1939995-0	48.6	16.3	13.5
	Y	Gold	Black	2-1939995-0			

Note: All Part Numbers are RoHS compliant.  
You need to confirm LOT and lead time.

D-1200 Single Row/High Voltage Types

D-1000 Series

**Part Number Chart**



No of Pos.	Color	Keying	Part Number	Plating	Tab Housing		Board-Mounting Tab Header	
					Panel type	Free Hanging type	Horizontal type	Vertical type
4	Black	X	1-1827864-2	Gold Tin	1-1903131-2	1-1903130-2	1-1827876-2 1-1871673-2	1-1827875-2 -
	Natural		1-1939028-2	Gold	-	-	1-1939818-2	1-1939261-2
	Yellow		-	-	-	-	3-1939818-2	3-1939261-2
	Black	Y	2-1827864-2	Gold	-	-	2-1827876-2	2-1827875-2
	Natural		2-1939028-2	Gold	-	-	2-1939818-2	2-1939261-2
	Yellow		4-1939028-2	Gold	-	-	4-1939818-2	4-1939261-2
6	Black	X	1-1827864-3	Gold	1-1903131-3	1-1903130-3	1-1827876-3	1-1827875-3
	Black		-	Tin	-	-	-	1-2040558-3
	Natural		1-1939028-3	Gold	-	1-1939796-3	1-1939818-3	1-1939261-3
	Yellow	3-1939028-3	Gold	-	-	3-1939818-3	3-1939261-3	
	Black	Y	2-1827864-3	Gold	2-1903131-3	2-1903130-3	2-1827876-3	2-1827875-3
	Natural		2-1939028-3	Gold	-	2-1939796-3	2-1939818-3	2-1939261-3
Yellow	4-1939028-3		Gold	-	-	4-1939818-3	4-1939261-3	
8	Black	X	1-1827864-4	Gold	1-1903131-4	1-1903130-4	1-1827876-4	1-1827875-4
	Natural		1-1939028-4	Gold	-	-	1-1939818-4	1-1939261-4
	Black	Y	2-1827864-4	Gold	2-1903131-4	2-1903130-4	2-1827876-4	2-1827875-4
10	Black	X	1-1827864-5	Gold	-	-	-	1-1827875-5
	Natural		1-1939028-5	Gold	-	-	-	1-1939261-5
	Black	Y	2-1827864-5	Gold	-	-	-	2-1827875-5
12	Black	X	1-1827864-6	Gold	1-1903131-6	1-1903130-6	1-1827876-6	1-1827875-6
	Black			Tin			1-1871673-6	-
	Black	Y	2-1827864-6	Gold	-	-	2-1827876-6	2-1827875-6
20	Black	X	1-1827864-0	Gold	1-1903131-0	1-1903130-0	1-1827876-0	1-1827875-0
	Black	Y	2-1827864-0	Gold	2-1903131-0	2-1903130-0	2-1827876-0	2-1827875-0

**Related product information**

Application Contact ...P.13

Performance • Specifications ...P.11

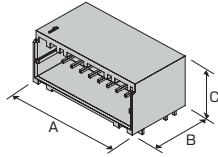
Note: All Part Numbers are RoHS compliant.  
You need to confirm LOT and lead time.

## D-1200D 2 Row High Voltage Types

D-1000 Series

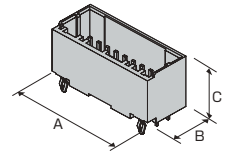
• Board-Mounting Tab Header

Horizontal types



No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
4	X	Gold	Black	1-1827876-2	7.6	15.0	11.8
		Tin	Black	1-1871673-2			
		Gold	Natural	1-1939818-2			
	Y	Gold	Yellow	3-1939818-2			
		Gold	Black	2-1827876-2			
		Gold	Natural	2-1939818-2			
6	X	Gold	Black	1-1827876-3	10.1	15.0	11.8
		Gold	Natural	1-1939818-3			
		Gold	Yellow	3-1939818-3			
	Y	Gold	Black	2-1827876-3			
		Gold	Natural	2-1939818-3			
		Gold	Yellow	4-1939818-3			
8	X	Gold	Black	1-1827876-4	12.6	15.0	11.8
	Y	Gold	Natural	1-1939818-4			
12	X	Gold	Black	1-1827876-6	17.6	15.0	11.8
	Y	Gold	Black	1-1827876-6			
20	X	Gold	Black	1-1827876-0	27.6	15.0	11.8
	Y	Gold	Black	2-1827876-0			

Vertical types

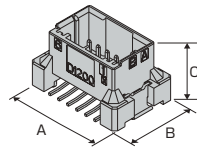


No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
4	X	Gold	Black	1-1827875-2	7.6	11.3	12.5
		Gold	Natural	1-1939261-2			
		Gold	Yellow	3-1939261-2			
	Y	Gold	Black	2-1827875-2			
		Gold	Natural	2-1939261-2			
		Gold	Yellow	4-1939261-2			
6	X	Gold	Black	1-1827875-3	10.1	11.3	12.5
		Tin	Black	1-2040558-3			
		Gold	Natural	1-1939261-3			
	Y	Gold	Yellow	3-1939261-3			
		Gold	Black	2-1827875-3			
		Gold	Natural	2-1939261-3			
8	X	Gold	Black	1-1827875-4	12.6	11.3	12.5
	Y	Gold	Natural	1-1939261-4			
10	X	Gold	Black	1-1827875-5	15.1	11.3	12.5
	Y	Gold	Natural	1-1939261-5			
12	X	Gold	Black	1-1827875-6	17.6	11.3	12.5
	Y	Gold	Black	2-1827875-6			
20	X	Gold	Black	1-1827875-0	27.6	11.3	12.5
	Y	Gold	Black	2-1827875-0			

## SMT Type

• Board-Mounting Tab Header

Vertical type



No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
12	X	Gold	Black	1-2013407-6	23.6	16.3	13.5

Note: All Part Numbers are RoHS compliant.  
You need to confirm LOT and lead time.

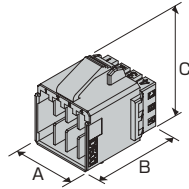


D-1500T Series 3-Row High Voltage Modular Type

D-1000 Series

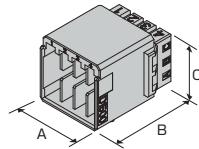
**External Dimensions**

- Tab Housing  
Panel type



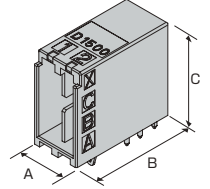
No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
6	X	-	Black	1-2040404-2	8.5	21.0	24.5
9	X	-	Black	1-2040404-3	12.0	21.0	24.5
12	X	-	Black	1-2040404-4	15.5	21.0	24.5
36	X	-	Black	3-2040404-2	43.5	21.0	24.5

- Tab Housing  
Free hanging type



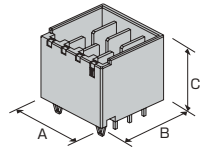
No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
3	X	-	Black	1-2040444-1	3.0	21.0	15.0
6	X	-	Black	1-2040444-2	6.5	21.0	15.0
9	X	-	Black	1-2040444-3	10.0	21.0	15.0
12	X	-	Black	1-2040444-4	13.5	21.0	15.0

- PCB Mounting Tab Header  
Horizontal type



No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
6	X	Gold	Black	1-1827583-2	8.1	17.5	15.1

- PCB Mounting Tab Header  
Vertical type



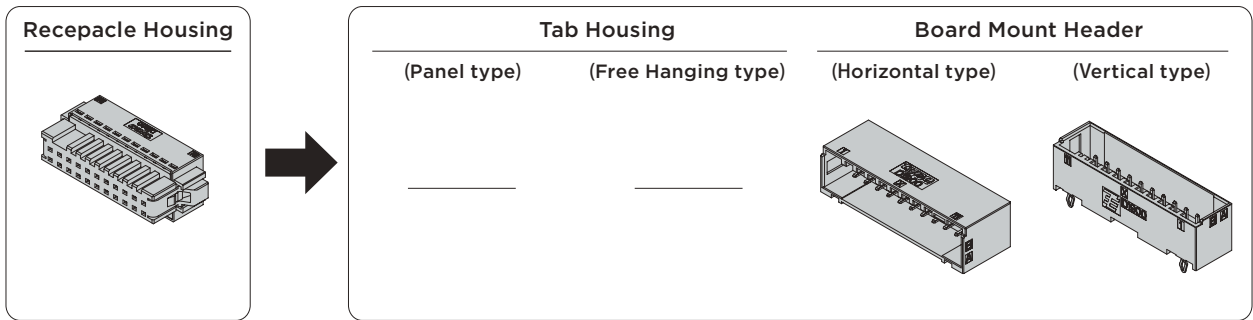
No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
3	X	Gold	Black	1-1827581-1	4.6	14.6	12.5
6	X	Gold	Black	1-1827581-2	8.1	14.6	12.5
9	X	Gold	Black	1-1827581-3	11.6	14.6	12.5
12	X	Gold	Black	1-1827581-4	15.1	14.6	12.5

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-1900D 2-Row Spring Clamp type

D-1000 Series

Part Number Chart

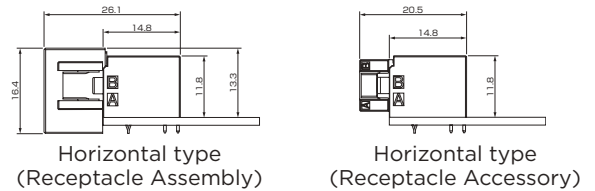


No. of Pos.	Color	Keying	Receptacle Assembly	Tab Housing		Board Mount Header	
			Spring Clamp	Panel type	Free Hanging type	Horizontal type	Vertical type
8	Black	X	1-1871940-4	-	-	1-1871935-4	1-2013325-4
12	Black	X	1-1871940-6	-	-	1-1871935-6	1-2013325-6
16	Black	X	1-1871940-8	-	-	1-1871935-8	-
22	Black	X	2-1871940-1	-	-	2-1871935-1	2-2013325-1
30	Black	X	2-1871940-5	-	-	2-1871935-5	-
38	Black	X	2-1871940-9	-	-	2-1871935-9	-

Related product information

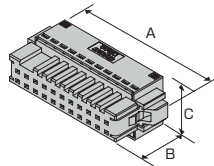
Application Contact ...P.13  
Performance • Specifications ...P.11

Mating Dimension



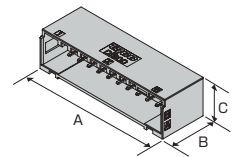
External Dimensions

- Receptacle Assembly (Spring Clamp)



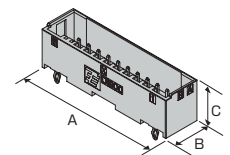
No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
8	X	Gold	Black	1-1871940-4	25.2	20.6	16.4
12	X	Gold	Black	1-1871940-6	32.2	20.6	16.4
16	X	Gold	Black	1-1871940-8	39.2	20.6	16.4
22	X	Gold	Black	2-1871940-1	49.7	20.6	16.4
30	X	Gold	Black	2-1871940-5	63.7	20.6	16.4
38	X	Gold	Black	2-1871940-9	77.7	20.6	16.4

- Bound Mount Header Horizontal type



No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
8	X	Gold	Black	1-1871935-4	19.8	14.8	11.8
12	X	Gold	Black	1-1871935-6	26.8	14.8	11.8
16	X	Gold	Black	1-1871935-8	33.8	14.8	11.8
22	X	Gold	Black	2-1871935-1	44.3	14.8	11.8
30	X	Gold	Black	2-1871935-5	58.3	14.8	11.8
38	X	Gold	Black	2-1871935-9	72.3	14.8	11.8

- Vertical type



No. of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
8	X	Gold	Black	1-2013325-4	20.2	11.5	12.5
12	X	Gold	Black	1-2013325-6	26.8	11.5	12.5
22	X	Gold	Black	2-2013325-1	44.3	11.5	12.5

You need to confirm LOT and lead time

D-2000 Series Performance Specifications and Standards

D-2000 Series

**Performance Specifications**

Item	2100S/D	2100M	2600D
Pitch	2.5mm		
Current Rating	5A max	2.6A max	3.2A max
Voltage Rating	250V AC/DC		
Dielectric Withstanding Voltage	1500V AC	2300V AC	1500V AC
Total Resistance	5mΩ max (initial) 10mΩ max (final)		
Insertion Strength	4.9N max (per pole)		
Withdrawal strength	0.29N max (per pole)		
Durability	500 times		
Lock Strength	39.2N min	-	98N min

**No. of Pos/Wire size/Current rating** D-2100S/D value

No. of pos	Wire size					
	#18	#20	#22	#24	#26	#28
3	5	4.5	4.3	3.3	2.9	2.3
6	5	4.2	4	2.7	2.5	2
8	4.5	4	3.5	2.5	2.2	1.8
12	4	3.5	3	2.3	1.9	1.5
16	3.2	2.8	2.4	2	1.6	1.2
20	3.2	2.8	2.4	2	1.6	1.2

**Product Specifications Manual Materials & Construction**

Series name	D-2100S/D	D-2100M	D-2600D
Product standards	108-5619	108-5659	108-78301
Application Spec	114-5258		
Instruction Sheet (Hand Tool)	411-5897		
Instruction Sheet (Extraction Tool PN)	411-5900 (1276716-1)		

Please refer to the standards on P. 35 for the D-3000 contact used in D-2600D  
Please refer to the manual when using the product. An e-Catalogue is also available for download from the Internet.

**Materials and Plating**

Category	Material	Completion
Receptacle Contact Tab Contact	Copper alloy	Nickel undercoat gold plating (0.38μm)
Board side Tab post	Copper alloy	Tin plating and nickel undercoat gold plating (0.38μm)
Housing	UL94V-0 glass-reinforced thermoplastic PBT	

**Safety Standards**

The following safety standards have been approved depending on model number. Please check each model number to see if it has been approved or not. Also, please be aware that these may not match TE's own performance specifications.

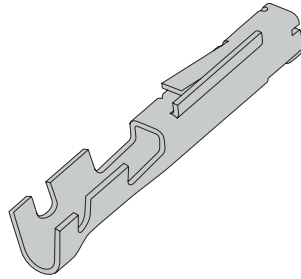
Standards	Series	D-2100 series			D-2100M drawer type		
		Current Rating	Voltage rating	Temperature rating	Current rating	Voltage rating	Temperature rating
Product standards 108-5619 general 108-5659 drawer type		250V AC/DC	5A 1 pole	-55°C-+105°C	250V AC/DC	2.6A AWG#20 hours 50 pole load	-5°C-+105°C
UL File No.E28476		Determined according to the requirements of the machine in use	Determined according to the requirements of the machine in use	-	Determined according to the requirements of the machine in use	Determined according to the requirements of the machine in use	-
CSA Report No. LR 7189		250V AC/DC	AWG#24-#28: 3.3A AWG#18-#22: 5A	-	250V AC/DC	max 5A per pole	-
TÜV License No. R 9950679		125V AC/DC	5A	-55°C-+105°C	125V AC/DC	max 5A per pole	-5°C-+105°C



D-2000 Series Contact

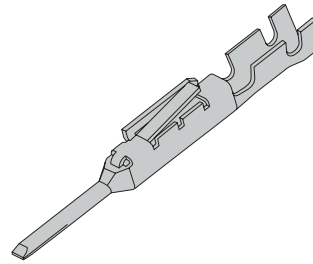
D-2000 Series

- Crimped type (gold plating thickness 0.38 μ m)



Receptacle Contact

- used in receptacle housing



Tab Contact

- used in tab housing

Applicable Wiring Range		Insulation Wire Outer Diameter mm	Wire Range Mark	Contact Part Number				Applicable Tool Part Number	
				Receptacle Contact		Tab Contact		Hand Tool	Mini Applicator
AWG	mm <sup>2</sup>			Strip Form	Loose Piece	Strip Form	Loose Piece		
28	0.09	0.88-1.3	S	1318106-1	1318108-1	1318110-1	1318112-1	91576-1	2151240-1
26	0.12								
24	0.20	1.11-1.43							
22	0.30	1.26-1.8	M	1318105-1	1318107-1	1318109-1	1318111-1	91595-1	2151071-1
20	0.50								
18	0.85	1.79-1.9							

Note: When placing your order, please check with the confirmed sales slots.  
Please contact our sales department or purchase distributor for more information.

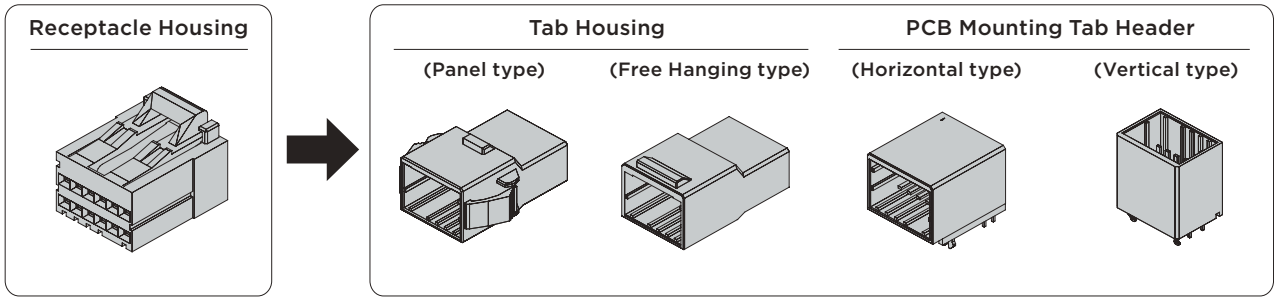
For mini applicator, please contact with the sales department.

The receptacle contact can be used in all receptacle housings, the tab contact can be used in all tab housings.  
Details of the applicable tools are available from P. 107

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-2100D 2-Row Standard Type

Part Number Chart



D-2000 Series

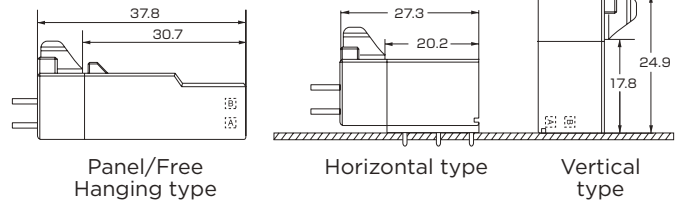
No of Pos.	Color	Keying	Receptacle Housing	Plating	Tab Housing		PCB Mounting Tab Header	
					Panel Type	Free Hanging type	Horizontal type	Vertical type
6	Black	X	1-1318119-3	Gold	1-1318114-3	1-1318115-3	1376136-1	1318124-1
	Black	Y	2-1318119-3	Gold	2-1318114-3	2-1318115-3	1376136-2	1318124-2
8	Black	X	1-1318119-4	Gold	1-1318114-4	1-1318115-4	1376009-1	1318125-1
	Black	Y	2-1318119-4	Gold	2-1318114-4	2-1318115-4	1-1376009-1*	1-1318125-1*
12	Black	X	1-1318118-6	Gold	1-1318114-6	1-1318115-6	1376020-1	1318125-2
	Black	Y	2-1318118-6	Gold	2-1318114-6	-	1376020-2	1-1318125-2*
	Black	Z	3-1318118-6	Gold	-	-	-	1318126-1
16	Black	X	1-1318118-8	Gold	-	-	-	1-1318126-1*
	Black	Y	2-1318118-8	Gold	-	-	-	1318126-2
20	Black	X	1-1318118-9	Gold	1-1318114-9	1-1318115-9	1376137-1	1-1318126-2*
	Black	Y	2-1318118-9	Gold	2-1318114-9	2-1318115-9	1376137-2	1318126-3
	Black	Y	2-1318118-9	Gold	2-1318114-9	2-1318115-9	1376137-2	1318127-1

\* sequential type

Related product information

Application Contact ...P.28  
 Performance • Specifications ...P.26

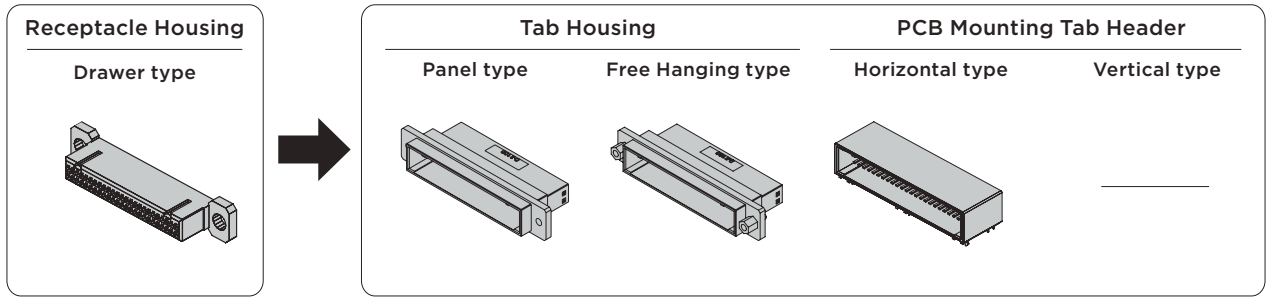
Mating Dimension



NOTE: All products are RoHS compliant On selection.  
 You need to confirm LOT and lead time

D-2100M 2-Row Standard Multiposition Type (drawer)

Part Number Chart

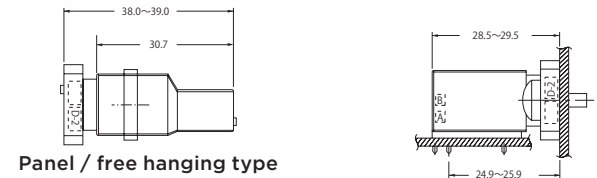


No. of Pos.	Color	Keying	Receptacle Housing		Plating	Tab Housing		PCB Mounting Tab Header	
			Type	Models Number		Panel type	Free Hanging type	Horizontal type	Vertical type
50	Black	-	Drawer	1318577-1	Gold	1318578-1 1318578-2 with nut	-	1318579-1	-
	Black	-	Drawer with screw	1376072-2	-	-	1376073-2	-	-

Related product information

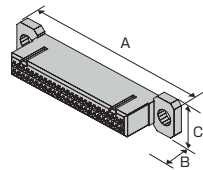
Application Contact ...P.28  
 Performance • Specifications ...P.26  
 Accessories ...P.112

Mating Dimension



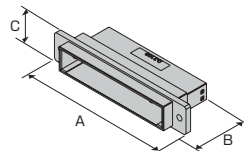
External dimension

- Receptacle Housing
- Receptacle Housing (With Screw)



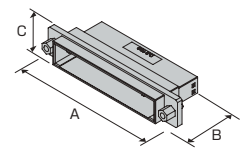
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
50	-	-	Black	1318577-1	88.5	20.0	16.6
50	-	-	Black	1376072-2	88.5	32.0	16.6

- Tab Housing
- Panel type



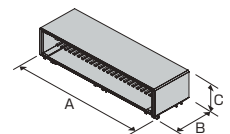
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
50	-	-	Black	1318578-1	86.1	30.7	15.9
	-	-	Black	1318578-2 (with nut)			

- Receptacle Assembly (With Screw)
- Free Hanging type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
50	-	-	Black	1376073-2	86.1	30.7	15.9

- PCB Mounting Tab Header
- Horizontal type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
50	-	Gold	Black	1318579-1	68.5	21.1	15.4

NOTE: All products are RoHS compliant On selection.  
 You need to confirm LOT and lead time

## D-3000 Series

### Series Introduction

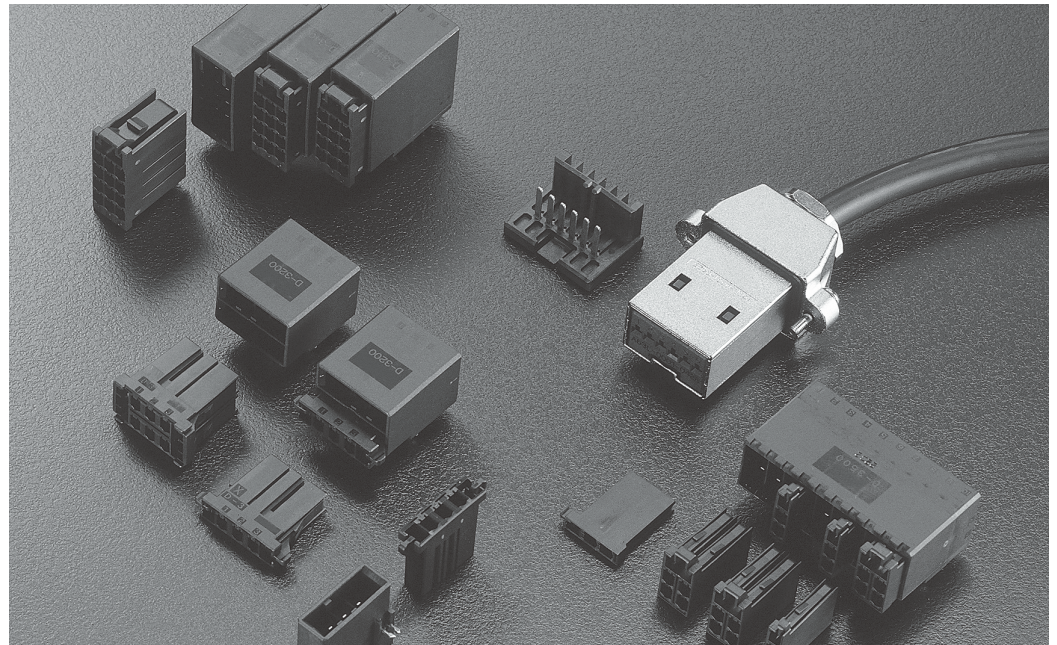
The 3000 series is the main Dynamic Series. They are widely used as industrial 'signal' and 'power' connectors.

Pin layout comes in three types: standard 3.81mm pitch high voltage, 5.08mm pitch type and 7.5mm spring clamp pitch type.

The former one is used for signal circuits and the latter two are for high-voltage circuits.

For power source usage, it meets recent demands for small size and high power due to the increasing miniaturisation of the machinery, and the newly developed copper alloy, which can carry a higher current of 15A per pole despite its small size.

This concept is based on the development 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 terminals fit all the 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.

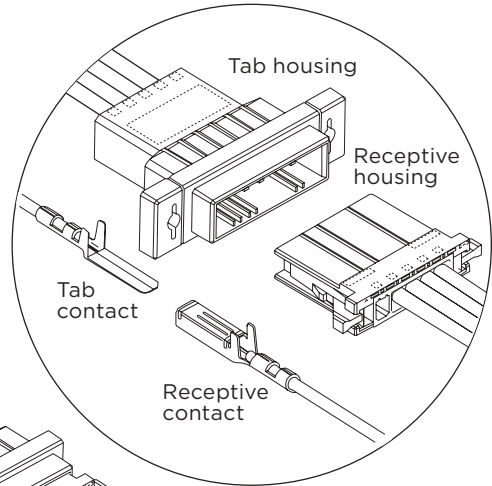


### Product Features

- An anti-twist structure developed for the motor industry will lead to the release of our anti-twist receptacle contact box structure. The box contact has 3 points of contact and gives stable reliability in a real-world environment.
- 3 Plating types are available depending on applications, to meet the customer's cost, performance requirements and applications. Under a normal environment with few insertions and withdrawals tin plating can be used, where there is a large number of insertions and withdrawals then gold plating 0.38 μm thick should be used. Further where the environment is deleterious then gold plating at 0.76 μm thick can be selected.
- 2 types of contact pressures are available depending on application: standard Contact pressure for withstanding a large number of insertions and withdrawals or other extreme environments, and high Contact pressure for vibration prone applications.
- High Current  
Despite its small size, it conducts up to 15A (at a maximum temperature of 30°C). The latest developed copper alloy adds to the reliability of the 3-point contact structure.
- Audible Latching  
When mating, a clear 'lock' sound and vibration will be felt by the assembler, that can prevent working 'blind' mis-mating (or halfmating) problems.
- Keying  
The housing provides a keying (slit), hence mis-matings can be prevented by using the X and Y keys separately. At the same time, the keying plug can be used to create new key patterns.

D-3000 Series Applications List

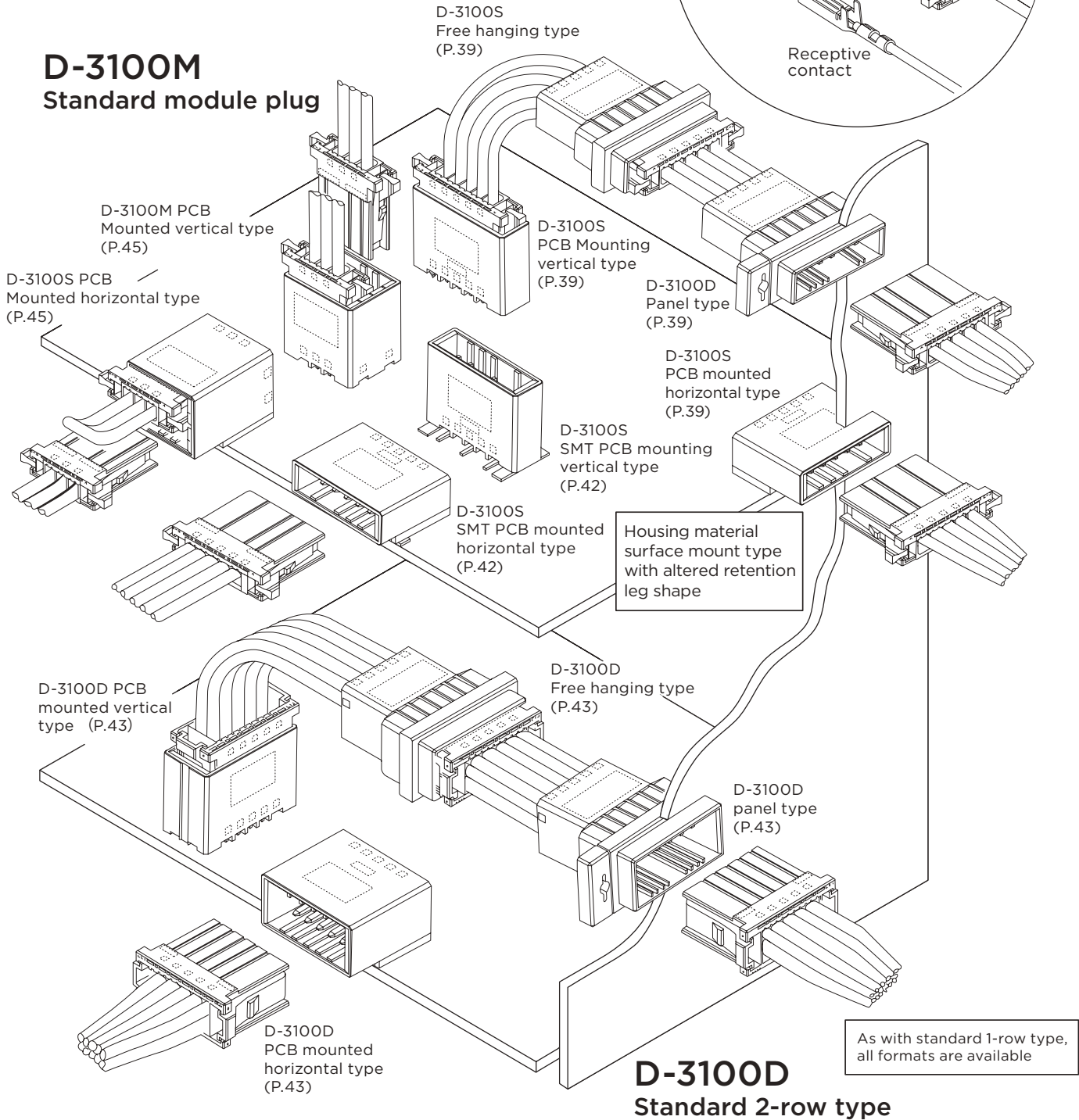
Applicable to both signal circuit and power supply circuit carrying a maximum current of 15A per pole, a full lineup is available from Wire-to-Wire panel type and free hanging type, to Wire-to-Board horizontal and vertical type.



**D-3100S**  
Standard 1-row type

**D-3100M**  
Standard module plug

D-3000 Series



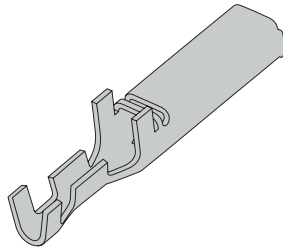
As with standard 1-row type, all formats are available



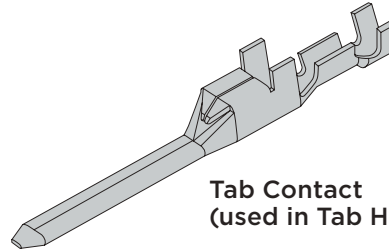
D-3000 Series D-3 Contact and Applicable Tools

- Crimped types

**Receptacle Contact  
(used in Receptacle  
Housing)**



**Tab Contact  
(used in Tab Housing)**



Applicable Wiring Range		Wire Insulation outer diameter mm ※1	Wire Range Mark	Contact Part Number					Applicable Tool Product Number	
AWG	mm <sup>2</sup>			Receptacle Contact			Tab Contact		Hand Tool CCII Hand Tool PEW12 Hand Tool* PEW12 dice only	Mini Applicator
		Strip Form	Loose Piece	Strip form	Loose Piece					
28 26	0.08 0.12	0.8-1.2	S	Standard Contact pressure (gold plating only)	175194-□	175216-□	175284-□	175287-□	91565-1	2088631-2
24	0.20	1.0-1.4		High Contact pressure	1-175194-□	1-175216-□	175287-□			
24 22 20	0.20 0.30 0.50	1.2-1.6 1.7-2.6	M	Standard Contact pressure (gold plating only)	175195-□	175217-□	175285-□	175288-□	91559-1 1762954-1* 1762955-1	2151080-1
				High Contact pressure	1-175195-□	1-175217-□	175288-□			
20 18	0.50 0.85	1.8-2.8	L	Standard Contact pressure (gold plating only)	175196-□	175218-□	175286-□	175289-□	91558-1 1762956-1* 1762957-1	2151018-1
16	1.25	2.2-2.8		High Contact pressure	1-175196-□	1-175218-□	175289-□			
16 14	1.25 2.20	2.2-2.8	2L	Standard Contact pressure (gold plating only)	917484-□	917511-□	917485-□	917512-□	91560-1	1426353-2
				High Contact pressure	1-917484-□	1-917511-□	917512-□			
16 14	1.25 2.20	3.1-3.3 3.3-3.8	3L	Standard Contact pressure (gold plating only)	353715-□	353717-□	353716-□	353718-□	91561-1	2151073-1
				High Contact pressure	1-353715-□	1-353717-□	353718-□			

Reference: plating code

- 2:0.38 μ m thickness gold plating
- 3:0.76 μ m thickness gold plating
- 5: tin plating (high Contact voltage type only)

Please contact our sales department or authorized distributor for more information. For mini applicator, please contact our sales department

The strip form contact is for use with mini applicator (bench machine) while the loose piece contact is for use with hand tools.

※ 1 insulated covering diameter is for loose connectors For connected type please refer to 114-5148 PEW12 is a die-exchangeable hand tool. \* with die. product number of the handle only is 9-1478240-0

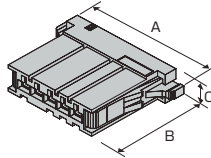
The receptacle contact can be used in all receptacle housings, while the tab contact can be used in all tabs housings Details of the applicable tool are available from P. 107

NOTE: all products are RoHS compliant On selection.You need to confirm LOT and lead time

D-3100S 1-Row Standard Types

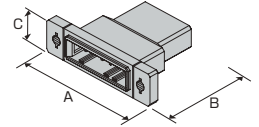
External Dimension

- Receptacle Housing



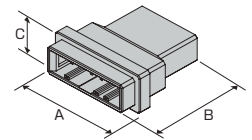
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	-	Black	1-178288-3	26.8	22.8	7.2
	Y	-	Black	2-178288-3			
4	X	-	Black	1-178288-4	30.6	22.8	7.2
	Y	-	Black	2-178288-4			
5	X	-	Black	1-178288-5	34.4	22.8	7.2
6	X	-	Black	1-178288-6	38.2	22.8	7.2
	Y	-	Black	2-178288-6			
8	X	-	Black	1-178288-7	45.8	22.8	7.2
10	X	-	Black	1-178288-8	53.4	22.8	7.2
	Y	-	Black	2-178288-8			

- Tab Housing  
Panel type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	-	Black	1-178802-3	40.0	33.6	12.7
	Y	-	Black	2-178802-3			
5	X	-	Black	1-178802-5	47.0	33.6	12.7
8	X	-	Black	1-178802-7	59.0	33.6	12.7
10	X	-	Black	1-178802-8	67.0	33.6	12.7
	Y	-	Black	2-178802-8			

- Free Hanging type

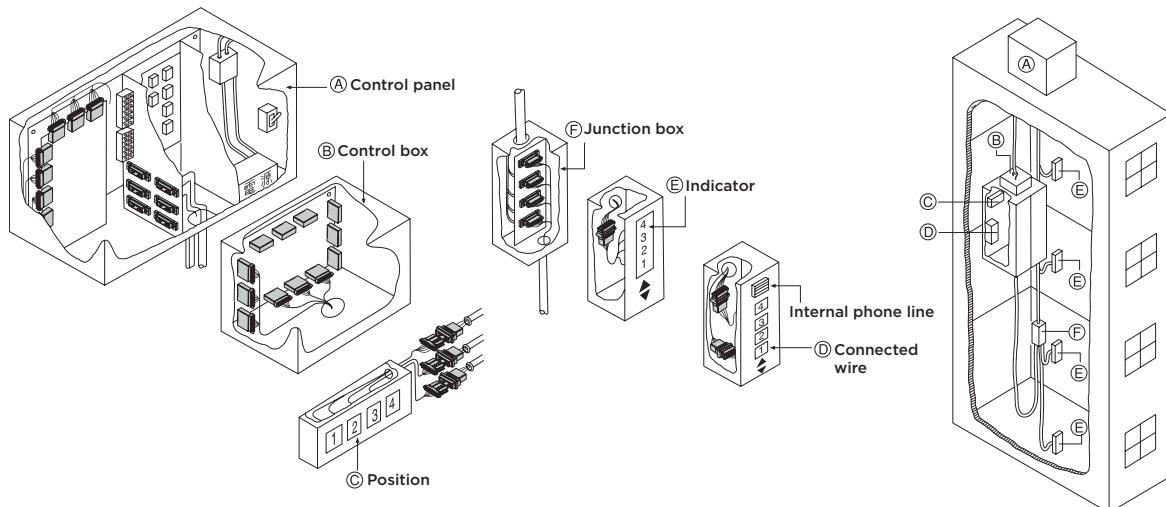


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	-	Black	1-177648-3	25.6	33.6	12.7
	Y	-	Black	2-177648-3			
5	X	-	Black	1-177648-5	33.2	33.6	12.7
8	X	-	Black	1-177648-7	44.6	33.6	12.7
10	X	-	Black	1-177648-8	52.2	33.6	12.7
	Y	-	Black	2-177648-8			

D-3000 Series

Applications

Example of elevator applications

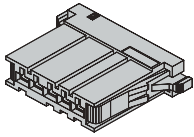


NOTE: All products are RoHS compliant On selection. You need to confirm LOT and lead time

D-3100S SMT Types

Part Number Chart

Receptacle Housing



Tab Housing

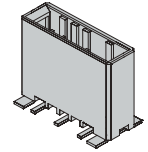
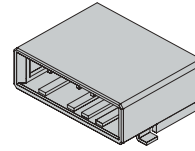
(Panel type)

(Free Hanging type)

PCB Mounting Tab Header

(Horizontal type)

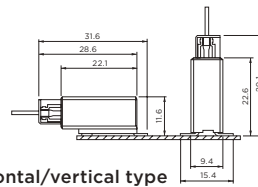
(Vertical type)



No of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing		PCB Mounting Tab Header	
					Tab Housing	Free Hanging type	Horizontal type	Vertical type
5	Black	X	1-178288-5	Gold	-	-	1-177662-2	1-177665-2
8	Black	X	1-178288-7	Gold	-	-	1-179188-2	-
					-	-	1-179188-3	

D-3000 Series

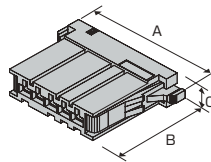
Mating Dimension



horizontal/vertical type

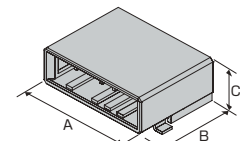
External Dimension

• Receptacle Housing



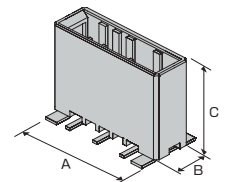
No of Pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
5	X	-	Black	1-178288-5	34.4	22.8	7.2
8	X	-	Black	1-178288-7	45.8	22.8	7.2

• PCB Mounting Tab Header  
Horizontal type



No. of pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
5	X	Gold	Black	1-177662-2	29.2	22.1	11.6
8	X	Gold	Black	1-179188-2	40.7	22.1	11.6
		Gold	Black	1-179188-3			

Vertical type



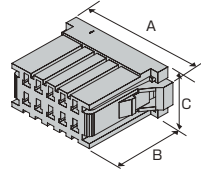
No. of pos.	Keying	Plating	Color	Part number	Dimensions		
					A	B	C
5	X	Gold	Black	1-177665-2	29.2	9.4	22.6

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-3100D 2-Row Standard Type

External Dimension

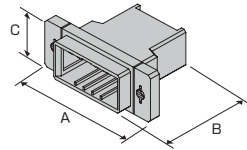
- Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	-	Black	178289-3	24.4	22.8	12.5
8	X	-	Black	178289-4	28.2	22.8	12.5
10	X	-	Black	178289-5	32.0	22.8	12.5
12	X	-	Black	178289-6	35.8	22.8	12.5
16	X	-	Black	178289-7	42.7	22.8	12.5
20	X	-	Black	178289-8	51.0	22.8	12.5

- Tab Housing

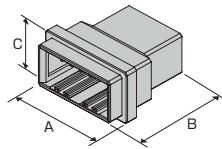
Panel type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	-	Black	178803-3	40.0	33.6	17.8
10	X	-	Black	178803-5	47.0	33.6	17.8
12	X	-	Black	178803-6	51.0	33.6	17.8
16	X	-	Black	178803-7	59.0	33.6	17.8
20	X	-	Black	178803-8	67.0	33.6	17.8

- Tab Housing

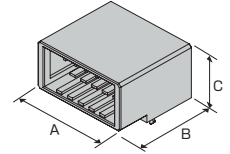
Free Hanging type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	-	Black	178964-3	25.6	33.6	17.8
8	X	-	Black	178964-4	29.4	33.6	17.8
10	X	-	Black	178964-5	33.2	33.6	17.8
12	X	-	Black	178964-6	37.0	33.6	17.8
16	X	-	Black	178964-7	44.6	33.6	17.8
20	X	-	Black	178964-8	52.2	33.6	17.8

- PCB Mounting Tab Header

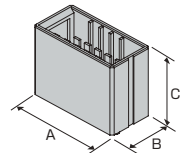
Horizontal type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	Gold	Black	178303-2	21.6	25.9	15.9
	X	Gold	Black	178303-3			
	X	Tin	Black	178303-5			
8	X	Gold	Black	1717412-2	25.4	25.9	15.9
	X	Gold	Black	1717412-3			
10	X	Gold	Black	178305-2	29.2	25.9	15.9
	X	Gold	Black	178305-3			
	X	Tin	Black	178305-5			
12	X	Gold	Black	178306-2	33.1	25.9	15.9
	X	Gold	Black	178306-3			
	X	Tin	Black	178306-5			
16	X	Gold	Black	178307-2	40.7	25.9	15.9
	X	Gold	Black	178307-3			
	X	Tin	Black	178307-5			
20	X	Gold	Black	178308-2	48.3	25.9	15.9
	X	Gold	Black	178308-3			
	X	Tin	Black	178308-5			

- PCB Mounting Tab Header

Vertical type

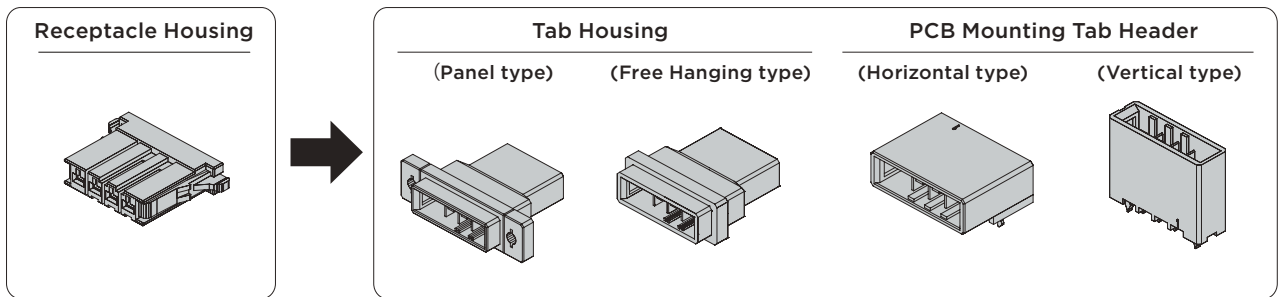


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	Gold	Black	178323-2	21.6	14.4	21.6
	X	Gold	Black	178323-3			
	X	Tin	Black	178323-5			
8	X	Gold	Black	1903601-2	25.4	14.4	21.6
	X	Tin	Black	1903601-5			
10	X	Gold	Black	178325-2	29.2	14.4	21.6
	X	Gold	Black	178325-3			
12	X	Tin	Black	178325-5	33.1	14.4	21.6
	X	Gold	Black	178326-2			
	X	Gold	Black	178326-3			
16	X	Tin	Black	178326-5	40.7	14.4	21.6
	X	Gold	Black	178327-2			
	X	Gold	Black	178327-3			
20	X	Tin	Black	178327-5	48.3	14.4	21.6
	X	Gold	Black	178328-2			
	X	Gold	Black	178328-3			
	X	Tin	Black	178328-5			

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-3200S 1 Row High Voltage Type

Part Number Chart



D-3000 Series

No. of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing			PCB Mounting Tab Header		
					Panel Type	Free Hanging Type	L Bracket bracket	Horizontal	Vertical type	
2	Black	X	1-178128-2	Gold	1-179553-2	1-179552-2	S	1-179276-2	1-917337-2	
				Gold				1-179276-3	1-917337-3	
				Tin				1-179276-5	1-917337-5	
	Black	Y	2-178128-2	Gold	2-179553-2	2-179552-2	S	2-179276-2	2-917337-2	
				Gold				2-179276-3	2-917337-3	
				Tin				-	2-917337-5	
3	Black	X	1-178128-3	Gold	1-179553-3	1-179552-3	S	1-178138-2	1-178136-2	
				Gold				1-178138-3	1-178136-3	
				Tin				1-178138-5	1-178136-5	
	Black	Y	2-178128-3	Gold	2-179553-3	2-179552-3	S	2-178138-2	2-178136-2	
				Gold				2-178138-3	2-178136-3	
				Tin				2-178138-5	2-178136-5	
	Black	Z	3-178128-3	Tin	-	-	-	-	3-178136-5	
	4	Black	X	1-178128-4	Gold	1-179553-4	1-179552-4	S	1-179277-2	1-917338-2
					Gold				1-179277-3	1-917338-3
Tin					1-179277-5				1-917338-5	
Black		Y	2-178128-4	Gold	2-179553-4	2-179552-4	S	2-179277-2	2-917338-2	
				Gold				2-179277-3	2-917338-3	
				Tin				2-179277-5	2-917338-5	
5	Black	X	1-178128-5	Gold	-	-	-	1-316130-2	1-316132-2	
				Gold				1-316130-3	1-316132-3	
				Tin				1-316130-5	1-316132-5	
	Black	Y	2-178128-5	Gold	-	-	-	-	2-316132-2	
				Gold				2-316130-3	2-316132-3	
				Tin				-	-	
6	Black	X	1-178128-6	Gold	-	-	-	1-316131-2	1-316133-2	
				Gold				1-316131-3	1-316133-3	
				Tin				1-316131-5	1-316133-5	
	Black	Y	2-178128-6	Gold	-	-	-	2-316131-2	2-316133-2	
				Gold				-	2-316133-3	
				Tin				-	-	

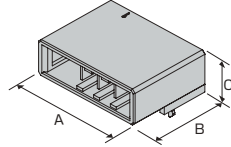
Related product information

Application Contact ...P.38  
 Performance • Specifications ...P.35  
 Accessories ...P.110, 112

NOTE: All products are RoHS compliant On selection.  
 You need to confirm LOT and lead time

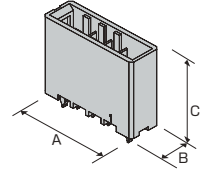
D-3200S 1 Row High Voltage Types

- PCB Mounting Tab Header  
Horizontal type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	Gold	Black	1-179276-2	19.1	22.1	10.9
		Gold	Black	1-179276-3			
		Tin	Black	1-179276-5			
	Y	Gold	Black	2-179276-2			
		Gold	Black	2-179276-3			
		Gold	Black	2-179276-4			
3	X	Gold	Black	1-178138-2	24.2	22.1	10.9
		Gold	Black	1-178138-3			
		Tin	Black	1-178138-5			
	Y	Gold	Black	2-178138-2			
		Gold	Black	2-178138-3			
		Tin	Black	2-178138-5			
4	X	Gold	Black	1-179277-2	29.2	22.1	10.9
		Gold	Black	1-179277-3			
		Tin	Black	1-179277-5			
	Y	Gold	Black	2-179277-2			
		Gold	Black	2-179277-3			
		Tin	Black	2-179277-5			
5	X	Gold	Black	1-316130-2	34.3	22.1	10.9
		Gold	Black	1-316130-3			
		Tin	Black	1-316130-5			
Y	Gold	Black	2-316130-3				
6	X	Gold	Black	1-316131-2	39.4	22.1	10.9
		Gold	Black	1-316131-3			
		Tin	Black	1-316131-5			
	Y	Gold	Black	2-316131-2			
		Gold	Black	2-316131-3			
		Gold	Black	2-316131-4			

- PCB Mounting Tab Header  
Vertical type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	Gold	Black	1-917337-2	19.1	9.4	21.6
		Gold	Black	1-917337-3			
		Tin	Black	1-917337-5			
	Y	Gold	Black	2-917337-2			
		Gold	Black	2-917337-3			
		Tin	Black	2-917337-5			
3	X	Gold	Black	1-178136-2	24.2	9.4	21.6
		Gold	Black	1-178136-3			
		Tin	Black	1-178136-5			
	Y	Gold	Black	2-178136-2			
		Gold	Black	2-178136-3			
		Tin	Black	2-178136-5			
Z	Tin	Black	3-178136-5				
4	X	Gold	Black	1-917338-2	29.2	9.4	21.6
		Gold	Black	1-917338-3			
		Tin	Black	1-917338-5			
	Y	Gold	Black	2-917338-2			
		Gold	Black	2-917338-3			
		Tin	Black	2-917338-5			
5	X	Gold	Black	1-316132-2	34.3	9.4	21.6
		Gold	Black	1-316132-3			
		Tin	Black	1-316132-5			
	Y	Gold	Black	2-316132-2			
		Gold	Black	2-316132-3			
		Gold	Black	2-316132-4			
6	X	Gold	Black	1-316133-2	39.4	9.4	21.6
		Gold	Black	1-316133-3			
		Tin	Black	1-316133-5			
	Y	Gold	Black	2-316133-2			
		Gold	Black	2-316133-3			
		Gold	Black	2-316133-4			

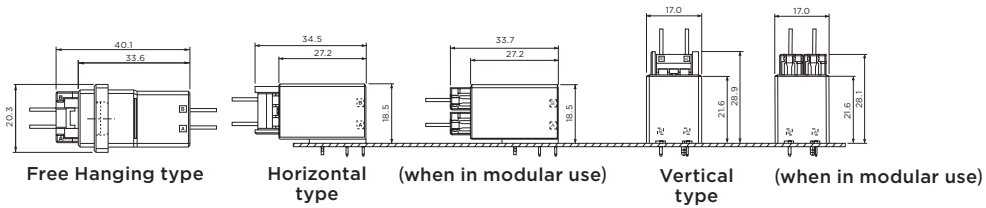
D-3000 Series

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time



D-3200M 2-Row High Voltage Modular Types

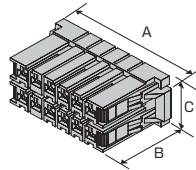
Mating Dimension



D-3000 Series

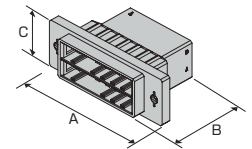
External Dimension

• Receptacle Housing



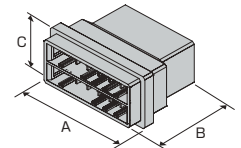
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	-	Black	1-178129-6	27.3	22.8	14.8
	YY	-	Black	2-178129-6			
	XY	-	Black	3-178129-6			
10	XX	-	Black	1-917659-5	37.5	22.8	14.8
	YY	-	Black	2-917659-5			
	XY	-	Black	3-917659-5			
12	XX	-	Black	1-917659-6	42.5	22.8	14.8
	YY	-	Black	2-917659-6			
	XY	-	Black	3-917659-6			
20	XX	-	Black	1-917659-8	62.9	22.8	14.8

• Tab Housing  
Panel type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	-	Black	1-179555-3	41.9	33.6	20.3
	YY	-	Black	2-179555-3			
	XY	-	Black	3-179555-3			
12	XX	-	Black	1-179555-6	57.9	33.6	20.3
	YY	-	Black	2-179555-6			
	XY	-	Black	3-179555-6			
20	XX	-	Black	1-179555-8	78.2	33.6	20.3

Free Hanging type

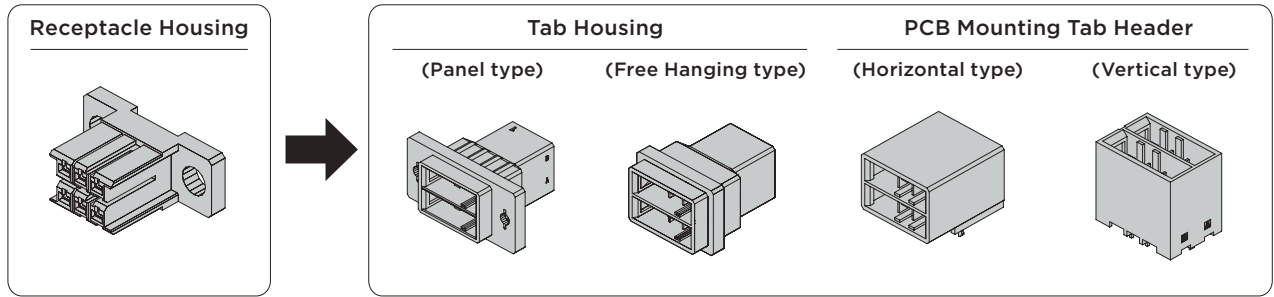


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	-	Black	1-179554-3	28.1	33.6	20.3
	YY	-	Black	2-179554-3			
	XY	-	Black	3-179554-3			
12	XX	-	Black	1-179554-6	43.4	33.6	20.3
	XY	-	Black	3-179554-6			

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-3200M 2-Row High Voltage Drawer Types

Part Number Chart



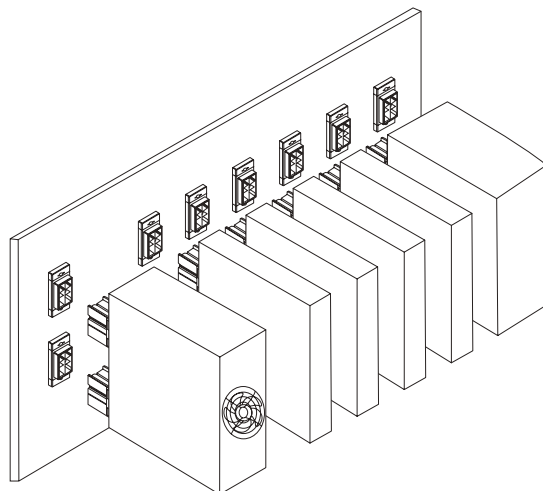
No of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing		PCB Mounting Tab Header	
					Panel Type	Free Hanging type	Horizontal type	Vertical type
6	Black	XX	1-917266-3	Gold	1-179555-3	1-179554-3	1-178139-2	1-178140-2
				Gold			1-178139-3	1-178140-3
				Tin			1-178139-5	1-178140-5

Related product information

Application Contact ...P.38  
 Performance • Specifications ...P.35  
 Accessories ...P.110, 112

Application

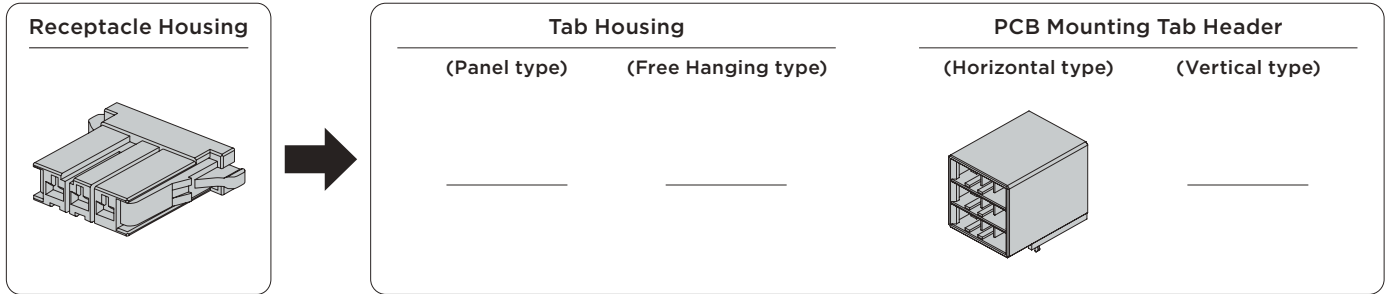
Compact Disk Device Application Examples



NOTE: All products are RoHS compliant On selection.  
 You need to confirm LOT and lead time

D-3200T 3-Row High Voltage Modular Types

Part Number Chart



D-3000 Series

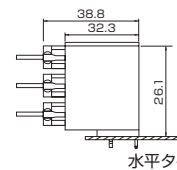
Receptacle Housing (maximum 9 Pos.)					
1 Row D-3200S ※1			2 Row D-3200M		
X	Y	Z	XX	YY	XY
3	-	-	-	-	-
1	-	-	1	-	-
2	1	-	-	-	-
1	-	-	-	-	1
-	1	-	1	-	-
1	-	-	-	1	-
1	2	-	-	-	-
2	1	-	-	-	-
1	-	-	-	-	1
1	1	1	-	-	-
1-178128-3	2-178128-3	3-178128-3	1-178129-6	2-178129-6	3-178129-6

PCB Mounting Tab Header			
Horizontal type D-3200T			
No. of Pos	Keying	Part Number	Plating
9	XXX	1-1123624-2	Gold
		1-1123624-5	Tin
	XXY	3-1123624-5	Tin
		YYX	4-1123624-5
	XYX	5-1123624-2	Gold
		5-1123624-5	Tin
XYZ	9-1123624-2	Gold	

Related product information

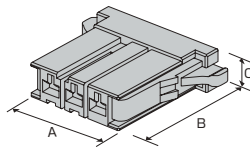
Application Contact ...P.38  
 Performance • Specifications ...P.35  
 ※1 refer to P.47

Mating Dimension



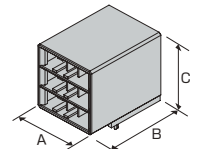
External Dimension

- Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	-	Black	1-178128-3	29.7	22.8	7.2
	Y	-	Black	2-178128-3			
	Z	-	Black	3-178128-3			
6	XX	-	Black	1-178129-6	27.3	22.8	14.8
	YY	-	Black	2-178129-6			
	XY	-	Black	3-178129-6			

- PCB Mounting Tab Header  
Horizontal type

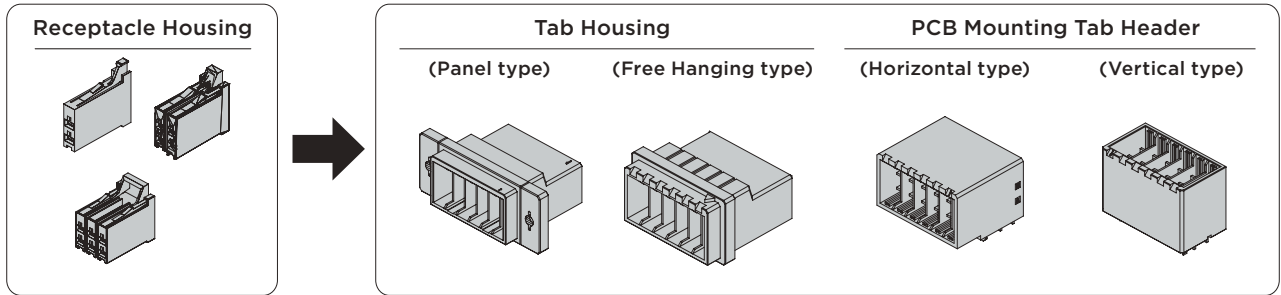


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
9	XXX	Gold	Black	1-1123624-2	24.2	32.3	27.1
		Tin	Black	1-1123624-5			
	XXY	Tin	Black	3-1123624-5			
	YYX	Tin	Black	4-1123624-5			
	XYX	Gold	Black	5-1123624-2			
	XYZ	Gold	Black	9-1123624-2			

NOTE: All products are RoHS compliant On selection.  
 You need to confirm LOT and lead time

D-3500D Sensor Connector

Part Number Chart

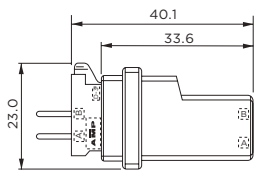


D-3000 Series

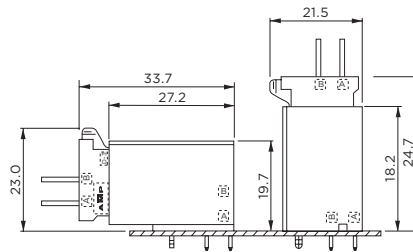
No. of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing			PCB Mounting TabHeader	
					Panel Type	Free Hanging Type	L Bracket	Horizontal	Vertical type
2	Black	-	175362-1	-	-	-	-	-	-
			175362-2						
			175362-3						
4	Black	-	175363-1	Gold	-	-	-	1376133-2	-
	White		1-175363-1						
	Black		175363-2※1						
	Blue		2-175363-1						
6	Black	-	175363-3	-	-	-	-	-	-
			1318095-1						
12	Black	-	-	Gold	917241-6 3-917241-6	917242-6 3-917242-6	S	177555-2	316516-2
				Gold				177555-3	316516-3
20	Black	-	-	Gold	917241-8 3-917241-8	917242-8 3-917242-8	S	1-177555-2	-
				Tin				177555-5	316516-5
				Gold				175365-2	316517-2
				Tin				175365-3	316517-3
								175365-5	316517-5

※1 Lever Small Type

Mating Dimension



Panel/Free Hanging Type



Horizontal/Vertical type

Related product information

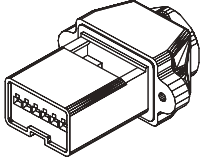
- Application Contact ...P.38
- Performance • Specifications ...P.35
- Accessories ...P.110, 112

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D - 3700 Servomotors Dedicated Connectors

Part Number Chart

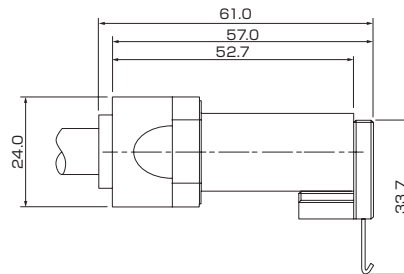
Receptacle Connector Kit



No. of Pos	Without Contact	Contacts (Model 1-175218 - 2). 6 included	Note
6	176346-7	176346-8	TÜ V approved products approval
6	1-176346-7	1-176346-8	-

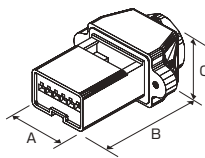
D-3000 Series

Mating Dimension



External Dimension

- Receptacle Connector Kit



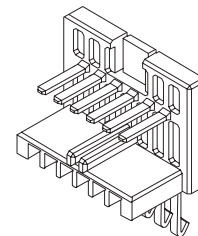
Without Contact

No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	-	-	Black	176346-7	27.0	52.7	24.0
	-	-	Black	1-176346-7			

Contacts (1- 175218 - 2) 6 included

No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	-	Gold	Black	176346-8	27.0	52.7	24.0
	-	Gold	Black	1-176346-8			

- Motor Side Tab Header  
(offered for limited usage)

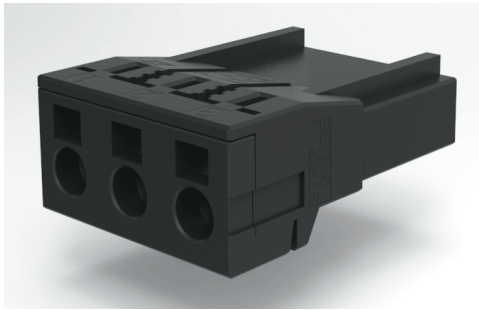


NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

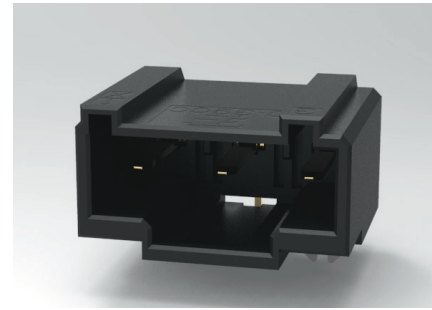


D-3900 and D-3950 Spring Clamp

D-3900 Spring Clamp



Receptacle Assembly

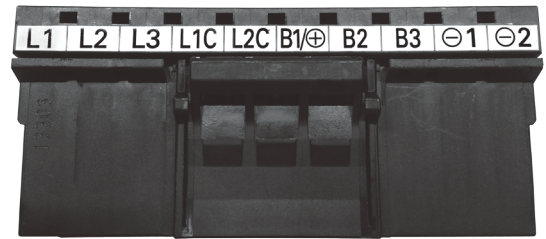
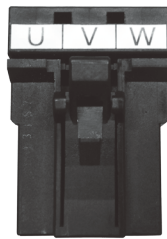


Board Mount Header Assembly

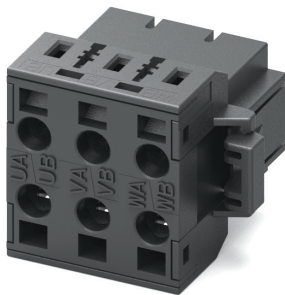
3900 Spring Clamp Parts List						
No. of Pos.	Color	Keying	Receptacle Assembly	Plating	Bound-Mounting Header Assembly (Horizontal type)	
3	Black	X	1-2013522-3 **	Gold	1-2013519-3	
	Black	X	1-2134249-3 *		4-2013519-3	
	Natural	Y	4-2013522-3		9-2013519-0	
7	Black	Z	9-2013522-0		1-2013519-0	
10	Black	X	1-2013522-0 **		2-2013519-0	
		X	1-2134249-0 *			
		Y	2-2013522-0			

\* No Label

\*\* Label Present



D-3950 Spring Clamp



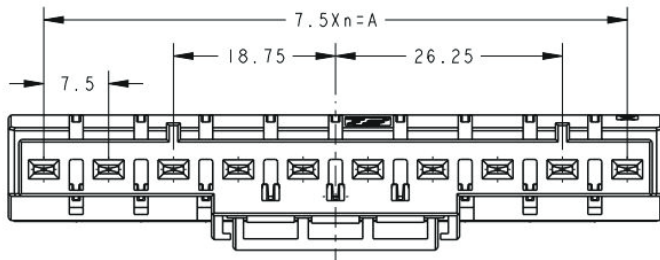
Receptacle Assembly



3950 Spring Clamp Parts List						
No. of Pos.	Color	Keying	Receptacle Assembly	Plating	Bound-Mounting Header Assembly (Horizontal type)	
3	Black	X	3-2229794-1	Gold	3-2229803-1	
6			2229800-1		2229806-1	
7			1-2229794-2		1-2229803-2	
11			1-2229794-1		1-2229803-1	

D-3900 and D-3950 Spring Clamp

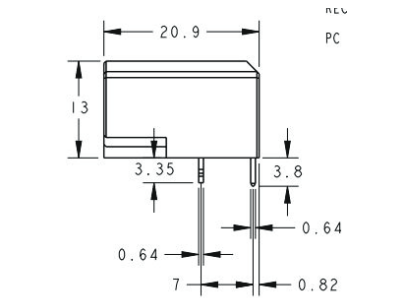
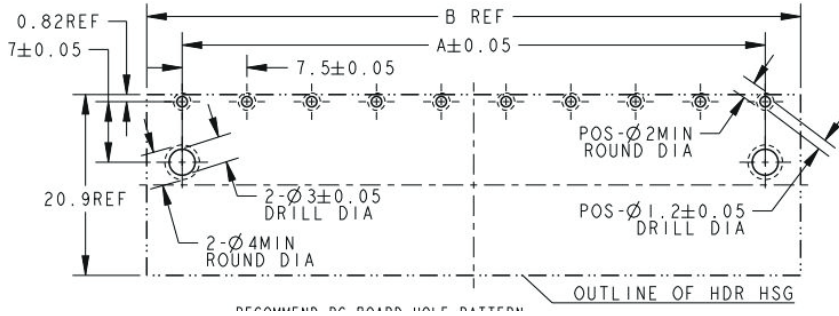
D-3900 - Spring Clamp Dimensions



Receptacle Assembly

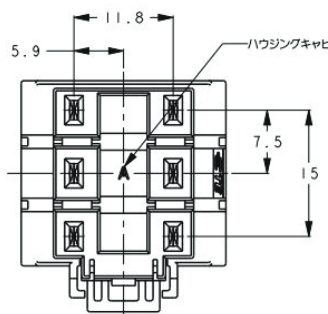
Electrical Specs for D-3900/3950 Series	
Maximum Current Rating (A)	14.5
Maximum Voltage Rating	300
Dielectric Withstanding Voltage	1500
Durability Cycles	500
Pitch	7.5mm
Wire Range	22522 AWG -- 14 AWG

D-3000 Series

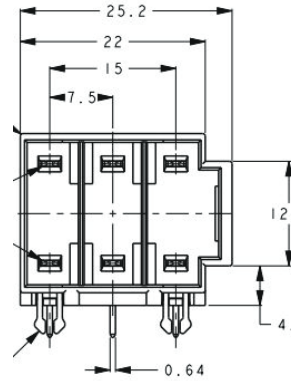


Board Mount Header Assembly

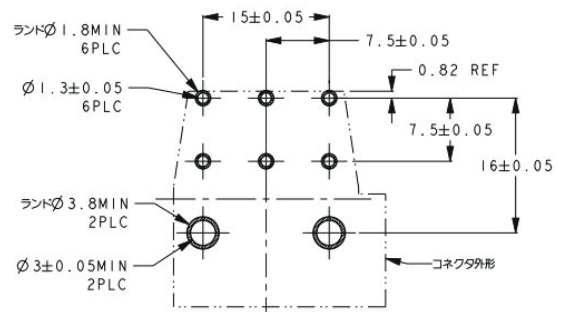
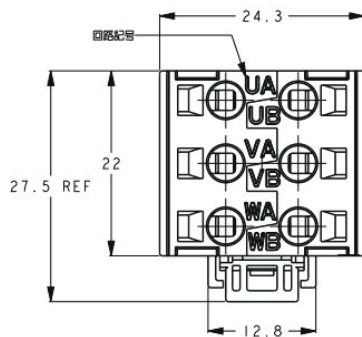
D-3950 - Spring Clamp Dimensions



Receptacle Assembly



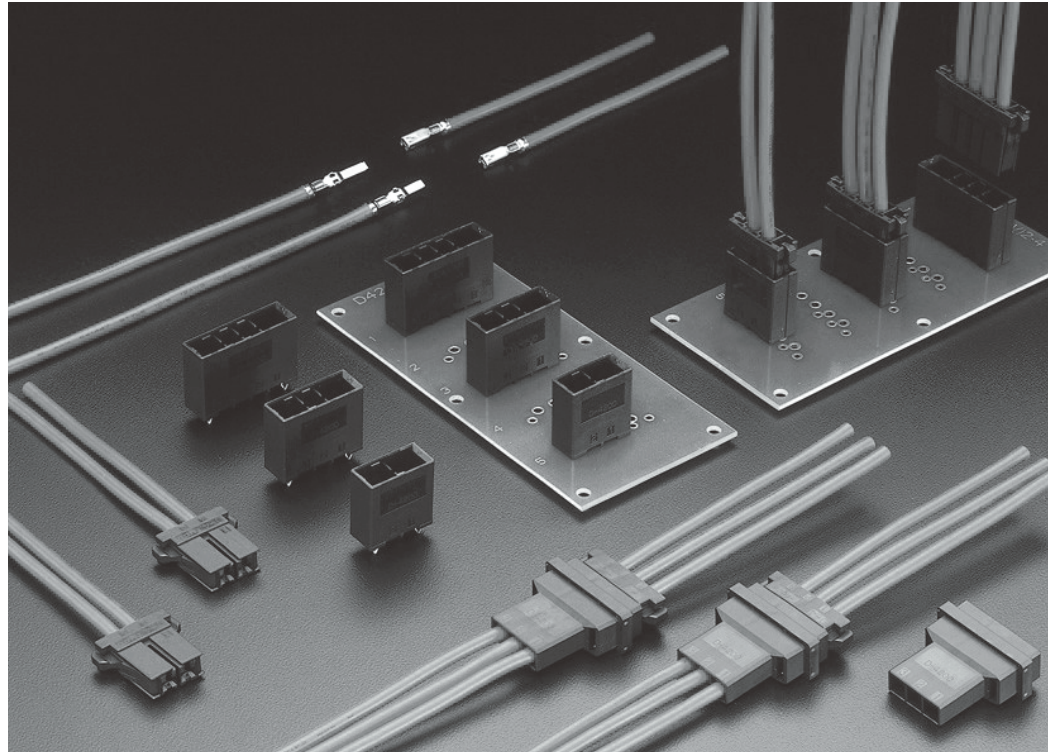
Board Mount Header Assembly



D-4000 series

**Series Introduction**

These 24A power connectors are perfect for industrial machinery. They offer an optimal size for high current applications where space is an issue. Current capacity per unit volume is up 32% compared to the existing products.



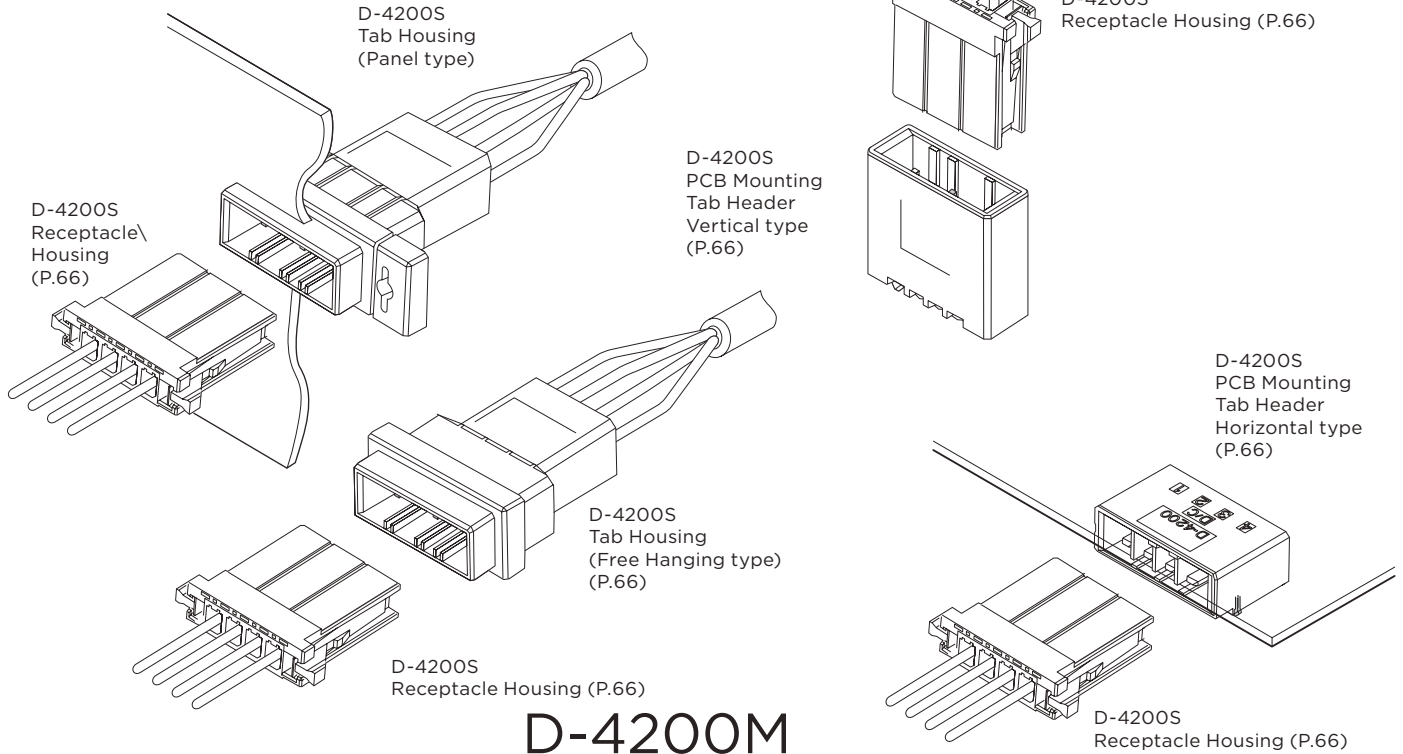
**Product Features**

1. **Small Size/High Current Contact**  
The contacts are newly-designed with 4 points of contact. This allows significantly improved current capacity (rated 24A maximum) as well as reliability.
2. **The sequential contacts**  
The sequential contact is a longer tab contact. When used in conjunction with the regular contacts it provides a ground that mates before the other power contacts.
3. **High current tine (lead)**  
PCB fixed type tine (lead) is the newly developed folded V-shaped tine. Larger contact area and smaller through-holes can make the PCB easier to pull the pattern through (pat. pending).  
New V shape tines (leads) were developed for mounting on boards. Even though a lot of on-board connection space is needed, through-holes were made as small as possible to make pattern design easy (patent pending).
4. **Audible Latching**  
On mating, an audible lock sound and sensation is transmitted to the assembler, so that even when working 'blind' mis-mating (or half-mating) problems are avoided.
5. **Keying**  
The housing has a keying (slit) , so that by separating use of the X key and Y key mis-Mating is prevented.

D-4000 series Products List by Applications

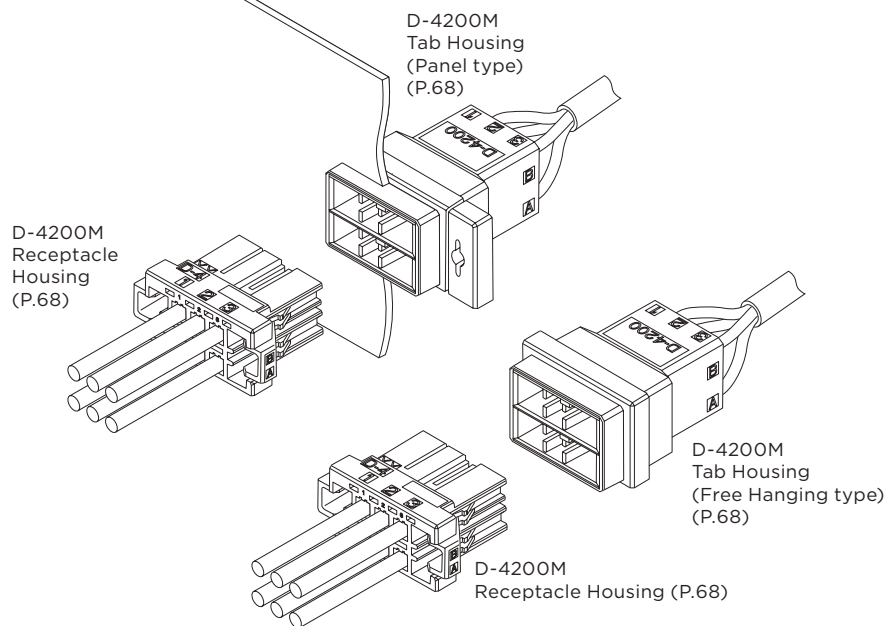
# D-4200S

High-current type



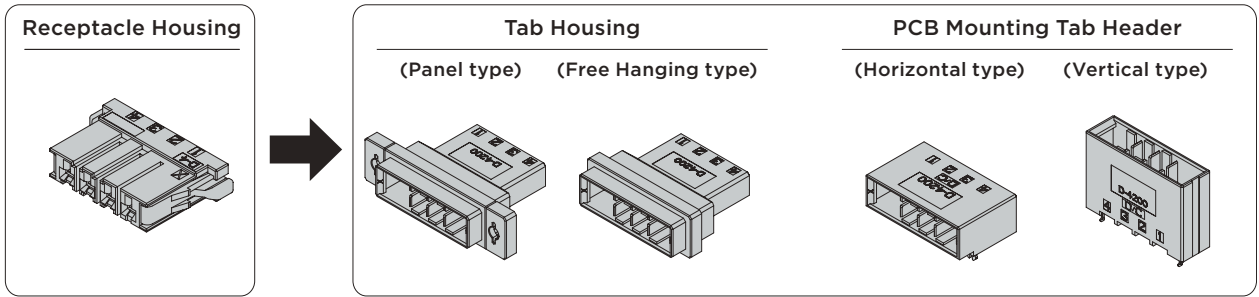
# D-4200M

High Current modular type



D-4200S 1-Row High Voltage

Part Number Chart



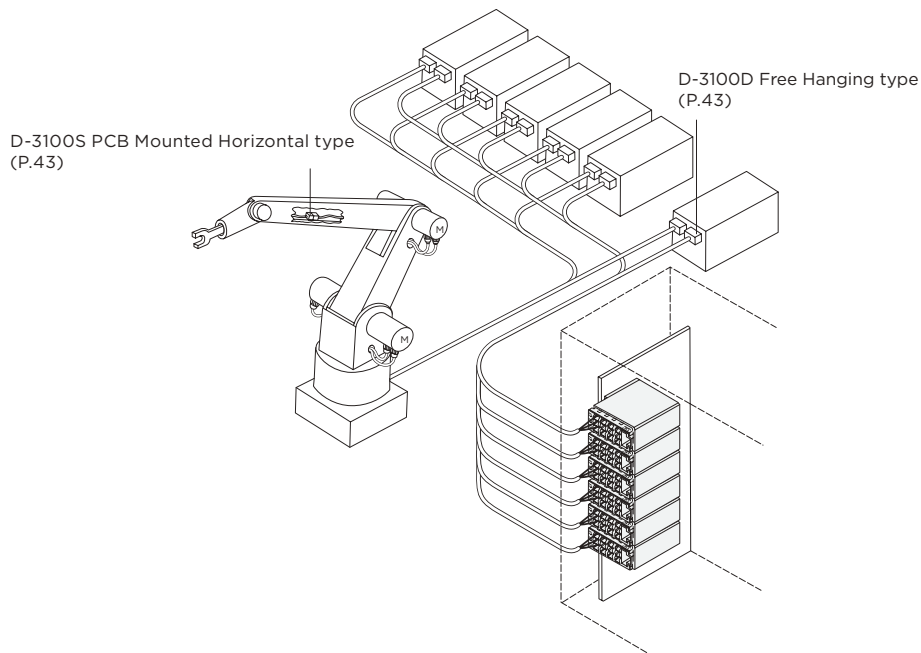
No. of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing		PCB Mounted Tab Header			
					Panel Type	Free Hanging Type	Horizontal type		Vertical type	
							Standard type	Sequential type	Standard type	Sequential type
2	Black	X	1-1747276-2	Gold	1-1747535-2	1-1747414-2	1-1903328-2	-	1-1747277-2	-
	Black	Y	2-1747276-2	Gold	2-1747535-2	2-1747414-2	2-1903328-2	-	2-1747277-2	-
3	Black	X	1-1747276-3	Gold	1-1747535-3	1-1747414-3	1-1903328-3	5-1903328-3	1-1747277-3	5-1747277-3
	Black	Y	2-1747276-3	Gold	2-1747535-3	2-1747414-3	2-1903328-3	6-1903328-3	2-1747277-3	6-1747277-3
4	Black	X	1-1747276-4	Gold	1-1747535-4	1-1747414-4	1-1903328-4	5-1903328-4	1-1747277-4	5-1747277-4
	Black	Y	2-1747276-4	Gold	2-1747535-4	2-1747414-4	2-1903328-4	6-1903328-4	2-1747277-4	6-1747277-4

Related product information

Application Contact ...P.38  
Performance • Specifications

Application

Robot/Robot Controller Application Example

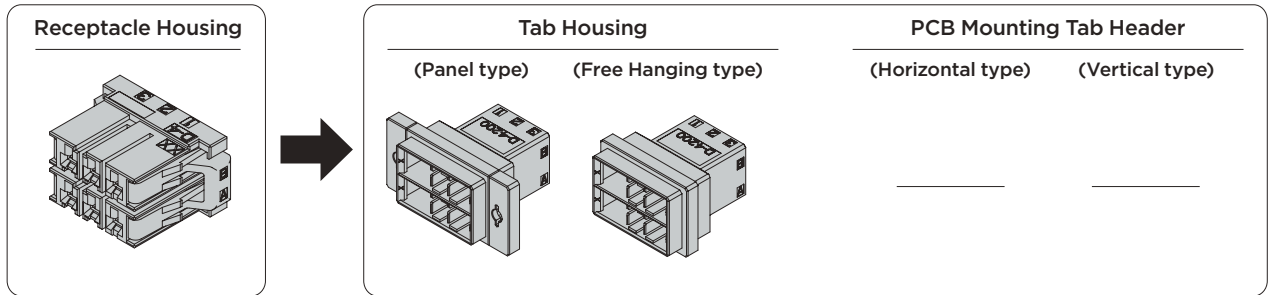


NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time



D-4200M 2-Row High Current Modular Type

Part Number Chart

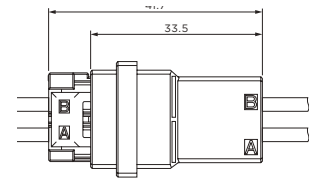


No of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing		PCB Mounting Tab Header	
					Panel Type	Free Hanging Type	Horizontal type	Vertical type
6	Black	XX	1-1903329-3	-	1-1903331-3	1-1903330-3	-	-
	Black	YY	2-1903329-3	-	2-1903331-3	2-1903330-3	-	-
	Black	XY	3-1903329-3	-	3-1903331-3	3-1903330-3	-	-

Related product information

Application Contact ...P.65  
Performance • Specifications ...P.63

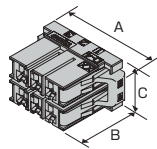
Mating Dimension



Panel/Free Hanging type

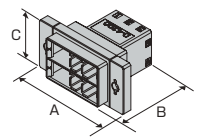
External Dimension

- Receptacle Housing



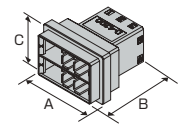
No.of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	-	Black	1-1903329-3	33.7	23.0	17.3
	YY	-	Black	2-1903329-3			
	XY	-	Black	3-1903329-3			

- Tab Housing  
Panel type



No.of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	-	Black	1-1903331-3	46.0	33.5	22.6
	YY	-	Black	2-1903331-3			
	XY	-	Black	3-1903331-3			

- Free Hanging type



No.of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	-	Black	1-1903330-3	32.7	33.5	22.6
	YY	-	Black	2-1903330-3			
	XY	-	Black	3-1903330-3			

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-5000 Series Performance & Specifications

Performance Specifications/Wire Size/Current Rating

Item	D-5200	D-5300	D-5200 α
Pitch	10.16mm		
Current Rating	30A max		45A max
Voltage Rating	630V AC / DC		
Dielectric Withstanding volatage	3000VAC		
Total Resistance	2mΩmax		
Insertion Strength	9.8Nmax (per pole)		
Withdrawal Strength	1.96Nmin (per pole)		
Durability	50 times (Gold0.76μm/hour)		
Lock Strength	98Nmin		

Pos. Number/Wire Size/Current Rating

Units: A (Amps).

No. of Pos	Series	Wire Size(AWG)						
		20	18	16	14	12	10	8
6	D-5200	-	-	16	19	25	30	-
4	D-5300	-	-	-	-	-	-	-
3	D-5200 α	12	16	20	25	33	38	45
4		12	15	18	23	31	35	43

Performance Specifications\* Manual Materials & Construction

Product Standards		108-5453
Test Report		501-5188
Mounting Applicatoin Standard		114-5206
hand tool instruction sheets	Crimping Tool Product Number : 234170-1	411-5712
	Crimping Tool Product Number : 234171-1	411-5713
	Crimping Tool Product Number : 91596-1	408-8547-1
	Crimping Tool Product Number : 1366044-1	411-5976
Withdrawal Tool (product number : 409158-1) Manual		411-5774

please order the manual concurrently An E-Catalogue is also available for download from the internet

Material & Completion

Category	Item	D-5200	D-5300	D-5200α
Contact	Material	Copper Alloy		
	Finishing	Nickel Undercoat Gold Plating	Nickel Undercoat Gold/Silver Plating	Nickel Undercoat Gold Plating
Board Side Tab Post	Material	Copper Alloy	-	Copper Alloy
	Finishing	Nickel Undercoat Gold Plating	-	Nickel Undercoat Silver Plating
Housing	Material	UL94V-0, glass-reinforced thermoplastic PBT		

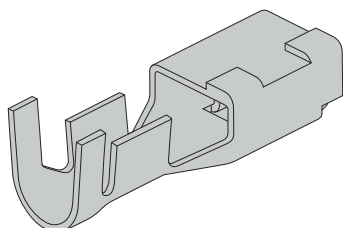
Safety Specifications

The following safety standards have been approved based on the part number. Please check each model number to see whether it has been approved or not. In the meantime, please be aware that these may not match TE's own performance specifications.

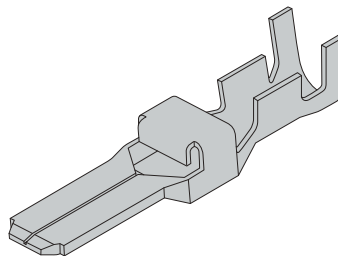
Series Standard	D - 5200 series (400 mill, 10.16 mm pitch).			D-5200Mα Series																																						
	Voltage Rating	Current Rating	Temperature Rating	Voltage Rating	Current Rating	Temperature Rating																																				
product standards 108-5453	630V AC/DC	(see above).	-55°C ~+105°C	-	(see above).	-55°C ~+105°C																																				
UL File No.E28476 (Recognized Component)	determined according to the requirements of the machine in use	determined according to the requirements of the machine in use	-	-	determined according to the requirements of the machine in use	-																																				
CSA Report No. LR 7189	h600V AC/DC	<table border="1"> <tr><th>AWG</th><th>A</th></tr> <tr><td>16</td><td>13</td></tr> <tr><td>14</td><td>18</td></tr> <tr><td>12</td><td>25</td></tr> <tr><td>10</td><td>30</td></tr> </table>	AWG	A	16	13	14	18	12	25	10	30	-	-	-	-																										
AWG	A																																									
16	13																																									
14	18																																									
12	25																																									
10	30																																									
TÜV License No. R9650368 IP protection IP -00. overvoltage classification (II) number of insert / withdrawal repetitions 50 times	600V AC/DC	<table border="1"> <tr><th>AWG</th><th>A</th></tr> <tr><td>16</td><td>15</td></tr> <tr><td>14</td><td>20</td></tr> <tr><td>12</td><td>25</td></tr> <tr><td>10</td><td>30</td></tr> </table>	AWG	A	16	15	14	20	12	25	10	30	-30°C ~+105°C	-	<table border="1"> <tr><th rowspan="2">AWG</th><th colspan="2">A</th></tr> <tr><th>1-3</th><th>4</th></tr> <tr><td>20</td><td>12.5</td><td>12.5</td></tr> <tr><td>18</td><td>17.5</td><td>16</td></tr> <tr><td>16</td><td>21</td><td>19.5</td></tr> <tr><td>14</td><td>26</td><td>24</td></tr> <tr><td>12</td><td>33</td><td>31</td></tr> <tr><td>10</td><td>40</td><td>37.5</td></tr> <tr><td>8</td><td>48</td><td>46</td></tr> </table>	AWG	A		1-3	4	20	12.5	12.5	18	17.5	16	16	21	19.5	14	26	24	12	33	31	10	40	37.5	8	48	46	-30°C ~+105°C
AWG	A																																									
16	15																																									
14	20																																									
12	25																																									
10	30																																									
AWG	A																																									
	1-3	4																																								
20	12.5	12.5																																								
18	17.5	16																																								
16	21	19.5																																								
14	26	24																																								
12	33	31																																								
10	40	37.5																																								
8	48	46																																								

D-5000 Series Contact

- Crimp type



Receptacle Contact  
(used in Receptacle Housing)



Tab Contact  
(used in Tab Housing)

- gold-plated, silver-plated type

Applicable Wiring Range		Insulation Wire outer diameter mm	Wire Range Mark	Contact Part Number			Tool Part Number	
AWG	mm <sup>2</sup>			Receptacle Contact	Tab Contact	Sequential Tab Contact	Mini-Applicator	Hand Tool
20	0.50	1.8-2.83	SS	Strip Form 1318985-2 1318985-3 1318985-6	-	-	1528106-2	-
16	1.25	2.35-3.23		Loose Form 1318986-2 1318986-3 1318986-6	-	-	-	91596-1
16	1.25	3-3.80	S	Strip Form 179955-2 179955-3	917802-2 917802-3	84696-1	1366659-2	-
14	2.20			Loose Form 316040-2 316040-3 316040-6	917804-2 917804-3 917804-6	2013594-1	-	234170-1
12	3.50	4-5.2	M	Strip Form 179956-2 179956-3	917803-2 917803-3	84695-1	1366660-2	-
10	5.50			Loose Form 316041-2 316041-3 316041-6	917805-2 917805-3 917805-6	2013593-1	-	234171-1
8	8.00	4.9-7.8	L	Strip Form 1318696-2	-	-	1366658-3	-
				Loose Form 1318697-2	1747443-6	-	-	1366044-1

Note:

The part number suffix is the code for plating.

- 1: 0.2 m thick gold plated
- 2: 0.38 m thick gold plated
- 3: 0.76 m thick gold plated
- 6: 2.54 m thick gold plated

Minimum order quantity is provided for each product.

When ordering, specify your requirements by multiplying the quantity set for each.

Mini-Applicator is for use on Automachine.

Strip Form contacts are used with Mini-Applicator and

Loose-Piece contacts are with hand tools.

- For more information please refer to P.109

If you have any questions please contact AT tooling Sales Department (044 - 900 - 5027)

- Electro-hydraulic tool PN2155369 -1 for use with 16 AWG to 8 AWG wire

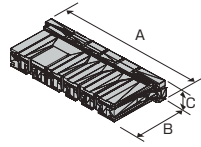
The receptacle contact can be used in all receptacle housings, the tab contact can be used in all tab housings

NOTE: All products are RoHS compliant On selection. You need to confirm LOT and lead time

D-5200S 1 Row High Current Type

External Dimension

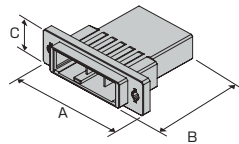
• Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	-	Black	1-179958-2	35.8	29.0	9.8
	Y	-	Black	2-179958-2			
3	X	-	Black	1-179958-3	46.0	29.0	9.8
	Y	-	Black	2-179958-3			
4	X	-	Black	1-179958-4	53.7	29.0	9.8
	Y	-	Black	2-179958-4			
6	X	-	Black	1-179958-6	74.0	29.0	9.8
	Y	-	Black	2-179958-6			

• Tab Housing

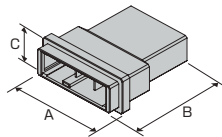
Panel type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	-	Black	1-353047-2	47.0	47.0	16.5
	Y	-	Black	2-353047-2			
3	X	-	Black	1-353047-3	57.0	47.0	16.5
	Y	-	Black	2-353047-3			

• Tab Housing

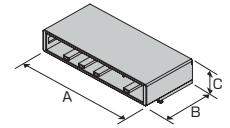
Free Hanging type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	-	Black	1-353046-2	33.4	47.0	16.5
	Y	-	Black	2-353046-2			
3	X	-	Black	1-353046-3	43.6	47.0	16.5
	Y	-	Black	2-353046-3			

• PCB Mounting Tab Header

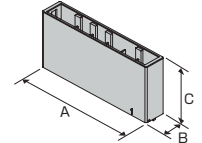
Horizontal type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	Gold	Black	1-353079-2	29.4	32.0	13.9
		Gold	Black	1-353079-3			
3	X	Gold	Black	1-353081-2	39.5	32.0	13.9
		Gold	Black	8-353081-2			
	Y	Gold	Black	1-353081-3			
		Gold	Black	2-353081-3			
4	X	Gold	Black	1-917541-2	49.7	32.0	13.9
		Gold	Black	8-917541-2			
	Gold	Black	1-917541-3				
6	X	Gold	Black	1-179959-2	70.0	32.0	13.9
		Gold	Black	1-179959-3			
	Y	Gold	Black	2-179959-2			
		Gold	Black	2-179959-3			

• PCB Mounting Tab Header

Vertical type



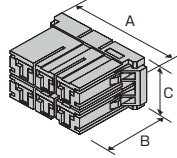
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	Gold	Black	1-353080-2	29.4	12.4	32.0
		Gold	Black	1-353080-3			
	Y	Gold	Black	6-353080-2			
		Gold	Black	2-353080-2			
3	X	Gold	Black	1-353082-2	39.5	12.4	32.0
		Gold	Black	8-353082-2			
	Y	Gold	Black	1-353082-3			
		Gold	Black	2-353082-3			
4	X	Gold	Black	1-917542-2	49.7	12.4	32.0
		Gold	Black	8-917542-2			
	Y	Gold	Black	1-917542-3			
		Gold	Black	2-917542-3			
6	X	Gold	Black	1-179960-2	70.0	12.4	32.0
		Gold	Black	1-179960-3			
		Gold	Black	6-179960-2			
	Y	Gold	Black	2-179960-2			
		Gold	Black	2-179960-3			
		Gold	Black	7-179960-2			

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-5200M 2 Row High Current Modular Type

External Dimension

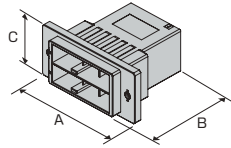
- Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	XX	-	Black	1-917807-2	33.4	29.0	20.0
	YY	-	Black	2-917807-2			
	XY	-	Black	3-917807-2			
6	XX	-	Black	1-917807-3	43.5	29.0	20.0
	YY	-	Black	2-917807-3			
	XY	-	Black	3-917807-3			

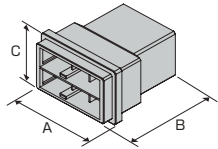
- Tab Housing

Panel type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	XX	-	Black	1-917809-2	47.0	47.0	26.7
	YY	-	Black	2-917809-2			
	XY	-	Black	3-917809-2			
6	XX	-	Black	1-917809-3	57.0	47.0	26.7
	YY	-	Black	2-917809-3			
	XY	-	Black	3-917809-3			

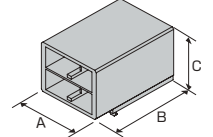
- Free Hanging type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	XX	-	Black	1-917808-2	33.4	47.0	26.7
	YY	-	Black	2-917808-2			
	XY	-	Black	3-917808-2			
6	XX	-	Black	1-917808-3	43.6	47.0	26.7
	YY	-	Black	2-917808-3			
	XY	-	Black	3-917808-3			

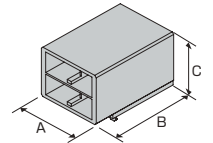
- PCB Mounting Tab Header

Horizontal type



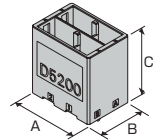
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	XX	Gold	Black	1-1123309-2	29.4	42.2	24.1
	YY	Gold	Black	2-1123309-2			
	XY	Gold	Black	3-1123309-2			
8	XX	Gold	Black	1123829-1	49.7	32.0	26.3

- Sequential type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	XX	Gold	Black	8-1123309-2	29.4	42.2	24.1

- Vertical type

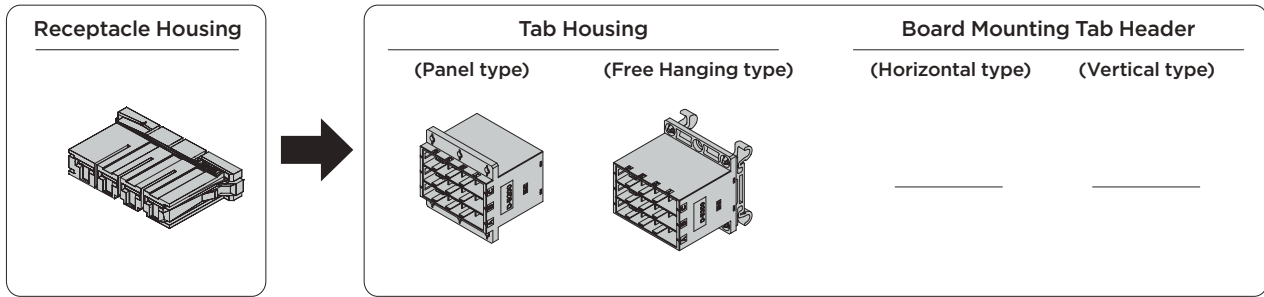


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	XX	Silver	Black	1-1981458-6	29.4	22.6	32.0
	YY	Silver	Black	2-1981458-6			
	XY	Silver	Black	3-1981458-6			

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-5200 Dyna-Tap 12P (4Px3 Row), 20P (5Px4 Row)

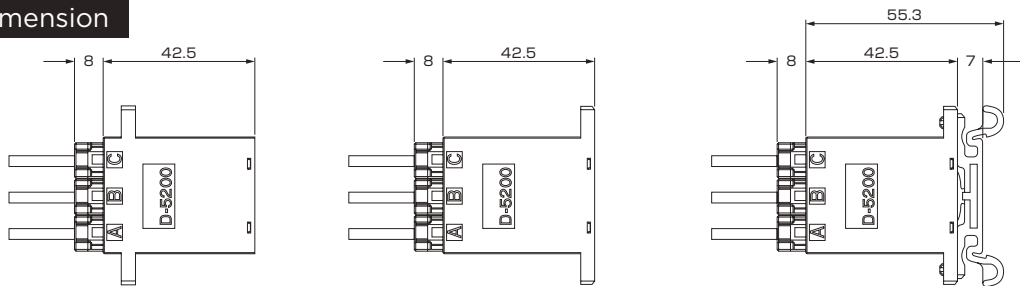
Part Number Chart



No of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing		PCB Mounting Tab Header	
					Panel & Din Rail Type	Free Hanging type	Horizontal type	Vertical type
4	Black	-	1-179958-4	-	-	-	-	-
12	Black	-	-	Gold	1903146-1*1	1903146-3	-	-
12	Black	-	-	Gold	1903146-2*2	1-1903146-3	-	-
20	Black	-	-	Gold	2013285-1	-	-	-
	Black	-	-	Gold	2013285-2*2	2013285-3	-	-

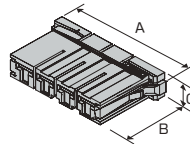
\*1 : front panel type \*2 : bottom panel type

Mating Dimension



Mating Dimension

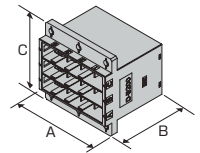
Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	-	-	Black	1-179958-4	53.7	29.0	9.8

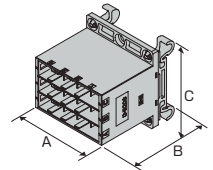
Tab Housing

Panel type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
12	-	Gold	Black	1903146-1	49.7	42.5	50.0
	-	Gold	Black	1903146-2	49.7	42.5	50.0
20	-	Gold	Black	2013285-1	50.5	42.5	76.4
	-	Gold	Black	2013285-2	50.5	42.5	76.4

DIN Rail type



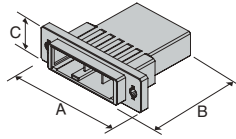
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
12	-	Gold	Black	1903146-3	49.7	55.3	50.0
	-	Gold	Black	1-1903146-3	49.7	55.3	50.0
20	-	Gold	Black	2013285-3	53.0	55.3	76.4

NOTE: All products are RoHS compliant On selection. You need to confirm LOT and lead time



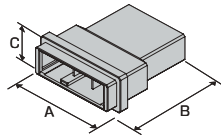
Dyna-Clamp Kit/Cable Clamp Kit

- Tab Housing  
Panel type C



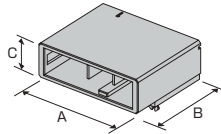
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	-	Black	1-353047-3	57.0	47.0	12.1

- Tab Housing  
Free Hanging type C



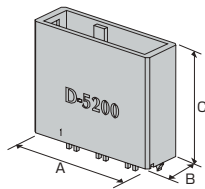
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	-	Black	1-353046-3	43.6	47.0	12.1

- Board Mounting Tab Header  
Horizontal type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	Gold	Black	1-353081-2	39.5	32.0	13.9
		Gold	Black	1-353081-3			

Vertical type



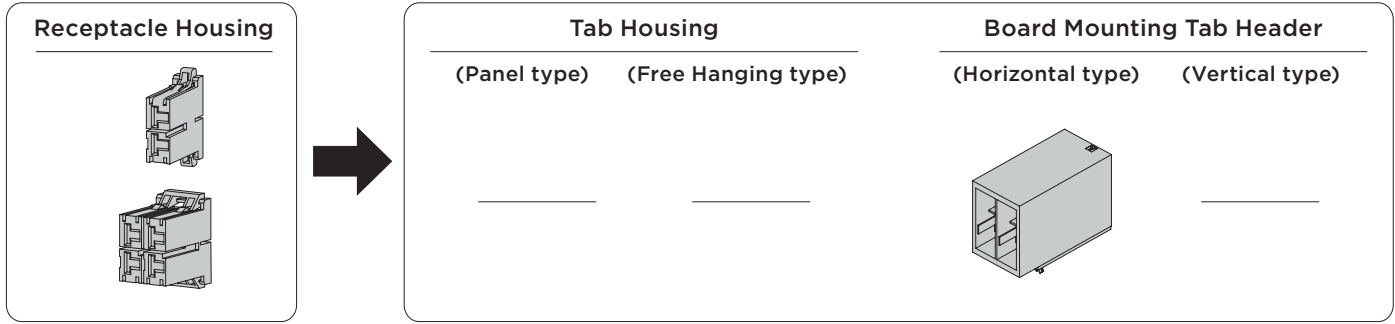
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	Gold	Black	1-353082-2	39.5	12.4	32.0
		Gold	Black	1-353082-3			

D-5000 Series

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

D-5200Mα 2 Row High Current/Voltage Modular Type

Part Number Chart



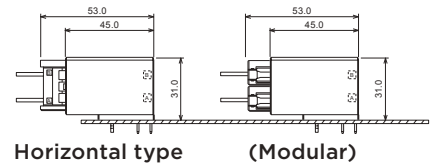
No of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing		PCB Mounting Tab Header	
					Panel type	Free Hanging type	Horizontal type	Vertical type
2	Black	X	1-179958-2	-	-	-	-	-
	Black	Y	2-179958-2	-	-	-	-	-
4	Black	XX	1-917807-2	Silver	-	-	1-1318983-6	-
	Black	YY	2-917807-2	Silver	-	-	2-1318983-6	-
	Black	XY	3-917807-2	Silver	-	-	3-1318983-6	-

Note: Receptacle housing 2-pole D-5200S and 4-pole D-5200M are the same product  
However, contact used is D-5α(silver plating • type)

Related product information

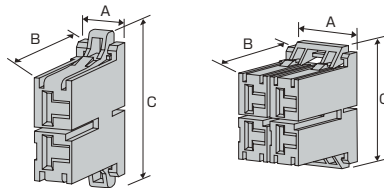
Application Contact ...P.81  
Performance • Specifications ...P.70

Mating Dimension



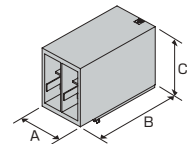
External Dimension

• Receptacle Housing



No.of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	-	Black	1-179958-2	9.8	29.0	23.8
	Y	-	Black	2-179958-2			
4	XX	-	Black	1-917807-2	20.0	29.0	33.4
	YY	-	Black	2-917807-2			
	XY	-	Black	3-917807-2			

• PCB Mounting Tab Header  
Horizontal type



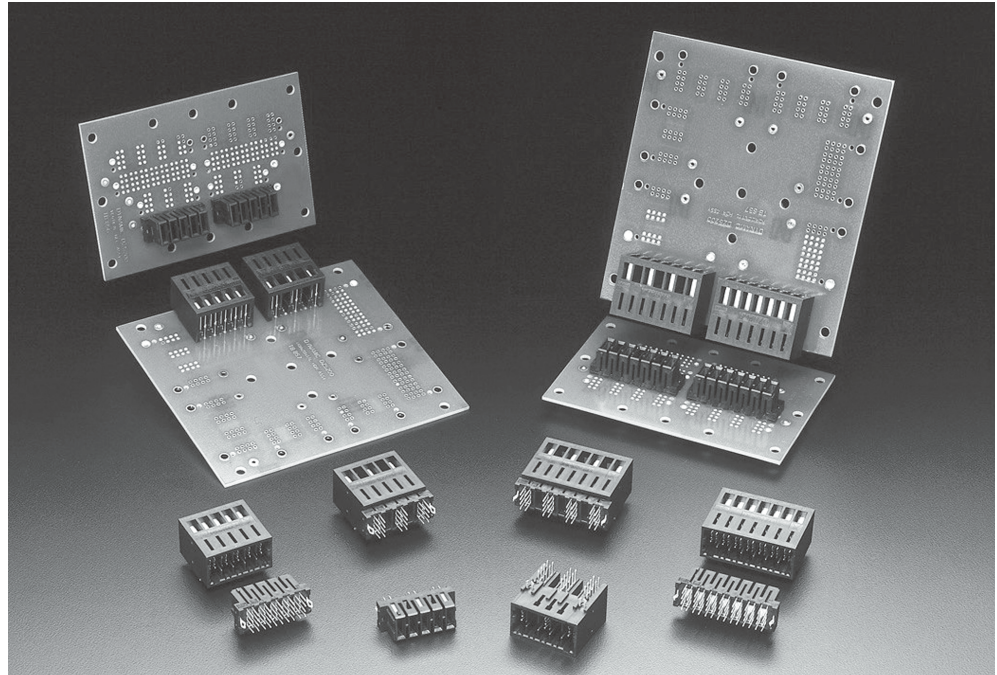
No.of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
4	XX	Silver	Black	1-1318983-6	22.6	45.0	30.9
	YY	Silver	Black	2-1318983-6			
	XY	Silver	Black	3-1318983-6			

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

DZ-5200

Useful for enabling cableless control board. High-current board to board connectors with 30A per contact.

- Equipped with retention leg to protect board from load
- Space allocated to prevent twisting the contact
- Circuit numbers are easy to identify even for board connectors
- Keying function included for flexibility when using multiple units
- Soldering without masking



Performance Specifications

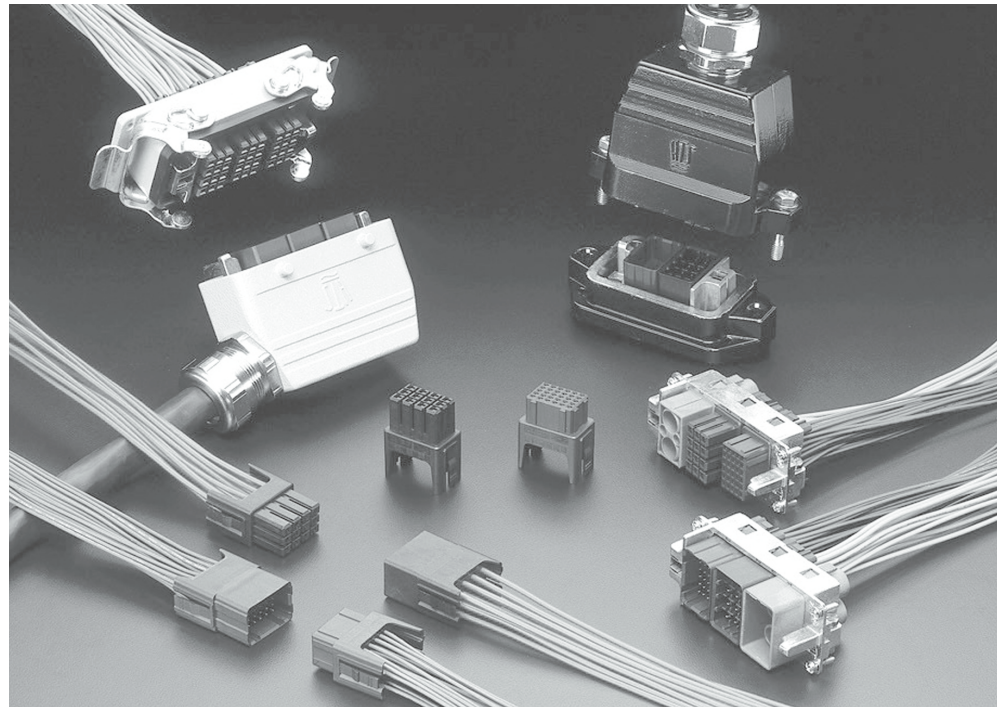
Item	Pitch	200 mils/400 mils 5.08mm/10.16mm
Voltage Rating		5.08mm Pitch : 250V AC (RMS)/DC 10.16mm Pitch : 600V AC (RMS)/DC
Current Rating		5.08mm Pitch : 20A 10.16mm Pitch : 30A
Contact Resistance		2mΩmax
Dielectric Withstanding Voltage		5.08mm Pitch : 2,200V AC 1minute 10.16mm Pitch : 4,000V AC 1minute
Operating Temperature		-55-+105°C
Product Standards		108-78186

Material and Completion

Category	Material	Completion
Receptacle Contact Tab Contact	Phosphorous Bronze Copper Alloy	Gold Plate (contact parts) Nickel Undercoat Gold Plate
Tab Post	Phosphorous Bronze	Tin Plate or (contact parts) Gold Plate Nickel Undercoat Gold Plate
Housing	UL94V-0, Glass-Reinforced Thermoplastic PBT	

Dynamic HTS Module

Dynamic connector developed for applications that need heavy duty waterproofing. Now it is possible to use Dynamic series connectors for everything inside and outside the control board.



Performance Specifications

Item \ Pitch	D-2800	D-3800	D-4800	D-5800
Voltage Rating	250VAC/DC	600VAC/DC	600VAC/DC	630VAC/DC
Current Rating	5A	15A	25A	40A
	AWG#18 as powersource	AWG#16 as powersource	AWG#16 as powersource	AWG#16 as powersource
Contact Resistance	10mΩ max			2mΩ max
Dielectric Withstanding Voltage	1,500VAC (1 minute)		2,500VAC (1 minute)	3,000VAC (1 minute)
Operating Temperature	-55~+105°C			
Product Standards	108-78284	108-78285	108-78388	108-78389
Mounting Application Standard	114-5258	114-5148	114-5369	114-5206

Material and Completion

Category	Material	Completion
Receptacle Contact Tab Contact	Phosphorous Bronze Copper Alloy	Nickel Undercoat Gold Plating (0.38 μm)
Housing	UL94V-0, Glass-Reinforced Thermoplastic PBT	

Contact

Proven DYNAMIC Series D - 2 and D-3, D-4, D - 5 Contacts used special tools and applicators from existing products can be used interchangeably

D - 2 Contact please refer to P28. D - 4 Contact please refer to P65.

D - 3 Contact please refer to P38. D - 5 Contact please refer to P72.

# Connector selection process

**Step 1**

Select Current Value,  
Number of Poles



**Step 2**

Select Wire Size



**Step 3**

Select Contact,  
Housing



**Step 4**

Frame Selection



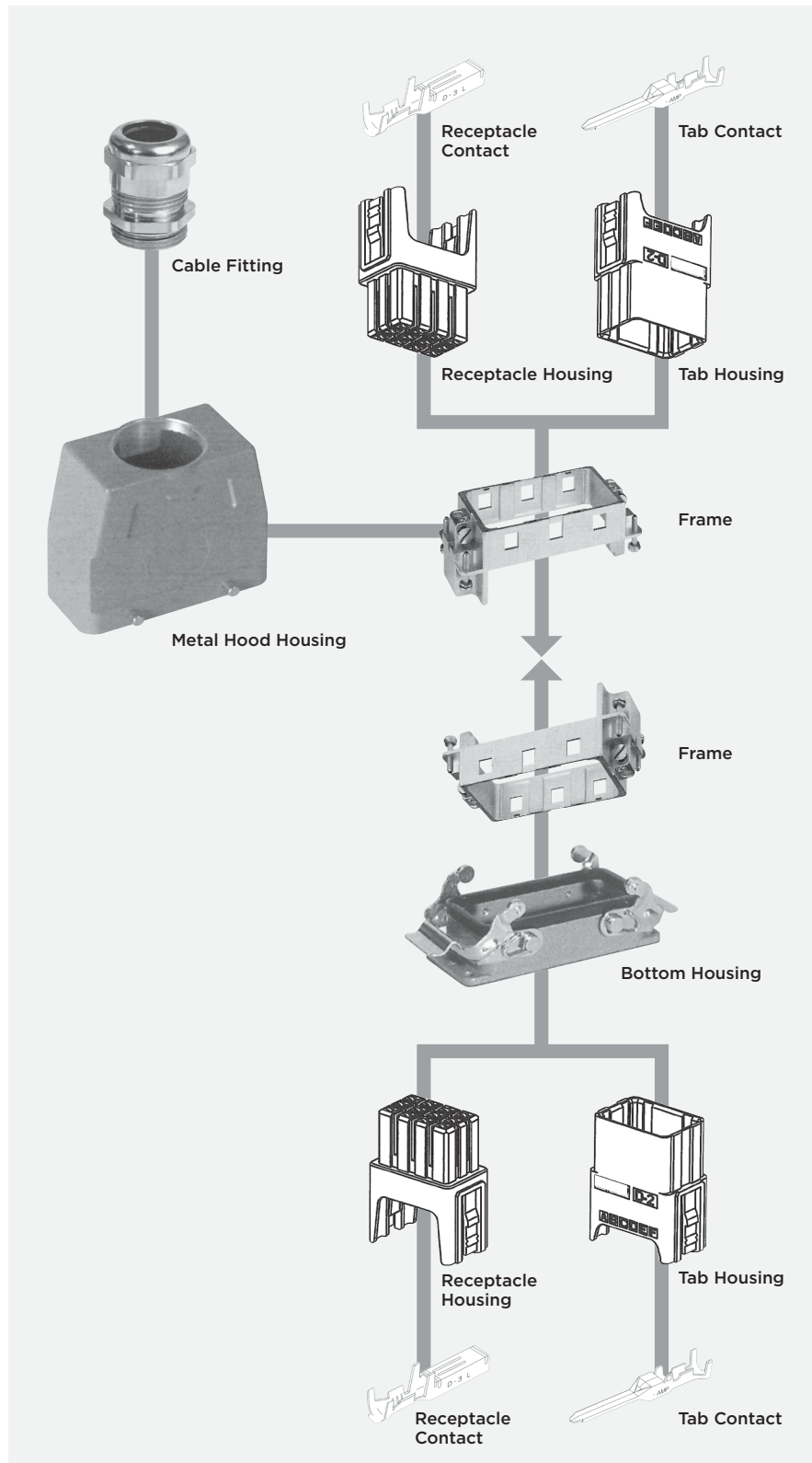
**Step 5**

Select Cable Fit  
(screw)



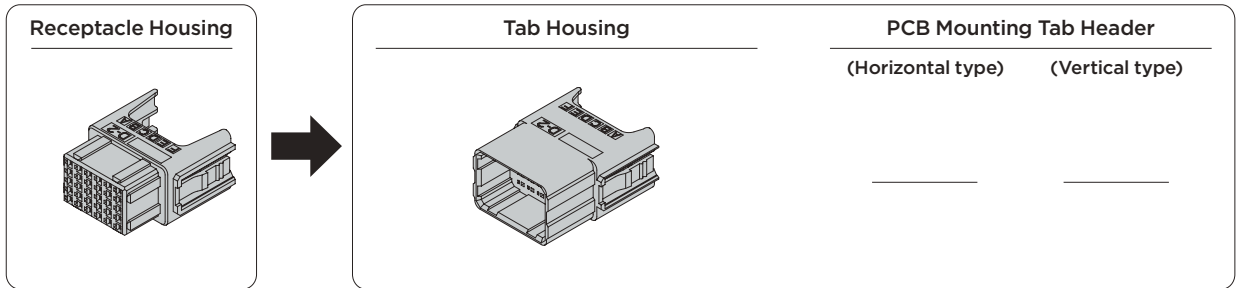
**Step 6**

Select Metal Housing



Dynamic HTS Module

Part Number Chart

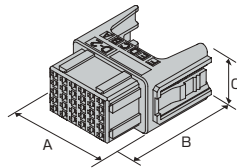


No. of Pos.	Color	Key	Receptacle Housing	Plating	Tab Housing	Board Mounting Tab Header	
						Horizontal type	Vertical type
30	Black	-	1747365-1	-	1747366-1	-	-
12	Black	-	1747363-1	-	1747364-1	-	-
8	Black	-	1871416-1	-	1871417-1	-	-
4	Black	-	1871418-1	-	1871419-1	-	-

D-2800

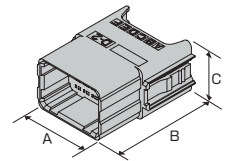
External Dimension

- Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
30	-	-	Black	1747365-1	30.3	37.6	19.5

- Tab Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
30	-	-	Black	1747366-1	30.3	40.0	19.5

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time



Dynamic HTS Module

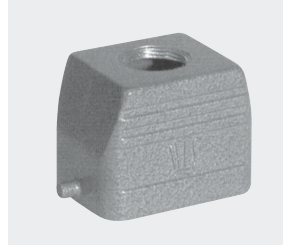
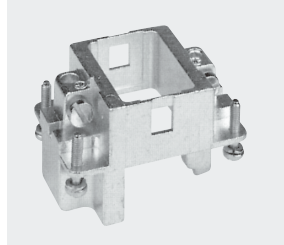
Frame

Metal Hood Housing

See HTS Catalogue 889745-2 Rev.08-2011

Size 3 (1 module type)

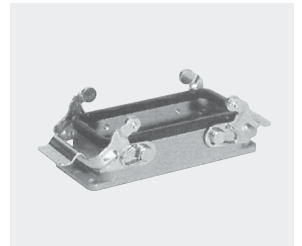
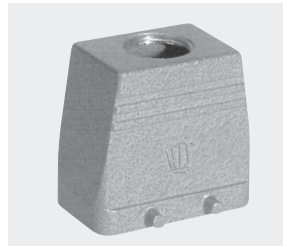
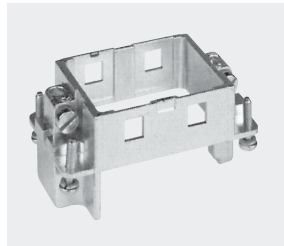
Model : 1108784-1  
male and female



See HTS catalogue P.72 to P.74

Size 4 (2 module type)

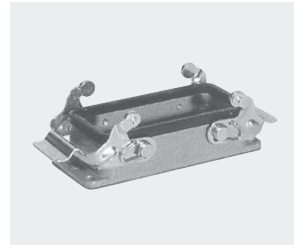
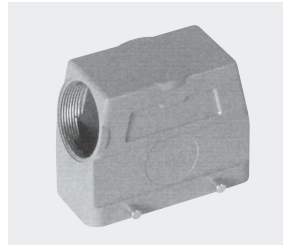
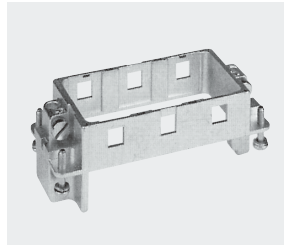
Model : 11108783-1 (male)  
1108783-2(female)



See HTS catalogue P.86 to P.88

Size 6 (3 module type)

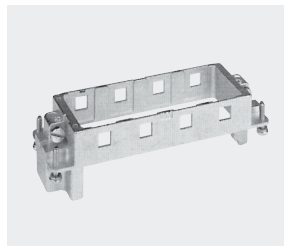
Model : 11108782-1 (male)  
1108782-2 (female)



See HTS Catalogue: P.114 to P.116

Size 8 (4 module type)

Model : 1108780-1 (male)  
1108780-2 (female)



See HTS catalogue P.138 to P.140

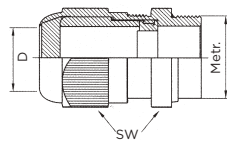
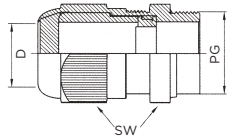
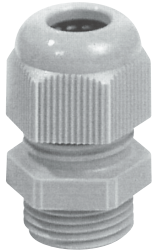
NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

Dynamic HTS Module

Cable Fitting

Plastic type

Grand fitting IP 68 plastic

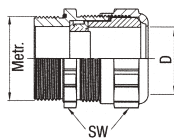
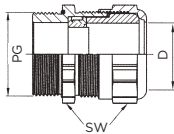


PG	Dimension D		SW	Designation	Part Number
	Minimum	Maximum			
11	5	10	22	HUT.11.P	1-1106005-7
13.5	6	12	24	HUT.13.P	2-1106005-7
16	10	14	27	HUT.16.P	3-1106005-7
21	13	18	33	HUT.21.P	4-1106005-7
29	18	25	42	HUT.29.P	5-1106005-7

Metr.	Dimension D		SW	Designation	Part Number
	Minimum	Maximum			
M16	4	8	20	HUT.M16.P	1-1102771-6
M20	6	12	24	HUT.M20.P	2-1102771-0
M25	10	14	29	HUT.M25.P	2-1102771-5
M32	13	18	36	HUT.M32.P	3-1102771-2
M40	18	25	46	HUT.M40.P	4-1102771-0
M50	22	32	55	HUT.M50.P	5-1102771-0

Metal type

Ground fitting IP68 neoprene sealing insert or ring with a nickel plated brass connection screw



PG	Dimension D		SW	Designation	Part Number
	Minimum	Maximum			
11	5	10	20	HUT.11.MS	1-1106006-9
13.5	6	12	22	HUT.13.MS	2-1106006-9
16	10	14	24	HUT.16.MS	3-1106006-9
21	13	18	30	HUT.21.MS	4-1106006-9
29	18	25	40	HUT.29.MS	5-1106006-9
36	22	32	50	HUT.36.MS	6-1106006-9
42	32	38	57	HUT.42.MS	7-1106006-9

Metr.	Dimension D		SW	Designation	Part Number
	Minimum	Maximum			
M16	5	10	17	HUT.M16.MS	1-1102770-6
M20	6	12	22	HUT.M20.MS	2-1102770-0
M25	13	18	27	HUT.M25.MS	2-1102770-5
M32	18	25	34	HUT.M32.MS	3-1102770-2
M40	22	32	43	HUT.M40.MS	4-1102770-0

There are also many other options available. Please refer to P.188-193 of the HTS Catalogue for more information.

D-7000 Series Performance Specifications Standards

Performance Specifications/Wire Size/Current Rating

Item			
Pitch	16mm		
Current Rating	65A max		
Voltage Rating	630V AC/DC		
Dielectric Withstanding volatage	3000VAC		
Total Resistance	2mΩ max		
Insertion Strength	9.8N max (per pole)		
Withdrawal Strength	1.96N min (per pole)		
Durability	20 times (gold 0.76 μ m/hour)		
Lock Strength	196Nmin		

Pos. Number/Wire Size/Current Rating

Units: A (Amps).

No. of Pos.	Series	Wire Size(AWG)					
		14	12	10	8	6	
4	Board-to-wire	18	23	31	35	50	60
4	Wire-to-wire	-	-	31	35	55	65
4	(wire to wire cable clamp type)	-	-	25	35	45	55

Performance Specifications

Product Standards	108-78470
Test Report	501-78004
Mounting Applicatoin Standard	114-5452

Please order the manual concurrently. An e Catalogue is also available for download from the internet.

Material & Completion

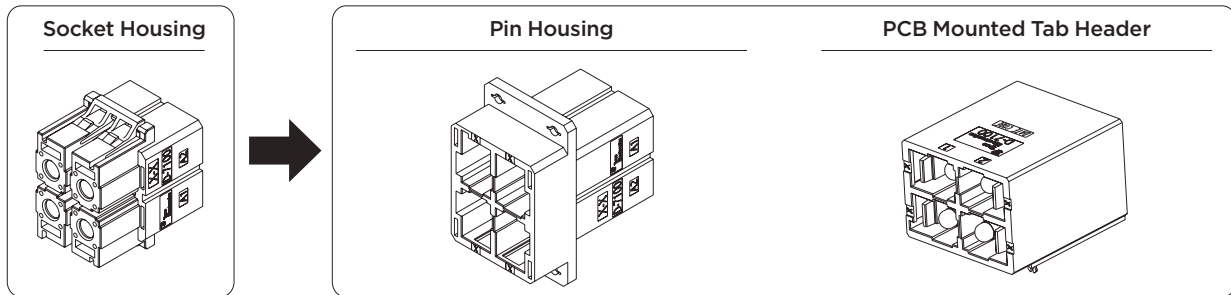
Category	Item	Pin Socket	Socket Contact Spring (crown contact)
Contact	Material	Copper	Copper Alloy
	Finishing	Nickel Undercoat Silver Plating	Nickel Undercoat Gold Plating
Board Side Tab Post	Material	Copper	
	Finishing	Nickel Undercoat Silver Plating	
Housing	Material	UL94V-0, glass-reinforced thermoplastic PBT	

Safety Specifications

For safety specifications, please contact our sales department or purchase distributor.

D-7100

Part Number Chart



No. of Pos.	Color	Socket Housing	Plating	Pin Housing	Board Mounted Tab Header
4	Black	2134055-1	Silver	2134057-1	1981823-1

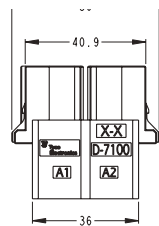
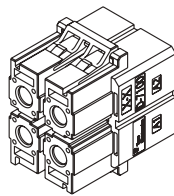
Related product information

Application Contact ...P.96

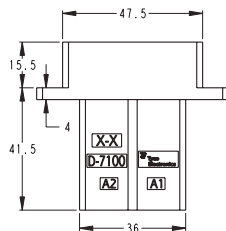
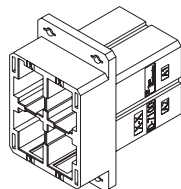
Performance • Specifications ...P.95

External Dimension

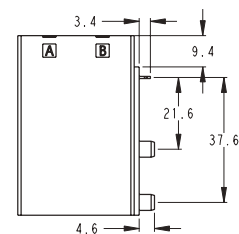
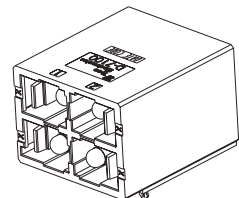
- Socket Housing  
4 Pos. Model  
number : 2134055-1



- Pin Housing  
Panel type  
4 Pos. Model  
number : 2134057-1



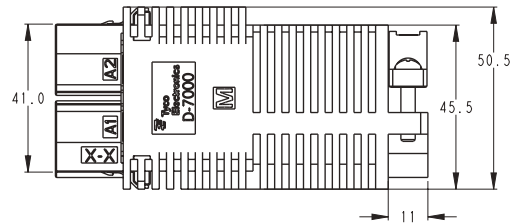
- Board Mounted Tab Header  
4 Pos. Model  
number : 1981823-1



NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

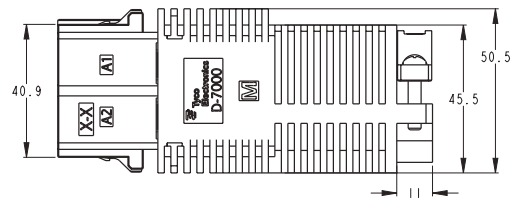
### D-7100 Dyna-Clamp Kit

#### External Dimension



No. of Pos.	Color	Cable Size	Part Number
4	Black	S $\Phi$ 19-25	2-2069313-1
		M $\Phi$ 25-31	1-2069313-1

### D-7300 Dyna-Clamp Kit



No. of Pos.	Color	Cable Size	Part Number
4	Black	S $\Phi$ 19-25	2-2069312-1
		M $\Phi$ 25-31	1-2069312-1

#### Related product information

Application Contact ...P.96

Performance • Specifications ...P.95

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

## Dynamic Pneumatic Connector

### Performance Specifications

Item	Standard Value	
	Resin Contact	Metal Contact
Working Fluid	Air	Air and Water
Maximum Pressure Used	0.8MPa	1.0MPa
Effective Cross-Sectional Area	3.14mm <sup>2</sup>	8.80mm <sup>2</sup>
Tube Holding Force	39.2N	39.2N(φ 4)
		58.8N(φ 6)
No. of Insertions and Withdrawals	500 times	
Insertion force/Pin	9.8N max	
Withdrawal Force/Pin	9.8N max	
Ambient Temperature Use	0-60°C (NBR)	
	0-105°C (FKM)	
Applicable tube	O.D. : 4mm	OD. : 4, 6mm
	ID. : 2.5mm	ID. : 2.5, 4mm

### Applicable Tube

Tube Description	Material
PN	Polyolefin type
PFA	Fluorine Resin
Urethane	Polyurethane type
Nylon	Nylon type

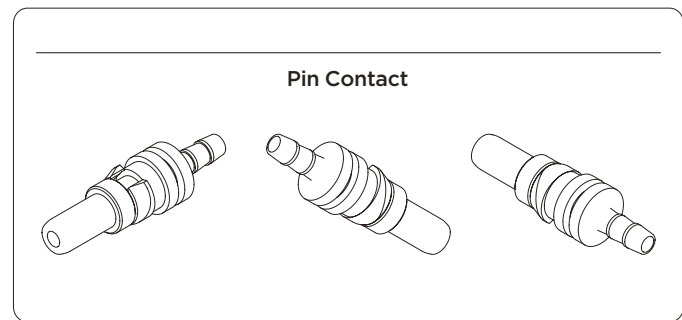
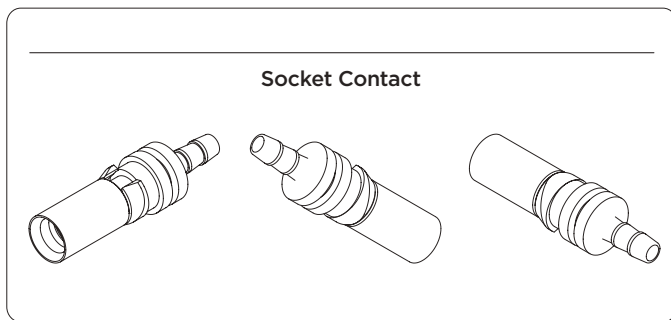
### Performance Specifications

Product Standards	108-78406
Withdrawal Tool Product Number : 1999435-1	411-78240
Test report	501-5782

### Material & Completion

Category	Material
Resin Contact	Polyacetal Resin
Metal Contact	Brass/Nickel Plated
Plastic Ring	Polyester Resin
O ring	Nitrile Rubber (NBR) Fluorine Rubber (FKM).
Housing	UL94V-O, Glass-Filled Polyester PBT black

### Part Number Chart



Applicable Tubing ODdiameter	Contact Material	Socket Contact	Pin Contact	Puller
4	Resin	1903289-1*	1903100-1※	1999435-1
			1903100-2***	
	Metal	2013714-1*	2013716-1	
		2013714-2*		
6	Metal	2013597-1*	2013599-1	
		2013597-2*		

O rings: plastic contact loads to pin contact side, metal contact loads to socket contact side.  
All contacts fit all housings

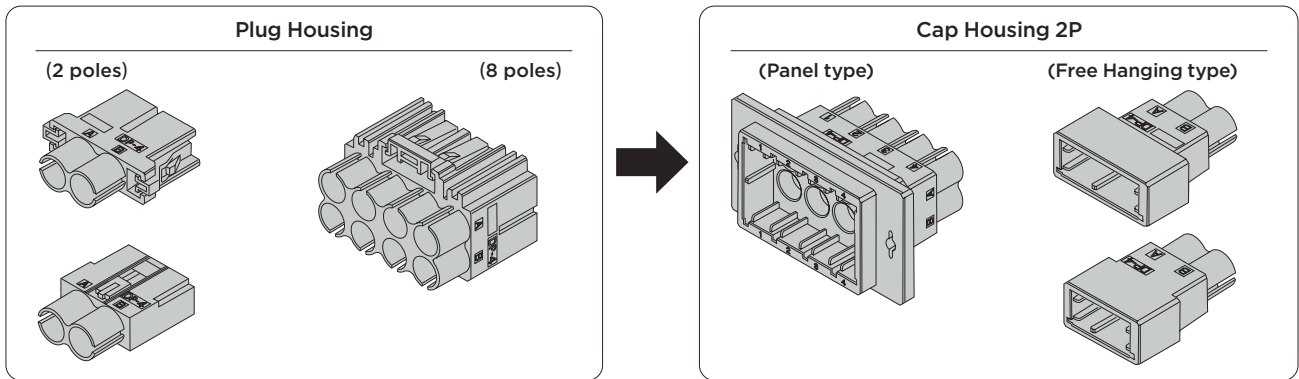
1. O ring material is NBR
2. O ring material is FKM

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time



Dynamic Pneumatic Connector

Part Number Chart



No. of Pos.	Plug Housing	Cap Housing	
		Panel type	Free Hanging type
2	1903105-1	-	1903305-1
2	1981040-1*	-	1981039-1*
8	1903104-1	1903106-1	-

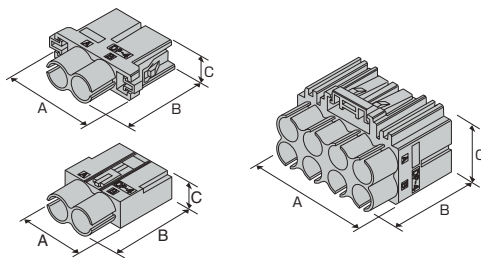
\* space saving type

Related product information

Application Contact ...P.101  
Performance • Specifications ...P.101

External Dimension

• Plug Housing (2 pole)



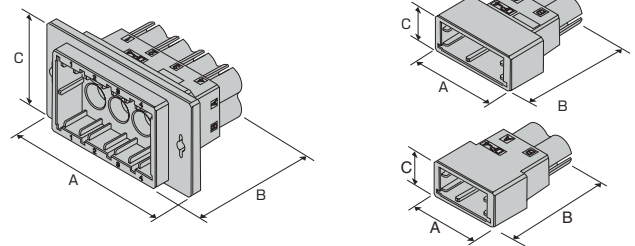
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	-	-	Black	1903105-1	32.0	27.8	9.2
2	-	-	Black	1981040-1*	21.5	27.8	10.9
8	-	-	Black	1903104-1	37.7	27.8	31.3

\* space saving type

• Cap Housing

Panel type

Free Hanging type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
2	-	-	Black	1903305-1	28.1	32.3	12.8
2	-	-	Black	1981039-1*	24.7	32.3	12.7
8	-	-	Black	1903106-1	58.9	32.3	32.1

\* space saving type

NOTE: All products are RoHS compliant On selection.  
You need to confirm LOT and lead time

## Multiple Enclosure Connector

### Performance Specifications

Items	Standard
Current Rating	see right
Voltage Rating	125VACrms (2mm pitch products)
Dielectric Withstanding Voltage	1000VAC (1 minute)
Operating Temperature	-30°C-105°C (including temperature rise through power conduction)
Total Resistance (low level)	10mΩ max (initial)
Insulation Resistance	1,000MΩ minimum (initial)
Insert Strength	39.2N max (per pole)
Withdrawal Strength	4.9N max (per pole)
Durability	50 times
Enclosure Lock Strength	98N min

### Performance Specifications

#### Metal type

Product Standards	108-78417
Mounting Application Standard	114-5377
Manual	411-78287, 78288 (14+1P) 411-78262, 78277 (24P)

#### Mold type

Product Standards	108-78566
Mounting Application Standard	114-5377
Manual	411-78293 (32P)

**Contact** Refer to D-1000, D-3000

### Housing

#### Metal type

Contact	Receptacle Contact Tab Contact						
Wire size No. of Pos.	AWG #18	AWG #20	AWG #22	AWG #24	AWG #26	AWG #28	AWG #30
24Pos	-	-	2	1.5	1	0.8	0.5
14+1Pos	3.5	2.7	2.5	2	1.5	1	0.8

#### Mold type

Contact	Receptacle Contact Tab Contact				
Wire size No. of Pos.	AWG #22	AWG #24	AWG #26	AWG #28	AWG #30
32Pos	1.5	1	0.8	0.5	0.5

### Material & Finish

#### Metal type

Description	Material	Finish
Contact	Copper Alloy	Contact Portion: Gold Plated Undercoat: Nickel Plated
Housing	94 UL V-0, Thermoplastic Polyamide	-
Connector Case	Zinc	Nickel Plated
Packing	Nitrile Rubber	-
Shield Grip	cold rolled steel	Completion: Nickel Plated Undercoat: Copper Plating

#### Mold type

Description	Material	Finish
Contact	Copper Alloy	Contact Portion: Gold Plated Undercoat: Nickel Plated
Housing	94 UL V-0, Thermoplastic Polyamide	-
Connector Case	94 UL V-0, Thermoplastic Polyamide	-
Packing	Nitrile Rubber	-

## Applicable Tools

- AMP - 3K/AMP - 5 K Tabletop Crimping Machine.

AMP - 3K/AMP - 5 K is a compact, low-cost desktop crimping machine. A DC motor linear scheme is used for low noise and motor speed adjustment can be easily changed. It offers a wide range of crimping operations options with simple operation and a comfortable working environment.

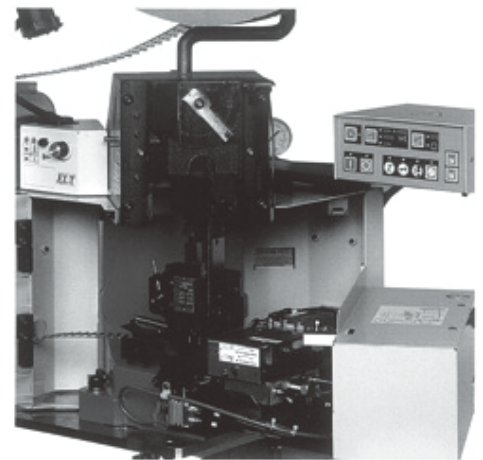
Name	AMP-3K	AMP-5K
Type Universal Mount Type	1725950-3	1725900-3
no. AMP Quick Mount Type	1-1725950-2	1-1725900-2
Stroke	30 mm stroke	
Dimensions	safety cover closed with side feed applicator (Reels) : 512 mm (width) X 415 mm (depth) x 510 mm (height).	
	safety cover closed with side feed applicator (Reels) : 427mm (width) X 523mm (depth) x 510 mm (height).	
Weight	approximately 70kg (Crimp machine itself).	
Power Source	100 and 240 V AC ( + /- 10 %) single phase 50/60 Hz (6A)	
Cycle Time	0.4 seconds (Jog mode feature when released).	



- SCM Stripper Crimping Machine (Tabletop Crimping Machine)

Stripper Crimping Machine with exchangeable Dices. With optimum processing of jacket cable ends, the operator selects strip, and crimp, strip only or crimp only with one touch.

Type	AMP - 3K specification. 1596509-3	AMP - 3K specification. 1596509-4
Applicable Wire	AWG 32-14 max high-insulation outline 5.08mm (some AWG 32- 30 is not suitable). For details please contact us	
Jacket strip Dimensions	Min 29mm (for 29 - 45mm strip, wire set). time takes a little more than usual	
Strip Length	2.5 - 10mm	
Usable Applicators	Our 40mm stroke side feed applicator (Side Feed).	
Noise Level	< 82 dB	
Crimp Ability	13,345 N (1,360 kgf) AWG 14 crimp.	22,226N (2,268 kgf) AWG 10 crimp (SCM up to AWG14)
Power Supply	AC 100-240 V single-phase 50/60 Hz	
Air Pressure	0.49 - 0.59MPA(5 - 6kg/cm <sup>2</sup> )	
Machine Weight	Approximately 80kg	



AMP - 3K SCM specification.

### Applicable Tools

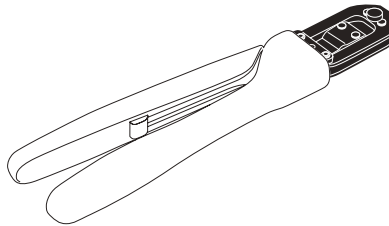
- Hand Tools: PEW 12, D-1000 Series, D-3000 Series, D-4000 Series



- Crimping with a straight action feel  
By manipulating the fulcrum of the handle, we have created a crimper that, while double action, is almost like straight action.
- Interchangeable dies  
The dies are easy to change. This means a wide variety of terminals can be handled with the minimum number of tools.
- Improve work efficiency  
Contact series, wire sizes and crimp heights printed on work surface of dies.
- Lower cost than existing specialized tools  
The superior functionality you want, at a price you like.

- Hand Tools CERTI-CRIMP II, D-1000 Series Flip Locator, D-2000 Series, D-3000 Series, D-5000 Series

Crimp part, as well as the machine, are highly reliable, Straight action method is introduced.



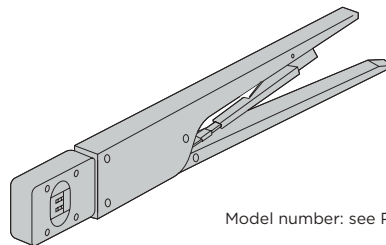
Model number: see P. 28, 38, 72

Handles are completely covered in urethane to be easy to grip and gentle to workers' 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.

D - 1000 series flip locator.

- Hand Tool Series D-4000

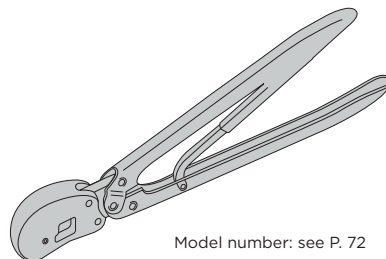
Crimper uses the reliable straight action method



Model number: see P. 28, 38, 72

- Hand Tool D-5000 Series

As with machine use, the reliable straight action method is used.



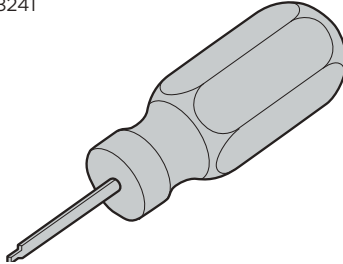
Model number: see P. 72

### Applicable Tools

• Extraction Tool for D-1000 Series

Used to pull D-1000 from the housing

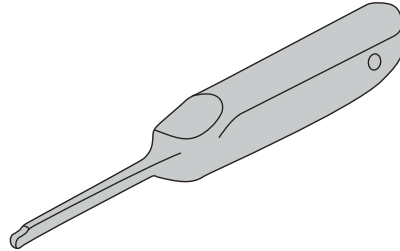
Part number 1891526-1  
Manual: 411-78241



• Extraction Tool for D-2000 Series

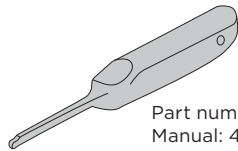
Used to pull D-2000 contacts from the housing

Part number 1276716-1  
Manual: 411-5900



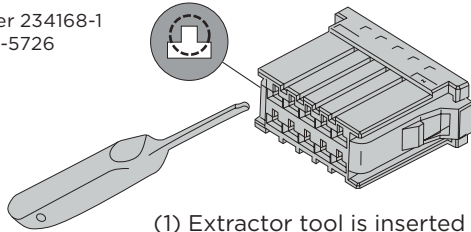
• Extraction Tool for D-3000 Series

wiring type tool for pulling the contact from the housing

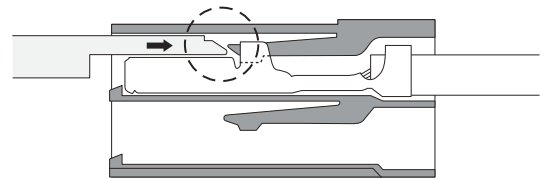


Part number 234168-1  
Manual: 411-5726

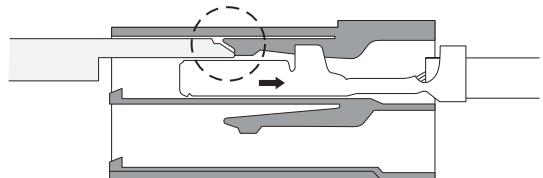
using the extractor



(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 withdrawn

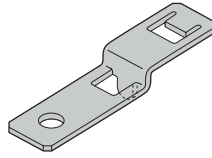
\* Take care not to insert into the Contact Section. If you have inserted by error, replace the damaged contact with a new one before proceeding.

Accessories

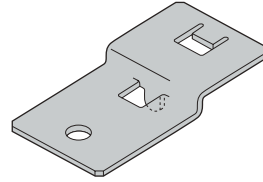
• L bracket D-3000

Used to secure free-hanging type tab housings onto panels. Two styles, large and small, are available, the former for large-size housings and the latter for small housings. Applicable housings are specified in the table of housings

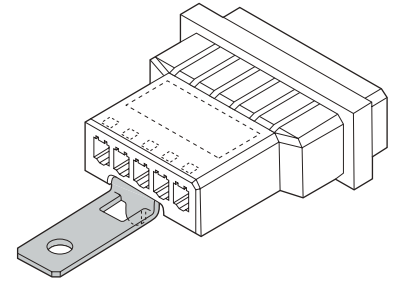
- 5900121-2 (S)
- 5900121-4 (L)



Part number : 5900121-2(S)

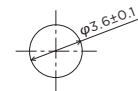
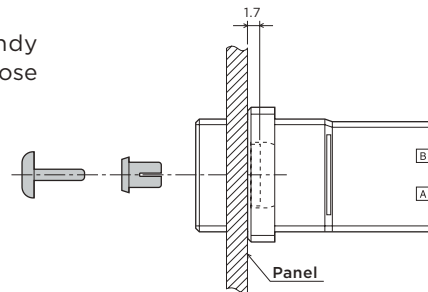
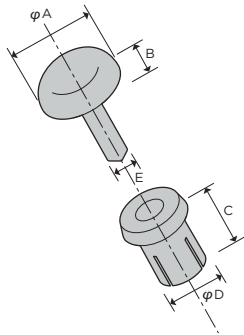


Part number : 5900121-4(L)



• Push rivets D-3000

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



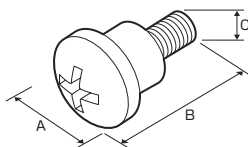
Panel Hole Machining recommended

Part Number	Panel Thickness	Dimensions					Insert Strength	Retention Force
		A	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	6.4	1.6	5.5	3.5	1.95	19.6N-29.4N	127.4N Min.*

\* when using 2

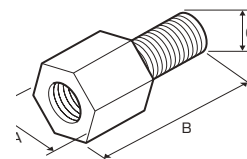
Panel Mounting Screws D-2000, D-3000

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



Panel Mounting Hex Screws D-2000

Part Number	Dimensions		
	A	B	C
1376059-1	5.5	12.3	M3





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1762120	65	2155503	72,81
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