

# **DYNAMIC SERIES CONNECTORS**

2024 Edition





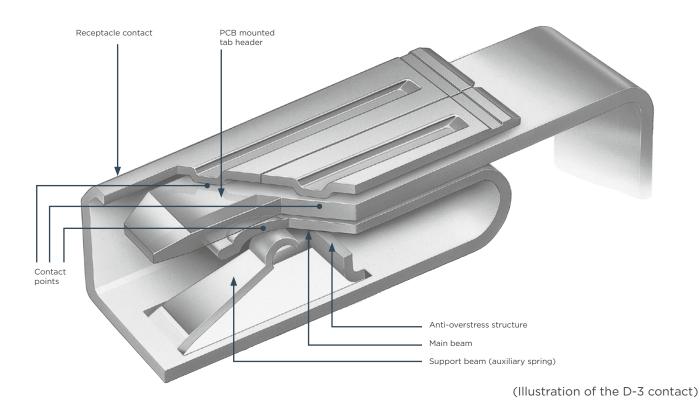
# **List of the Dynamic series connectors**

	Series	Name						Mountii		inical Po	eriorina	ance				
									Mounting Methods Wire-to-board							
Caulaa	Family images	Cub sories	Dagawintian	_ ≦	D	IP .		MT	3 7	□			₽	Во	Number of	
Series		Sub-series	Description	Wire-to- Wire	Vertica type	Hori-	Vertical type	Hori-	Panel mount	DIN Rai	Тар	Wire	Drawer	Board to board	positions	
<u>Mini</u>	***	Mini	Double-row Stan- dard	_	-	_	_	0	_	_	_	_	_	-	12,16,20,24, 28,32,36,40,44	
Slim	200	Slim	Small Standard	0	_	_	_	_	_	_	_	_	_	_	2,3,4,5,6,7,8,9,12,18,2	
		1100S	Standard	_	0	0	_	_	_	_	_	_	_	_	4,8,10,12,16	
		1100D 1200S	Standard	0	0	0	0	_	0	_	_	_	-	-	10,18,20,22,24, 26,28,34,40	
1000		1200S 1200D	High Voltage High Voltage	0	0	0	_	_	0	_	_	_	_	_	2 4,6,8,10,12,16,20	
	0.0	1500T	Module Type	_	0	0	_	_	0	0	_	0	_	-	3,6,9,10, 12,36	
		1900D	Spring Clamp Type	_	0	0	_	_	_	_	_	_	-	-	8,12,16,22,30,38	
		2100S	Standard	0	0	0	-	-	0	-	-	-	-	-	3	
	-	2100D	Standard	0	0	0	_	_	0	_	_	_	_	_	6,8,12,16,20	
		2100M	Multiposition Drawer	0	_	0	_	-	0	-	-	_	0	_	50	
2000		2600D	Hybrid Power/ Signal	_	0	_	_	_	_	_	_	_	_	_	48	
	1	2800	Multi-Frame	0	_	_	_	_	0	_	_	-	_	_	30	
		2950	Spring Clamp Type	_	_	0	_	_	_	_	_	_	_	_	5,6	
		2970	On-Site Push- -In Type	-	_	_	_	0	_	-	_	_	_	_	3,4	
		3100S	Standard & SMT	0	0	0	0	0	0	_	_	-	-	-	3,4,5,6,8,10	
		3100D	Standard	0	0	0	_	_	0	_	_	_	_	_	6,8,10,12,16,20	
		3100M	Module Type	_	0	0	_	_	_	_	_	_	_	_	6	
		3200S	High Voltage	0	0	0	_	_	0	_	_	_	-	_	2,3,4,5,6	
		3200M	High Voltage	0	0	0	-	_	0	_	_	-	0	_	6,10,12,20	
3000		3200FMLB	Sequential type	_	_	0	_	_	_	_	_	-	_	_	4,12 9	
		3200T	High Voltage	_			_						_	_		
		3400F	Skyscraper	0	0	0	_	_	0	_	_	_	_	-	12,20	
		3500D 3800	Modular Type Multi-Frame	0	_	_	_		0	_	_	_	_	_	2,4,6,12,20	
		3100/3200	Dynatap	_	_	_	_	_	_	_	0	_	_	_	6,18,24/ 4,24	
		3950	Spring Clamp Type	_	_	0	_	_	_	_		_	_	_	3,4,6,7,8,11	
		4200S	Standard	0	0	0	_	_	0	_	_	_	_	_	2,3,4	
4000		4200M 4800	Module Type  Multi-Frame	0	0	_	_	_	0	_	_	_	_	_	6,8	
		4950	Spring Clamp Type	_	_	0			_						8	
					_											
		5200S 5200M	Standard	0	0	0	_	_	0	_	_	_	_	_	2,3,4,6	
			High Voltage												4,6,8	
		5300S 5300D	Reversed Housing Reversed Housing	_	_	_	_	_	0	_	_	_	_	_	3	
			_								0					
		5200 5200Μα	Dynatap High Current		_	0	_		_	0	_	_	_	_	4,12,20 2,4	
<u>5000</u>	Research 1	32001 la	Dyna-Clamp kit	0	0	0	_	_	0	_	_	_	-	_	3,4	
	THE MININ			_	-	_	_	_	_	_	_	_	_	0	5,7	
	44 5	DZ-5200	Board-to-Board type	_	_	_	_	_	_	_	_	_	_	0	3,4	
		5800	Multi-Frame	0	_	_	_	_	0	_	_	_	_	_	4	
		5900	Spring Clamp Type	_	_	0	-	_	_	_	_	_	-	_	4,6	
	400 4	7100	Standard	0	_	0	_	_	0	_	_	_	_	_	4	
<u>7000</u>	40 4	7300	Reversed Housing	0	_	0	_	_	0	_	_	-	_	_	4	
	- 1		Dyna-Clamp kit	0	_	_	_	_			_	_	_	_	4	
8000		8000	Standard	_	0	_	0	0	0	0	0	0	0	0	2	
0+	ther products		Multiple Enclosure Connector						0						15,24,32	

# List of the Dynamic series

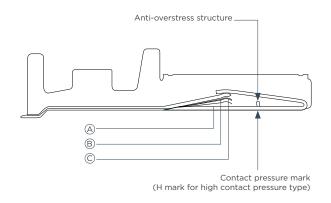
	Series N	lame	z		Ei		lectrical P	erforman	се	Safety Standards	
Series	Sub-series	Description	Number of Rows	Pitch (mm)	Wire Range (AWG)	Maximum rated current (A)	Maximum rated voltage (V)	Withstanding Voltage (V)	Durability (Cycles)	UL CSA TÜV	Correspon- ding Pages
<u>Mini</u>	Mini	Double-row Standard	2	1.8	22-26	3	250	650	30	UL : File No. E28476	10-13
Slim	Slim	Small Standard	1,2,3,4	_	22-30	4.5	250	1500	30	UL : File No. E28476	14-17
	1100S	Standard	1	2.0	30-22	3	125	1000			22-23
	1100D	Standard	2	2.0	30-22	3	125	1000		UL : File No. E28476	24-26
1000	1200S	High Voltage	1	2.5					Gold: 100	TÜV : License No. R50085096	27
1000	1200D 1500T	High Voltage Module Type	3,4	3.5	30-18	5	250	1500	Tin: 30		28-30 31-33
		Spring Clamp			04.10		150	1500		5". 11 500077	
	1900D	Туре	2	3.5	24-18	4	150	1500		UL : File No. E60677	34
	2100S	Standard	1		00.10	_	050		500	UL : File No. E28476 CSA : Report No. LR7189	39
	2100D	Standard	2	2.5	28-18	5	250		500	TÜV : License No. R9950679	40-41
	010014	Multiposition						1500			40
	2100M	Drawer	2		20	2.6	-	.000		UL : File No. E28476 CSA : Report No. LR7189	42
2000	2600D	Hybrid Power/ Signal	3		D-2(28-18) D-3(28-14)	D-2(3.2) D-3(7.5)	250		500	TÜV : License No. R9950679	43
	2800	Multi-Frame	6	3.75	28-18	5				R9950679	104-106
	2950	Spring Clamp Type	1	5.08	18-14	10	600	2200	Gold: 500	UL : File No. E60677	72
	2970	On-Site Push- -In Type	1	5.0	24-14	10(UL)/20(IEC)	300(UL)/ 400(IEC)	2210	Gold: 100; Tin: 25	UL : File No. E60677 VDE : Report No.	78
	3100S	Standard & SMT	1	3.81						40051749	49-52
	3100D	Standard	2	3.81			250	1500			53-54
	3100M	Module Type	2	3.81							55
	3200S	High Voltage	1	5.08							56-58
	3200M	High Voltage	2	5.08					Gold: 500	UL : File No. E28476 CSA : Report No. LR7189	59-63
	3200FMLB	Sequential type	2	5.08	28-14	15	800	2600		TÜV : License No.	64
3000	3200T	High Voltage	3	5.08					Tin: 100	R50084673 (VDE0627)	65-66
	3400F	Skyscraper	4	3.81			250	1500			67
	3500D	Modular Type	2	5.08			600	2200			68-69
	3800	Multi-Frame	4	6.5			600	2200			107
	3100/3200	Dynatap	3,6	3.81	28-14	15	250	1500			79-81
	3950	Spring Clamp Type	1,2	7.5	22-14	14.5	600	2200	Gold: 500	UL : File No. E60677	73
	4200S	Standard	1	6.35		24	600	2500		UL : File No. E28476	86-87
	4200M	Module Type	2	6.35	16-12	24	600	2500	25	TÜV : License No. R50084673	88
4000	4800	Multi-Frame	4	6.35		24	600	2500		UL : File No. E28476	107
	4950	Spring Clamp	1	7.5	16-10	22	600	3310	Gold: 500	UL : File No. E60677	74
		Type		7.0	10 10		000	00.0		02.11 110 1101 200077	
	5200S 5200M	Standard High Voltage	2								93-94 95-96
	5300S	Reversed Ho-	1						0.76µ Gold: 50	UL : File No. E28476	- 55 55
		using Reversed Ho-	-		16-10	30			0.38μ Gold: 25	CSA: Report No. LR7189 TÜV: License No.	98-100
	5300D	using	2	10.16			630	3000		R9650368	
	5200 5200Μα	Dynatap High Current	3 2		20-8	45			Silver: 25	-	99
5000	- -	Dyna-Clamp kit			16-10	30			0.76μ Gold: 50	_	100-101
0000		Dyna Clamp Kit		5.08	10 10	20	250	2200	0.38μ Gold: 25	UL : File No. E28476	100 101
	DZ-5200	Board-to-Board type	1	10.16	_	30	600	4000	15	CSA : Report No. LR7189 TÜV : License No.	102-103
	5800	Multi-Frame	2	12.0	16-10	30	630	3000	0.76μ Gold: 50 0.38μ Gold: 25	R50073218 UL : File No. E28476 CSA : Report No. LR7189	107
	5900	Spring Clamp Type	1	13.1	16-8	42	600(IEC)	2200	0.38μ Gold: 25	UL : File No. E60677	75
	7100	Standard	2	16	16-6	60 (board-to-wire)				LIL , Ell- N E00476	111
7000	7300	Reversed Ho-	2	16	16-6	65 (wire-to-wire)	630	3000	0.76μ Gold: 20	UL : File No. E28476 TÜV : License No.	112
	_	using Dyna-Clamp kit		16	_	55 (wire-to-wire cable clamp type)				R9650368	113
8000	8000	Standard	1	24.4	3	100A (wire-to-wire) 90A (wire-to-bo- ard)	1000	3000	10	_	114-117
Other		Multiple Enclo-	4,8	See deta	ails in series				age		

# **Contact Features (Example of the D-3000 Series connectors)**



### **Contact Pressure Adjustment Method**

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



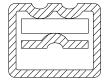
### (Applicable to the D-3 terminal)

Plating	Туре	Contact Pressure	Position	Contact Pressure Mark	Applicable Positions	Specifications	Application	Durability approximates cycles
Gold	Standard Con- tact Pressure	Around 1.47N	<b>(A)</b>	_	1-100	Standard	Used for si- gnal/power multi- position and High durability cycles circuits	500
Gold	High Contact Pressure	Around 2.45N	B	н	1-20	Vibration / High Current	Used for signal/Power supply/ Motor application with high- vibration feature	500
Tin	High Contact Pressure	Around 3.92N	©	Н	1~10	High Current	Used for signal/Power supply circuit with few durability cycles	100

# **Contact Features (Example of the D-3000 Series connector)**

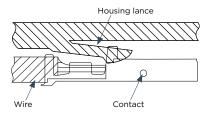
#### **Tab/Receptacle Contact**

Male side is tab, while female side is receptacle contact so as to avoid twisting. (Refer to figure below) Highly reliable 3-point contacts are used.



#### Fixing of the contact and housing

The housing lance is used to secure the contact in place. The lance ensures the contact stays secure in the housing and helps prevent damage during contact mating. In addition to these protective features, the housing lance produces an audible "click" helping ensure the contact is Securely locked in the housing. The contact can still be easily removed with extraction tool.

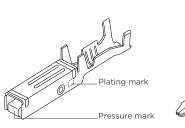


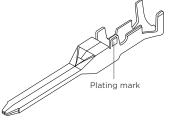
#### **Confirmation Marks**

- Contact Pressure marks....."H" mark on the bottom of the contact for high pressure contact product (standard pressure contact for those without the marks) (Only for D-3 contact)
- Plating marks.....To show clearly types and thickness of the plating. Following numbers will be marked on the side surface of the contact. This number is consistent with the additional number of contact's part model number.
  - -2.....Gold plating of 0.38µm in thickness
  - -3.....Gold plating of  $0.76\mu m$  in thickness
  - -5.....Tin plating
- Marking both contact series (D-1/D-2/D-3/D-4/D-5) and wire range (SS,S,M,L) on side surface of contact aim to avoid

#### Wire range marks

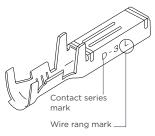
D-1		
D 2	S M L 2L	AWG#30-28 AWG#28-22 AWG#28-22 AWG#22-18
D-2	S	AWG#28-24
D 7	M	AWG#28-24 AWG#22-18
D-3	_	AVA/C#20 24
	S M L 2L 3L	AWG#28-24 AWG#24-20 AWG#20-16 AWG#16-14 AWG#16-14
D-4		
	M L	AWG#16-14 AWG#14-12
D-5/D5α		
	SS S M L	AWG#20-16 AWG#16-14 AWG#12-10 AWG#8



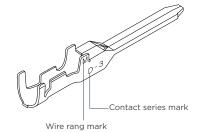


Receptacle Contact

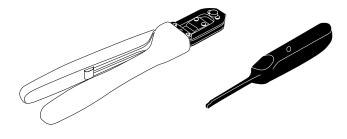
Tab contact







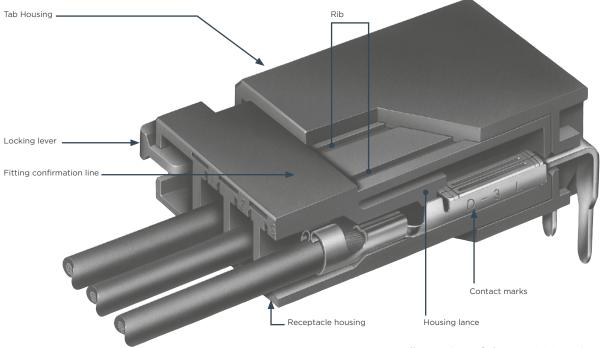
Receptacle Contact



Receptacle Contact

Receptacle Contact

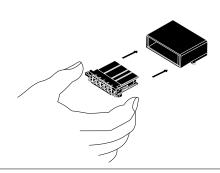
# **Housing Features (Example of the D-3000 Series connector)**



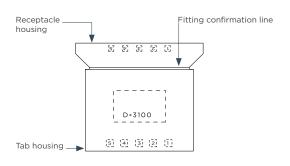
(Illustration of the D-3000 series connector)

#### Easier to insert and extract the connector

- When you insert or extract the connector, a clear "click" sound will be heard. A fitting confirmation line is provided to confirm the operation
- Pinch 2 locking levers on both sides of the housing to easily extract the receptacle side
   D-3000/D-3200/ D-4000/D-5200 series connector)

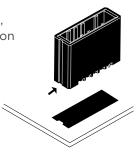


For safety consideration, well rounded corners will be used to help prevent hand Injuries when inserting or extracting the connector



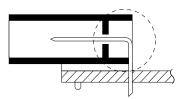
#### Vertical - type header

 To avoid mis- installation or mis- alignment of the header on board, pay attention to direction indicator (concave) of vertical-type header (only available for D-3000 Series)



#### **Housing to protect Tin-plated contacts**

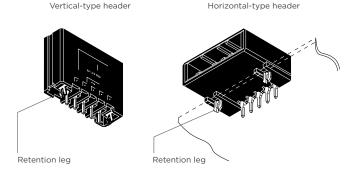
 For protecting the soldering Tin-plated contacts, housing of horizontal type of header will be fully applied to cover contacts.

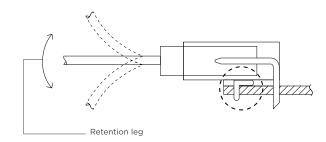


# **Housing Features (Example of the D-3000 Series connector)**

#### **Retention legs for board mounting**

- For robotic automatic implementation, the retention legs will be provided for both the vertical-type and the horizontal-type headers.
- Especially for the horizontal-type header, it
  is possible to mount to the bottom of the housing
  and it will not take up as wide a space as
  the conventional system. Retention legs are close
  to the insertion part of the receptacle housing so
  as to resist tilting caused by the cable.

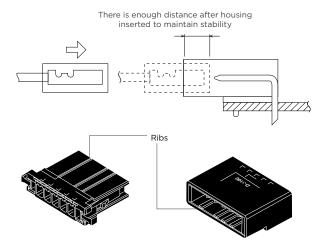




Note: The fixing pins are of the same thickness as the 1.6mm thickness circuit board. When they are used for a 2.4mm thickness circuit board, the strength will decrease somewhat.

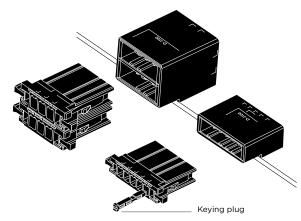
#### **Twisting Prevention Structure**

 The ribs are used in both receptacle housing and tab housing. This safety design can be used to significantly reduce backlashes between housings after the receptacle housing has been completely inserted into tab housing.



#### **Anti-mis-mating structure**

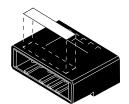
Part of the products (D-1200D/ D-2100S/D-2100D/ D-3100S/D-3100M/D-3200S/D-3200M/D-3200T/D-4000/D-5200S/D-5200M) is provided with key to prevent incorrect insertion. This plug, also makes it easier to prevent incorrect insertion of other items. (refer to Page 121, which shows the information of keying plug, for D-2000 series only; and Page 121, for D-3000 series only)



#### **Label Mark**

 A flat side portion is provided in the housing for custom labels.



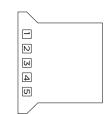


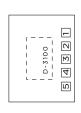
#### Easy-to-read circuit number

Receptacle

housing

To facilitate cable assembly, tab and receptacle housings will be marked with circuit numbers.





Tab housing

# **Guideline for plating selection**

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

Whether to use gold or tin plating depends 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 Dynamic series as a reference in the selection process.

#### (1) Selection based on voltage and current

	Gold plated	Undetermined zone	Tin	No plating (Reference)
Voltage	Below 3 V	3 to 30 V	30 ~ 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 10, 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, and environmental parameters are the key variation to consider due to extensive impact on the application.

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

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

Selection 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 pressure is too high, mating and demating becomes 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. To prevent oxidation, we use tin (approximately 2.94 N optimum contact pressure) or gold (approximately 1.18 N) plating. Even though, the contact pressure increases proportionally as we increase the number of contact positions, it makes mating and demating 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 when the limit exceeds.

The D-3000 series connector has a maximum of 20 contact positions. The contact pressure per pin 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, the insertion and extraction force of 20-position connector will be 58.8N and 49.0N, which is difficult because it exceeds the range for barehanded work. Therefore, gold plating are selected when position is increased 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 Standard contact pressure parts:	1.47N	20
(2) Gold High contact pressure parts:	2.45N	20
(3) Tin High contact pressure parts:	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 environmental parameters about voltage and current were discussed in section 1, it is summarized again here. Use gold plating in a harsh environment, particularly for high vibration or heat, the presence of gas or other harsh conditions. Gold is a noble metal and does not react easily with other materials which means good resistance to oxidation. This is a very important property for contacts.

Also, if vibration is an issue, fretting corrosion (micro- abrasion) is a risk. In cases like this, gold plating is always the recommended choice.

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

#### (4) Others considerations

#### Contact between dissimilar metals

Whether to use gold or tin plating depends on the voltage, current, environment (vibration, temperature, gas, etc.), number of contact positions, and other variables.

#### Being consistent within an application

We recommend that, as much as possible, the same type of plating be used within one application. This is to help prevent connections being made between dissimilar metals, gold and tin as mentioned on the left, during assembly and maintenance. And for the same reason, we recommend using the same plating in factories or workplaces where assembly or harness production is done.

The above information has been summarized in "Plating selection at a glance" for your convenience.

Best

Good

Usable

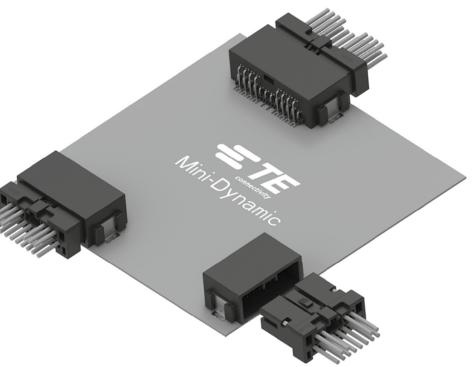
Unacceptable

#### Platings selection at a glance

				Gold	plated	
Voltage/Current	Application	Tin plated	0.38	Зμ	0.76	ôμ
			Standard pressure	High pressure	Standard pressure	High pressure
	Standard specifications	_	**	**	***	***
	Vibration	_	*	**	*	***
Below 3V Below 1A	Harsh environment	_	*	*	**	***
	Extensive mating/ unmating	_	**	*	***	**
	Many contact positions	_	***	**	***	**
	Standard specifications	_	**	**	***	***
	Vibration	_	*	**	*	***
3 to 30V 1 to 10A	Harsh environment	_	**	**	***	***
	Extensive mating/ unmating	_	**	*	***	**
	Many contact positions	_	***	**	***	**
	Standard specifications		***	***	***	***
	Vibration	_	**	***	**	***
Over 30V Over 10A	Harsh environment	_	**	**	***	***
	Extensive mating/ unmating	_	***	**	***	**
	Many contact positions	_	***	**	***	**

The above table is based on industrial equipment with sufficient margin reserved. There are various combinations depending on the application, so it is not necessarily as shown in the above table, which is for reference only.

# **Mini Dynamic Series connector**



## Series Introduction

The Dynamic Mini Sub-series, as the name suggests, are the smallest connectors in the Dynamic family, with superior low profile design, both in height and pitch. It is highly reliable for use in applications where board space is at a premium.

The Dynamic Mini Sub-series is superior in design with the same performance features found in all Dynamic products:

- Crimped terminals on the wire end
- Audible-tactile locking mechanism for male and female mating
- Double locking design for the wire-end terminals in the wire-end plastic housing
- Protective latch concept to helps ensure the reliability of the connection

It is also worth mentioning that halogen-free materials are used for the board-end plastic housing.

The higher reliability and smaller size make the Mini Sub-series not only usable in the industrial environment, but can also easily meet the needs of other applications in automotive and robotics, which require higher vibration resistance.

# **Product Highlights**

#### 1. Small size

The Dynamic Mini Series has a lower profile than the D-1100 D Series, especially in the height, which provides more valuable space on the board.

#### 2. Secondary locking design

Dynamic Mini introduces the secondary locking design, in addition to the conventional terminals for cable wrapping and crimping. There is also a flush-mounted latch on the plastic housing which provides additional locking of the terminal into the plastic housing increasing reliability. This further helps reduce the risk of the cable loosening.

#### 3. Sunken unlocking structure

In addition to inheriting the superior audible- tactile locking design of the Dynamic Series, the Mini sub-series has a unique protective latch concept. Compared to the D-1200 series, which raises the plastic housing around the unlocking structure

to protect the latch and prevent accidental unlocking. The Dynamic Mini achieves the same function through a sunken design that is more user-friendly.

#### 4. Tin-plated terminals

The choice of tin plating, together with the secondary locking and sunken unlocking structure, makes the Dynamic Mini products cost effective.

#### 5. Board- end surface- mount

(SMT) design, suitable for reflow soldering high temperature material is selected for the boardend plastic housing, suitable for reflow soldering. The soldering plate of the terminal is surfacemounted (SMT), which facilitates automatic pick and place.

NOTE: All products are RoHS compliant On selection.

# **Mini Dynamic Series Performance and Specifications**

#### **Performance**

Series	Mini Dynamic
Pitch	1.8 mm
Rated voltage (max)	250V AC/125V DC
Rated current (max)	3A
Contact resistance	30mΩ max
Withstanding voltage	650V
Operating temperature	-40°C to 125°C

# Positions / Wire size / Rated current

Mini Dynamic

Positions		Cable size (AWG)	
Positions	22	24	26
12-20	3	2	1
24-44	3	2	1

# **Product Specification and Instruction Sheet**

Product Specification	108–137443 (reference for industrial field) 108–137526 (reference for automotive field)
Application Specification	114-137526 (for receptacle contact) 114-137527 (for receptacle connector assembly)

# **Materials and Plating**

Category	Material
Contact	Copper alloy
Plating in mating area	Tin over nickel underplated
Plastic housing	UL94-V-0
Plastic housing of header	High temperature nylon, halogen free
Plastic housing of receptacle (wire end)	PBT (with halogen free version)
Retention pin	Copper alloy
	X and Y mechanical codings

# **Mini Series Contact**

# **Crimp Contacts**





	Wire Range				le Contact	Application Toolings			
AWG	mm²	Outer diameter of insulation mm	Wire range mark	Plating	Strip Form	Hand Tool	Ocean Applicator	Extraction Tool	
26	0.13~0.17	0.85~1.10	S	Tin	2834464-5	2402611-1	2151332-2	2074501.1*	
24~22	0.22~0.35	0.95~1.30	М	Tin	2834464-6	2401910-1	2151524-2	2834501-1*	

# Mini Dynamic Double-row Standard Types - 1.8mm pin pitch

# **Type Chart**



Pos.	Color	Key	Rece	ptacle	Header (Halogen free)
POS.	Color	Key	Standard	Halogen free*	Tin plating
12	Black	X	1-2834461-2	1-2834627-2	1-2834465-2
12	Black	Υ	1-2834497-2	1-2834628-2	1-2834499-2
16	Black	×	1-2834461-6	1-2834627-6	1-2834465-6
16	Black	Υ	1-2834497-6	1-2834628-6	1-2834499-6
20	Black	×	2-2834461-0	2-2834627-0	2-2834465-0
20	Black	Υ	2-2834497-0	2-2834628-0	2-2834499-0
2.4	Black	X	2-2834461-4	2-2834627-4	2-2834465-4
24	Black	Υ	2-2834497-4	2-2834628-4	2-2834499-4
20	Black	X	2-2834461-8	2-2834627-8	2-2834465-8
28	Black	Υ	2-2834497-8	2-2834628-8	2-2834499-8
32	Black	×	3-2834461-2	3-2834627-2	3-2834465-2
32	Black	Υ	3-2834497-2	3-2834628-2	3-2834499-2
7.0	Black	X	3-2834461-6	3-2834627-6	3-2834465-6
36	Black	Υ	3-2834497-6	3-2834628-6	3-2834499-6
40	Black	X	4-2834461-0	4-2834627-0	4-2834465-0
40	Black	Υ	4-2834497-0	4-2834628-0	4-2834499-0
44	Black	X	4-2834461-4	4-2834627-4	4-2834465-4
44	Black	Υ	4-2834497-4	4-2834628-4	4-2834499-4

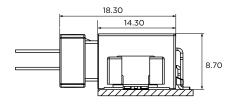
NOTE: All products are RoHS compliant on selection.
\* Preliminary to release

# Mini Dynamic Double-row Standard Types - 1.8mm pin pitch

#### **Relative Product Information**

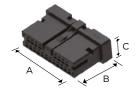
Applicable contact...P.12 Performance & specifications...P.11

#### **Mated Dimensions**



#### **External Dimensions**

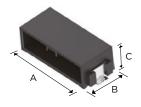
Receptacle Housing



Dos	Pos. Color K		Part N	umber		Dimensions		
POS.	. Coloi Rey	Key	Standard	Halogen free*	А	В	С	
12	Black	X	1-2834461-2	1-2834627-2	10.7			
12	Black	Υ	1-2834497-2	1-2834628-2	19.3			
16	Black	X	1-2834461-6	1-2834627-6	22.9			
16	Black	Υ	1-2834497-6	1-2834628-6	22.9			
20	Black	X	2-2834461-0	2-2834627-0				
20	Black	Υ	2-2834497-0	2-2834628-0	26.5			
24	Black	X	2-2834461-4	2-2834627-4	30.1	701		
24	Black	Υ	2-2834497-4	2-2834628-4		15.7		
28	Black	X	2-2834461-8	2-2834627-8	77.7		8.35	
28	Black	Υ	2-2834497-8	2-2834628-8	33.7	15./	8.35	
32	Black	X	3-2834461-2	3-2834627-2	37.3	7.7		
52	Black	Υ	3-2834497-2	3-2834628-2	37.3			
36	Black	X	3-2834461-6	3-2834627-6	40.9			
36	Black	Υ	3-2834497-6	3-2834628-6	40.9			
40	Black	X	4-2834461-0	4-2834627-0	44.5			
40	Black	Υ	4-2834497-0	4-2834628-0				
4.4	Black	X	4-2834461-4	4-2834627-4	401			
44	Black	Υ	4-2834497-4	4-2834628-4	48.1			

### Board-Mounting Header

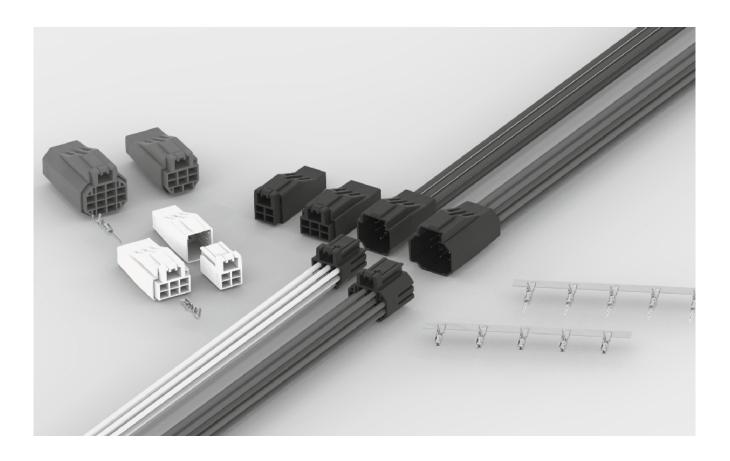
Horizontal type



Dan	Pos. Color Key	I/au	Part Number		Dimensions	
Pos.		Key	Tin plating	А	В	С
12	Black	X	1-2834465-2	10.5		
12	Black	Υ	1-2834499-2	19.5		
16	Black	X	1-2834465-6	23.1		
16	Black	Υ	1-2834499-6	25.1		
20	Black	X	2-2834465-0	26.7		
20	Black	Υ	2-2834499-0	20.7		
24	Black	X	2-2834465-4	30.3		
24	Black	Υ	2-2834499-4			
28	Black	X	2-2834465-8	33.9	12.3	0.7
28	Black	Υ	2-2834499-8	33.9	12.5	8.7
32	Black	X	3-2834465-2	37.5		
52	Black	Υ	3-2834499-2	37.5		
36	Black	X	3-2834465-6	41.1		
30	Black	Υ	3-2834499-6	41.1		
40	Black	X	4-2834465-0	44.7		
40	Black	Υ	4-2834499-0	44./		
44	Black	X	4-2834465-4	48.3		
44	Black	Υ	4-2834499-4	48.3		

NOTE: All products are RoHS compliant on selection.
\* Preliminary to release

# **Dynamic Slim Series**



### Series Introduction

The Dynamic Slim Series
Connector is a wire-to-wire
connection solution for smaller
devices in the industrial field. An
excellent blend of high reliability
and smaller size is achieved
through a balanced contact
arrangement, supporting the trend
toward miniaturization of devices.

# **Product Highlights**

#### 1. Small size

The Dynamic Slim Series connector has a size advantage over the D-1100 and D-1200 series based on a near-circular hole layout.

This is especially important when the product needs to be used in restricted spaces, such as the internal wiring of robotic arms. The more reasonable hole layout helps improve the efficiency of space usage.

# 2. Vibration-resistant terminal housing structure

Box receptacles and terminals are highly vibration-resistant. The slots in the housing prevent improper mating and provide high reliability.

# 3. Effective mating length

Although small, the reliability required for industrial devices is achieved by terminals that provides for effective mating length.

#### 4. Latching

When mating, a clear locking sound and sensation informs the operator, making it possible to complete work virtually without defects such as improper mating (half mating) even in an operating environment where visual inspection is not possible.

# **Dynamic Slim Series Performance and Specifications**

#### **Performance**

Rated voltage	AC/DC 250V max.
Withstanding voltage	AC 1,500 V / 1 minutes
Wire Range	AWG # 22 ~ # 30
Operating temperature	-55°C to +125°C
Durability	up to 30 cycles

# Positions / Wire size / Rated current

Dynamic Slim Series

Positions	Cable size (AWG)								
	AWG 22	AWG 24	AWG 26	AWG 28	AWG 30				
2-4	4.5	3.9	3.2	2.2	1.6				
5-6	4.2	3.4	2.9	2	1.3				
7-8	3.8	3.1	2.6	1.8	1.2				
9-12	3.5	2.8	2.3	1.6	1.1				

Temperature rise: 30°C max

# **Product Specification and Instruction Sheet**

Product Specification	108-140257
Application Specifications	114-5377
Instruction Sheet	408-78197

D iki	Positions	Cable size (AWG)							
Positi		AWG 22	AWG 24	AWG 26	AWG 28	AWG 30			
2-4	1	8.6	7.2	6	4.1	3.1			
5-6	5	8	6.4	5.5	3.7	2.9			
7-8	3	7.3	5.8	5	3.2	2.5			
9-1	2	6.5	5.2	4.4	2.9	2.3			

Ambient temperature: 25°C temperature rise: 100°C

# **Materials and Plating**

Category	Material	Finish		
Receptacle Contact Tab Contact	Copper	Gold plating (0.2μm)		
Housing	UL94V-0, thermoplastic PBT with glass fiber			

### **Dynamic Slim Contact**



Receptacle Contact (for Receptacle housing)

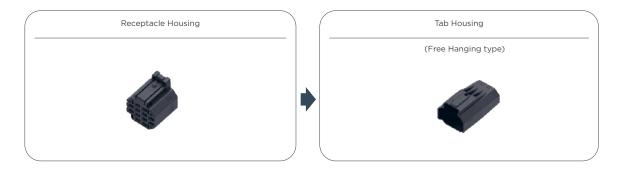


Tab contact (for Tab housing)

Wire Range					Contact					Applicable Tools				
		Outer Diameter of Insulation	Wire Ran-		Receptac	le Contac	Tab Contact			Micro	Extraction			
AWG mm²	mm	ge Mark	Plating	Strip Form	Loose Piece	Strip Form	Loose Piece	Hand Tool	Applicator	Tool				
30	0.05	0.6.10	S	2 S		2367817-1	2367818-1	2367819-1	2367820-1	2381707-1	2151110-1			
28	0.08	0.6 ~ 1.2			3	3		230/81/-1	230/818-1	236/819-1	230/820-1	(2119144-1 with 2381710-1)	2151110-1	
28	0.08						Gold							0707707 1
26	0.12	100 16		plating	2767017.0	2767010 2	2767010 0	2767020 2	2371748-1	0151000.1	2323787-1			
24	0.20	1.08 ~ 1.6	1.08 ~ 1.6 M	M	2367817-2	2367818-2	2367819-2	67819-2 2367820-2	(2119141-1 with 2381710-1)	2151082-1				
22	0.30													

# **Slim Small Standard Types**

# **Type Chart**

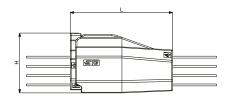


Pos			Receptacle Housing		Tab	Housing - Free Hanging	type		
	Key		Color		Color				
		Black	Natural	Blue	Black	Natural	Blue		
2	X	1-2375948-2	5-2375948-2	7-2375948-2	1-2375951-2	5-2375951-2	7-2375951-2		
2	Υ	2-2375948-2	6-2375948-2	8-2375948-2	2-2375951-2	6-2375951-2	8-2375951-2		
3	X	1-2375948-3	5-2375948-3	7-2375948-3	1-2375951-3	5-2375951-3	7-2375951-3v		
3	Υ	2-2375948-3	6-2375948-3	8-2375948-3	2-2375951-3	6-2375951-3	8-2375951-3		
	X	1-2366515-4	5-2366515-4	7-2366515-4	1-2366600-4	5-2366600-4	7-2366600-4		
4	Υ	2-2366515-4	6-2366515-4	8-2366515-4	2-2366600-4	6-2366600-4	8-2366600-4		
_	X	1-2375948-5	5-2375948-5	7-2375948-5	1-2375951-5	5-2375951-5	7-2375951-5		
5	Υ	2-2375948-5	6-2375948-5	8-2375948-5	2-2375951-5	6-2375951-5	8-2375951-5		
	X	1-2366515-6	5-2366515-6	7-2366515-6	1-2366600-6	5-2366600-6	7-2366600-6		
6	Υ	2-2366515-6	6-2366515-6	8-2366515-6	2-2366600-6	6-2366600-6	8-2366600-6		
_	X	1-2375948-7	5-2375948-7	7-2375948-7	1-2375951-7	5-2375951-7	7-2375951-7		
7	Υ	2-2375948-7	6-2375948-7	8-2375948-7	2-2375951-7	6-2375951-7	8-2375951-7		
_	X	1-2366515-8	5-2366515-8	7-2366515-8	1-2366600-8	5-2366600-8	7-2366600-8		
8	Υ	2-2366515-8	6-2366515-8	8-2366515-8	2-2366600-8	6-2366600-8	8-2366600-8		
_	X	1-2375948-9	5-2375948-9	7-2375948-9	1-2375951-9	5-2375951-9	7-2375951-9		
9	Υ	2-2375948-9	6-2375948-9	8-2375948-9	2-2375951-9	6-2375951-9	8-2375951-9		
10	X	3-2366515-2	5-2366515-2	7-2366515-2	3-2366600-2	5-2366600-2	7-2366600-2		
12	Υ	4-2366515-2	6-2366515-2	8-2366515-2	4-2366600-2	6-2366600-2	8-2366600-2		
10	X	1-2423582-8	5-2423582-8	7-2423582-8	1-2423584-8	5-2423584-8	7-2423584-8		
18	Υ	2-2423582-8	6-2423582-8	8-2423582-8	2-2423584-8	6-2423584-8	8-2423584-8		
0.4	X	1-2420333-4	5-2420333-4	7-2420333-4	1-2420334-4	5-2420334-4	7-2420334-4		
24	Υ	2-2420333-4	6-2420333-4	8-2420333-4	2-2420334-4	6-2420334-4	8-2420334-4		

#### **Relative Product Information**

Applicable contact...P.15
Performance & specifications...P.15

### **Mated Dimensions**



Ps	Н	L
4	8.9	21.5
6	8.9	21.5
8	11	21.5
12	13	21.3

<sup>\*</sup> Dimensions are in mm

# **Slim Small Standard Types**

### **External Dimensions**

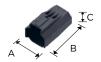
• Receptacle Housing



Pos	I/au	Key Plating	Color	Part Number		Dimensions		
POS	Pos Key P	Plating	Color	Part Number	А	В	С	
4	X		Black	1-2366515-4	6.1	10.5	8.2	
4	Υ		Black	2-2366515-4	6.1		8.2	
6	X		Black	1-2366515-6	8.8	10.5	8.2	
0	Υ		Black	2-2366515-6	8.8		8.2	
8	X	_	Black	1-2366515-8	8.8	10.5	10.5	10.2
8	Υ		Black	2-2366515-8	8.8	10.5	10.2	
12	X		Black	3-2366515-2	11.5	11.7	12.2	
12	Υ		Black	4-2366515-2	11.5	11.3	12.2	

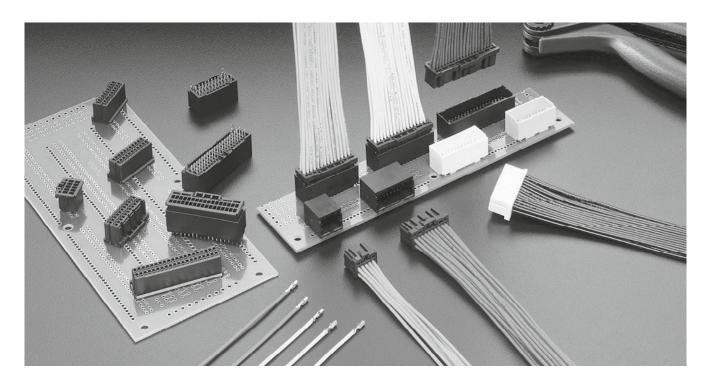
#### Tab housing

Free Hanging type



Pos	Key	Plating	Color	Part Number		Dimensions		
POS	Key		Color	Part Number	Α	В	С	
4	×		Black	1-2366600-4	7.2	19	8.6	
4	Y		Black	2-2366600-4	7.2	19	8.0	
6	X		Black	1-2366600-6	9.9	19.7	8.6	
б	Y		Black	2-2366600-6	9.9	19.7	0.0	
8	X	_	Black	1-2366600-8	9.9	19.7	10.6	
8	Υ		Black	2-2366600-8	9.9	19.7	10.6	
12	X		Black	3-2366600-2	12.6	21	12.6	
12	Υ		Black	4-2366600-2	12.6	21	12.6	

### 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 connectors consists of 3 different pitch sizes: 2.0mm standard type, 2.5mm high-voltage type and 3.5mm type. As market needs change, the D-1000 series will evolve to meet those demands.

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

From D-1000 series has wide applicable wire range of 30 AWG to 18 AWG with maximum 2.2 mm of outside diameter (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.

Standard crimping tools can be used for the D-1000 series by exchanging the die. The ability to exchange the die based on difference wire sizes helps shorten the lead-time and significantly reduces the cost of use for the hand tool.

# 3. Housing and Contact Features A) Housing products

The D-1000 series consists of D-1100 series with 2.0mm pitch center line, D-1200 series with 2.5mm pitch center line.The D-1500 series is 3.5mm pitch. In addition to black, the series is also available in other colors. Using different colors in the application can be helpful

in reducing the assembly time.

#### **B) Contact Products**

D-1000 series provide gold plating contact as standard products and also tin plating contact for economical market needs. Choose contact according to specifications, application, quality level and cost.

# 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
- The positioning dowels in the housing and the terminals do not come into contact, so damage to the terminals during operation can be kept to a minimum.
- Clear identification of circuit number helps with correct wiring
- Metal retention leg on header prevents unwanted movement from cable tension
- Housing lock design helps avoid wire scratching

Note: All models are RoHS compliant

# **D-1000 Series Performance and Specifications**

#### **Performance**

Series	D-1100	D-1200	D-1500	D-1900
Pitch	2.0mm	2.5mm	3.5mm	3.5mm
Rated voltage	125V AC/DC	250V AC/DC	250V AC/DC	150V AC/DC
Data da a comunitation and	1 pos: 3A	1 pos: 5A	1 pos: 5A	1 pos: 4A
Rated current (max)	With WG22	With WG18		
Contact resistance		20mΩ Max		40mΩ Max
Withstanding voltage	1,000V AC	1,500V AC	1,500V AC	1,100V AC
Operating temperature	-	-30°C ~+105°C		

# Positions / Wire size / Rated current

D-1100~1500 series

Dasitions	Wire Size (AWG)									
Positions	18	20	22	24	26	28	30			
1	5	4	3	2.5	2	1.5	1			
2~20	3.5	2.7	2.5	2	1.5	1	0.8			
21~40	_	_	2	1.5	1	0.8	0.5			

### **Product Specification and Instruction Sheet**

	108-78268 (gold-plated)		
pecifications	108-78298 (tin-plated)		
	108-78336 (D-1900)		
	114-5377 (D-1100,		
Applications Specifications			
Part number: 1762846-1	408-10414-JPN		
Part number: 1762950-1	408-10414-JPN		
Part number: 1762625-1			
per: 1891526-1 D-1900	411-78241		
Extraction tool part number: 1891348-1			
	Part number: 1762952-1 Part number: 1762846-1 Part number: 1762950-1 Part number: 1762625-1 per: 1891526-1 D-1900		

### **Materials and Plating**

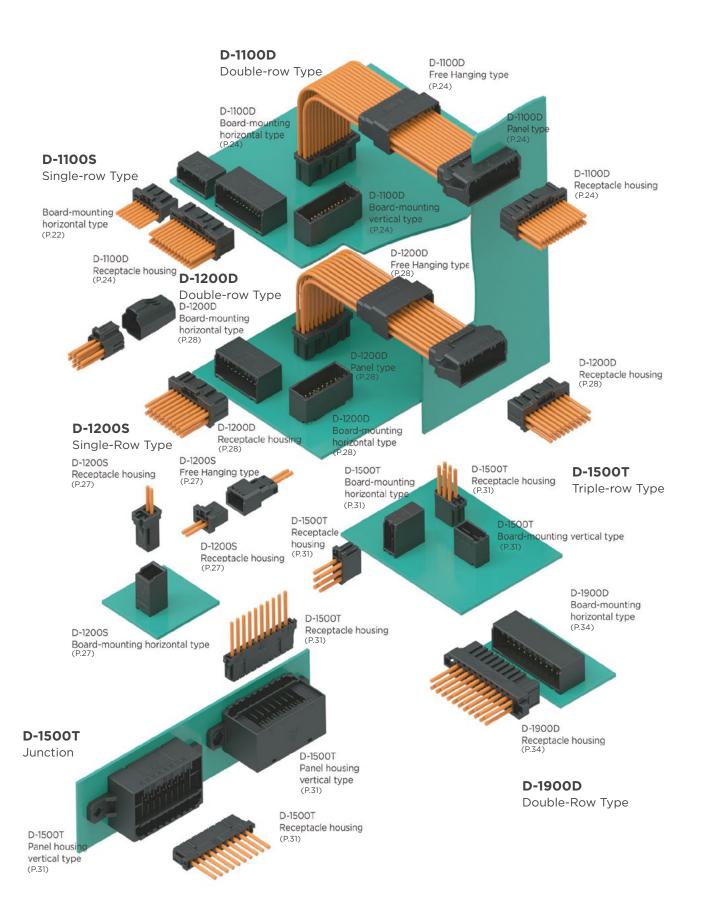
Category	Material	Finish				
Receptacle Contacts Tab Contact		Tin-plating or 0.38µm gold-plating over 1.27µm Nickel under-plated				
Board Mount Header	Copper alloy	0.38 μm gold-plating over 1.27 μm Nickel under-plated 2.0 μm Tin-plating on tail side				
Housing	UL94V-0, Thermoplastic PBT containing glass f					

**Safety Standards** \*Remember to obtain Instruction Sheets when you choose to use these tools.

The safety specifications listed below are approved on specific part numbers. Please contact our sales department to check whether the part numbers you use are approved or not.

Series		D-1100			D-1200, D-1500		D-1900			
Specifications	Rated Vol- tage	Rated Current	Temperature Range	Rated Voltage	Rated Current	Temperature Range	Rated Voltage	Rated Current	Temperature Range	
Product Specifications 108-78268	125V AC/DC	3A (1 pos)	-55°C ~+105°C	250V AC/DC	5A (1 pos)	-55°C~+105°C	150V AC/DC	4A (1 pos)	-30°C ~+105°C	
UL File No.E28476	Based on requi of Application	rements	_	Based on requirements of Application		_	Based on requirements of Application		_	
TÜV	125V AC/DC	AWG A (1pos) 22 3 24 2.5 26 2 28 1.5 30 1	-55°C -+105°C		AWG A(1pos) 18 5 20 4 22 3 24 2.5 26 2 28 1.5 30 1	-55°C -+105°C		AWG A(1pos) 18 4 20 3 22 2.5 24 2	-30°C ~+105°C	

# **D-1000 Series Configurations**



### **D-1000 Series Contact**

#### **Crimp Contacts**



Receptacle Contact (for Receptacle housing)



Tab contact (for Tab housing)

	Wire	range			Receptac	le Contact	TAB C	Contact	Applicatio	n Toolings
AWG	mm²	Outer diameter of insulation mm	Wire Range mark	Plating	Strip Form	Loose Piece	Strip Form	Loose Piece	CCII hand tool PEW12 hand tool* (PEW12 dies Only)	Mini Appli- cator
				15µ" [0.38µm] Gold	1827569-2	1827586-2	1903111-2	1903115-2	2119144-1	
30 28		0.6~1.2	S	8μ" [0.20μm] Gold	1827569-4	1827586-4	1903111-4	1903115-4	1762952-1*	2114042-2
				Tin	-	-	_	_	(1762453-1)	
28	0.05	1.08~1.6	~1.6 M	15µ" [0.38µm] Gold	1827570-2	1827587-2	1903112-2	1903116-2	2119141-1	2151082-1
26 24	0.10 0.20			8μ" [0.20μm] Gold	1827570-4	1827587-4	1903112-4	1903116-4	1762846-1* (1762847-1)	
22	0.37			Tin	1871303-1	1871743-1	1903120-1	1903124-1	(1/62847-1)	
28	0.05			15µ" [0.38µm] Gold	1827571-2	1827588-2	1903113-2	1903117-2	2119143-1	
26 24	0.10 0.20	1.08~1.9	L	8μ" [0.20μm] Gold	1827571-4	1827588-4	1903113-4	1903117-4	1762950-1* (1762951-1)	2114043-2
22	0.37			Tin	1871304-1	1871744-1	1903121-1	1903125-1	(1/62951-1)	
	0.74.0.77		2L	15µ" [0.38µm] Gold	1827572-2	1827589-2	1903114-2	1903118-2		2151083-1
22 20 18	0.34~0.37 0.51~0.53 0.85~0.87	~0.53 1.4~2.2		8μ" [0.20μm] Gold	1827572-4	1827589-4	1903114-4	1903118-4	2119142-1 1762625-1*	
10	0.007			Tin	1871731-1	1871745-1	1903122-1	1903126-1	(1762626-1)	

#### Remarks:

# The contacts L and 2L do not fit into the D-1100 receptacle housing and tab housing.

When ordering, specify your requirements by multiplying the quality.

Contact our Sales Department for more information.

Gold plating:  $0.38\mu m$  or  $0.20\mu m$ 

Tin plating: 2.0µm

For mini-applicators information, contact our Sales

Department.

Strip Form contacts are used with Mini-applicators (bench machine) and Loose-Piece contacts are with hand tools.

\*With die set

Keying Plug with flip locator use CCII hand tools (CERT®CRIMPII)

PEW12 dies are interchangeable hand tools.

\* Only hand tools are available with dies, part number 9-147824D-0

Keying plug: 1939588-1

Receptacle contacts are only available for receptacle housings, while the Tab housings are only available for tab housings. Refer to pages P.121-125 for details of applicable tools.

# D1100S Single-row Standard Types - 2mm pin pitch

# **Type Chart**



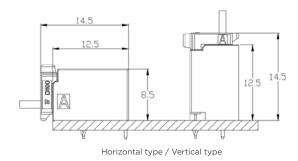


POS	Color	l/au	December de housines		Board-Mounting Header	
PO5	Color	Key	Receptacle housing	Plating	Horizontal type	Vertical type
	B		1.1070750.4	Gold	1-1939760-4	1-2394617-4
4	Black	X	1-1939758-4	Tin	1-1939761-4	1-2390471-4
4	Disale	Υ	0.1070750.4	Gold	2-1939760-4	2-2394617-4
	Black	Y	2-1939758-4	Tin	_	2-2390471-4
	Black	×	1-1939758-8	Gold	1-1939760-8	1-2394617-8
8	DIdCK	^	1-1939/30-0	Tin	_	1-2390471-8
0	Black	Y	2-1939758-8	Gold	2-1939760-8	2-2394617-8
	DidCk		2-1939/30-0	Tin	_	2-2390471-8
	Dlask	Black X	1-1939758-0	Gold	1-1939760-0	1-2394617-0
10	DIdCK		1-1939750-0	Tin	1-1939761-0	1-2390471-0
10	Black	Y	2-1939758-0	Gold	2-1939760-0	2-2394617-0
	DIdCK	т	2-1939/36-0	Tin	_	2-2390471-0
12	Black	X	1-1939758-1	Tin	_	1-2390471-1
		V	1-1939758-3	Gold	_	1-2394617-3
16	Black	X	1-1959/58-3	Tin	1-1939761-3	1-2390471-3
IO		Y	2-1939758-3	Gold	_	2-2394617-3
		Y	2-1939/58-5	Tin	2-1939761-3	2-2390471-3

### **Relative Product Information**

Applicable contact ...P.21 Performance & Specifications ...P.19

#### **Mated Dimensions**



Dimensions are in mm

# **D1100S Single-row Standard Types - 2mm pin pitch**

### **External Dimensions**

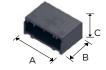
• Receptacle Housing



DOC	Calan	17	December de la constant		Dimensions		
POS	Color	Key	Receptacle housing	А	В	С	
4	Black	X	1-1939758-4	8.9			
4	Black	Υ	2-1939758-4	0.9			
8	Black X 1-1939758-8 16.9	16.0					
0	Black	Υ	2-1939758-8	10.9	11.3	9.15	
10	Black	X	1-1939758-0	20.9			
10	Black	Υ	2-1939758-0	20.9			
12	Black	X	1-1939758-1	24.9			
IZ	Black	Υ	2-1939758-1	24.9			
16	Black	X	1-1939758-3	32.9			
10	Black	Υ	2-1939758-3	52.9			

### • Board-Mounting Header

Horizontal type



Vertical type



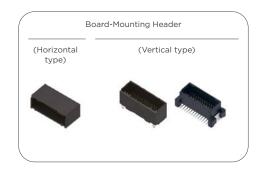
POS	Calan	I/au	Disting	Daut Niveslaau	С	Dimension	S	
POS	Color	Key	Plating	Part Number	А	В	С	
	Black	V	Gold	1-1939760-4				
4	Black	X	Tin	1-1939761-4	10.6			
4	Black	Υ	Gold	2-1939760-4	10.6			
	Black	Y	Tin	2-1939761-4				
	Black	V	Gold	1-1939760-8		12.5		
8	Black	X	Tin	_	18.6		8.5	
8	Black	Υ	Gold	2-1939760-8				
	Black	T	Tin	_				
	Black	X	Gold	1-1939760-0				
10	Black	^	Tin	1-1939761-0	22.6			
10	Black	Υ	Gold	2-1939760-0	22.0			
	Black	T	Tin	2-1939761-0				
12	Black	X	Tin					
12	Black	Υ	Tin	_	_	_	_	
16	Black	X	Tin	1-1939761-3	34.6	12.5	8.5	
10	Black	Υ	Tin	2-1939761-3	34.6	12.5	8.5	

DOC	Calan	I/au	Disting	Doub Nivershou	[	Dimension	S
POS	Color	Key	Plating	Part Number	А	В	С
	Black	X	Gold	1-2394617-4			
4	Black		Tin	1-2390471-4	10.6		
4	Black	Υ	Gold	2-2394617-4	10.6		
	Black	T	Tin	_			
	Black	X	Gold	1-2394617-8			
8	Black		Tin	1-2390471-8	18.6		
0	Black	Υ	Gold	2-2394617-8			
	Black	Y	Tin	2-2390471-8			
	Black	X	Gold	1-2394617-0		8.0	12.5
10	Black		Tin	1-2390471-0	22.6		
10	Black	Y	Gold	2-2394617-0	22.0		
	Black	Y	Tin	_			
12	Black	X	Tin	1-2390471-1	26.6		
		X	Gold	1-2394617-3			
10	Dlask	X	Tin	1-2390471-3	746		
16	BIACK	lack Y	Gold	2-2394617-3	34.6		
			Tin	2-2390471-3			

# D-1100D Double-row Standard Types - 2mm pin pitch

# **Type Chart**





			Receptac	le Housing	Tab Ho	ousing		Boar	d-Mounting H	eader	
POS	Color	Key	Standard	High-retention force	Panel type	Free hanging type	Plating	Horizontal type		Vertical type	
				Torce		туре		THT	THT	Reflow/THR	Reflow/SMT
10	Dlask	X	1-1827862-5	1-2333149-5	1-2069681-5	1-2069682-5	Gold	1-1827873-5	1-2040516-5	_	_
10	Black	^	9-1827862-5*	1-2333149-5	1-2069681-5	1-2069682-5	Tin	1-2271887-5	1-2341421-5	_	_
18	Black	×	1-1827862-9				Gold	_	1-2040516-9	_	_
10	DIACK	^	1-102/002-9	_	_	_	Tin	_	1-2341421-9	_	_
							Gold	1-1827873-0	1-2040516-0	_	_
20	Black	X	1-1827862-0	1-2333149-0	_	_	Tin	1-2271887-0	1-1554590-0	_	_
							1111	1 22/100/ 0	1-2341421-0		
22	Black	X	1-1827863-1	1-2333134-1	1-1903128-1	1-1903127-1	Gold	_	1-1827872-1	_	_
	DIACK	^	1-102/003-1	1-2333134-1	1-1903126-1	1-1903127-1	Tin	_	1-1871315-1	_	_
	Black	X	1-1827863-2	1-2333134-2	_	_	Gold	_	1-1827872-2	1-2429955-2	_
24	DidCK	^	1 102/003 2	1 2333134 2			Tin	_	1-1871315-2	_	_
	Black	Υ	2-1827863-2	_	_	_	Gold	_	_	2-2429955-2	_
	Black	X	1-1827863-3	1-2333134-3	1-1903128-3	1-1903127-3	Gold	1-1939638-3	1-1827872-3	_	1-1939995-3 1-2339471-3
26						1-2468186-3*	Tin	1-2372488-3	1-1871315-3	_	_
	Black	Υ	2-1827863-3	_	_	_	Gold	_	_	_	2-1939995-3
20	District		1 1007007 4	1 0777174 4	1 1007100 4	1 1007107 4	Gold	1-1939638-4	1-1827872-4	_	_
28	Black	X	1-1827863-4	1-2333134-4	1-1903128-4	1-1903127-4	Tin	1-2372488-4	1-1871315-4	_	_
70	Dist		1 1007007 5	1 0777174 5			Gold	1-1939638-5	1-1827872-5	_	_
30	Black	X	1-1827863-5	1-2333134-5	_	_	Tin	1-2372488-5	1-1871315-5	_	_
32	Black	X	1 1007067 6	1 2777174 6	1 1007120 6	1-1903127-6	Gold	_	1-1827872-6	_	_
32	ыаск	^	1-1827863-6	1-2333134-6	1-1903128-6	1-1903127-6	Tin	_	1-1871315-6	_	_
	Dlask		1 1007067 7	1 0777174 7	1 1007120 7	1 1007127 7	Gold	1-1939638-7	1-1827872-7	_	_
	Black	X	1-1827863-7	1-2333134-7	1-1903128-7	1-1903127-7	Tin	1-2372488-7	1-1871315-7	_	_
34						Gold	_	2-1827872-7	_	_	
	Black	Υ	2-1827863-7	_	_	_	Tin	_	2-1871315-7	_	_
	DI'		1 1007007 0	1 0777174 0	1-1903128-0	1 1007107 0	Gold	1-1939638-0	1-1827872-0	_	1-1939995-0
40	Black	X	1-1827863-0	1-2333134-0	1-2350416-0*	1-1903127-0	Tin	1-2372488-0	1-1871315-0	_	_
	Black	Υ	2-1827863-0	_	_	_	Gold	_	2-1827872-0	_	2-1939995-0

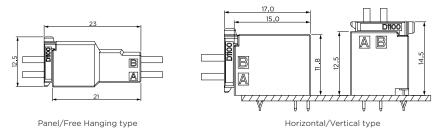
 $<sup>\</sup>ensuremath{^{*}}$  latch-protected product with different locking heights.

#### **Relative Product Information**

Applicable contact ...P.21
Performance & Specifications ...P.19

# D-1100D Double-Row Standard Types — 2mm pin pitch

#### **Mated Dimension**



Dimensions are in mm

### **External Dimensions**

• Receptacle Housing



Das	I/av	Color	Part Number		Dimension:	S
Pos	Key	Color	Part Number	А	В	С
10		Disale	1-1827862-5	10.6		
10	X	Black	1-2333149-5	12.6		
18	X	Black	1-1827862-9	20.6		
20	X	Black	1-1827862-0	22.6		
20	^	DIACK	1-2333149-0	22.0		
22	X	Black	1-1827863-1	24.6		
22	^	DIACK	1-2333134-1	24.0		
24	X	Black	1-1827863-2	26.6		
24	^	DIACK	1-2333134-2	20.0		
	X	Black	1-1827863-3		11.3	
26	^	DIACK	1-2333134-3	28.6		
	Υ	Black	2-1827863-3			12.5
28	X	Black	1-1827863-4	30.6		
20	^	DIACK	1-2333134-4	30.6		
30	×	Black	1-1827863-5	32.6		
30	^	DIACK	1-2333134-5	32.0		
32	×	Black	1-1827863-6	34.6		
32	^	DIACK	1-2333134-6	34.0		
	×	Black	1-1827863-7			
34	^	DIACK	1-2333134-7	36.6		
	Υ	Black	2-1827863-7			
40	X	Black	1-1827863-0	42.6		
40	Υ	Black	1-1827863-0	42.0		

Tab housing

Panel type



Das	I/au	Color	Part Number	С	imension	s
Pos	Key	Color	Part Number	А	В	С
10	X	Black	1-2069681-5	22.1		
22	X	Black	1-1903128-1	34.1		
26	X	Black	1-1903128-3	38.1		
28	X	Black	1-1903128-4	40.1	21.0	13.9
32	X	Black	1-1903128-6	44.1		
34	X	Black	1-1903128-7	46.1		
40	X	Black	1-1903128-0	52.1		

Free Hanging type

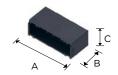


Pos	Kov	Color	Part Number		imension	5
POS	Key	Color	Part Number	А	В	С
10	Χ	Black	1-2069682-5	12.6		
22	X	Black	1-1903127-1	24.6		
26	Χ	Black	1-1903127-3	28.6		
28	X	Black	1-1903127-4	30.6	21.0	11.3
32	Χ	Black	1-1903127-6	34.6		
34	X	Black	1-1903127-7	36.6		
40	X	Black	1-1903127-0	42.6		

# D-1100D Double row Standard Types - 2mm pin pitch

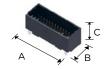
# **Board-Mounting Header**

Horizontal type



Pos	Color	I/au	Disting	Part Number	D	imensio	ns
POS	Color	Key	Plating	Part Number	А	В	С
10	Black	Х	Gold	1-1827873-5	12.6		
10	Black	^	Tin	1-2271887-5	12.0		
20	Black	Х	Gold	1-1827873-0	22.0		
20	BIACK	^	Tin	1-2379284-0	22.6		
20	Black	Х	Gold	1-1939638-3	28.6		
26	Black	^	Tin	1-2372488-3	28.6		
20	Black	V	Gold	1-1939638-4	70.0	15.0	11.0
28	Black	Χ	Tin	1-2372488-4	30.6	15.0	11.8
30	Black	X	Gold	1-1939638-5	32.6		
30	BIACK	^	Tin	1-2372488-5	32.6		
7.4	Black		Gold	1-1939638-7	70.0		
34	BIACK	X	Tin	1-2372488-7	36.6		
40	Dlask	V	Gold	1-1939638-0	42.6		
40	Black	X	Tin	1-2372488-0	42.6		

Vertical type

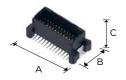


D	6-1	17	Distinct.	Doub Novele on	D	imensio	ns
Pos	Color	Key	Plating	Part Number	А	В	С
10	Black	×	Gold	1-2040516-5	10.6		
10	Black	X	Tin	1-2341421-5	12.6		
18	Black	×	Gold	1-2040516-9	20.6		
18	Black	^	Tin	1-2341421-9	20.6		
	Black		Gold	1-2040516-0			
20	Black	X	Tin	1-1554590-0	22.6		
	Black		1111	1-2341421-0			
22	Black	X	Gold	1-1827872-1	24.6		
22	Black	^	Tin	1-1871315-1	24.6		
	Black		Gold	1-1827872-2			
24	Black	X	Gold	1-2429955-2	26.6		
24	Black	^	Tin	1-1871315-2	20.0		
	Black		Gold	2-2429955-2			
26	Black	Χ	Gold	1-1827872-3	28.6	11 7	12.5
20	Black		Tin	1-1871315-3	20.0	11.3	
28	Black	X	Gold	1-1827872-4	30.6		
20	Black	^	Tin	1-1871315-4	30.6		
30	Black	X	Gold	1-1827872-5	32.6		
30	Black	^	Tin	1-1871315-5	32.0		
	Black		Gold	1-1827872-6			
32	Bla- ack	X	Tin	1-1871315-6	34.6		
	Black	X	Gold	1-1827872-7			
71	Black	X	Tin	1-1871315-7	70.0		
34	Black	Υ	Gold	2-1827872-7	36.6		
	Black	Y	Tin	2-1871315-7			
	Black	×	Gold	1-1827872-0			
40	Black		Tin	1-1871315-0	42.6		
	Black	Υ	Gold	2-1827872-0			

# **SMT**

# **Board-Mounting Header**

Vertical type



_			DI .:	5	Dimensions			
Pos	Color	Key	Plating	Part Number	Α	В	С	
	Black	×		1-1939995-3				
26	Black			1-2339471-3*	34.6	16.3	13.5	
	Black	Υ	Gold	2-1939995-3				
40	Black	Χ		1-1939995-0	48.6			
40	40 Black			2-1939995-0	48.6			

<sup>\*</sup> Packaging form: emboss.

# D-1200S Single Row/High Voltage Types - 2.5mm pin pitch

# **Type Chart**





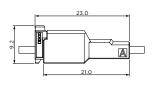


DOC	S Calan Kan		Receptac	le housing	Tab ho	ousing	Board-Mounting Header		
POS	Color	Key	Standard	High-retention force	Panel type	Free hanging type	Plating	Horizontal type	Vertical type
2	Dlask		1 1071 405 0	1-2443800-2	_	1 1007120 2	Gold	_	1-1871468-2
2	Black	X	1-1871465-2	1-2443800-2	_	1-1903129-2	Tin	_	1-2348456-2

#### **Relative Product Information**

Applicable contact ...P.21
Performance & Specifications ...P.19

#### **Mated Dimension**



Free Hanging type



### **External Dimensions**

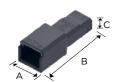
Receptacle Housing



Dee	I/au	6-1	Doub Number	Dimensions			
Pos	Key	Color	Part Number	А	В	С	
			1-1871465-2	7.0	11 7	0.0	
2	X	Black	1-2443800-2	7.6	11.3	9.2	

Tab Housing

Free Hanging type



D	17	6-1	Doub Novele ou	Dimensions			
Pos	Key	Color	Part Number	А	В	С	
2	X	Black	1-1903129-2	7.6	21.0	8.0	

• Board-Mounting Header

Vertical type

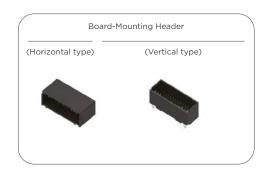


Dan	I/au	Disting	Calar	Doub Number	Dimensions			
Pos	Key	Plating	Color	lor Part Number		В	С	
			Dist	1-1871468-2	7.0	0.0	10.5	
2	X	Tin	Black	1-2348456-2	7.6	8.0	12.5	

# D-1200D Double Row High Voltage Types - 2.5mm pin pitch

# **Type Chart**





			Re	ceptacle hous	ing	Tab I	nousing		Board-	Mounting Header	
POS	Color	Key		latch-pro-	High-reten-				Horizontal type	Vertic	al type
			Standard	tected	tion force	Panel type	Free hanging type	Plating	Standard	Standard	Vertical Reflow/ THR
	Black	X	1 1007064 2	9-1827864-2	1 2740040 2	1-1903131-2	1-1903130-2	Gold	1-1827876-2	1-1827875-2	1-2429946-2
4	DIACK	^	1-102/004-2	9-102/004-2	1-2349949-2	1-1903131-2	1-1903130-2	Tin	1-2348455-2	1-2348454-2	_
	Black	Υ	2-1827864-2	_	_	_	_	Gold	2-1827876-2	2-1827875-2	_
	Disale	×	1 1007064 7	9-1827864-3		1-1903131-3	1 1007170 7	Gold	1-1827876-3	1-1827875-3	1-2429946-3
6	Black	^	1-182/864-3	9-182/864-3	_	1-1903131-3	1-1903130-3	Tin	1-2348455-3	1-2348454-3	_
	Black	Υ	2-1827864-3	_	_	2-1903131-3	2-1903130-3	Gold	2-1827876-3	2-1827875-3	_
	District		1 1007064 4	9-1827864-4	1-2349949-4	1 1007171 4	1 1007170 4	Gold	1-1827876-4	1-1827875-4	1-2429946-4
8	Black	X	1-1827864-4	**	1-2349949-4	1-1903131-4	1-1903130-4	Tin	1-2348455-4	1-2348454-4	_
	Black	Υ	2-1827864-4	_	-	2-1903131-4	2-1903130-4	Gold	2-1827876-4	2-1827875-4	_
	- I	ack X	1.1007004.5					Gold	1-1827876-5	1-1827875-5	_
10	Black	Х	1-1827864-5	_	_	_	_	Tin	_	1-2348454-5	_
	Black	Υ	2-1827864-5	_	_	_	_	Gold	_	2-1827875-5	_
							1-1903130-6	Gold	1-1827876-6	1-1827875-6	_
10	Black	X	1-182/864-6	9-1827864-6	1-2349949-6	1-1903131-6	1-2468187-6*	Tin	1-2348455-6	1-2348454-6	_
12	- I	.,	0.1007004.0		0.07.400.40.0	0.1007171.0	2-1903130-6	0.11		0.1007075.0	
	Black	Υ	2-1827864-6	_	2-2349949-6	2-1903131-6	2-2468187-6*	Gold	_	2-1827875-6	_
								Gold	1-1827876-8	1-1827875-8	_
16	Black	X	1-1827864-8	_	_	_	_	Tin	_	1-2348454-8	_
	Black	Υ	2-1827864-8	_	_	_	_	Gold	_	2-1827875-8	_
	D		1 100700 : -	9-1827864-0	1-2349949-0		1.1007170 5	Gold	1-1827876-0	1-1827875-0	_
20	Black	X	1-1827864-0	**	1-2349949-0	1-1903131-0	1-1903130-0	Tin	1-2348455-0	1-2348454-0	_
	Black	Υ	2-1827864-0	_	_	2-1903131-0	2-1903130-0	Gold	2-1827876-0	2-1827875-0	_

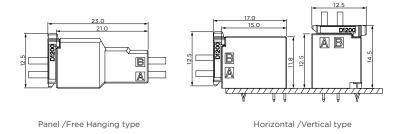
<sup>\*</sup> The product marked with "\*" is high-retention force version of receptacle housing. \*\* Preliminary to release

## **Relative Product Information**

Applicable contact ...P.21
Performance & Specifications ...P.19

# D-1200D Double-row High-voltage Types - 2.5mm pin pitch

#### **Mated Dimension**



#### **External Dimensions**

Receptacle Housing



Dimensions

•	Tab	Housing
Panel	type	



POS	Color	Key	Part Number		Dimensions	
PU3	COIOI	Key	Part Number	А	В	С
	Black		1-1827864-2			12.5
4	Black	X	9-1827864-2*	7.6		12.7
4	Black		1-2349949-2**	7.0		12.5
	Black	Υ	2-1827864-2			12.5
	Black	X	1-1827864-3			12.5
6	Black	^	9-1827864-3*	10.1		12.7
	Black	Υ	2-1827864-3			12.5
	Black		1-1827864-4			12.5
8	Black	X	9-1827864-4*	12.6		12.7
0	Black		1-2349949-4**			12.5
	Black	Υ	2-1827864-4			12.5
10	Black	X	1-1827864-5	15.1	11.3	12.5
10	Black	Υ	2-1827864-5	15.1	11.3	12.5
	Black		1-1827864-6			12.5
	Black	X	9-1827864-6*			12.7
12	Black		1-2349949-6**	17.6		12.5
	Black	Y	2-1827864-6			12.5
	Black	T	2-2349949-6**			12.5
16	Black	X	1-1827864-8	22.6		12.5
10	Black	Υ	2-1827864-8	22.6		12.5
	Black		1-1827864-0			12.5
20	Black	X	9-1827864-0*	27.6		12.7
20	Black		1-2349949-0**	27.6		12.5
	Black	Υ	2-1827864-0			12.5

- The product marked with "\*" is protective latch version. 8pos and 20pos are in preliminary to release.
- The product marked with "\*\*" is high-retention force version of receptacle housing



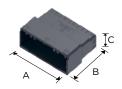
 Standard products:
 Products with protective

 6P; key X:
 latches: 6P; key X:

 1-1827864-3
 9-1827864-3

DOC	Color	I/au	Part Number		Dimensions	5
POS	Color	Key	Part Number	А	В	С
4	Black	X	1-1903131-2	17.1	21.0	
6	Black	X	1-1903131-3	19.6	21.0	
0	DIACK	Υ	2-1903131-3	19.6	21.0	13.9
8	Black	X	1-1903131-4	22.1	21.0	
0	DIACK	Υ	2-1903131-4	22.1	21.0	
12	Black	X	1-1903131-6	27.1	21.0	
12	Black	Υ	2-1903131-6	27.1	21.0	
20	Black	X	1-1903131-0	37.1	21.0	
20	ыаск	Υ	2-1903131-0	5/.1	37.1 21.0	

Free Hanging type



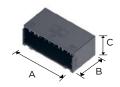
DOC	Calan	I/au	Daut Numalaau		Dimensions				
POS	Color	Key	Part Number	Α	В	С			
4	Black	X	1-1903130-2	7.6					
6	Black	X 1-1903130-3							
0	DIACK	Υ	2-1903130-3	10.1	21.0	11.3			
8	Black	X	1-1903130-4	12.6					
0		Υ	2-1903130-4	12.0					
		×	1-1903130-6						
12	Black	^	1-2468187-6*	17.6					
12	Diack	Υ	2-1903130-6	17.0					
		'	2-2468187-6*						
20	Black	X	1-1903130-0	27.6					
20	BIACK	Υ	2-1903130-0	27.0					

<sup>\*</sup> The product marked with "\*" is high-retention force version of Tab housing

# D-1200D Double Row High Voltage Types - 2.5mm pin pitch

# **Board-Mounting Header**

Horizontal type



DOC	Calan	I/au	Diations	Doub Niveshou		Dimension	S
POS	Color	Key	Plating	Part Number	А	В	С
	Black	X	Gold	1-1827876-2			
4	Black	^	Tin	1-2348455-2	7.6		
	Black	Υ	Gold	2-1827876-2			
	Black	X	Gold	1-1827876-3			
6	Black	^	Tin	1-2348455-3	10.1		
	Black	Υ	Gold	2-1827876-3			
	Black	X	Gold	1-1827876-4	12.6	15.0	11.8
8	Black		Tin	1-2348455-4			
	Black	Υ	Gold	2-1827876-4			
10	Black	X	Gold	1-1827876-5	15.1		
12	Black	X	Gold	1-1827876-6	17.0		
12	Black	^	Tin	1-2348455-6	17.6		
16	Black	X	Gold	1-1827876-8	22.6		
	Black	X	Gold	1-1827876-0	27.6		
20	Black	X	Tin	1-2348455-0			
	Black	Υ	Gold	2-1827876-0			

# **Board-Mounting Header**

Vertical type



POS	Color	I/au	Plating	Part Number		Dimension	IS					
PUS	Color	Key	Plating	Part Number	А	В	С					
			Gold	1-1827875-2								
4	Black	X	Gold	1-2429946-2*	7.6							
4	Black		Tin	1-2348454-2	7.6							
		Υ	Gold	2-1827875-2								
			Gold	1-1827875-3								
6	Black	X	Gold	1-2429946-3*	10.1							
0	DIACK		Tin	1-2348454-3	10.1							
		Υ	Gold	2-1827875-3								
			Gold	1-1827875-4								
0	Black	X	Gold	1-2429946-4*	12.6							
8	Black		Tin	1-2348454-4	12.6							
		Υ	Gold	2-1827875-4		11.3	12.6					
			X	Gold	1-1827875-5		11.5	12.0				
10	Black	Black	Tin	1-2348454-5	15.1							
		Υ	Gold	2-1827875-5								
	Black	Black	Black	X	Gold	1-1827875-6						
12				Black	Black	Black	Black	Black	Black	^	Tin	1-2348454-6
		Υ	Gold	2-1827875-6								
		X	Gold	1-1827875-8								
16	Black	^	Tin	1-2348454-8	22.6							
		Υ	Gold	2-1827875-8								
		X	Gold	1-1827875-0								
20	Black		Tin	1-2348454-0	27.6							
		Didek	Υ	Gold	2-1827875-0							

 $<sup>^{\</sup>ast}\,$  The product marked with "\*" is through hole Reflow version.

# Fan Motor Water-Proof 3P

### Wire-To-Wire

Panel mount type



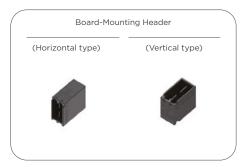


POS	Color	Plug housing	Cap housing - Panel type	Product Specification	
3	Black	2013891-1	2013892-1	108-78519	

# D-1500T Triple-row High-voltage Modular Type - 3.5mm pin pitch

# **Type Chart**



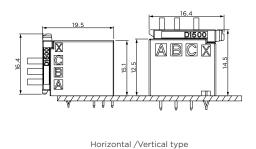


D	os Color Key	December als housing	Tab ho	Tab housing			Board-Mounting Header		
POS	Color	Joioi Rey	Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type	
3	Black	X	1-1827579-1	_	1-2040444-1	_	_	1-1827581-1	
6	Black	Х	1-2069029-2	1-2040404-2	1-2040444-2		1-1827583-2	1-1827581-2	
9	Black	X	1-2069029-3	_	1-2040444-3	Gold	_	1-1827581-3	
12	Black	Х	1-2069029-4	_	1-2040444-4	Gold	_	1-1827581-4	
36	Black	Х	_	3-2040404-2	_		_	_	

### **Relative Product Information**

Applicable contact ...P.21
Performance & Specifications ...P.19

#### **Mated Dimension**



### **Receptacle Housing**



Dee	Pos Key	Color	Part Number	Dimensions			
POS	Key	Color	Part Number	А	В	С	
3	X	Black	1-1827579-1	3.3			
6	Χ	Black	1-2069029-2	6.8	11 7	16.4	
9	X	Black	1-2069029-3	10.3	11.3		
12	X	Black	1-2069029-4	13.8			

# D-1500T Triple-row High-voltage Modular Type - 3.5mm pin pitch

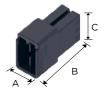
#### **External Dimensions**

Tab Housing

Panel type



Dee	I/au	Calan	Doub Number	Dimensions			
POS	Pos Key Col	Color	Part Number	А	В	С	
6	X	Black	1-2040404-2	8.5	21.0	245	
36	Χ	Black	3-2040404-2	43.5	21.0	24.5	



Free Hanging type

Dos	Pos Key	Color	Part Number	Dimensions			
POS	Key	Color	Part Number	А	В	С	
3	×	Black	1-2040444-1	3.0		15.0	
6	X	Black	1-2040444-2	6.5	21.0		
9	X	Black	1-2040444-3	10.0	21.0		
12	×	Black	1-2040444-4	13.5			

Board-Mounting Header

Horizontal type



Dan	I/au	Plating Color Part Number	D	imensior	ns		
POS	Pos Key		Color	Part Number	А	В	С
6	X	Gold	Black	1-1827583-2	8.1	17.5	15.1

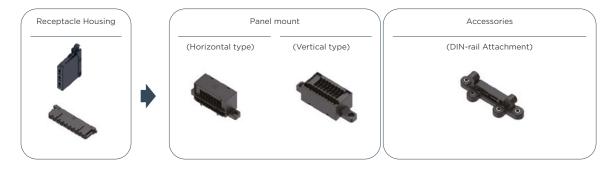


Vertical type

Dee	Pos Key	Plating	Calan	Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	А	В	С	
3	Х	Gold	Black	1-1827581-1	4.6			
6	Х	Gold	Black	1-1827581-2	8.1	14.6	12.5	
9	Х	Gold	Black	1-1827581-3	11.6			
12	Х	Gold	Black	1-1827581-4	15.1			

# D-1500T Junction Box - 3.5mm pin pitch

# **Type Chart**



Pos	Pos Color Key Re	I/au	December le becerie	Disting	Panel	mount	Accessories
POS		Receptacle housing	Plating	Horizontal type	Vertical type	DIN-rail attachmentt	
3	Black	X	1-1827579-1	_	_	_	_
10	Black	_	1971150-1	_	_	_	_
34	Black	_	_	Gold	1971151-1	1971151-2	1971182-1*

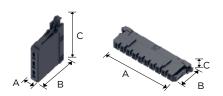
Note: Kit PN 1971190-1 is also available, which includes the junction box 1971151-2, DIN-rail mounting feet 1971182-1 and 2 screws.

#### **Relative Product Information**

Applicable contact ...P.21
Performance & Specifications ...P.19

#### **External Dimensions**

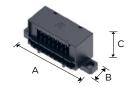
Receptacle Housing



Pos	Kev Color Part Numbe		Part Number	D	imensions		
	Key	Color	Part Number	А	В	С	
3	Х	Black	1-1827579-1	3.3	11 7	16.4	
10	_	Black	1971150-1	42.2	11.3	4.6	

#### Panel Mount

Horizontal type

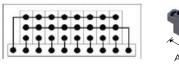


Dee	I/au	Disting	Color	Part Number	Dimensions			
Pos Ke	Key	Plating		Part Number	А	В	С	
34	_	Gold	Black	1971151-1	57.7	18.7	24.6	

Note: All Part Numbers are RoHS compliant.

#### • Tab Housing

Vertical type





Dee	Pos Key Plating Cold	Calan	Part Number	Dimensions			
Pos Ke	Key	Plating	Color	Part Number	Α	В	С
34	_	Gold	Black	1971151-2	64.8	22.8	18.2

#### Accessories

Pins to be mounted with a foot attachment

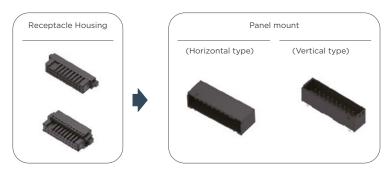


Pos	I/au	ey Color Part Number	Dimensions				
POS	Key		Part Number	А	В	С	
_	_	Black	1971182-1	67.5	19.0	18.1	

 $<sup>^{</sup>st}$  4 screws are needed for attaching connector into place

# D-1900D Double-row Spring Clamp Type - 3.5mm pin pitch

### **Type Chart**



Dee	Color Key	I/au	ey Receptacle housing	Plating	Pane	l mount	Accessories
Pos	Color	nor Key			Horizontal type	Vertical type	DIN-rail attachmentt
3	Black	X	1-1827579-1	-	_	_	_
10	Black	_	1971150-1	_	_	_	_
34	Black	_	_	Gold	1971151-1	1971151-2	1971182-1*

Note: Kit PN 1971190-1 is also available, which includes the junction box 1971151-2, DIN-rail mounting feet 1971182-1 and 2 screws.

#### **Relative Product Information**

Applicable contact ...P.21 Performance & Specifications ...P.19 Special tool 1891348-1

# **External Dimensions**

• Receptacle Housing (Crimp type)



Dan	17	C-1	Color Part Number	Dimensions				
Pos Key	Key	Color		Α	В	С		
8	Χ	Black	1-1871946-4	24.2		9.9		
12	Χ	Black	1-1871946-6	34.2	15.0			
16	Χ	Black	1-1871946-8	41.2	15.0			
22	Χ	Black	2-1871946-1	51.7				

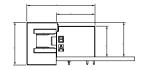
• Receptacle Assembly (Spring clamp)

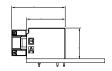


Daa	Kev	Plating	Color	Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	АВ			
8	Χ	Gold	Black	1-1871940-4	25.2		16.4	
12	Χ	Gold	Black	1-1871940-6	32.2			
16	X	Gold	Black	1-1871940-8	39.2	20.0		
22	X	Gold	Black	2-1871940-1	49.7	20.6		
30	X	Gold	Black	2-1871940-5	63.7			
38	Χ	Gold	Black	2-1871940-9	77.7			

Note: All Part Numbers are RoHS compliant.

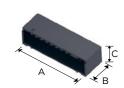
#### **Mated Dimension**





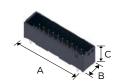
• Board-Mounting Header

Horizontal type



Das	Kev	Disting	6.1	Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	A B C			
8	X	Gold	Black	1-1871935-4	19.8		11.8	
12	X	Gold	Black	1-1871935-6	26.8			
16	X	Gold	Black	1-1871935-8	33.8	14.8		
22	X	Gold	Black	2-1871935-1	44.3	14.0		
30	X	Gold	Black	2-1871955-5	58.3			
38	X	Gold	Black	2-1871935-9	72.3			

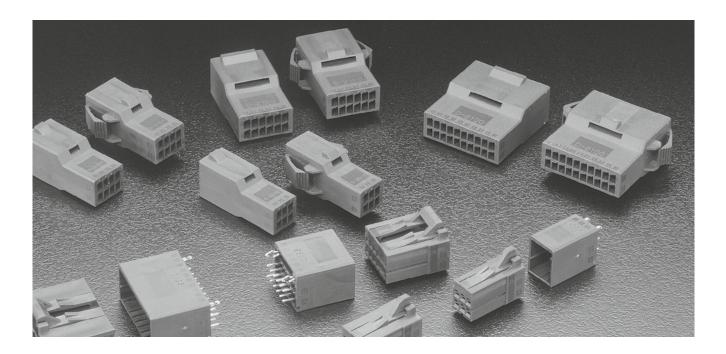
Vertical type



Pos	I/au	Diation	C-1		Dimensions			
POS	Key	Plating	Color		А	В	С	
8	Χ	Gold	Black	1-2013325-4	20.2			
12	Χ	Gold	Black	1-2013325-6	26.8	11.5	12.5	
22	Χ	Gold	Black	2-2013325-1	44.3			

 $<sup>^{</sup>st}$  4 screws are needed for attaching connector into place

### D-2000 Series



### Series Introduction

The D-2000 series is a compact connector in the Dynamic series and has the specifications for industrial machinery. Its proprietary concept, long contact wiping length, provides the high-reliability which is needed for industrial machinery.

The series also includes the multi-position drawer type not found in any other series. The hybrid type integrates signal and power contacts in a single connector.

## **Product Features**

# 1. Terminal and Housing Construction are Twist Resistant

The box shape receptacle contact is highly resistant to twisting and the housing slit also prevents angled mating to increase reliability.

#### 2. Contact Wiping Length

Attaining the reliability needed for industrial machinery in a compact size by using a long contact wiping length.

#### 3. Wire Sizes:

With its 2.5 mm pitch, it is a compact series, yet it can use 18 AWG wires, which are often used in industrial equipment.

#### 4. Audible Latching

Obvious lock sound and feeling when mating means work can be done without mistakes, such as mismating (halfmating), even if the connection cannot be seen. mating) even in an operating environment where visual inspection is not possible.

### 5. Keying

The housing is keyed (with a slit), so differentiating between X keys and Y keys prevents mismating. It is also possible to make more key patterns by using keying plugs.

#### 6. Center Locking

This is the first application of a center lock in Dynamic series. On-board space requirements can be minimized because these connectors can be mounted in a tight space for high- density mounting on boards requiring signal lines.

#### 7. Drawer Type

The drawer type connector was developed with a floating construction on one side for applications where it is not possible to see the connection. There can be up to 50 positions, the highest in the series. These connectors make it possible to make connections between units with flexibility.

#### 8. Hybrid Type

The D-2600 series combines signal and power contacts in a single connector by using D-2000 contacts as signal contacts and D-3000 contacts as power ones. This saves on-board space and improves maintenance.

# **D-2000 Series Performance and Specifications**

#### **Performance**

2100S/D	2100M	2600D			
	2.5mm				
5A max 2.6A max 3.2A		3.2A max			
	250V AC/DC				
1500V AC	2300V AC	1500V AC			
5mΩ max	(initial) 10mΩ max (l	ifetime)			
4	.9N max (per pole)				
0.	29N min (per pole)				
500 cycles					
39.2N min	_	98N min			
	5A max 1500V AC 5mΩ max 4	2.5mm 5A max 2.6A max 250V AC/DC  1500V AC 2300V AC  5mΩ max (initial) 10mΩ max (initial			

# Positions / Wire size / Rated current

D-2100S/D value

Danitian		Wire Size							
Position	AWG 18	AWG 20	AWG 22	AWG 24	AWG 26	AWG 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 Specification**

Series Name	D-2100S/D D-2100M D-26001					
Product Specifications	108-5619	108-5659 108-78301				
Applications Specifications	114-5258					
Instruction sheet (hand	408-10414 (S)					
tool)		408-8547-1(M)				
Instruction sheet (extraction tool PN)	(1276716-1)411-5900					

Please refer to the standards on P. 43 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**

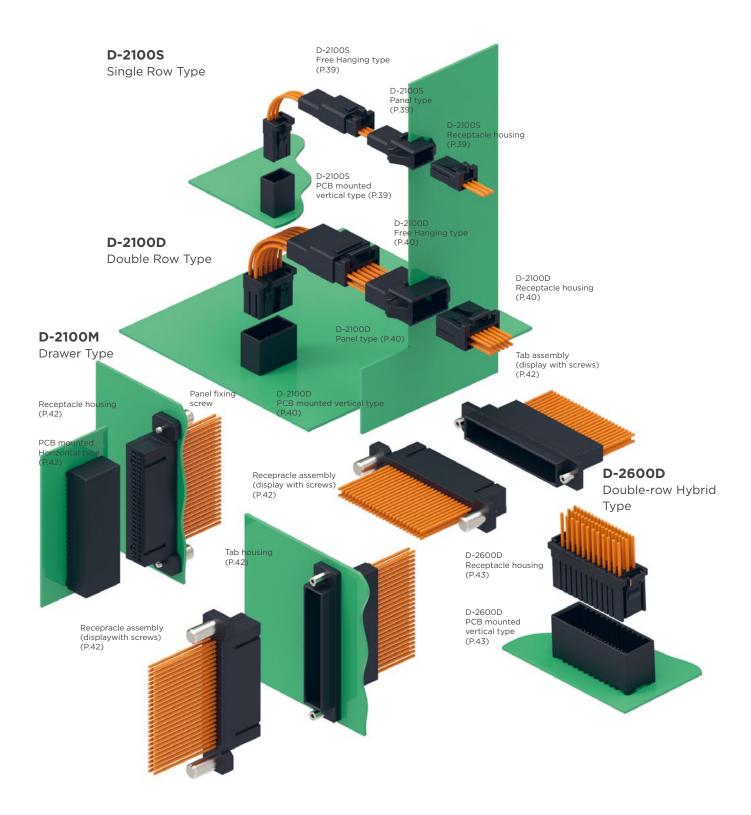
Category	Material	Plating				
Receptacle Contact Tab Contact	Copper alloys	0.38 μm Gold plating over nickel underplate				
Board mount Header	Copper alloys	0.38 μm Gold plating over nickel underplate Tin plating on tail side				
Housing	UL94-V	-O, thermoplastic PBT with glass fiber				

#### **Safety Standards**

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

series	D-2100 series			D-2100M Drawer Type		
Standards	Rated Voltage	Rated Current	Temperature Range	Rated Voltage	Rated Current	Temperature Range
Product Specifications 108-5619 (general)108-5659 (drawer type)	250V AC/DC	5A (unipolar)	-55°C -+105°C	250V AC/DC	2.6A AWG#20 hours 50 pole load	-5°C ~+105°C
ULFile No.E28476	Determined according to the requirements of application	Determined according to the requirements ofapplication	_	Determined according to the requirements ofapplication	Determined according to the requirements ofapplication	_
CSAReport No. LR 7189	250V AC/DC	AWG#24-#28: 3.3A AWG#18-#22: 5A	_	250V AC/DC	Max 5A per pole	-
TÜVLicense 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 Configurations**



# **D-2000 Series Contact**

#### **Crimped type**

(gold plating thicknes  $0.38 \mu m$ )



Receptacle Contact (used in receptacle housing)



Tab contact (used in tab housing)

Wire	Range	Outside		Contact part number				Models of applicable tools	
		Diameter of Insula-	Wire Range Mark	Receptac	le Contact	Tab Co	ontact		
AWG	mm <sup>2</sup>	tion mm	Mark	Strip form	Loose Piece	Strip form	Loose Piece	Hand Tools	Tool numbers
28	0.09	0.00.17						91576-1	2151240-1
26	0.12	0.88~1.3	S	1318106-1	1318108-1	1318110-1	1318112-1		
24	0.20	1.11~1.43							
24	0.20	2.2~2.25	S1	1-1318106-1*	_	1-1318110-1*	_	_	_
22	0.30	1.26~1.8							
20	0.50	1.20~1.8	M	1318105-1	1318107-1	1318109-1	1318111-1	91595-1	2151071-1
18	0.85	1.79~1.9							

<sup>\*</sup>This terminal is only applicable to the UL1051 cable.

The receptacle contact can be used in all receptacle housings, the Tab housing can be used in all tab housings. Details of the applicable tools are available from P.120-124

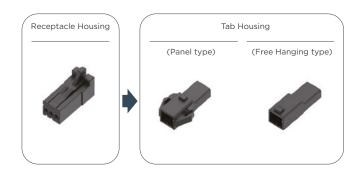
Note: When placing your order, please check with the confirmed sales leadtime. Please contact our sales department or distributor for more information.

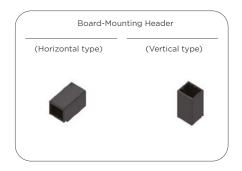
Strip Form contacts are used with Mini-applicators (bench machine) and Loose-Piece contacts are with hand tools.

Tin plating contact will be available in June.2024

# D-2100S Single-row Standard Type - 2.5mm pin pitch

# **Type Chart**





Dee	Calar	I/au	Decentagle housing	Tab housing		Disting	Board-Mounting Header		
Pos	Color	Key	Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type	
	Black	X	1-1318120-3	1-1318116-3	1-1318117-3	Gold	1376135-1	1318123-1	
7	Black	Υ	2-1318120-3	2-1318116-3	2-1318117-3	Gold	1376135-2	1318123-2	
3	Black	Z	3-1318120-3	_	_	Gold	1376135-3	_	
	Black	X 1-1473074-3*		_	_	Gold	_	1-1318123-1**	

NOTE: The  $^{\ast}$  mark means drawer typer

### **Relative Product Information**

Application contact...P.38 Performance & Specifications...P.36

#### **Mated Dimension**





Panel /Free Hanging type

Horizontal type Vertical type

#### **External Dimensions**

Receptacle Housing



_				Dimensions			
Pos	Key	Color	Part Number	А	В	С	
	X	Black	1-1318120-3				
7	Υ	Black	2-1318120-3	8.9	20.0	12.0	
3	Z	Black	3-1318120-3				
	X	Black	1-1473074-3	8.9	20.0	11.8	

#### Tab Housing

Panel type



					Dimensions		
Pos	Key	Color	Part Number	А	В	С	
7	X	Black	1-1318116-3	19.7	70.7	0.5	
5	Υ	Black	2-1318116-3	19.7	30.7	9.5	

Free Hanging type



Dee	I/au	Calas	Doub Number		Dimension	S
Pos	Key	Color	Part Number	Α	В	С
7	X	Black	1-1318117-3	10.2	30.7	0.5
3	Y	Black	2-1318117-3	10.2	30.7	9.5

# Board-Mounting Header

Horizontal type



Dos	Kov	Disting	Calass	Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	А	В	С	
	X	Gold	Black	1376135-1				
3	Υ	Gold	Black	1376135-2	10.2	17.7	11.0	
	Z	Gold	Black	1376135-3				

Vertical type



D	I/au	DI-+i	0.1	Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	Α	В	С	
	X	Gold	Black	1318123-1				
3		Gold		1-1318123-1**	10.2	9.5	17.8	
	Υ	Gold	Black	1318123-2				

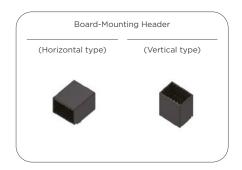
<sup>\*\*</sup>Sequential

<sup>\*\*</sup>Seguential

# D-2100D Double-row Standard Type - 2.5mm pin pitch

# **Type Chart**





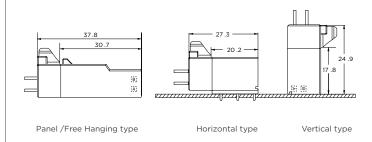
Pos Color				Tab I	nousing		Board-Mount	ing Header
Pos	Color	Key	Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type
_	Black	X	1-1318119-3	1-1318114-3	1-1318115-3	Gold	1376136-1	1318124-1
6	Black	Υ	2-1318119-3	2-1318114-3	2-1318115-3	Gold	1376136-2	1318124-2
	Black		1 1710110 4	1 171011 4 4	1 1710115 4	Gold	1376009-1	1318125-1
0	Black	X	1-1318119-4	1-1318114-4	1-1318115-4	Gold	1-1376009-1*	1-1318125-1*
8	Black	Y	0.1710110.4	0.1710114.4	0.1710115 4	Gold	1776000 0	1318125-2
Bla	Black	Y	2-1318119-4	2-1318114-4	2-1318115-4	Gold	1376009-2	1-1318125-2*
	Black	×	1 1710110 6	1 171011 4 6	1 1710115 C	Gold	1770000 1	1318126-1
	Black	X	1-1318118-6	1-1318114-6	1-1318115-6	Gold	1376020-1	1-1318126-1*
12	Black	_	0.1710110.6	0.1710114.6		Gold	1776000 0	1318126-2
	Black	Y	2-1318118-6	2-1318114-6	_	Gold	1376020-2	1-1318126-2*
	Black	Z	3-1318118-6	_	_	Gold	_	1318126-3
10	Black	X	1-1318118-8	_	_	Gold	_	1747994-1
16	Black	Υ	2-1318118-8	_	_	Gold	_	1747994-2
	Black	X	1-1318118-9	1-1318114-9	1-1318115-9	Gold	1376137-1	1318127-1
20	Black	Υ	2-1318118-9	2-1318114-9	2-1318115-9	Gold	1376137-2	1318127-2

Note: There is Z-key option in 20-position product, please contact TE sales representative for more information

### **Relative Product Information**

Application contact...P.38
Performance & Specifications...P.36

#### **Mated Dimension**



<sup>\*</sup>Sequential

# D-2100D Double-row Standard Type - 2.5mm pin pitch

#### **External Dimensions**

Receptacle Housing



Dee	I/au	Calau	Part Number	Г	Dimension	s
Pos	Key	Color	Part Number	А	В	С
6	Χ	Black	1-1318119-3	8.3	20.0	15.8
ю	Υ	Black	2-1318119-3	8.3	20.0	15.8
8	Χ	Black	1-1318119-4	10.8	20.0	15.8
8	Υ	Black	2-1318119-4	10.8	20.0	15.8
	Χ	Black	1-1318118-6			
12	Υ	Black	2-1318118-6	15.8	20.0	14.8
	Z	Black	3-1318118-6			
16	Χ	Black	1-1318118-8	20.8	20.0	14.8
16	Υ	Black	2-1318118-8	20.8	20.0	14.8
20	Χ	Black	1-1318118-9	25.8	20.0	14.8
20	Υ	Black	2-1318118-9	23.8	20.0	14.8

#### Tab Housing

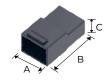
Panel type



Pos	I/au	Color	Part Number	С	imensions	5	
POS	Key	Color	Part Number	А	В	С	
6	Χ	Black	1-1318114-3	19.7	30.7	13.2	
6	Υ	Black	2-1318114-3	19.7	30.7	15.2	
8	Χ	Black	1-1318114-4	22.2	30.7	13.2	
8	Υ	Black	2-1318114-4	22.2	30.7	13.2	
12	Χ	Black	1-1318114-6	27.2	30.7	13.2	
12	Υ	Black	2-1318114-6	21.2	30.7	15.2	
20	Χ	Black	1-1318114-9	37.2	30.7	13.2	
20	Υ	Black	2-1318114-9	37.2	30.7	13.2	

#### Tab Housing

Free Hanging type



D	I/au	Distinct.	6-1	Do at November	Dimensions			
Pos	Key	Plating	Color	Part Number	А	В	С	
6	Χ	Gold	Black	1-1318115-3	10.2	30.7	10.7	
ь	6 Y	Gold	Black	2-1318115-3	10.2	30.7	10.7	
8	Χ	Gold	Black	1-1318115-4	12.7	30.7	10.7	
0	Υ	Gold	Black	2-1318115-4	12.7	30.7	10.7	
12	Χ	Gold	Black	1-1318115-6	17.7	30.7	10.7	
20	Χ	Gold	Black	1-1318115-9	27.7	30.7	10.7	
20	Υ	Gold	Black	2-1318115-9	27.7	30.7	10.7	

# • Board-Mounting Header

Horizontal type



Dos	Kov	Disting	Color	Part Number	D	imensior	ıs
Pos	Key	Plating	Color	Part Number	Α	В	С
6	Χ	Gold	Black	1376136-1	10.2	20.2	147
ь	Υ	Gold	Black	1376136-2	10.2		14.7
8	Х	Gold Bl		1376009-11-1376009-1*	12.7	20.2	14.7
	Υ	Gold	Black	1376009-2			
12	X	Gold	Black	1376020-1	17.7	20.2	14.7
12	Υ	Gold	Black	1376020-2	17.7	20.2	14.7
20	20 X	Gold	Black	1376137-1	27.7		14.7
20	Υ	Gold	Black	1376137-2	21.1	20.2	14.7

<sup>\*</sup>Sequential

Vertical type



Dan	I/au	Disting	Calan	Doub Number	D	imensior	ıs
Pos	Key	Plating	Color	Part Number	А	В	С
6	Х	Gold	Black	1318124-1	10.2	13.2	17.8
ю	Υ	Gold	Black	1318124-2	10.2	15.2	17.8
8	X	Gold	Black	1318125-11-1318125-1*	12.7	13.2	17.8
0	Υ	Gold	Black	1318125-21-1318125-2*	12.7	13.2	17.0
	X	Gold	Black	1318126-11-1318126-1*			
12	Υ	Gold	Black	1318126-21-1318126-2*	17.7	13.2	17.8
	Z	Gold	Black	1318126-3			
10	Х	Gold	Black	1747994-1	22.7	17.0	17.8
16	Υ	Gold	Black	1747994-2	22.7	13.2	17.8
20	Х	Gold	Black	1318127-1	277	17.0	170
20	Υ	Gold	Black	1318127-2	27.7	13.2	17.8

<sup>\*</sup>Sequential

# D-2100M Double-row Standard Multipostion Type (Drawer) - 2.5mm pin pitch

## **Type Chart**



Dee	Color Kev	I/au	Receptacle housing Tab housing				Disting	Board-Mour	ting Header
Pos		s Color Key		Туре	Part Number	Panel type	Free Hanging type	Plating	Horizontal type
50	Black		Drawer	1318577-1	1318578-11318578-2 (with nuts)	_	Gold	_	_
50	Black		Threaded rawer	1376072-2	_	1376073-2	_	_	_

#### **Relative Product Information**

Application contact...P.38 Performance & Specifications...P.36 Accessories ...P.126

#### **Mated Dimension**





Panel /Free Hanging type

Horizontal type

# **External Dimensions**

• Receptacle Housing



Dan	Pos Key Color Part Number		Г	Dimension	S	
Pos	Key	Color	Part Number	А	В	С
		Disale	1318577-1	00.5	20.0	10.0
50	_	Black	1376072-2*	88.5	32.0	16.6

<sup>\*</sup>The product contains a receptacle housing 1318577-2 and two screws 1376058-1

#### Tab Housing

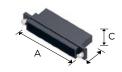
#### Panel type

D	Data Kara Calan Bart Number		Davit Niversia	Г	Dimension	s
Pos	Key	Color	Part Number	А	В	С
50	_	Black	1318578-1	86.1	30.7	15.9
50	_	Black	1318578-2(with nuts)	86.1	30.7	15.9

NOTE: All products are RoHS compliant On selection.

Receptacle Assembly (with screws)

Free Hanging type

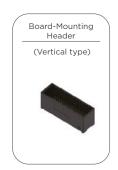


Dan	I/au	Calau	Doub Number	D	imension	s
Pos	Key	Color	Part Number	А	В	С
50	_	Black	1376073-2	86.1	30.7	15.9

# D-2600D Double-row Hybrid Type - pin pitch, 2.5mm (D-2), 3.81mm (D-3)

### **Type Chart**





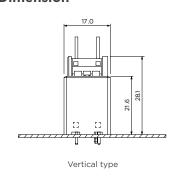
Dan	Calan	I/au	Described housing	Receptacle housing Panel type Free Hanging type Plati		Diation	Board-Mounting Header	
Pos	Color	Key	Receptacle nousing			Plating	Horizontal type	Vertical type
48*	Black	_	1827540-1	_	_	Gold	_	1827538-1

<sup>\*36</sup> D-2000 contacts and 12 D-3000 contacts are used in combination

#### **Relative Product Information**

Applicable contact...P.38,48 Performance & Specifications ...P.36,45

#### **Mated Dimension**



#### **External Dimensions**

• Receptacle Housing



Dan	Kev	Disting	Color	Part Number	D	imensior	าร
Pos	Key	Plating	Color	Part Number	А	В	С
48	_	_	Black	1827540-1	58.7	22.8	15.8

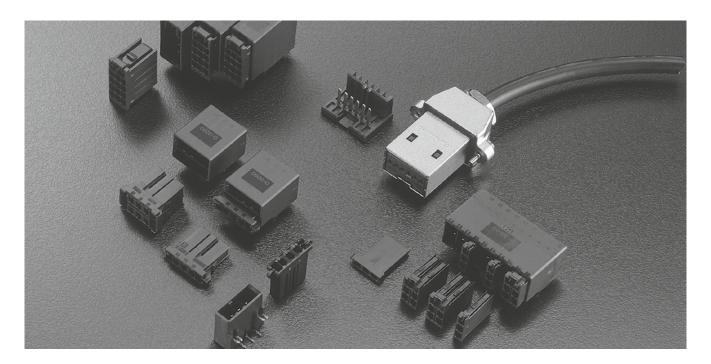
• Board-Mounting Header

Vertical type



Pos	Kev	Plating	Color	Part Number	D	imensior	าร
PUS	Key	Plating	COIOI		Α	В	С
48	_	Gold	Black	1827538-1	55.9	18.0	21.6

# 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 two types: 3.81mm pitch (standard) and 5.08mm pitch (high voltage). The standard pitch is used for signal circuits and the high voltage type is used for power circuits.

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

This concept is based on the development strategy of the Dynamic Series to cover as wide a range of solutions for as many customers as possible. This concept makes the D-3000 series terminals fit all D-3000 housings, and the wide variety of which means that it is not necessary for a customer to look outside of this range for every requirement.

The D-3000 series has been in development for more than a decade since its initial development, gaining momentum through customer input, and is currently being extended further.

#### **Product Features**

#### 1. Anti-twist contact structure

An anti-twist contact structure were developed for motor industry which has 3 contact points when mating receptacle contact with tab contact or header. Concept of 3-contact-points provides high reliability in a real-world environment.

#### 2. Three plating types

3 Plating types are available to meet the customer's cost, performance requirements and applications. Under a normal environment with few mating/unmating requirements, tin plating can be used. Where there is a large number of mating/unmating requirements, then gold plating at 0.38  $\mu$ m thickness shoud be used. If the environment is deleterious then gold plating at 0.76  $\mu$ m thickness can be selected

# 3. Two types of contact pressure options

2 types of contact pressures are available depending on application: standard Contact pressure for withstanding a large number of mating/unmating requirements or other extreme environments, and high Contact pressure for vibration prone applications

#### 4. High Current

Despite its small size, it conducts up to 15A (at a maximum temperature rise of 30°C). The latest developed copper alloy adds to the reliability of the 3-point contact structure

#### 5. Audible Latching

When mating, a dear 'lock' sound and vibration will be felt by the assembler, that can prevent working 'blind' mis-mating (or halfmating) problems

#### 6. Keying

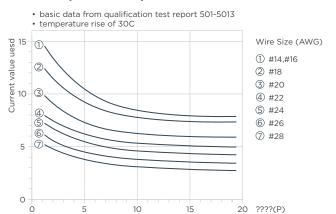
The housing provides a keying (slit), hence mis-matings can be prevented by using the X and Y keys separately. At the same time, the keying plug can be used to create new key patterns.

# **D-3000 Series Performance and Specifications**

#### **Performance**

Pitch	150mil (3.81mm)	200mil (5.08mm)	
Rated Voltage	250V AC/DC	800V AC/DC (Pollution degree I)	
Rated Current	1 pole:15A3 pole: 12A6 8A(AWG#16 for use		
Contact resistance	10mΩ	max	
Withstanding Voltage	1,500V AC(1 min) 2,200V AC(1 min)		
Temperature	-55~+105°C		

#### **Positions/Wire Size/Rated Current**



# **Performance & Specificatios**

Product Specifications	108-5349
Test Report	501-5013501-78668 FMLB
Applications Specifications	114-5148114-78030 FMLB
Pull tool product number(234168-1) manual	411-5726

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

#### **Material and Plating**

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

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

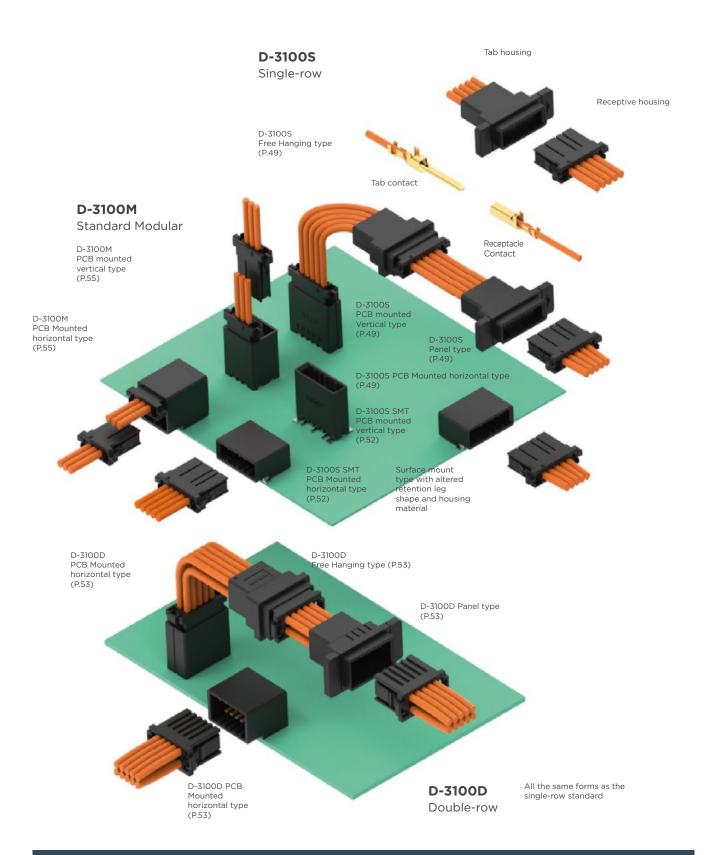
#### **Safety Standards**

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

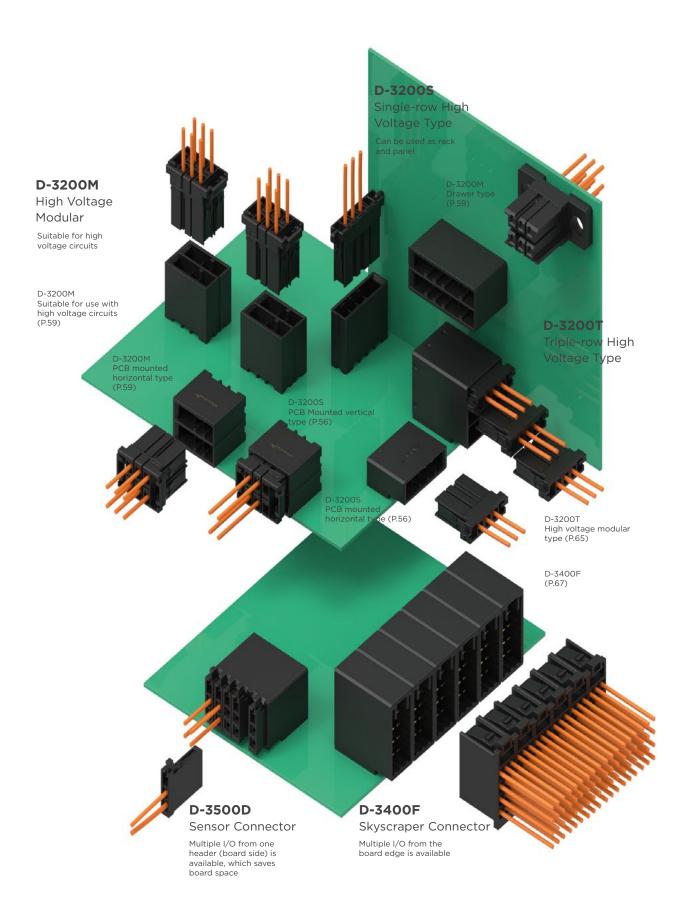
Series	D-3100 a	nd D-3400 series (3.81r	nm pitch)	D-3200 aı	nd D-3500 series (5.08)	mm pitch)
STD.	Rated Voltage	Rated Current	Temperature Range	Rated Voltage	Rated Current	Temperature Range
Product Specifications 108-5349	250V AC/DC	Above table	-55°C ~+105°C	800V AC/DC(overvoltage type I, Pollution degree I)	Above table	-55°C ~+105°C
ULFile No.E28476 (Recognized Component)	Based on the require- ments of Application		_	Based on the require- ments of Application	Based on the require- ments of Application	_
CSAReport No. LR7189	250V AC/DC	8A max	_	250V AC/DC	8A max	_
TÜV License No. R9151488 (EN61984)IP prot ection level IP-00 Overvoltage type (II)	250V AC/DC	AWG A 28 2 26 3 24 3 22 4 20 5 18 6 16 8 14 8	-55°C -+105°C	400V AC	AWG A 28 2 26 3 24 3 22 4 20 5 18 6 16 8 14 8	-55°C -+105°C
Same as above Overvoltage type (III)	150V AC/DC	Same as above	Same as above	300V AC/DC	Same as above	Same as above

# **D-3000 Series Configurations**

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



# **D-3000 Series Configurations**



# **D-3000 Series Contact**

#### **Crimped type**



Receptacle Contact (used in receptacle housing)

Tab contact (used in tab housing)

Wire	Range					Contacts			Applicable to	ols
		Outside Diameter of	Wire Range	Rece	eptacle Contact		Tab C	ontact	CCII Hand Tool PEW12	
AWG	mm²	Insulation mm	Mark		Strip form	Loose Piece	Strip form	Loose Piece	Hand Tool* (PEW12 dice only)	Mini Appli- cator
2826	0.08 0.12	0.8-1.2	S	Standard contact pressure(gold plating only)	175194-∆ 2298107-1**	175216-∆ 2311162-1**	175284-Δ	175287-Δ	91565-1	2836130-1
24	0.20	1.0~1.4		High contact pressure	1-175194-∆	1-175216-∆				
24	0.20	1.2~1.6	М	Standard contact pressure(gold plating only)	175195-∆ 2298107-2**	175217-∆ 2311162-2** FMLB	175285-Δ	175288-Δ	91559-1	2151080-1
2220	0.30 0.50	1.7~2.6 (1.7~2.35)**	IM	High contact pressure	1-175195-∆	1-175217-∆	1/5285-14	1/5288-14	91559-1	2131060-1
2018	0.50 0.85	1.8~2.8	L	Standard contact pressure(gold plating only)	175196-∆ 2298107-3**	175218-∆ 2311162-3**	175286-Δ	175289-∆	91558-1	2151018-1
16	1.25	2.2~2.8 (2.2~2.56)**		High contact pressure	1-175196-∆	1-175218-∆				
16	1.25	2.2~2.8	2L	Standard contact pressure(gold plating only)	917484-∆ 2298107-4**	917511-∆ 2311162-4**	917485-∆	917512-∆	91560-1	2151119-1
14	2.20			High contact pressure	1-917484-∆	1-917511-∆				
16	1.25	3.1~3.3	3L	Standard contact pressure(gold plating only)	353715-∆ 2298107-5**	353717-∆ 2311162-5**	353716-∆	353718-∆	91561-1	2151073-1
14	2.20	3.3~3.8		High contact pressure	1-353715-∆	1-353717-∆				2151073-1

- Reference: Plating code

   2: 0.38 µm thickness gold plating

   3: 0.76 µm thickness gold plating

   5: Tin plating (only set to the high contact pressure type)

   When placing your order, please check with sales for confirmed lead-times.
  - Please consult the sales department for micro-application tools

Strip Form contacts are used with Mini-applicators (bench machine) and Loose-Piece contacts are with hand tools.

The receptacle contact can be used in all receptacle housings, while the Tab housing can be used in all tabs housings

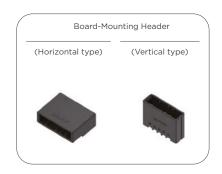
 $<sup>^{</sup>st}$  The outer diameter of the insulation is applicable to Losse Piece terminals.For strip form, see notes 114-5148

 $<sup>\</sup>ensuremath{^{**}\text{Sequential}}$  (FMLB) female contacts. See 114-78030 in the operating manual.

# D-3100S Single-row Standard - 3.81mm pin pitch

# **Type Chart**

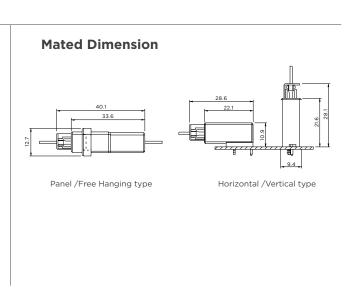




Pos	Color	17	December de la constant		Tab housing		Distinct.	Board-Mount	ing Header	
POS	Color	Key	Receptacle housing	Panel type	Free Hanging type	L Bracket	Plating	Horizontal type	Vertical type	
	Black						Gold	1-178293-2	1-178313-2	
	Black	X	1-178288-3	1-178802-3	1-177648-3	S	Gold	1-178293-3	1-178313-3	
3	Black						Tin	1-178293-5	1-178313-5	
5	Black						Gold	2-178293-2	2-178313-2	
	Black	Y	2-178288-3	2-178802-3	2-177648-3	S	Gold	2-178293-3	2-178313-3	
	Black						Tin	2-178293-5	2-178313-5	
	Black						Gold	1-178294-2	1-178314-2	
	Black	X	1-178288-4	_	_	_	Gold	1-178294-3	1-178314-3	
4	Black						Tin	1-178294-5	1-178314-5	
4	Black						Gold	2-178294-2	2-178314-2	
	Black	Υ	2-178288-4	_	_	_	Gold	2-178294-3	2-178314-3	
	Black						Tin	_	2-178314-5	
	Black						Gold	1-178295-2	1-178315-2	
5	Black	X	1-178288-5	1-178802-5	1-177648-5	L	Gold	1-178295-3	1-178315-3	
	Black						Tin	1-178295-5	1-178315-5	
	Black							Gold	1-178296-2	1-178316-2
	Black	X	1-178288-6	_	_	_	Gold	1-178296-3	1-178316-3	
	Black						Tin	1-178296-5	1-178316-5	
6	Black						Gold	2-178296-2	2-178316-2	
	Black	Υ	2-178288-6	_	_	_	Gold	_	2-178316-3	
	Black						Tin	_	2-178316-5	
	Black						Gold	1-178297-2	1-178317-2	
8	Black	X	1-178288-7	1-178802-7	1-177648-7	L	Gold	1-178297-3	1-178317-3	
	Black						Tin	1-178297-5	1-178317-5	
	Black						Gold	1-178298-2	1-178318-2	
10	Black	X	1-178288-8	1-178802-8	1-177648-8	L	Gold	1-178298-3	1-178318-3	
10	Black					_	Tin	1-178298-5	1-178318-5	
	Black	Υ	2-178288-8	2-178802-8	2-177648-8	L	Gold	2-178298-3	2-178318-2	

# **Relative Product Information**

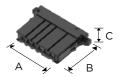
Applicable contact...P.48
Performance & Specifications...P.45
Accessories...P.126



# D-3100S Single-row Standard - 3.81mm pin pitch

#### **External Dimensions**

Receptacle Housing



Pos	I/au	Color	Part Number		Dimension	S
POS	Key	Color	Part Number	А	В	С
3	Χ	Black	1-178288-3	26.8		
3	Υ	Black	2-178288-3	20.0		
4	X	Black	1-178288-4	30.6		
4	Υ	Black	2-178288-4	30.6		
5	Х	Black	1-178288-5	34.4	22.8	7.0
6	X	Black	1-178288-6	38.2	22.8	7.2
0	Υ	Black	2-178288-6	30.2		
8	Х	Black	1-178288-7	45.8		
10	Χ	Black	1-178288-8	53.4		
10	Υ	Black	2-178288-8	55.4		

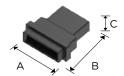
Tab Housing

Panel type



Pos	I/au	Color	Doub Number	D	Dimensions			
Pos	Key	Color	Part Number	Α	В	С		
3	Χ	Black	1-178802-3	40.0				
3	Υ	Black	2-178802-3	40.0				
5	X	Black	1-178802-5	47.0	33.6	12 7		
8	X	Black	1-178802-7	59.0	33.0	12.7		
10	Χ	Black	1-178802-8	67.0				
10	Υ	Black	2-178802-8	67.0				

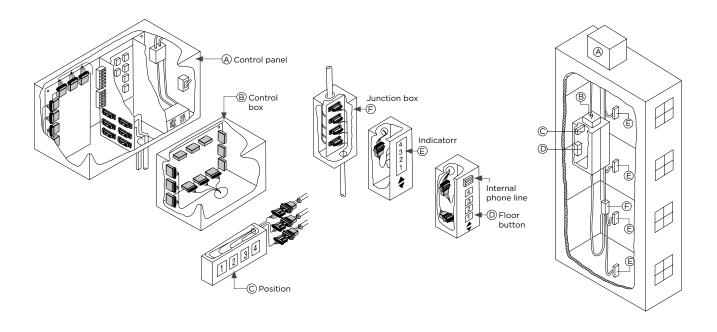
Free Hanging type



Dee	I/au	Vov. Color	or Dart Number	Dimensions			
Pos	Key	Color Part Number		Α	В	С	
3	Χ	Black	1-177648-3	25.6			
5	Υ	Black	2-177648-3	25.6	33.6	12.7	
5	Χ	Black	1-177648-5	33.2			
8	X	Black	1-177648-7	44.6	33.0	12.7	
10	Χ	Black	1-177648-8	52.2			
10	Υ	Black	2-177648-8	52.2			

### **Applications**

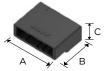
Example of elevator applications



# D-3100S Single-row Standard - 3.81mm pin pitch

# **Board-Mounting Header**

Panel type



						* \	<u> </u>
Pos	Key	Plating	Color	Part Number	D	imensior	ns
P05	Key	Plating	COIOI	Part Number	А	В	С
		Gold	Black	1-178293-2			
	X	Gold	Black	1-178293-3			
3		Tin	Black	1-178293-5	21.6		
3		Gold	Black	2-178293-2	21.0		
	Υ	Gold	Black	2-178293-3			
		Tin	Black	2-178293-5			
		Gold	Black	1-178294-2			
	X	Gold	Black	1-178294-3	25.4		
4		Tin	Black	1-178294-5			
	Y	Gold	Black	2-178294-2		9.2 22.1	
		Gold	Black	2-178294-3			
		Gold	Black	1-178295-2			
5	X	Gold	Black	1-178295-3	29.2		10.9
		Tin	Black	1-178295-5			
		Gold	Black	1-178296-2			
6	X	Gold	Black	1-178296-3	33.1		
0		Tin	Black	1-178296-5	55.1		
	Υ	Gold	Black	2-178296-2			
		Gold	Black	1-178297-2			
8	X	Gold	Black	1-178297-3	40.7		
		Tin	Black	1-178297-5			
		Gold	Black	1-178298-2			
10	X	Gold	Black	1-178298-3	48.3		
10		Tin	Black	1-178298-5	40.3		
	Υ	Gold	Black	2-178298-3			

# **Board-Mounting Header**

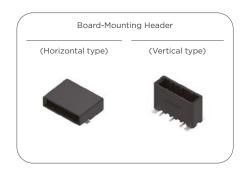


Pos	Key	Plating	Color	Part Number	D	imensior	าร	
Pos	Key	Plating	Color	Part Number	А	В	С	
		Gold	Black	1-178313-2				
	X	Gold	Black	1-178313-3				
3		Tin	Black	1-178313-5	21.6			
3		Gold	Black	2-178313-2	21.0			
	Υ	Gold	Black	2-178313-3				
		Tin	Black	2-178313-5				
		Gold	Black	1-178314-2				
	X	Gold	Black	1-178314-3				
4		Tin	Black	1-178314-5	25.4			
4		Gold	Black	2-178314-2	25.4	25.4		
	Υ	Gold	Black	2-178314-3		9.4		
		Tin	Black	2-178314-5				
		Gold	Black	1-178315-2				
5	Χ	Gold	Black	1-178315-3	29.2		21.6	
		Tin	Black	1-178315-5		J	21.0	
		Gold	Black	1-178316-2				
	X	Gold	Black	1-178316-3				
6		Tin	Black	1-178316-5	33.1			
0		Gold	Black	2-178316-2	55.1			
	Υ	Gold	Black	2-178316-3				
		Tin	Black	2-178316-5				
		Gold	Black	1-178317-2				
8	X	Gold	Black	1-178317-3	40.7			
		Tin	Black	1-178317-5				
		Gold	Black	1-178318-2				
10	X	Gold	Black	1-178318-3	48.3			
		Tin	Black	1-178318-5	40.0			
	Υ	Gold	Black	2-178318-2				

# D-3100S Single-row SMT Types - 3.81mm pin pitch

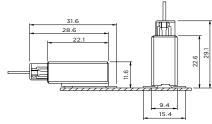
# **Type Chart**





Dan	Calau	I/au	December le beveire	Tab ho	using	Diation	Board-Mount	ing Header
POS	Pos Color Key		Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type
5	Black		1-178288-5	_	_	Gold	1-177662-2	1-177665-2
0	Black	X	1 170200 7	_	_	Gold	1-179188-2	
8	Black	1-178288-7		_	_	Gold	1-179188-3	_

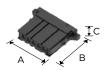
#### **Mated Dimension**



Free Hanging type

#### **External Dimensions**

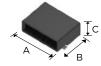
• Receptacle Housing



Dan	I/au	Kara Calau Bart Number	П	imension	S	
Pos	Key	Color	Part Number	А	В	С
5	V	District	1-178288-5	34.4	22.0	7.0
8	X	Black	1-178288-7	45.8	22.8	7.2

#### Board-Mounting Header

Horizontal type



Daa	I/au	Disting	Calau	Dauk Numalaan	D	imension	S
Pos	Key	Plating	Color	Part Number	Α	В	С
5	Χ	Gold	Black	1-177662-2	29.2		
0		Gold	Black	1-179188-2	40.7	22.1	11.6
8	X	Gold	Black	1-179188-3	40.7		

Vertical type

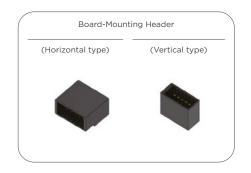


Dee	I/au	Key Plating C		Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	АВ	С		
5	Х	Gold	Black	1-177665-2	29.2	9.4	22.6	

# D-3100D Double-row Standard Type - 3.81mm pin pitch

# **Type Chart**



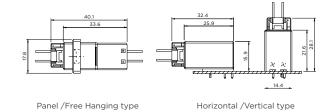


D	C-1	17	December de la constitución de		Tab housing		Distinct	Board-Moun	ting Header
Pos	Color	Key	Receptacle housing	Panel type	Free Hanging type	L Bracket	Plating	Horizontal type	Vertical type
	Black	X				S	0.11	178303-2	178323-2
6	Black	X	178289-3	178803-3	178964-3	S	Gold	178303-3	178323-3
	Black	X				S	Tin	178303-5	178323-5
	Black	X				S	C-1-1	1717412-2	1903601-2
8	Black	X	178289-4	_	178964-4	S	Gold	1717412-3	_
	Black	X				S	Tin	_	1903601-5
	Black	X				L	Gold	178305-2	178325-2
10	Black	X	178289-5	178803-5	178964-5	L	Gold	178305-3	178325-3
	Black	X				L	Tin	178305-5	178325-5
	Black	X				L	Cald	178306-2	178326-2
12	Black	X	178289-6	178803-6	178964-6	L	Gold	178306-3	178326-3
	Black	X				L	Tin	178306-5	178326-5
	Black	X				L	Cald	178307-2	178327-2
16	Black	X	178289-7	178803-7	178964-7	L	Gold	178307-3	178327-3
	Black					L	Tin	178307-5	178327-5
	Black	X	178289-8			L	6-1-1	178308-2	178328-2
20	Black	X		178803-8	178964-8	L	Gold	178308-3	178328-3
	Black					L	Tin	178308-5	178328-5

#### **Relative Product Information**

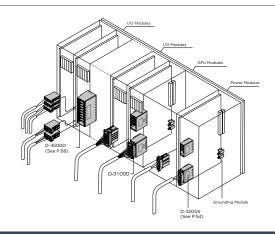
Applicable contact...P.48
Performance & Specifications...P.45
Accessories...P.126

# **Board-Mounting Header**



#### **Applications**

Example of Programmable Controller Application



# D-3100D Double-row Standard Type - 3.81mm pin pitch

#### **External Dimensions**

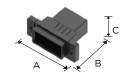
Receptacle Housing



D	17	Calan	Part Number		Dimension	S
Pos	Key	Color	Part Number	А	В	С
6	X	Black	178289-3	24.4		
8	X	Black	178289-4	28.2		
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		
20	X	Black	178289-8	51.0		

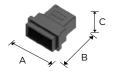
#### **Tab Housing**

Panel type



Pos	I/ov	Color	Part Number		imension	s
POS	Key	Color Part Number		А	В	С
6	X	Black	178803-3	40.0		
10	X	Black	178803-5	47.0		
12	X	Black	178803-6	51.0	33.6	17.8
16	X	Black	178803-7	59.0		
20	X	Black	178803-8	67.0		

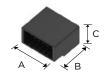
Free Hanging type



Dan	I/au	Calan	Doub Number		Dimension	S
POS	Pos Key		Color Part Number		В	С
6	Х	Black	178964-3	25.6		
8	Х	Black	178964-4	29.4		
10	Х	Black	178964-5	33.2	33.6	17.8
12	Х	Black	178964-6	37.0	33.0	17.8
16	Х	Black	178964-7	44.6		
20	X	Black	178964-8	52.2		

# **Board-Mounting Header**

Horizontal type



D	17	Distingu	C-1	Part Number	D	imension	IS
Pos	Key	Plating	Color	Color Part Number		В	С
	×	Gold	Black	178303-2			
6	X	Gold	Black	178303-3	21.6		
	X	Tin	Black	178303-5			
8	X	Gold	Black	1717412-2	25.4		
0	X	Gold	Black	1717412-3	25.4		
	X	Gold	Black	178305-2			
10	X	Gold	Black	178305-3	29.2		
	X	Tin	Black	178305-5		25.9	15.9
	X	Gold	Black	178306-2			
12	X	Gold	Black	178306-3	33.1		
	X	Tin	Black	178306-5			
	X	Gold	Black	178307-2			
16	X	Gold	Black	178307-3	40.7		
	X	Tin	Black	178307-5			
	X	Gold	Black	178308-2			
20	X	Gold	Black	178308-3	48.3		
	X	Tin	Black	178308-5			



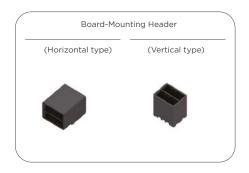
Pos	I/au	Plating	Calau	Part Number	D	imensior	ıs
POS	Key	Plating	Color Fart Number		А	В	С
	Χ	Cala	Black	178323-2			
6	Χ	Gold	Black	178323-3	21.6		
	×	Tin	Black	178323-5			
8	Χ	Gold	Black	1903601-2	25.4		
0	×	Tin	Black	1903601-5	25.4		
	Χ	Gold	Black	178325-2			
10		Gold	Black	178325-3	29.2	14.4	21.6
	X	Tin	Black	178325-5			
	Χ	Cala	Black	178326-2			
12	X	Gold	Black	178326-3	33.1		
	X	Tin	Black	178326-5			
	Χ	Gold	Black	178327-2			
16	X	Gold	Black	178327-3	40.7		
	Χ	Tin	Black	178327-5			
	Χ	Gold	Black	178328-2			
20	Χ	Gold	Black	178328-3	48.3		
	X	Tin	Black	178328-5			

# D-3100M Double-row Standard Modular Type - 3.81mm pin pitch

# **Type Chart**





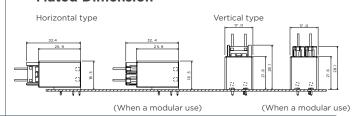


			Receptacl	e housing	Tab h	ousing		Board-Moun	ting Header
Pos	Color	Key	1 row 3 pos.	2 row 6 pos.	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type
	Black						Gold	1-178137-2	1-178141-2
	Black	XX	XX 1-178288-3 (2)	1-178127-6 (1)			Gold	1-178137-3	1-178141-3
	Black						Tin	1-178137-5	1-178141-5
6	Black	YY	2 170200 7 (2)	2 170127 ( (1)			Gold	2-178137-2	
ь	Black		2-178288-3 (2)	2-178127-6 (1)	_	_	Tin	2-178137-5	_
	Black		1 170000 7 (1)0				Gold	3-178137-2	3-178141-2
	Black	XY	1-178288-3 (1)2-	3-178127-6 (1)			Gold	3-178137-3	3-178141-3
	Black	178288-3 (1)				Tin	3-178137-5	3-178141-5	

#### **Relative Product Information**

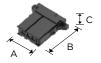
Applicable contact...P.48
Performance & Specifications ...P.45

#### **Mated Dimension**



#### **External Dimensions**

Receptacle Housing



Pos	I/au	Color	Part Number	С	imension	s
POS	Key	Color	Part Number	А	В	С
7	X	Dist	1-178288-3	20.0	22.0	7.0
3	Υ	Black	2-178288-3	26.8	22.8	7.2

# Board-Mounting Header

Horizontal type



_					D	imensior	าร
Pos	Key	Plating	Color	Part Number	А	В	C
		Gold	Black	1-178137-2			
	XX	Gold	Black	1-178137-3			
		Tin	Black	1-178137-5			
6	YY	Gold	Black	2-178137-2	21.6	25.9	18.5
0	1 1	Tin	Black	2-178137-5	21.0	25.9	10.5
		Gold	Black	3-178137-2	1		
	XY	Gold	Black	3-178137-3			
		Tin	Black	3-178137-5			

Vertical type



_					Dimensions					
Pos	Key	Plating	Color	Part Number	Α	В	С			
		Gold	Black	1-178141-2						
	XX	XX	XX	XX	Gold	Black	1-178141-3			
_		Tin	Black	1-178141-5	21.0	17.0	21.0			
6		Calal	Black	3-178141-2	21.6	17.0	21.6			
	XY	XY Gold	Black	3-178141-3						
		Tin	Black	3-178141-5						

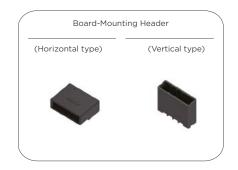


Dan	I/av	Calas	Doub Number	С	Dimension	s
Pos	Key	Color	Part Number	А	В	С
	XX	Black	1-178127-6			
6	YY	Black	2-178127-6	24.8	22.8	14.8
	XY	Black	3-178127-6			

# D-3200S Single-row High Voltage Type - 5.08mm pin pitch

# **Type Chart**





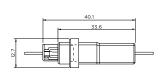
D	0.1	17	December de la constant		Tab housing		Distinct	Board-Moun	ting Header
Pos	Color	Key	Receptacle housing	Panel type	Free Hanging type	L Bracket	Plating	Horizontal type	Vertical type
	Black						Gold	1-179276-2	1-917337-2
	Black	X	1-178128-2	1-179553-2	1-179552-2		Gold	1-179276-3	1-917337-3
	Black						Tin	1-179276-5	1-917337-5
2	Black						Gold	2-179276-2	2-917337-2
	Black	Υ	2-178128-2	2-179553-2	2-179552-2		Gold	2-179276-3	2-917337-3
	Black					S	Tin	_	2-917337-5
	Black					5	Gold	1-178138-2	1-178136-2
	Black	X	1-178128-3	1-179553-3	1-179552-3		Gold	1-178138-3	1-178136-3
	Black						Tin	1-178138-5	1-178136-5
3	Black						Gold	2-178138-2	2-178136-2
	Black	Υ	2-178128-3	2-179553-3	2-179552-3		Gold	2-178138-3	2-178136-3
	Black						Tin	2-178138-5	2-178136-5
	Black	Z	3-178128-3	_	_	_	Tin	_	3-178136-5
	Black						Gold	1-179277-2	1-917338-2
	Black	Х	1-178128-4	1-179553-4	1-179552-4		Gold	1-179277-3	1-917338-3
4	Black					S	Tin	1-179277-5	1-917338-5
4	Black					5	Gold	2-179277-2	2-917338-2
	Black	Υ	2-178128-4	2-179553-4	2-179552-4		Gold	2-179277-3	2-917338-3
	Black						Tin	2-179277-5	2-917338-5
	Black						Gold	1-316130-2	1-316132-2
	Black	X	1-178128-5				Gold	1-316130-3	1-316132-3
5	Black						Tin	1-316130-5	1-316132-5
	Black	Υ	2 170120 5				Gold	2-316130-2	2-316132-2
	Black	Y	2-178128-5				Gold	2-316130-3	2-316132-3
	Black				_		Gold	1-316131-2	1-316133-2
		X	1-178128-6				Gold	1-316131-3	1-316133-3
ŝ	Black						Tin	1-316131-5	1-316133-5
O	Black						Gold	2-316131-2	2-316133-2
	Black	Υ Y	2-178128-6				Gold	_	2-316133-3
	Black						Tin	2-316131-5	_

#### **Relative Product Information**

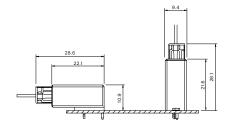
Applicable contact...P.48
Performance & Specifications ...P.45
Accessories ...P.126

# D-3200S Single-row High Voltage Type - 5.08mm pin pitch

#### **Mated Dimension**



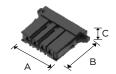
Panel /Free Hanging type



Horizontal /Vertical type

#### **External Dimensions**

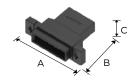
Receptacle Housing



Pos	I/au	Color	Part Number		Dimension	S
POS	Key	Color	Part Number	А	В	С
2	Х	Black	1-178128-2	24.6		
2	Υ	Black	2-178128-2	24.6		
	Χ	Black	1-178128-3			
3	3 Y	Black	2-178128-3	29.7	22.8	
	Z	Black	3-178128-3			
4	Х	Black	1-178128-4	740		7.2
4	Υ	Black	2-178128-4	34.8		
5	Х	Black	1-178128-5	39.9		
5	Υ	Black	2-178128-5	39.9		
6	Х	Black	1-178128-6	45.0		
ю	Υ	Black	2-178128-6	45.0		

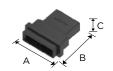
#### Tab Housing

Panel type



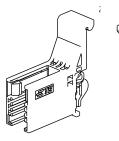
Pos	I/au	Color	Part Number	Dimensions			
POS	Key	Color	Part Number	А	В	С	
2	Х	Black	1-179553-2	70.0			
2	Υ	Black	2-179553-2	36.8	33.6	12.7	
7	Х	Black	1-179553-3	41.0			
3	Υ	Black	2-179553-3	41.9	33.0	12.7	
4	Х	Black	1-179553-4	47.0			
4	Υ	Black	2-179553-4	47.0			

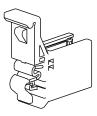
Free Hanging type



Pos	Key	Color	Part Number	Dimensions			
POS	Key	Color	Part Number	А	В	С	
2	X	Black	1-179552-2	23.0			
2	Υ	Black	2-179552-2	23.0			
7			1-179552-3	201	33.6	10.7	
3	Υ	Black 2-179552-3		28.1		12.7	
4	X	Black	*1-179552-4	33.2			
4	Υ	Black	*2-179552-4	33.2			

<sup>\*</sup>DIN rail attachment is available. P/N : 2822900-1 Applicable P/N :  $\Delta$ -179552-4

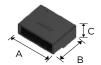




# D-3200S Single-row Standard - 5.08mm pin pitch

Board-Mounting Header

Horizontal type



					D	imension	20
Pos	Key	Plating	Color	Part Number	A	B	ns C
			Black	1-179276-2	, ,		
	X	Gold	Black	1-179276-3			
2		Tin	Black	1-179276-5	19.1		
	Y		Black	2-179276-2			
	Y	Gold	Black	2-179276-3			
		6 - 1 -1	Black	1-178138-2			
	X	Gold	Black	1-178138-3			
_		Tin	Black	1-178138-5	040		
3	3 Y		Black	2-178138-2	24.2		
		Gold	Black	2-178138-3			
		Tin	Black	2-178138-5			
		Gold	Black	1-179277-2			
	X	Gold	Black	1-179277-3			10.9
		Tin	Black	1-179277-5	20.0	22.1	
4		6 - 1 -1	Black	2-179277-2	29.2		
	Υ	Gold	Black	2-179277-3			
		Tin	Black	2-179277-5			
		6-1-1	Black	1-316130-2			
	X	Gold	Black	1-316130-3			
5		Tin	Black	1-316130-5	34.3		
		6 - 1 -1	Black	2-316130-2			
	Y	Gold	Black	2-316130-3			
		Calal	Black	1-316131-2			
	X	Gold	Black	1-316131-3			
6		Tin	Black	1-316131-5	39.4		
	~	Gold	Black	2-316131-2			
	Y	Tin	Black	2-316131-5			

Board-Mounting Header

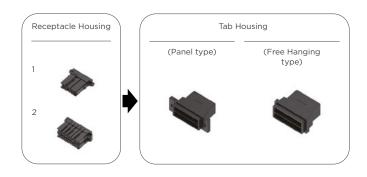
Vertical type

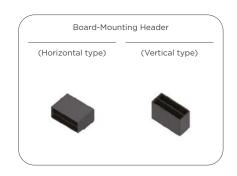


D	17	Distinct	C-1	Doub Novele en	Di	mensio	ns	
Pos	Key	Plating	Color	Part Number	А	В	С	
		6-1-1	Black	1-917337-2				
	X Gold Black 1-917337-3  Tin Black 1-917337-5							
2		Tin	Black	1-917337-5	19.1			
		6-1-1	Black	2-917337-2	15.1			
	Υ	Gold	Black	2-917337-3				
		Tin	Black	2-917337-5				
		Gold	Black	1-178136-2				
	X	Gold	Black	1-178136-3				
		Tin	Black	1-178136-5				
3		Gold	Black	2-178136-2	24.2			
	Υ	Gold	Black	2-178136-3				
		Tin	Black	2-178136-5				
	Z	Tin	Black	3-178136-5				
		Gold Black 1-917338-2						
	X	Gold	Black	1-917338-3		9.4	21.6	
4		Tin	Black	1-917338-5	29.2			
4			Gold	Black	2-917338-2	29.2		
	Υ	Gold	Black	2-917338-3				
		Tin	Black	2-917338-5				
		Gold	Black	1-316132-2				
	X	Gold	Black	1-316132-3				
5		Tin	Black	1-316132-5	34.3			
	Y	Gold	Black	2-316132-2				
	T	Gold	Black	2-316132-3				
		Gold	Black	1-316133-2				
	×	Gold	Black	1-316133-3				
6		Tin	Black	1-316133-5	39.4			
	Y	Gold	Black	2-316133-2				
	'	Gold	Black	2-316133-3				

# D-3200M Double-row High Voltage Types - 5.08mm pin pitch

# **Type Chart**





					Tab housing			Board-Moun	ting Header
Pos	Color	Key	Receptacle housing (2)	Panel type	Free Hanging type	L Brac- ket	Plating	Horizontal type	Vertical type
	_					S	Gold	1-178139-2	1-178140-2
	_	XX	1-178129-6	1-179555-3	1-179554-3	S	Gold	1-178139-3	1-178140-3
	_					S	Tin	1-178139-5	1-178140-5
	_					S	Gold	2-178139-2	2-178140-2
	_	YY	2-178129-6	2-179555-3	2-179554-3	S	Gold	2-178139-3	2-178140-3
6	_					S	Tin	2-178139-5	2-178140-5
	_					S	Gold	3-178139-2	3-178140-2
	_	XY	3-178129-6	3-179555-3	3-179555-3 3-179554-3 S		Gold	3-178139-3	3-178140-3
	_					S	Tin	3-178139-5	3-178140-5
	_	YX	*(1)	_	_	_	Gold	4-178139-2	_
	_	ZX	*(1)	_	_	_	Tin	6-178139-5	_
	_			_	_	_	Gold	1-316080-2	1-917657-2
	_	XX	1-917659-5	_	_	_	Gold	1-316080-3	1-917657-3
	_			_	_	_	Tin	1-316080-5	1-917657-5
	_			_	_	_	Gold	2-316080-2	2-917657-2
О	_	YY	2-917659-5	_	_	_	Gold	2-316080-3	2-917657-3
	_			_	_	_	Tin	2-316080-5	2-917657-5
	_			_	_	_	Gold	3-316080-2	3-917657-2
	_	XY	3-917659-5	_	_	_	Gold	3-316080-3	3-917657-3
	_			_	_	_	Tin	3-316080-5	3-917657-5
	_					L	Gold	1-316081-2	1-917658-2
	_	XX	1-917659-6	1-179555-6	1-179554-6	L	Gold	1-316081-3	1-917658-3
	_					L	Tin	1-316081-5	1-917658-5
	_					L	Gold	2-316081-2	2-917658-2
2	_	YY	2-917659-6	2-179555-6	_	L	Gold	2-316081-3	2-917658-3
	_					L	Tin	_	_
	_					L	Gold	3-316081-2	3-917658-2
	_	XY	3-917659-6	3-179555-6	3-179554-6	L	Gold	3-316081-3	3-917658-3
	_					L	Tin	_	_
20	_	XX	1-917659-8	1-179555-8	_	_	_	_	_

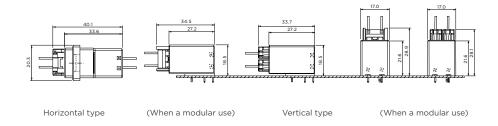
#### **Relative Product Information**

Applicable contact...P.48
Performance & Specifications ...P.45
Accessories ...P.126

For(1)D-3200S Receptacle housing, please see P.56 PN 1-178128-3 and 3-178128-3 are used.

# D-3200M Double-row High-voltage Modular Types – 5.08mm pin pitch

#### **Mated Dimension**



#### **External Dimensions**

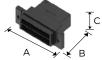
• Receptacle Housing



Pos	Key Color		Part Number		Dimension	S
POS	Key	Color	Part Number	А	В	С
	XX	Black	1-178129-6			
6	YY	Black	2-178129-6	27.3		
	XY	Black	3-178129-6			
	XX	Black	1-917659-5		22.8	
10	YY	Black	2-917659-5	37.5		14.8
	XY	Black	3-917659-5			14.8
	XX	Black	1-917659-6			
12	YY	Black	2-917659-6	42.5		
	XY	Black	3-917659-6			
20	XX	Black	1-917659-8	62.9		

#### Tab Housing

Panel type



Dan	I/au	Color	Part Number	Dimensions			
Pos	Key	Color	Part Number	А	В	С	
	XX	Black	1-179555-3				
6	YY	Black	2-179555-3	41.9	33.6	20.3	
	XY	Black	3-179555-3				
	XX	Black	1-179555-6				
12	YY	Black	2-179555-6	57.9			
	XY	Black	3-179555-6				
20	XX	Black	1-179555-8	78.2			

Free Hanging type



Pos	os Key Color Part Num		Part Number	D	Dimensions			
POS	Key	Color	Part Number	А	В	С		
	XX	Black	1-179554-3					
6	YY	Black	2-179554-3	28.1	33.6	20.3		
	XY	Black	3-179554-3					
12	XX	Black	1-179554-6	43.4				
12	XY	Black	3-179554-6	45.4				

# D-3200M Double-row High-voltage Modular Types - 5.08mm pin pitch

# **Board-Mounting Header**

Horizontal type



Dan	I/a.	Diahir	Cala	Doub Number	D	imensior	าร
Pos	Key	Plating	Color	Part Number	А	В	С
		Gold	Black	1-178139-2			
	XX	Gold	Black	1-178139-3			
		Tin	Black	1-178139-5			
		Gold	Black	2-178139-2			
	YY	Gold	Black	2-178139-3			
6		Tin	Black	2-178139-5	24.2		
		Gold	Black	3-178139-2			
	XY	Gold	Black	3-178139-3			
	YX	Tin	Black	3-178139-5			
		Gold	Black	4-178139-2			
	ZX	Tin	Black	6-178139-5			18.5
		Gold	Black	1-316080-2		27.2	
	XX	Gold	Black	1-316080-3	34.3		
		Tin	Black	1-316080-5			
		Gold	Black	2-316080-2			
10	YY	Gold	Black	2-316080-3			
		Tin	Black	2-316080-5			
		Gold	Black	3-316080-2			
	XY	Gold	Black	3-316080-3			
		Tin	Black	3-316080-5			
		Gold	Black	1-316081-2			
	XX	Gold	Black	1-316081-3			
		Tin	Black	1-316081-5			
12	10	Gold	Black	2-316081-2	39.4		
12	YY	Gold	Black	2-316081-3	39.4		
		Tin	Black	_			
	~~	Gold	Black	3-316081-2			
	XY	Gold	Black	3-316081-3			

# **Board-Mounting Header**

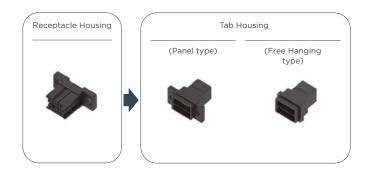
Vertical type

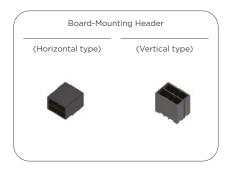


	1,	DI .:		5	D	imensior	าร
Pos	Key	Plating	Color Part Number		А	В	С
		Gold	Black	1-178140-2			
	XX	Gold	Black	1-178140-3			
		Tin	Black	1-178140-5			
		Gold	Black	2-178140-2			
6	YY	Gold	Black	2-178140-3	24.2		
		Tin	Black	2-178140-5			
		Gold	Black	3-178140-2			
	XY	Gold	Black	3-178140-3			
		Tin	Black	3-178140-5			
	XX	Gold	Black	1-917657-2			
		Gold	Black	1-917657-3	34.3		
		Tin	Black	1-917657-5			
		Gold	Black	2-917657-2			21.6
10	YY	Gold	Black	2-917657-3		17.0	
		Tin	Black	2-917657-5			
		Gold	Black	3-917657-2			
	XY	Gold	Black	3-917657-3			
		Tin	Black	3-917657-5			
		Gold	Black	1-917658-2			
	XX	Gold	Black	1-917658-3			
		Tin	Black	1-917658-5			
		Gold	Black	2-917658-2			
12	YY	Gold	Black	2-917658-3	39.4		
		Tin	Black	_			
		Gold	Black	3-917658-2			
	XY	Gold	Black	3-917658-3			
		Tin	Black	_			

# D-3200M Double-row High-voltage Modular Types – 5.08mm pin pitch

# **Type Chart**





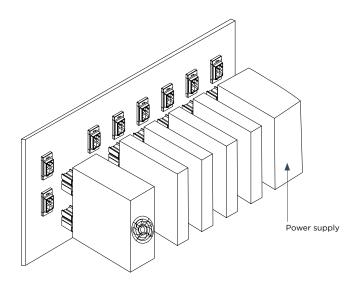
Dan	Pos Color Key	Decemberale benefits	Tab housing		Diation	Board-Mounting Header		
POS	Color Key Receptacle housing		Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type
					Gold	1-178139-2	1-178140-2	
6	Black	ack XX 1-917266-3		1-179555-3	1-179554-3	Gold	1-178139-3	1-178140-3
						Tin	1-178139-5	1-178140-5

#### **Relative Product Information**

Applicable contact...P.48
Performance & Specifications ...P.45
Accessories ...P.126

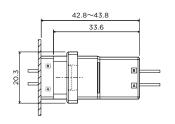
### **Applications**

Example of Compact Disk Device Application

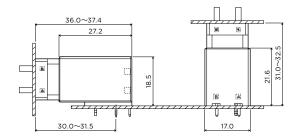


# D-3200M Double-row High voltage Drawer Types - 5.08mm pin pitch

#### **Mated Dimension**







Horizontal / Vertical type

#### **External Dimensions**

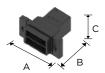
 Receptacle Housing (Drawer type)



Dan	I/au	Calar	Part Number	С	imension	S
Pos Key	Color Part Number	А	В	С		
6	XX	Black	1-917266-3	40.0	25.7	15.4

#### Tab Housing

Panel type



Dee	I/au	Calau	Part Number		imension	ıs
POS	Pos Key	Color Part Number	А	сВ	С	
6	XX	Black	1-179555-3	41.9	33.6	20.3

### Free Hanging type



Dee	I/au	Calax	Part Number	Г	imension	s
Pos Key	Color Part Num	Part Number	А	В	С	
6	XX	Black	1-179554-3	28.1	33.6	20.3

#### • Board-Mounting Header

Horizontal type



Pos	I/au	Diahina	Calau	or Part Number	D	imension	IS
POS	Key	Plating	Color	Color Part Number		В	С
		Cala	Black	1-178139-2	24.2	27.2	18.5
6	XX	Gold	Black	1-178139-3			
		Tin	Black	1-178139-5			

#### Vertical type



Dee	I/a	Disting	Calau	Doub Nivers la ou	D	imensior	าร
Pos Key	Plating Co	Color	Color Part Number		В	С	
		Gold	Black	1-178140-2		17.0	21.6
6	6 XX		Black	1-178140-3	24.2		
	Tin	Black	1-178140-5				

# D-3200 FMLB (Sequential Type) - 5.08mm pin pitch

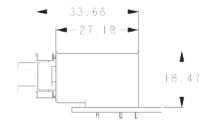
# **Type Chart**





Doc	Pos Key Color Recept	Receptacle housing	Tab housing		Plating	Board-Mounting Header		
PUS		Receptacle flousing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type	
4	RR	Black	1-2303376-1			Gold	1-2299004-1	
4	SS	Black	2-2303376-1			Gold	2-2299004-1	
	RR	Black	1-2303378-1		_	Gold	1-2299005-1	_
12	SS	Black	2-2303378-1			Gold	2-2299005-1	
	RS	Black	3-2303378-1			Gold	3-2299005-1	

#### **Mated Dimension**



# **External Dimensions**

Receptacle Housing



Pos	Kev	Color Part Number	Dart Number	Dimensions			
P05	Pos Key	Color Fait Number		Α	В	С	
4	RR	Black	1-2291727-1	14.2	22.8	14.8	
4	SS	Black	2-2291727-1				
12	RR	Black	1-2291728-1				
12	SS	Black	2-2291728-1	34.5			

#### **Relative Product Information**

Applicable contact...P.48
Performance & Specifications ...P.45
Accessories ...P.126

• Board-Mounting Header

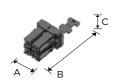
Horizontal type



Doc	os Key Plating Color Part Number		Dimensions				
POS	Key	Plating	COIOI	Part Number	Α	В	С
4	RR		Black	1-2299004-1	14.2 34.5	22.8	14.8
4	SS		Black	2-2299004-1			
	RR	_	- Black 1-229	1-2299005-1			
12	SS		Black	2-2299005-1			
	RS		Black	3-2299005-1			

Strain relief (optional)

Pos	Key	Color	Part Number
4	RR	Black	1-2303376-1
4	SS	Black	2-2303376-1
	RR	Black	1-2303378-1
12	SS	Black	2-2303378-1
	RS	Black	3-2303378-1



# D-3200T Triple-row High Voltage Modular Types - 5.08mm pin pitch

# **Type Chart**





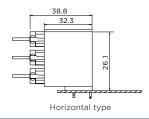
		Receptacle Hou	using (ma:	ximum 9 Pos.)		
Sir	ngle-Row (D-32	200S) *1	Double-Row (D-3200M)Single-Row (D-3200S) *1			
POS	KEY	Part Number	POS	KEY	Part Number	
3	X	1-178128-3	- 6	XX	1 170100 6	
3	X	1-178128-3	6	XX	1-178129-6	
3	X	1-178128-3	3	X	1-178128-3	
3	X	1-178128-3	3	Υ	2-178128-3	
3	X	1-178128-3			1 170100 0	
3	Υ	2-178128-3	6	XX	1-178129-6	
3	Υ	2-178128-3	3	X	1-178129-3	
3	Υ	2-178128-3		204	0.170100.0	
3	X	1-178128-3	6	YY	2-178129-6	
3	X	1-178128-3	3	X	1-178129-3	
3	Υ	2-178128-3		\n\	7 170100 0	
3	X	1-178128-3	6	XY	3-178129-6	
3	Z	3-178128-3	3	Z	3-178129-3	
3	Υ	2-178128-3		207	7 170100 0	
3	X	1-178128-3	6	XY	3-178129-6	

	Board	I-Mounting Head	er
	Horizor	ntal type (D-320	OT)
POS	KEY	Plating	Part Number
9	×××	Gold	1-1123624-2
9	7,7,7,	Tin	1-1123624-5
9	XXY	Gold	3-1123624-2
9	***	Tin	3-1123624-5
9	YYX	Gold	4-1123624-2
9	117	Tin	4-1123624-5
9	XYX	Gold	5-1123624-2
9	XYX	Tin	5-1123624-5
9	XYZ	Gold	9-1123624-2

#### **Relative Product Information**

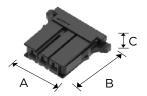
Applicable contact...P.48
Performance & Specifications ...P.45
\*1: P.56

#### **Mated Dimension**



#### **External Dimensions**

Receptacle Housing

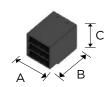


				Dimensions			
Pos Key	Color Part Number		А	В	С		
	X	Black	1-178128-3		22.8	7.2	
3	Υ	Black	2-178128-3	29.7			
	Z	Black	3-178128-3				
	XX	Black	1-178129-6		22.8	14.8	
6	YY	Black	2-178129-6	27.3			
	XY	Black	3-178129-6				

NOTE: All products are RoHS compliant On selection.

Board-Mounting Header

Horizontal type

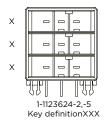


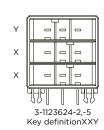
					Dimensions			
Pos	Key	Plating	Color	Part Number	А	В	С	
	XXX	Gold	Black	1-1123624-2	24.2		27.1	
		Tin	Black	1-1123624-5		32.3		
9	XXY	Tin	Black	3-1123624-5				
9	YYX	Tin	Black	4-1123624-5	24.2			
	XYX XYZ	Gold	Black	5-1123624-2				
		Gold	Black	9-1123624-2				

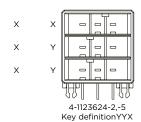
# D-3200T Triple-row High-voltage Modular Type - Key Description

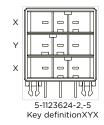
• Board-Mounting Header - horizontal type

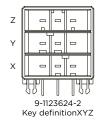
Key Type





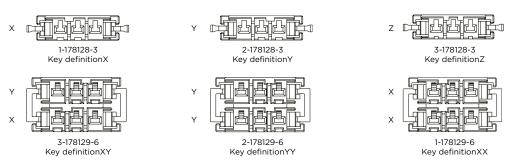




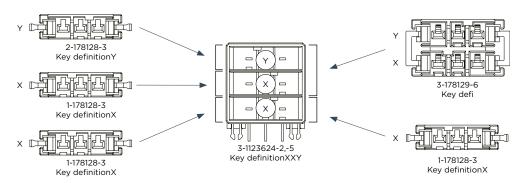


• Receptacle Housing, single-row, double-row

Key Type



Application Examples of Key Matching

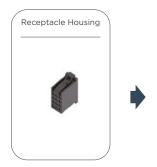


		Receptacl	e Housing (9 po:	sitions)	
Singl	le-row (D-32	200S) *1	Double-row	(D-3200M) Single-r	row (D-3200S) *1
Pos	Key	Part Number	Pos	Pos	Part Numbe
	X	1-178128-3	6	VV	1 170100 C
	X	1-178128-3	ь	XX	1-178129-6
	X	1-178128-3	3	X	1-178128-3
	X	1-178128-3	3	Υ	2-178128-3
	X	1-178128-3	6	XX	1 170100 C
	Υ	2-178128-3	ь	**	1-178129-6
	Υ	2-178128-3	3	X	1-178128-3
3	Υ	2-178128-3	6	YY	2-178129-6
	X	1-178128-3	ь	YY	2-1/8129-6
	X	1-178128-3	3	X	1-178128-3
	Υ	2-178128-3	6	XY	7 170100 0
	X	1-178128-3	Ö	A Y	3-178129-6
	Z	3-178128-3	3	Z	3-178128-3
	Υ	2-178128-3	6	XY	3-178129-6
	V	1_170120_7	O	A Y	3-1/8129-6

	Boar	d-Mounting He	ader
	Horizo	ontal type (D-32	200T)
Pos	Key	Plating	Part Number
9	XXX	Gold	1-1123624-2
9	***	Tin	1-1123624-5
0	XXY	Gold	3-1123624-2
9	XXY	Tin	3-1123624-5
0	\\\\\	Gold	4-1123624-2
9	YYX	Tin	4-1123624-5
0	2007	Gold	5-1123624-2
9	XYX	Tin	5-1123624-5
9	XYZ	Gold	9-1123624-2

# D-3400F Skyscraper Connectors - 3.81mm pin pitch

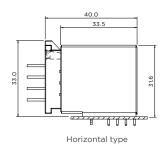
# **Type Chart**





Dos	Pos Color Key	Kov	(a). Dagantagla havaina	Tab h	nousing	Plating	Board-Mounting Header		
POS	Color	Key	Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type	
	Black					Gold	178216-2		
12	Black		178214-1			Gold	178216-3		
	Black					Tin	178216-5		
	Black	_		_	_	Gold	917251-2	_	
20	Black		917249-1	19-1		Gold	917251-3		
	Black	Black			Tin	917251-5			

#### **Mated Dimension**



# **External Dimensions**

• Receptacle Housing



D	I/ou	C-1	Doub Novelo	Е	Dimension	s
Pos	Pos Key Color		Part Number	А	В	С
12		Disale	178214-1	12.2	22.8	32.1
20	_	Black	917249-1	19.8	22.8	

Board-Mounting Header

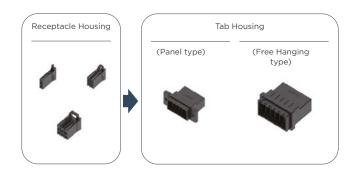
Horizontal type

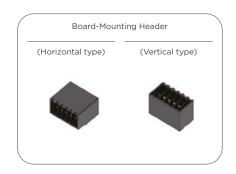


Pos	I/au	(ey Plating Color Part Number	Dimensions				
POS	Key	Key Plating Color F		Part Number	А	В	С
		Gold	Black	178216-2		33.5	31.6
12		Gold	Black	178216-3	15.0		
		Tin	Black	178216-5			
	_	Gold	Black	917251-2		33.5	
20		Gold	Black	917251-3	22.6		
		Tin	Black	917251-5			

# D-3500D Sensor Connector - 5.08mm pin pitch

# **Type Chart**

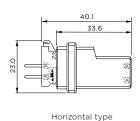


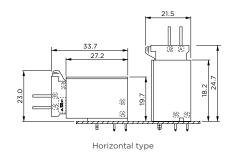


				Т	ab housing			Board-Moun	nting Header
Pos	Color	Key	Receptacle housing	Panel type	Free Hanging type	Brac- ket	Plating	Horizontal type	Vertical type
			175362-1						
2	Black		175362-2		_		_	_	
			175362-3						
	Black		175363-1						
	White		1-175363-1						
4	Black		175363-2*		_		Gold	1376133-2	_
	Blue		2-175363-1						
	Black	175363-3							
6	Black	_	1318095-1						
ь	віаск		1318095-2		_	_	_		
							Gold	177555-2	316516-2
12	Black			917241-6	917242-6		Gold	177555-3	316516-3
IZ	Black		Possible to use several pieces of 2/4/6 pos	3-917241-6 **	3-917242-6 **		Gold	1-177555-2	_
			receptacle housings with			S	Tin	177555-5	316516-5
			different combination to 12/20 pos.				Gold	175365-2	316517-2
20	Black		, . , . ,	917241-8 3-917241-8 **	917241-8 917242-8 3-917241-8 ** 3-917242-8 **		Gold	175365-3	316517-3
				3-91/241-0 3-91/242-8			Tin	175365-5	316517-5

<sup>\*</sup> Small Lever Type

## **Mated Dimension**





#### **Relative Product Information**

Applicable contact...P.48
Performance & Specifications ...P.45
Accessories ...P.126

<sup>\*\*</sup> Triangle mark for position 1

# D-3500D Sensor Connector - 5.08mm pin pitch

#### **External Dimensions**

• Receptacle Housing



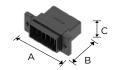




Dee	Veu	Color	Part Number	С	imension	S
Pos	Key	Color Part Nulliber		А	В	С
		Black	175362-1			
2		Black	175362-2	4.6		
		Black	175362-3		22.8	21.0
		Black	175363-1			
		White	1-175363-1			
4	_	Blue	2-175363-1	9.7		
		Black	175363-2			
		Black	175363-3			
6		Black	1318095-1	14.7		
0		Black	1318095-2	14.7		

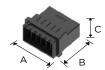
#### • Tab Housing

Panel type



Dan	os Key Color Part Number		Dimensions				
Pos	Key	Color	Part Number	А	В	С	
12	10	Black	917241-6	52.0			
12		Black 3-917241-6		52.0	77.6	01.5	
20	_	Black	917241-8	72.0	33.6	21.5	
20	20		3-917241-8	72.0			

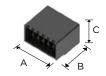
Free Hanging type



Dos	Pos Kev Color Part Number		Dimensions				
POS	Key	COIOI	Part Number	Α	В	С	
12	12	Black	917242-6	36.4	33.6	21.5	
12		Black	3-917242-6	30.4			
20	_	Black	917242-8	56.8			
20		Black	3-917242-8	30.8			

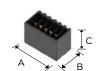
#### Board-Mounting Header

Horizontal type



Pos	I/au	Plating	Calar	Part Number		imensio	าร
POS	Key	Plating	Color	Part Number	А	В	С
4			Black	1376133-2	12.2		
		Gold	Black	177555-2			
12			Black	177555-3	32.5		19.7
12		Tin	Black	177555-5	32.5	27.2	
	_		Black	1-177555-2		21.2	
		Gold	Black	175365-2			
20			Black	175365-3	52.8		
		Tin	Black	175365-5			

Vertical type



Pos	Kov	Distinct.	Color	Part Number	D	imension	IS
POS	Key	Plating	Color	Part Number	А	В	С
		Gold	Black	316516-2	32.5	18.2	
12		Gold	Black	316516-3			21.6
		Tin	Black	316516-5			
	_	Gold	Black	316517-2		10.2	21.0
20		Gold	Black	316517-3	52.8		
		Tin	Black	316517-5			

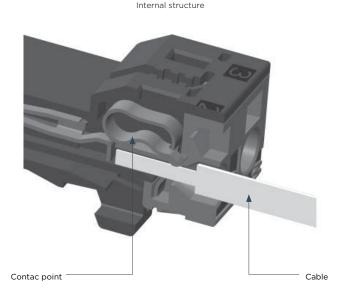
# **Spring Clamp Type**

The Spring Clamp Type series is a spring clamp type connector applicable to Servo I/O application, etc.

Thanks to the on-site mounting without any crimping tools, working time can be saved significantly.



 Adopt the standard wiring method as Dynamic series, and Spring clamp type contacts on receptacle side which comply with UL1059.



- · Applicable to ports of power supply series where a UL508 servo amplifier and inverter, etc. must be used.
- The implementation can be carried out on-site without any crimping tools. Compared to the spiral wiring method, working time is saved significantly.

# **Product Features**

#### **Spring clamp contact**

The contact is assembled in housing already with a spring clamp design which provide easy on-site installation, therefore increase the efficiency of assembly.

#### **Audible Latching**

Obvious lock sound and feeling when mating means work can be done without mistaks, such as mismating (halfmating), even if the connection cannot be seen.

#### **Keying**

The housing is keyed (with a slit), so differentiating between X keys and Y keys prevents mismating. It is also possible to make more key patterns by using keying plugs.

# **Spring Clamp Series Performance and Specifications**

#### **Performance**

Series Item	D-2950	D-3950	D-4950	D-5900	
Contact pitch [mm]	5.08	7.5	7.5	13.1	
Rated current max. UL [A]	10	14.5	22	42	
Rated voltage UL1059 B [V]	300 AC/DC	300 AC/DC	300 AC/DC	_	
Rated voltage UL1059 C [V]	_	- 300 AC/DC 300 AC/D0		600 AC/ DC	
Rated voltage UL1059 D [V]	300 AC/DC	600 AC/DC	600 AC/DC	_	
Dielectric withstanding Voltage	2,200V AC	2,200V AC	2,200V AC	2200V AC	
Wire size [AWG]	18-14	22-14	10-16	16-8	
Wire size [mm²]	0.75-2.0	0.3-2.0	1.25-5.5	1.25-8.0	

#### **Performance**

Series	D-2950	D-3950	D-4950	D-5900
Product Specification	108-140221	108-78997	108-140216	108-140022
Application Specification	408-78172	411-78272	408-78173	408-78067

#### **Performance**

Description	Material	Finish		
Receptacle contact (mating area only)	Copper alloy	0.38μm Gold plating over 1.27μm Nickel under plating		
Board-mounting he- ader contact	Copper alloy	Mating area: 0.38µm Gold plating over 1.27µm Nickel under plating Tail area: 2µm TIN plating over1.27µm Nickel under plating		
Receptacle Housing Board-mounting he- ader Housing	Thermoplastic PBT contain glass fiber, UL94V-			

# Positions / Wire size / Rated current

#### D-2950 series

No of	Current(A)								
energized positions	AWG14	AWG16	AWG18	AWG20	AWG22				
5	11.25	10.5	9.5	8	6.5				
6	10.5	9.75	9	7	5.5				

# D-3950 series

No of	Current(A)								
energized positions	AWG14	AWG16	AWG18	AWG20	AWG22				
1	14.5	13.75	13	10.75	8.7				
2-5	12.75	11.75	10.25	8.25	7.2				
6-11	11.8	9.75	8.75	7	5.5				

#### D-4950 series

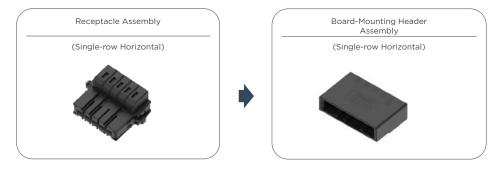
No of energized		Current(A)						
positions	AWG10	AWG12	AWG14	AWG16				
8	22	19	15	10				

#### D-5900 series

No of	Current(A)							
energized positions	AWG14	AWG16	AWG18	AWG20	AWG22			
4	42	30	20	15	10			
6	35	30	20	15	10			

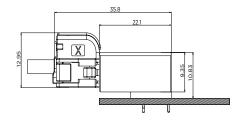
# D-2950 Spring Clamp Type - 5.08mm pin pitch

# **Type Chart**



Dee	Pos Key Color Circuit mark	Civer sit manuals	Receptacle Assembly		Board-Mounting Header Assembly	
POS	Key	Color	Circuit mark	Single-row Horizontal	Plating	Single-row Horizontal
5	X	Black	Yes	1-2347004-5	Gold	1-2347005-5
6	X	Black	Yes	1-2347004-6	Gold	1-2347005-6

#### **Mated Dimension**

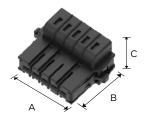


Special auxiliary tools for wire insertion and extraction: 2347681-1

#### **External Dimensions**

Receptacle Assembly

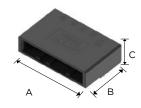
Single-Row Horizontal



Dee	Dos Voy Diatin	Disting	Calar Da	Dauk Numahan	Dimensions			
Pos	Key	Plating	Color	Part Number	А	В	С	
5	V	6-1-1	DII-	1-2347004-5	39.2	20.0	17.0	
6	X Gold B	Black	1-2347004-6	44.3	29.0	13.0		

Board-Mounting Header Assembly

Single-Row Horizontal

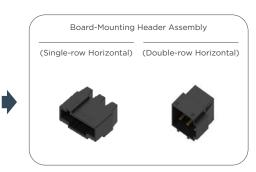


Pos Kev	Plating Color		Part Number	Dimensions			
POS	ros Rey Flating Co	COIOI	Olor Part Nulliber	А	В	С	
5	V		Dist	1-2347005-5	34.3	22.1	10.9
6		Black	1-2347005-6	39.4	22.1	10.9	

### D-3950 Spring Clamp Type - 7.5mm pin pitch

### **Type Chart**





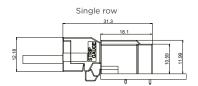
D	0-1	17	Circuit accords	Receptacle	e Assembly	Plating	Board-Mounting	Header Assembly		
Pos	Color	Key	Circuit mark	Single-row Horizontal	Single-row Horizontal Double-row Horizontal		Single-row Horizontal	Double-row Horizontal		
3	Black	×	Yes	3-2229794-1 1-2474564-1		Gold	3-2229803-1			
5	Black		No	3-2289080-1		Gold	3 2223003 1			
	Black	X	Yes	1-2331743-4		Gold	1 2271457 4			
4	4 Black X Black Y	X	No	1-2331743-1	_	Gold	1-2271457-4			
		Υ	No	2-2331743-1		Gold	2-2271457-4			
6	Black	X	No	1-2271454-6 1-2475329-6		Gold	1-2271457-6 1-2474029-6			
6	Black	_	Yes	_	2229800-1 2475472-1	Gold	_	2229806-1		
* 7	Black	Υ	Yes	1-2229794-2		Gold	1-2229803-2			
8	Black	X	Yes	1-2349815-2		Gold	1-2271457-8			
	Black	X	Yes	1-2229794-1	_	Gold	1-2229803-1	_		
11	Black	X	No	1-2289080-1 1-2474552-1		Gold	1-2474537-1			

<sup>\*</sup> The 7P connector is a 11P connector with 4 contacts removed.

### **Mated Dimension**

Special auxiliary tools for wire insertion and extraction: 1981045-1

# Double row



### **External Dimensions**

Receptacle assembly

Single-Row Horizontal



Daa	I/a.	Distinct	Circuit	Color	Part Number	Dir	mensio	ns
Pos	Key	Plating	Illustration	Color	Part Number	А	В	С
3	×	Gold	Yes	Black	3-2229794-1	22.0		
3	^	Gold	No	Black	3-2289080-1	22.0		
	X	Gold	Yes	Black	1-2331743-4			
4		Gold	No	Black	1-2331743-1	27.7	25.4	15.6
	Υ	Gold	No	Black	2-2331743-1			
6	X	Gold	No	Black	1-2271454-6	44.5	25.4	15.6
* 7	Υ	Gold	Yes	Black	1-2229794-2	82.0		
8	X	Gold	Yes	Black	1-2349815-2	57.7		
11	_	Gold	Yes	Black	1-2229794-1	82.0		
	11 X		No	Black	1-2289080-1	62.0		

<sup>\*</sup> The 7P connector is a 11P connector with 4 contacts removed.

Double-row Horizontal



Pos	Kov	Plating	Color	Part Number	D	imensior	าร
POS	ney	Plating	COIOI	Part Number	Α	В	С
6	_	Gold	Black	2229800-1	25.2	25.6	20.4

NOTE: All products are RoHS compliant On selection.

### **Board-Mounting** Header Assembly

Single-Row Horizontal



Pos	Key Plating Color Part I		Part Number	D	Dimensions			
POS	Key	Plating	Color	Part Number	Α	В	С	
3	X	Gold	Black	3-2229803-1	22.0			
4	X	Gold	Black	1-2271457-4	29.5			
4	Υ	Gold	Black	2-2271457-4	29.5			
6	X	Gold	Black	1-2271457-6	44.5	18.1	12.0	
* 7	Υ	Gold	Black	1-2229803-2	82.0			
8	X	Gold	Black	1-2271457-8	59.5			
11	X	Gold	Black	1-2229803-1	82.0			

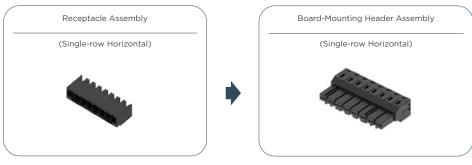
 $<sup>^{</sup>st}$  The 7P connector is a 11P connector with 4 contacts removed.



Daa	I/au	Key Plating Color Part Number		Dimensions				
Pos	Key	Plating	Color	Part Number	Α	В	С	
3	X	Gold	Black	2229806-1 2470382-1	22.0	18.1	12.0	

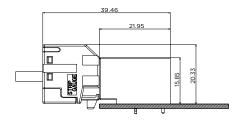
### D-4950 Spring Clamp Type - 7.5mm pin pitch

### **Type Chart**



Dee	Calan	I/au	Circuit mark	Receptacle Assembly	Plating	Board-Mounting Header Assembly
Pos	Pos Color Key (	Circuit mark	Single-row Horizontal	Plating	Single-row Horizontal	
8	Black	Χ	Yes	1-2349849-8	Gold	1-2349825-8

#### **Mated Dimension**

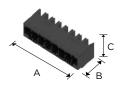


Special auxiliary tools for wire insertion and extraction: 2349891-1

### **External Dimensions**

Receptacle assembly

Single-Row Horizontal



Dan	I/au	Diakina	0.1	Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	Α	В	С	
8	X	Gold	Black	1-2349849-8	61.5	31.7	22.1	

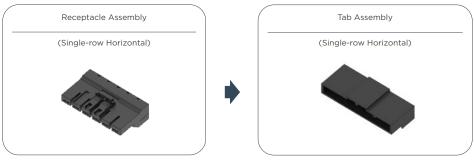
• Board-Mounting Header Assembly Single-Row Horizontal



Dee	I/au	Disting	6-1	Doub Niverslage	Dimensions			
Pos	Key	Plating	Color	Part Number	А	В	С	
8	X	Gold	Black	1-2349825-8	61.5	22.0	15.9	

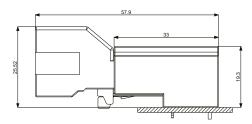
### D-5900 Field Wiring Type - 13.1 mm pin pitch

### **Type Chart**



Das	Calas	Kev	Circuit Mark	Receptacle Assembly	Disting	Tab Assembly
Pos	Color	Key	Circuit Mark	Single-row horizontal type	Plating	Single-row horizontal type
4		X		4-2260663-1	Gold	4-2260661-1
4	Black	Υ	Yes	4-2260663-2	Gold	4-2260661-1
6		Χ		6-2260663-1	Gold	6-2260661-1

### **Mated Dimension**

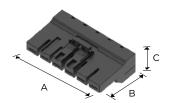


Special auxiliary tools for wire insertion and extraction: 2260828-1

### **External Dimensions**

Receptacle assembly

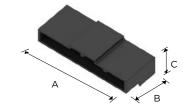
Single-Row Horizontal



Dan	I/au	Distinct Colon Book Number		Plating Color Part Number		D	imensior	ıs
Pos	Key	Plating	Color	Part Number	А	В	С	
4	X	Gold	Black	4-2260663-1	F0.0			
4	Υ	Gold	Black	4-2260663-2	52.9	45.9	25.9	
6	X	Gold	Black	6-2260663-1	79.1			

• Tab Assembly

Single-Row Horizontal



Dee	I/au	Diation	g Color Part Number		D	imension	ıs
Pos	Key	Plating	Color	Part Number	Α	В	С
4	Χ	Gold	Black	4-2260661-1	57.6		
4	Υ	Gold	Black	4-2260661-1	57.6	33	19.3
6	Χ	Gold	Black	6-2260661-1	83.8		

### **On-site Push-in Type**

The On-site push-in type series is applicable to the power input and output of servo control systems.

The compact size saves space on the board and facilitates the high-density design of the board. The vertically plugging design and the newly added cable unplugging button make the "tool-free" on-site mounting possible.

The high temperature housing material applicable to reflow soldering and the economical version enrich the choice of connectors for the servo application.

The On-site push-in type series inherits the Dynamic's high reliability, audible & tactile locking system and key design to provide a more efficient solution for the installation process.

### **Product Features**

#### 1. Release button design

On-site Push-in type has a release button design, which could support wire inserting and removing of the connector, therefore achieving toolless assembly.

#### 2.Spring clamp contact

The contact is assembled in housing already with a spring clamp design which provide easy on-site installation, therefore increase the efficiency of assembly.

### 3.High temperature housing material

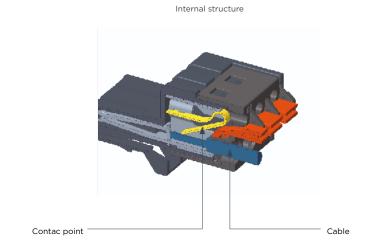
Housing is made of high temperature material, therefore withstand reflow soldering process.

### 4. Three different Header options

Three different Headers-including horizontal header, vertical header and reversed header-which fit to varies of application needs.



 Adopt the standard wiring method as Dynamic series, and Spring clamp type contacts on receptacle side which comply with UL1059.



- Applicable to ports of power supply series where a UL508 servo amplifier and inverter, etc. must be used.
- The implementation can be carried out on-site without any crimping tools. Compared to the spiral wiring method, working time is saved significantly.

### 5. Two plating types

Both gold plating and tin plating contacts balance the high reliability and economical requests.

#### 6.Center locking

This is the first application of a center lock in Dyamic series. On-board space requirements can be mounted in a tight space for high-density mounting on boards requiring signal lines.

### 7. Audible Latching

Obvious lock sound and feeling when mating means work can be done without mistakes, such as mismating (halfmating), even if the connection cannot be seen.

### **Spring Clamp Series Performance and Specifications**

### **Performance**

Item	Series	D-2970
Contact pitch [mm]		5.0
Rated current max. UL [A]		10 (AWG14 x 1)
Rated voltage UL1059 B [V]		20 (AWG14 x 1)
Rated voltage UL1059 C [V]		300 AC/DC
Rated voltage UL1059 D [V]		400 AC/DC
Dielectric withstanding Voltage		2,200V AC
Wire size [AWG]		18-14
Wire size [c]		0.75-2.0

### **Product Specifications**

ltem Series	D-2970
Product manual	108-140223
Operation manual	408-78171

### Positions / Wire size / Rated current

### D-2970 Series

			(	Current(A	4)		
Pos	AWG 26	AWG 24	AWG 22	AWG 20	AWG 18	AWG 16	AWG 14
3	4.5	5.5	7	8	9.5	11.5	15
4	4	4.5	6	7.5	9	11.5	14
Reference UL1059Limit	1	2	3	5	7	10	15

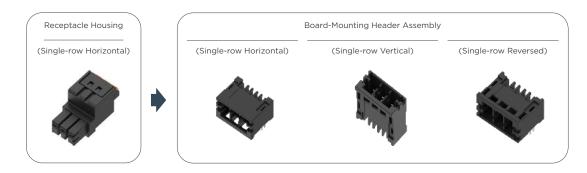
When spec is over UL1059 limit, UL1059 requirement equipment shall use Limit current.

### **Materials and Plating**

Description	Material	Finisher							
Receptacle contact (Only at the contactpoint)	Copper alloy	1.0 μm Tin plating over 1.27 μm Nickel under-plated							
Board-mounting h eader contact	Copper alloy	Mating area: 2.5 μm Tin plating over 1.27 μm Nickel under-plated Tail area: 2 μm Tin platingover 1.27 μm Nickel under-plated							
Receptacle Housing Board-mounting header Housing	Liqui	id Crystal Plastic (LCP), UL94V-0							

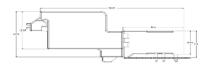
### D-2970 On-site Push-in Type - 5.0mm pin pitch

### **Type Chart**

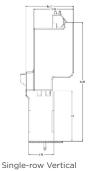


Pos	Color	I/au		Receptacle Assembly	E	Board Mounting Header Assembly	/
	Color	Key		Single-Row Horizontal	Single-Row Horizontal	Single-row Vertical	Single-row Reversed
3	Black	X	Tin	2336488-3	2336490-3	2336494-3	2336491-3
3	Black	X	Gold	2-2336488-3	2-2336490-3	2-2336494-3	2-2336491-3
4	Black	Χ	Tin	2336488-4	2336490-4	2336494-4	2336491-4
4	Black	X	Gold	2-2336488-4	2-2336490-4	2-2336494-4	2-2336491-4

#### **Mated Dimension**



Single-Row Horizontal





Single-row Reversed

### **External Dimensions**

Receptacle Assembly

Single-Row Horizontal



Pos	Kev	Plating	Color	Part Number	D	imensior	ns
FUS	Rey	Flating	COIOI	rait Nullibel	Α	В	С
3	X	Tin	Black	2336488-3	17		18.7
3	Χ	Gold	Black	2-2336488-3	17	34	
4	X	Tin	Black	2336488-4	22		
4	X	Gold	Black	2-2336488-4	22		

Single-Row Vertical



Dee	I/au	Plating	Calas	Part Number	D	imensior	ns
Pos	Key	Plating	Color	Part Number	А	В	С
3	Χ	Tin	Black	2336494-3	10.0		
3	Χ	Gold	Black	2-2336494-3	19.9	9.8	14.8
4	X	Tin	Black	2336494-4	0.4.0		
4	X	Gold	Black	2-2336494-4	24.9		

NOTE: All products are RoHS compliant On selection.

### • Board-Mounting Header Assembly

Single-Row Horizontal



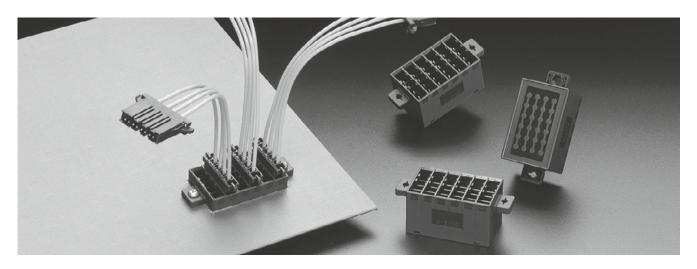
Pos	Kev	Plating	Color	Part Number	D	imensior	าร
FUS	Rey	Flating	COIOI	Fait Number	Α	В	С
3	Χ	Tin	Black	2336488-3	17		18.7
3	Χ	Gold	Black	2-2336488-3	17	34	
4	Χ	Tin	Black	2336488-4	20		
4	X	Gold	Black	2-2336488-4	22		

Single-Row Reversed



Dee	I/au	Distinct	Color	Part Number	D	imensior	าร
Pos	Key	Plating	Color	Part Number	Α	В	С
3	X	Tin	Black	2336491-3	10.0	14.8	9.8
3	Х	Gold	Black	2-2336491-3	19.9		
4	Х	Tin	Black	2336491-4	24.9		
4	X	Gold	Black	2-2336491-4			

### **Tap Connector: Dyna-Tap Connectors**



### Tap Connector: Dyna-Tap Connectors

The common FA equipment is a device formed by combining functionally separated units in a final process. Tap on the circuit board was the original method used for supplying power to each unit.

Therefore, TE developed a tap connector with tap function— Dyna-Tap, which will not further burden the circuit board of which the space should be further saved in the future.

Dyna-Tap Connectors is a Dynamic series tap connector developed as an FA power connector, so it is the most suitable product for tap of the main power cable. (An application has been made for the design of its appearance)

Its specification is 6P to support the tap of the 3-phase power cable system widely used in the industry.

The relay type and panel type of the product has been developed. The matching model is 1-178288-6.

### D-3100 Dyna-Tap18P(6Px3ROW)

#### Highlight

Since in most applications it is fixed outside the circuit board (chassis), a dust cover is installed to prevent dust from entering the inside of the housing. Therefore, it can be used in harsh environments.

### **Application**

- Power tap in the elevator control room
- Power tap of power protection relays, etc.
- Power tap in the semiconductor production equipment unit room
- Power supply for production line equipment

### Performance

- Rated voltage: 250V AC/DC
  Rated current: : 8A (when the 18P and AWG#14 are used)
- No of Pos.: 6Px3 = 18P (6P tap)
- Durability 500 cycles
- Product standard: 108-5754

### D-3200 Dyna-Tap24P(4Px6ROW)

#### **Highlight 1**

The Dynamic series connectors and contacts can be used. It is a power supply board that uses the Dynamic series (D-3200S 4P REC) with excellent connection reliability and gain high reputation. Compared to terminal blocks, its installation and maintenance costs are reduced significantly. Meanwhile, compatible terminals enable less costs of use and inventory.

#### Highlight 2

Positions of Power board installation can be set freely. Considering that the relay type

and panel type connectors are used jointly, panel type with fixtures near to opener or buttom are both available.

#### Highlight 3

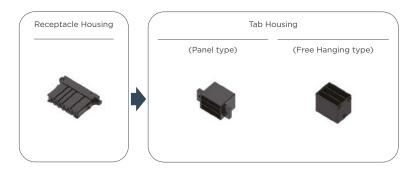
Cost advantage by reducing number of components used and saving working hours on installation.

#### Other highlights

- The Tin plated and Gold-plated type (0.38 μm) are provided.
- The back is engraved with an electrical connection diagram.

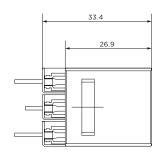
## D-3100 Dyna-Tap 18P (6Px3ROW), 24P (6Px4ROW) - 3.81mm pin pitch

### **Type Chart**



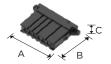
Dee	Calau	Kev	Key Receptacle housing	Tab ho	Through-	Disting	Board-Mounti	ng Header	
Pos	Color	Key	Receptacle housing	Panel type	Free Hanging type	-hole	Plating	Horizontal type	Vertical type
6	Black	Х	1-178288-6	_	_				
18	Black	Х		1376807-2	1376807-1	_			
0.4	Black X	_			1971003-1	_	_	_	
24	Black	X		_	_	1971003-2			

### **Mated Dimension**



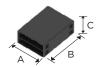
#### **External Dimensions**

• Receptacle Assembly



Dan	Kev	Calar	Part Number		imension	S
Pos	Key	Color Part Number	А	В	С	
6	X	Black	1-178288-6	38.2	22.8	7.2

Through-hole

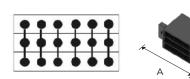


The circuit schematic is provided in the side of the product schematic above

Dan	I/au	Color	olor Part Number	Dimensions			
Pos	Pos Key		Part Number	А	В	С	
2.4		District	1971003-1	33.1	45.7	17.1	
24 X	Black	1971003-2	35.1	45.7	35.1		

Tab housing

Panel type



Dee	I/au	Diahina	Calas	Part Number	D	imensior	ıs
Pos	Key	Plating	Color	Part Number	А	В	С
18	X	Gold	Black	1376807-2	51.0	26.9	24.6

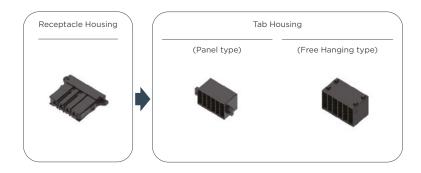
Free Hanging type



Dee	I/au	Diation	Calau	Part Number	D	imensior	ns
Pos	Key	Plating	Color	Part Number	А	В	С
18	X	Gold	Black	1376807-1	33.1	24.6	26.9

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

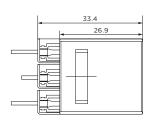
### **Type Chart**



Pos	Color	Kov	Receptacle housing	Tab ho	pusing	Plating	Board-Mounting Header		
Pos C	Color	Key	Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type	
4	Black	Χ	1-178128-4	_	_	_			
	Black	X		1827691-2*1	1827691-1	Gold			
24	Black	Χ		1-1827691-2*1	1-1827691-1	Tin	_	_	
	Black	Χ	_	1827691-3*2		Gold			
	Black	X		1-1827691-3*2	_	Tin			

 $<sup>^*</sup>$ 1 Front panel type  $^*$ 2 Bottom panel type

### **Mated Dimension**



Panel type/Free Hanging type

### **External Dimensions**

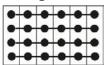
• Receptacle Housing

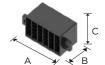


Dee	I/au	Color	Part Number	Dimensions				
Pos	Key	Color	Part Number	r A B	С			
4	X	Black	1-178128-4	24.6	22.8	7.2		

### Board-Mounting Header

Panel type





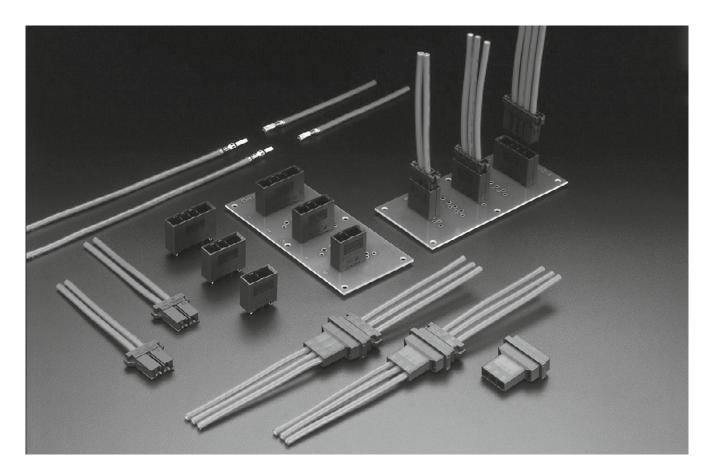
Pos	Kev	Key Plating	Color	Part Number	Dimensions			
PUS	Key	Plating Color Part Number		Α	В	С		
	Χ	Gold	Black	1827691-2				
24	Χ	Tin	Black	1-1827691-2	65.0 26.9		29.2	
24	Χ	Gold	Black	1827691-3	65.0	26.9	29.2	
	Χ	Tin	Black	1-1827691-3				



#### Free Hanging type

D	os Key Plating Color Part Num	Doub Novele on	Dimensions				
Pos	Pos Key Plat		Color	Part Number	А	В	С
24	24		Black	1827691-1	47.5	26.9	29.2
24		X Tin Black 1-1827691-1		1-1827691-1	47.5	26.9	29.2

### D-4000 Series



### Series introduction

It is a connector most appropriate for industrial equipment equipped with 20A power cords. The optimum size meets the compactness and high current requirements of the equipment.

The terminal is newly designed to have 4 contact points.

Compared with the Dynamic3000 series, it can ensure a current of above 50% while only increase 14% in mated height, so that miniaturization is achieved. Compared to existing products, each positions has a current capacity increased by about 32%.

### **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 20A maximum) as well as reliability.

### 2. The sequential contacts

The sequential contact is a longer tab contact. When used in connection with the regular contacts it provides a ground that mates before the other power contacts.

#### 3. High current contact

New V shape contact were developed for mounting on boards with larger contact area while smaller though-holes. Even though a lot of on-board connection space is needed, through-holes were made as small as possible to make pattern design easily.

### 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. Key

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 Performance and Specifications**

#### **Performance**

Pitch	250mils 6.35mm
Rated Voltage	600V AC(rms)/DC
Rated Current	2P: 24A3P: 23A4P: 22A(AWG#12 for use as powersource)
Contact Resistance	10mΩ max
Withstanding Voltage	2,500V AC(1 min)
Operating Temperature	-55°C ~+105°C

### Positions / Wire size / Rated current

Unit: A(Amps)

Danitian		Wire Size(AWG)	
Position	12	14	16
2	24	21	16
3	23	20	15
4	22	19	14

### **Product Specifications**

	Product Specifications	108-78182
,	Applications Specifications	114-5369
Hand	Part number: 1762130-1 (M)	411-78174
d tool application specification	Part number: 1762129-1 (L)	411-78173
L	Inplugging tool (1762461-1) operating manual	411-78186

When applicable, please be sure to order the operating manual. It can also be found in the online electronic specifications catalog.

### **Materials and Plating**

Category	Materials	Plating			
Receptacle Contact	Phosphor bronze or copper alloy	0.38µm gold-plating over Nickel under- plated			
Board Mount Header	Phosphor bronze or copper alloy	Gold plating over Nickel under-plated Tin plating on tail side			
Housing UL94V-0, reinforced thermoplastic PBT with g					

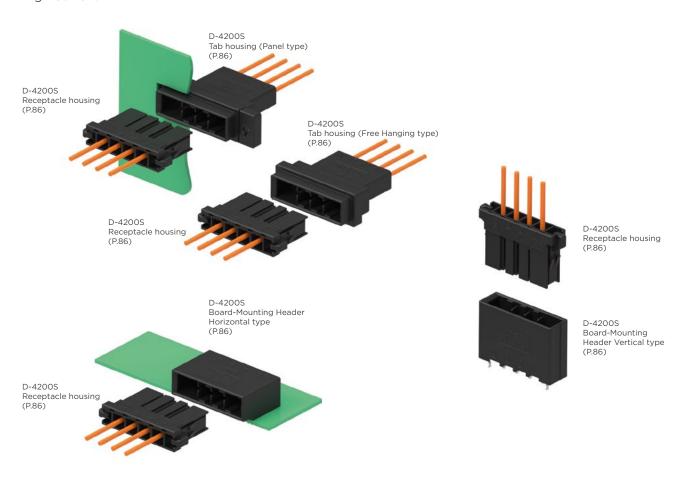
### **Safety Standards**

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

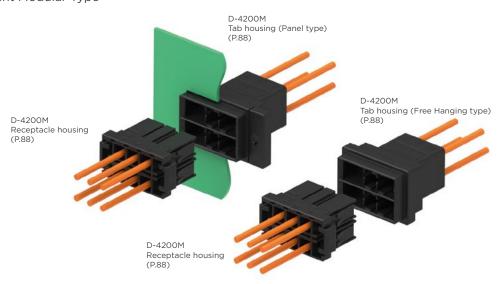
Series		D-4200		
Standard	Rated Voltage	Rated Current	Temperature Range	
Product Specifications 108-78182	600V AC/DC	24A AWG#12 2P	-55°C ~+105°C	
UL File No.E28476	Based on the requirements of Application	Based on the requirements of Application	_	
TÜV License No. R 50084673	600V AC/DC	AWG A(2 P)  12 24  14 21  16 16	-55°C ~+105°C	

### **D-4000 Series Configurations**

**D-4200S** High Current



**D-4200M** High Current Modular Type



### **D-4000 Series Contact**

### **Crimped Types**

(Gold plating thickness  $0.38 \mu m$ )







Tab contact (Used in Tab housing)

Wire	Range	Outside Diameter of	Wire Ran-			Con	tacts			Applicable t	ools	
AWG	mm²	Insulation mm	ge Mark	Receptad	cle Contact	Tab C	Tab Contact		l LongTab acts	Hand tool CCII hand tool PEW12	Mini- Applica-	
				Strip form	Loose Piece	Strip form	Loose Piece	Strip form	Loose Piece	hand tool* PEW12 dice only	tor	
22	0.30	1.58~2.38	SS*	2287721-2	2288020-1	2287732-2	2288019-1	1-2287732-2	1-2288019-1			
20	0.50	1.76~2.56								_	_	
20	0.50	1.8~2.7	S	2040015-2	2040587-1	2040016-2	2040586-1	1-2040016-1	1-2040586-1	2266289-1	2047670-	
18	0.85		2.4-3.2									
16	1.42	2.4~3.2										
16	1.25	2.0~3.2	М	1747418-2	1747499-2	1747419-2	1747501-2	1-1747419-2	1-1747501-2	1762130-1	1762120-2	
14	2.20	2.8~3.75								1762671-1* (1762675-1)		
14	2.20	2.9~3.8	L	1747415-2	1747498-2	1747416-2	1747500-2	1-1747416-2	1-1747500-2	1762129-1	1762119-2	
12	3.50	3.8~4.2								1762670-1* (1762674-1)		

Note: \*Corresponding terminal's gold plating thickness is 0.76  $\mu m,$  and that of the corresponding terminal without wire diameter and type is 0.38  $\mu m.$ 

Please contact our sales department or distributor for more information.

Strip Form contacts are used with Mini-applicators (bench machine) and Loose-Piece contacts are with hand tools.

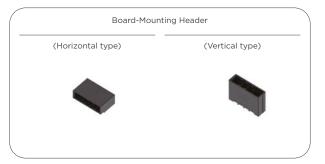
PEW 12 is an exchange-type hand tool. \*refers to the exchange-type hand tool with product number – 9-1478240-0  $\,$ 

The receptacle contact can be used in all receptacle housings, the tab contact can be used in all tab housings. Details of the applicable tool are available from P.106-110.

### D-4200S Single-row High Voltage - 6.35mm pin pitch

### **Type Chart**





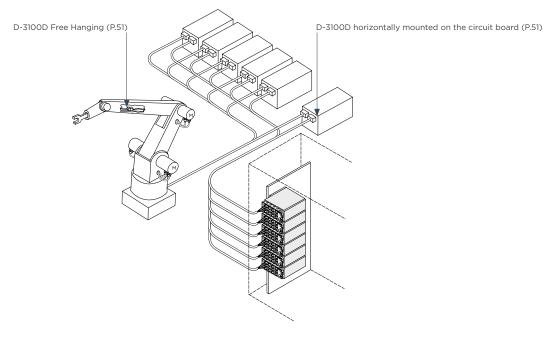
				Tab housing			Board-Mounting Header			
Pos	Color	Key	Receptacle housing		1	Pla- ting	Horizontal type		Vertical type	
				Panel type	Free Hangingtype	9	Standard	Sequential	Standard	Sequential
2	Black	X	1-1747276-2	1-1747535-2	5-2 1-1747414-2	Gold	1-1903328-2	_	1-1747277-2	_
2	Black	Υ	2-1747276-2	2-1747535-2	2-1747414-2	Gold	2-1903328-2	_	2-1747277-2	_
7	Black	X	1-1747276-3	1-1747535-3	1-1747414-3	Gold	1-1903328-3	5-1903328-3	1-1747277-3	5-1747277-3
5	Black	Υ	2-1747276-3	2-1747535-3	2-1747414-3	Gold	2-1903328-3	6-1903328-3	2-1747277-3	6-1747277-3
4	Black	X	1-1747276-4	1-1747535-4	1-1747414-4	Gold	1-1903328-4	5-1903328-4	1-1747277-4	5-1747277-4
4	Black	Υ	2-1747276-4	2-1747535-4	2-1747414-4	Gold	2-1903328-4	6-1903328-4	2-1747277-4	6-1747277-4

### **Relative Product Information**

Applicable contact...P.85 Performance & Specifications...P.83

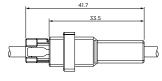
### **Applications**

• Example of Robot/Robot Controller Application

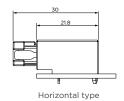


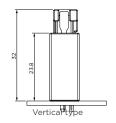
### D-4200S Single-row High Voltage - 6.35mm pin pitch

### **Mated Dimension**



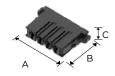
Panel type/Free Hanging type





#### **External Dimensions**

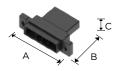
Receptacle Housing



Pos	Vov	Color	Part Number	D	Dimensions			
POS	Key	Color Part Number		А	В	С		
2	X	Black	1-1747276-2	27.4	23.0			
2	Υ	Black	2-1747276-2	27.4		8.5		
7	X	Black	1-1747276-3	77.7				
3	Υ	Black	2-1747276-3	33.7				
4	X	Black	1-1747276-4	40.1				
4	Υ	Black	2-1747276-4	40.1				

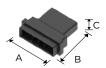
### Tab Housing

Panel type



Dee	I/au	Key Color	Part Number	С	Dimensions		
Pos	Key	Color	Part Number	А	В	С	
2	Χ	Black	1-1747535-2	40.0	33.5		
2	Υ	Black	2-1747535-2	40.0		13.8	
7	Χ	Black	1-1747535-3	46.0			
3	Υ	Black	2-1747535-3	46.0			
4	Χ	Black	1-1747535-4	53.0			
4	Y Black 2-1747535-4	2-1747535-4	55.0				

Free Hanging type



Dee	I/au	Calau	Doub Number	Dimensions			
Pos	Key	ey Color Part Number		А	В	С	
2	Χ	Black	1-1747535-2	40.0	33.5		
2	Υ	Black	2-1747535-2	40.0		13.8	
3	Χ	Black	1-1747535-3	46.0			
5	Υ	Black	2-1747535-3	46.0			
4	Х	Black	*1-1747535-4	53.0			
4	Υ	Black	*2-1747535-4	55.0			

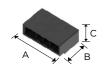
<sup>\*</sup>DIN rail attachment is available. P/N : 2822901-1 Applicable P/N :  $\Delta$ -1747414-4





### Board-Mounting Header

Horizontal type



Pos	I/au	Disting	Calau	Part Number	Dimensions		
POS	Key	Plating	Color	Part Number	А	В	С
2	X	Gold	Black	1-1903328-2	22.4		11.9
	Υ	Gold	Black	2-1903328-2	22.4	21.8	
	Х	Gold	Black	1-1903328-3			
3	Υ	Gold	Black	2-1903328-3	28.7		
3	X	Gold	Black	5-1903328-3*1			
	Υ	Gold	Black	6-1903328-3*1			
	X	Gold	Black	1-1903328-4			
4	Υ	Gold	Black	2-1903328-4	35.1		
4	Х	Gold	Black	5-1903328-4*1	33.1		
	Υ	Gold	Black	6-1903328-4*1			

<sup>\* 1</sup> Sequential

Vertical type

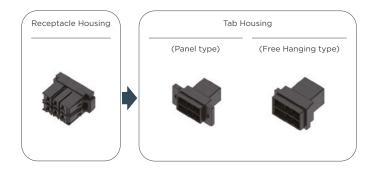


Dan	Key	Diations	Color Part Number		D	Dimensions		
Pos	POS Key	Plating	Color	Part Number	Α	В	С	
2	X	Gold	Black	1-1747277-2	22.4			
	Υ	Gold	Black	2-1747277-2	22.4			
	X	X Gold Black 1-1747277-3						
3	Υ	Gold	Black	2-1747277-3	28.7	10.4	23.8	
3	X	Gold	Black	5-1747277-3*1				
	Υ	Gold	Black	6-1747277-3*1				
	X	Gold	Black	1-1747277-4				
4	Υ	Gold	Black	2-1747277-4	35.1			
-	X	Gold	Black	5-1747277-4*1	33.1			
	Υ	Gold	Black	6-1747277-4*1				

<sup>\* 1</sup> Sequential

### D-4200M Double-row High Current Modular Type - 6.35mm pin pitch

### **Type Chart**

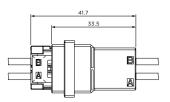


Dos	Color	Kov	Decentagle housing	Tab ho	ousing	Plating	Board-Mour	d-Mounting Header		
Pos	Color	Key	Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type		
	Black	XX	1-1903329-3	1-1903331-3	1-1903330-3					
6	Black	YY	2-1903329-3	2-1903331-3	2-1903330-3					
	Black	XY	3-1903329-3	3-1903331-3	3-1903330-3	_		_		
8	Black	XX	1-2390394-4	1-2390395-4	_					

### **Relative Product Information**

Applicable contact...P.85 Performance & Specifications...P.83

### **Mated Dimension**



Panel type/Free Hanging type

### **External Dimensions**

• Receptacle Housing



Pos	s Key Color Part Number			imension	S	
POS	Key	Color	Part Number	А	В	С
	XX	Black	1-1903329-3			
6	YY	Black	2-1903329-3	33.7	23.0	17.7
	XY	Black	3-1903329-3			17.3
8	XX	Black	1-2390394-4	40.1	23.0	

### Tab housing

Panel type



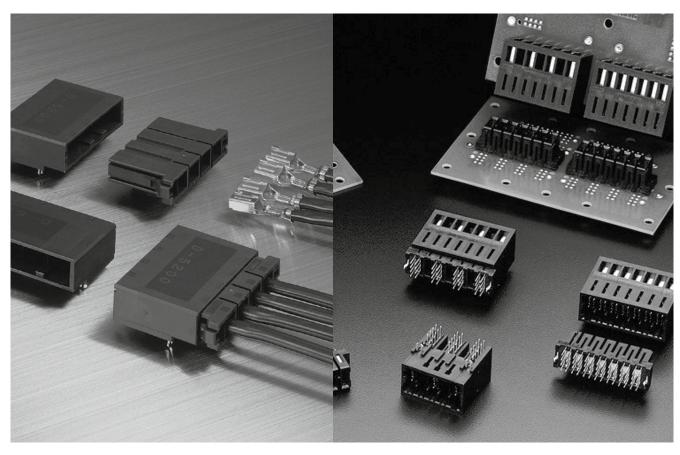
Das	I/au	Color	Part Number	Din	imensions		
Pos	Key	Color	Part Number	А	В	С	
	XX	Black	1-1903331-3		33.5	22.6	
6	YY	Black	2-1903331-3	46.0			
	XY	Black	3-1903331-3				
8	XX	Black	1-2390395-4	52.4			

Free Hanging type



Dee	Kev Color		Part Number	Dimensions		
Pos Key		Color	Part Number	A B C		С
	XX	Black	1-1903330-3	32.7	33.5	
6	YY		2-1903330-3			22.6
	XY		3-1903330-3			

### D-5000 Series



### Series introduction

The Dynamic 5000 series was developed for up to 45 amperes in response to the demand for improved reliability and productivity for the main power lines in equipment.

They can be used for a variety of applications as replacements for terminal blocks, or round terminals. It is compact but with a high current capacity.

In addition, it has a wide variety of housings to cover all applications from PCB connections to internal wiring distribution.

The D-5000 series can be used for high current power line applications where reliability really matters.

### **Product Features**

#### 1. High Current Contact

The D-5000 series uses the same 'twis- resistant, box shape contact' as the rest of the Dynamic series contacts. The material is the same copper alloy developed for the D-3000 series with its superior elasticity and conducivity, which results in a reliable, robust contact capable of high current. Silver plated versions of the D-5000 $\alpha$  series, which support higher currents, are also available. The terminals can be selected according to use.

### 2. Sequential Connection

The Sequential Mating means that the build up of static charge in the sequential contact is grounded first at mating. The long tab was developed for sequential connection of tab contacts. By using both this long tab contact and standard tab contacts, sequential connectibility is enhanced.

#### 3. Contact for High Amperage

The contact for on-board mounting are a newly developed twin-lead type. It is possible to reliably join patterns and connectors because a wide area of PCBs can be allocated. New V shape contacts 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 easily (patent pending).

### 4. IP20 (Protection from the approach of the finger)

D-5300 is recomended for applications with a supply side in the IP20 apparatus. By using a housing on the apparatus side (panel side) which can accommodate the receptacle contact, the apparatus side connector meets IP20 requirement..

### **D-5000 Series Performance and Specifications**

#### **Performance**

Item	D-5200	D-5300	D-5200α	
Pitch	10.16mm			
Rated Voltage	630V AC / DC			
Withstanding Voltage	3000 VAC			
Total resistance	2mΩ max			
Insertion strength:	9.8	BN max (per posi	tion)	
Withdrawal strength	1.96N min (per position)			
Durability	50 cycles (0.76 μm Gold)			
Locking strength		98N min		

### **Product Specifications**

Product	Specifications	108-5453
Tes	501-5188	
Applicatio	114-5206	
	Part number: 234170-1	411-5712
	Part number: 234171-1	411-5713
Hand tool manual	Part number: 91596-1	408-8547-1
	Part number: 1366044-1	411-5976
Unplugging tool (m	411-5774	

When applicable, please be sure to order the operating manuals. It can also be found in the online electronic specifications catalog.

### **Material and Plating**

Category	Item	D-5200	D-5300	D-5200α
	Materials		Copper alloys	
Receptacle Contacts Tab Contact	Plating	Gold Plating with Nickel under-plated	Gold/Silver Plating with Nickel under- -plated	Gold Plating with Nickel under-plated
	Materials	Copper alloys	_	Copper alloy
Board Mount Header	Plating	Gold Plating with Nickel under-plated	_	Gold Plating with Nickel under-plated
Housing Materials UL94V-0, glass fiber reinforced ther PBT			I thermoplastic	

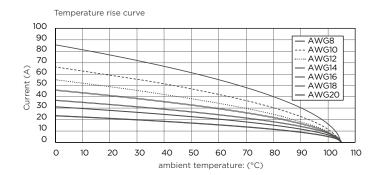
### Positions / Wire size / Rated current

ambient temperature: 25°C, temperature rise: 80°C

Series				Rate	d Currer	it (A)		
(Gold Plating)	Pos	AWG 8	AWG 10	AWG 12	AWG 14	AWG 16	AWG 18	AWG 20
	2	60	48	40	32	25	22	17
	3	58	48	38	30	25	19	15
D-5200	4	53	48	36	28	24	19	15
	6	50	41	35	27	22	17	14
	8	48	39	33	25	21	16	14
D-5300	3	51	43	38	30	24	17	14
D-5300	4	49	43	36	30	24	18	14
D-5200α	3	-	-	-	-	-	-	-
D-5200a	4	51	46	41	34	29	23	21

Series					Rated	d Currer	nt (A)		
(Silver Plating)	Туре	Pos	AWG 8	AWG 10	AWG 12	AWG 14	AWG 16	AWG 18	AWG 20
	wire to board	4	63	56	43	34	29	23	18
D-5200	wire to	2	74	57	48	39	32	26	20
D-3200		3	69	56	46	36	32	22	18
		4	67	55	44	37	27	23	18
		6	57	46	35	31	26	19	16
D F700	wire to	3	59	47	41	30	24	19	15
D-5300	wire	4	56	47	36	30	25	19	15
D-5200a	wire to	3	-	-	-	-	-	-	-
D-5200a	board	4	63	50	41	34	28	22	19

D-5200 2pos, silver plating, wire to wire.



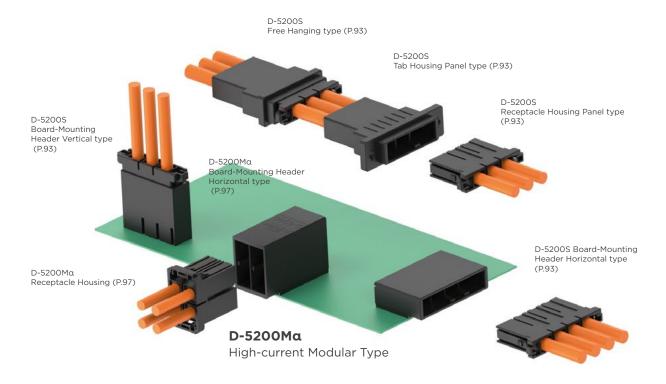
**Safety Standards**The safety specifications listed below are approved on specific part numbers. Please contact our Technical Support Centre to check whether the part numbers you use are approved or not. Keep in mind that there are instances where values differ from those given by Tyco Electronics Specifications

Series	D-	5200Series(10.16mmPito	h)		D-52	00Μα	Series	
STD.	Rated Voltage	Rated Current	Temperature Range	Rated Voltage	Rat	ted Cu	rrent	Temperature Range
Product Specifications 108-5453	630V AC/DC	(As shown above)	-55°C~+105°C	630V AC/DC	(As s	hown	above)	-55°C~+105°C
UL File No.E28476 (Recognized Component)	Based on the require- ments of application	Based on the require- ments of application	-	_			require- olication	-
CSA Report No. LR 7189	600V AC/DC	AWG A 16 13 14 18 12 25 10 30	_	_		_		_
TÜV License No. R9650368 IP protection level IP-10 Overvoltage type (II) 50 cycles of repeated plugging and unplugging	600V AC/DC	AWG A 16 15 14 20 12 25 10 30	-30°C-+105°C	_	AWG  20 18 16 14 12 10 8	1-13P 12.5 17.5 21 26 33 40 48	4-No of Pos. 12.5 16 19.5 24 31 37.5 46	-30°C-+105°C

### **D-5000 Series Configurations**

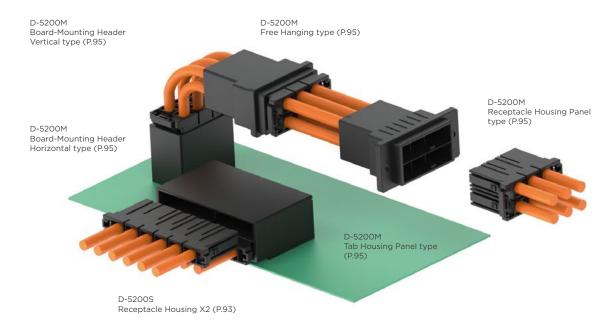
**D-5200S** 

Single-row High Voltage Type



### D-5200M

High-voltage Modular Type



### **D-5000 Series Contact**

### **Crimped Types**



Receptacle Contact (Used in Receptacle housing)



Tab contact (Used in Tab housing)

	icable	Outside	Wire			Cont	acts				Applicab	ole tools	
vvire	Range	Diameter	Range	Receptac	le Contact	Tab C	ontact	Long sequer	tialcontacts	Manual Hand	Electric Hy-		Mini- Applica
AWG	mm <sup>2</sup>	of Insula- tion mm	Mark	Strip form	LoosePiece	Strip form	LoosePiece	Strip form	LoosePiece		draulicTool*1	Mold*2	tion Tool
20	0.50	1.8~2.83	SS	1318985-∆	171000C A				_	91596-1	_		*1
16	1.25	2.35~3.23	33	1318985-1	1318986-∆	_					_	_	
16	1.25	3~3.80	c	179955-Δ	316040-Δ	917802-Δ	917804-Δ	84696-1	2013594-1	234170-1		2155822-1	2266273-2
14	2.20	3~3.60	S 17995	179955-14	316040-Δ	91/802-2	91/804-Δ	64090-1	2013594-1	234170-1		2155622-1	2200273-2
12	3.50	4~5.2	м	170050 4	316041-∆	917803-Δ	917805-Δ	84695-1	2013593-1	27 4171 1	2155369-1	2155507.1	2151000 2
10	5.50	4~5.2	М	179956-∆	310041-Δ	91/803-4	91/805-4	84695-1	2013593-1	234171-1		2155503-1	2151086-2
8	8.00	4.9~7.8		1318696-Δ	1318697-Δ	1981690-∆	1981691-Δ	2174021-1	2174022-1	1366044-1		2155502-1	2266274-2
J	0.00	4.5-7.0	_	1510090-2	1310097-2	1747388-6	1301091-2	217-021-1	21/4022-1	1300044-1		2133302-1	22002/4-2

- Note Plating code -2: Gold plating of 0.38 µm in thickness
- -6: Silver plating of 2.54  $\mu m$  in thickness -3: Gold plating of 0.76  $\mu m$  in thickness
- -1: Gold plating of 0.2 μm in thickness

Please contact our sales department or distributor for more information.

Please contact the sales department for mini applications tools. Strip Form contacts are used with Mini-applicators (bench machine) and Loose-Piece contacts are with hand tools.

If you have any questions, please contact the AT tooling sales department.

<sup>\*2</sup> Used together with the electric hydraulic tool 2155369-1



D-5aSeries silver-plated type

Wire	e Range	Outside Diameter of	Wire		Contacts			Applicable	e tools	
AWG	mm²	Insulation	Range Mark	Receptacl Strip form	e Contact Loose Piece	Tab Contact Loose Piece	Hand Tools	Electric Hydraulic Tool*5	Dice*6	Tool numbers
20	0.50	1.8~2.83	SS	1318985-6	1318986-6	_	91596-1	_	_	1366757-2
16	1.25	2.35~3.23								1528106-2
16	1.25	3~3.80	S	179955-6	316040-6	917804-6	234170-1		2155822-1	1366659-2
14	2.20	3 3.50	J	173333 0	310040 0	317004 0	2541701		2103022 1	1426229-2*1
12	3.50	4~5.2	М	179956-6	316041-6	917805-6	234171-1		2155503-1	1366660-2*2
10	5.50	4 3.2	1.1	17 3 3 3 0 0	310041 0	317003 0	2541/11	2155369-1	2133303 1	2151086-2*3
8	8.00	4.9~7.8	L	1318696-6	1318697-6	1747443-6	1366044-1		2155502-1	1366658-3 1426325-2*4

Note: The model with its name including "-6" has a silver plating of

For details, please contact the purchase agent or sales department.

Please contact the sales department for mini application tools.

Strip Form contacts are used with Mini-applicators (bench machine) and Loose-Piece contacts are with hand tools.

If you have any questions, please contact the AT tooling sales department.

\*6 Used together with the electric hydraulic tool 2155369-1

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

<sup>\*1</sup> See P.123.

<sup>\*1</sup> Applicable contact:179955-∆

<sup>\*2</sup> Applicable contact:179956-Δ 917803-Δ 84695-Δ

 $<sup>^*</sup>$ 3 Applicable contact:179956- $\Delta$  917803- $\Delta$ 

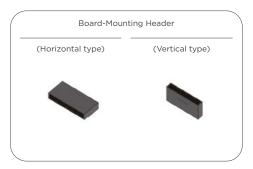
 $<sup>^*</sup>$ 4 Applicable contact:1318696- $\Delta$ 

<sup>\*5</sup> See P.121

### D-5200S Single-Row High Current Type - 10.16mm pin pitch

### **Type Chart**



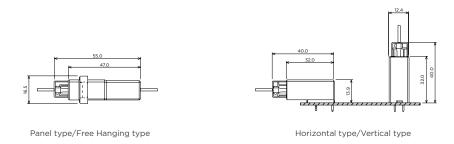


				Tab ho	ousing			Board-Mour	nting Header		
Pos	Color	Key	Receptacle housing		-	Plating	Horizon	tal type	Vertic	al type	
				Panel type	Free Hangingtype		Standard	Sequential	Standard	Sequential	
	Black					Gold	1-353079-2		1-353080-2		
	Black	Х	1-179958-2	1-353047-2	1-353046-2	Gold	1-353079-3		1-353080-3		
2	Black					Gold		_	6-353080-2	_	
	Black	Y	2-179958-2	2-353047-2 2-353046-2		Gold	_		2-353080-2		
	Black		2-1/9958-2	2-353047-2	2-353046-2	Gold			2-353080-3		
	Black					Gold	1-353081-2	8-353081-2	1-353082-2	8-353082-2	
	Black	Х	1-179958-3	1-353047-3	1-353046-3	Gold	1-353081-3		1-353082-3	_	
3	Black					Gold	_		_		
	Black	Y	2-170050-7	2-179958-3	2-353047-3	2-353046-3	Gold	2-353081-2	_	2-353082-2	_
	Black		2-1/9958-5	2-353047-3	2-353046-3	Gold	2-353081-3		2-353082-3		
	Black	×	1-179958-4			Gold	1-917541-2	8-917541-2	1-917542-2	8-917542-2	
4	Black	^	1-1/9950-4			Gold	1-917541-3		1-917542-3	_	
4	Black	Y	2-179958-4			Gold	2-917541-2		2-917542-2		
	Black		2-1/9950-4			Gold	_		2-917542-3		
	Black			4P or 6P Wire-to-wire co	onnectors are available in	Gold	1-179959-2		1-179960-2		
	Black	Χ		D5200M	, see P.93	Gold	1-179959-3	_	1-179960-3		
6	Black					Gold	_		6-179960-2	_	
0	Black					Gold	2-179959-2		2-179960-2		
	Black	Υ					2-179959-3		2-179960-3		
	Black				Gold	-		7-179960-2			

### **Relative Product Information**

Applicable contact...P.92
Performance & Specifications...P.90

### **Mated Dimension**



### D-5200S Single-Row High Current Type - 10.16mm pin pitch

### **External Dimensions**

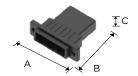
· Receptacle Housing



Pos	I/au	Color	Part Number	Dimensions				
POS	Key	Color	Part Number	А	В	С		
2	X	Black	1-179958-2	35.8				
	Υ	Black	2-179958-2	33.0				
3	X	Black	1-179958-3	46.0				
3	Υ		46.0	29.0	9.8			
4	X	Black	1-179958-4	53.7	29.0	9.0		
4	Υ	Black	2-179958-4	55.7				
6	X	Black	1-179958-6	74.0				
0	Υ	Black	2-179958-6	74.0				

### • Tab Housing

Panel type



Pos	Key	Color	Part Number	Dimensions				
POS	is Rey Color		Part Number	А	В	С		
2	X	Black	1-353047-2	47.0	47.0			
2	Υ	Black	2-353047-2	47.0		16.5		
7	, X		1-353047-3	F7.0	47.0	16.5		
3	3 Y		2-353047-3	57.0				

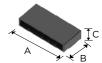
Panel type



Dee	I/au	Calau	Doub Noveleau	Dimensions				
Pos	Key	Color	Part Number	А	В	С		
	X	Black	1-353047-2	47.0				
2	Υ	Black	2-353047-2	47.0	470	16.5		
-	Χ	X Black 1-353047-3		F7.0	47.0	16.5		
3	Υ	Black	2-353047-3	57.0				

### Board-Mounting Header

Horizontal type



Pos	Key	Plating	Color	Part Number	D	imensior	ıs
POS	Key	Plating	Color	Part Number	А	В	С
2	X	Gold	Black	1-353079-2	29.4		
	^	Gold	Black	1-353079-3	29.4		
		Gold	Black	1-353081-2			
	Х	Gold	Black	8-353081-2*			
3		Gold		39.5			
	Υ	Gold	Black	2-353081-2		32.0	
	Y	Gold	Black	2-353081-3			
		Gold	Black	1-917541-2			13.9
4	Х	Gold	Black	8-917541-2*	40.7		
4		Gold	Black	1-917541-3	49.7		
	Υ	Gold	Black	2-917541-2			
		Gold	Black	1-179959-2			
6	Х	Gold	Black	1-179959-3	70.0		
0	Υ	Gold	Black	2-179959-2	70.0		
	Y	Gold	Black	2-179959-3			

<sup>\* 1</sup> Sequential

Vertical type

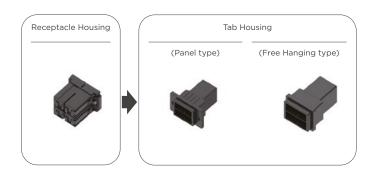


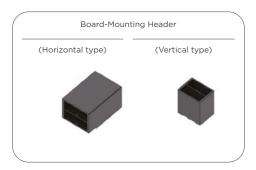
D	17	Distingu	6-1	Doub Novele en	D	imensior	าร	
Pos	Key	Plating	Color	Part Number	A 29.4 39.5	В	С	
		Gold	Black	1-353080-2				
	X	Gold	Black	1-353080-3				
2		Gold	Black	6-353080-2	29.4			
	Y	Gold	Black	2-353080-2				
	'	Gold	Black	2-353080-3				
		Gold	Black	1-353082-2				
	Х	Gold	Black	8-353082-2*				
3		Gold	Black	1-353082-3	39.5			
	Y	Gold	Black	2-353082-2				
	'	Gold	Black	2-353082-3		12.4	12.4	
		Gold	Black	1-917542-2				32.0
	X	Gold	Black	8-917542-2*				
4		Gold	Black	1-917542-3	49.7			
	Y	Gold	Black	2-917542-2				
	'	Gold	Black	2-917542-3				
		Gold	Black	1-179960-2				
	X	Gold	Black	1-179960-3				
6		Gold	Black	6-179960-2	70.0			
		Gold	Black	2-179960-2	, 5.0	,		
	Υ	Gold	Black	2-179960-3				
		Gold	Black	7-179960-2				

<sup>\* 1</sup> Sequential

### D-5200M Double-row High Current Modular Type - 10.16mm pin pitch

### **Type Chart**





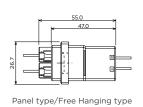
				Tab ho	using		Board-Mounting Header				
Pos	Color	Key	Receptacle housing		-	Plating	Horizon	ital type	Vertica	al type	
				Panel type	Free Hangingtype		Standard	Sequential	Standard	Sequential	
	Black	XX	1-917807-2	1-917809-2	1-917808-2	Gold/Silver	1-1123309-2	8-1123309-2	1-1981458-6		
4	Black	XX	2-917807-2	2-917809-2	2-917808-2	Gold/Silver	2-1123309-2		2-1981458-6		
	Black	XX	3-917807-2	3-917809-2	3-917808-2	Gold/Silver	3-1123309-2		3-1981458-6		
	Black	XX	1-917807-3	1-917809-3	1-917808-3				1-2326092-2		
6	Black	XX	2-917807-3	2-917809-3	2-917808-3	_	_		2-2326092-2	_	
	Black	XX	3-917807-3	3-917809-3	3-917808-3			_	3-2326092-2		
	Black	XX	<b>-</b> *1			Gold	1123829-1				
8	Black XX	_	_	_	_	_		_			

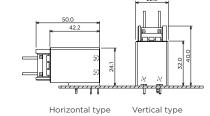
<sup>\* 1:</sup> Use two 1-179958-4

### **Relative Product Information**

Applicable contact...P.92 Performance & Specifications...P.90

#### **Mated Dimension**





# D-5200M Double-row High Current Modular Type – 10.16mm pin pitch

### **External Dimensions**

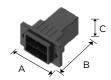
· Receptacle Housing



Pos	I/au	Color	Part Number	Dimensions			
POS	Key	Color	Part Number	А	В	С	
	XX		1-917807-2				
4	YY		2-917807-2	33.4	29.0		
	XY	Black	3-917807-2			20.0	
	XX	Black	1-917807-3			20.0	
6	YY		2-917807-3	43.5			
	XY		3-917807-3				

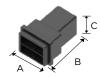
• Tab Housing

Panel type



Dee	I/au	Calan	Part Number	Dimensions			
Pos	Key	Color	Part Number	А	В	С	
	XX		1-917809-2				
4	YY		2-917809-2	47.0	47.0	26.7	
	XY	Black	3-917809-2				
	XX	Black	1-917809-3	57.0			
6	YY		2-917809-3				
	XY		3-917809-3				

Free Hanging type



Pos	Key	Color	Part Number	Dimensions			
POS	Key	COIOI	Part Number	Α	В	С	
	XX		1-917808-2				
4	YY		2-917808-2	33.4			
	XY	Black	3-917808-2		47.0	26.7	
	XX	DIACK	1-917808-3		47.0	20.7	
6	YY		2-917808-3	43.6			
	XY		3-917808-3				

Board-Mounting Header

Horizontal type



Pos	I/au	Distinct.	Calar	Part Number	Dimensions			
POS	Key	Plating	Color		А	В	С	
	XX		1-1123309-2					
4	YY	Gold	Black	2-1123309-2	29.4	42.2	24.1	
	XY	Gold	BIACK	3-1123309-2				
8	XX			1123829-1	49.7	32.0	26.3	

Sequential type



Dee	I/au	Disting	Calan	Doub Niverslage	Dimensions				
Pos	Key	Plating	Color	Part Number	А	В	С		
4	XX	Gold	Black	8-1123309-2	29.4	42.2	24.1		

Vertical type



Pos	I/au	Distinct	0.1	Part Number	Dimensions			
POS	Key	Plating	Color	Part Number	Α	В	С	
	XX			1-1981458-6				
4	YY	Silver	Black	2-1981458-6	29.4	22.6	32.0	
	XY			3-1981458-6				
	XX		Віаск	1-2326092-2	39.5			
6	YY	Gold		2-2326092-2			32	
	XY		3-2326092-2					

# D-5200Mα Double-row High Current/Voltage Modular Type - 10.16mm pin pitch

### **Type Chart**





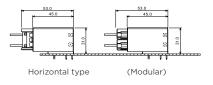
Dan	Pos Color Key		Decemberale housing	Tab ho	ousing	Disting	Board-Mounting Header		
Pos	os Color Rey	Receptacle housing	Panel type	Free Hanging type	Plating	Horizontal type	Vertical type		
2	Black	X	1-179958-2						
	2 Black Y	Υ	2-179958-2			_	_		
	Black	XX	1-917807-2	_	_	Silver	1-1318983-6	_	
4	Black	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-5a (silver plating type)

### **Relative Product Information**

Applicable contact...P.92 Performance & Specifications...P.90

### **Mated Dimension**



### **External Dimensions**

• Receptacle Housing





Pos	I/au	Diation	Calan	Part Number	D	imensions		
POS	Key	Plating	Color	Part Number	Α	В	С	
2	X	_	Black	1-179958-2	0.0		27.0	
2	Υ	_	Black	2-179958-2	9.8		23.8	
	XX	_	Black	1-917807-2		29.0		
4	YY	-	Black	2-917807-2	20.0		33.4	
	XY	_	Black	3-917807-2				

Board-Mounting Header



Pos	I/au	ev Color Part Number			Dimension	S
POS	Key	Color	Part Number	А	В	С
7	X	Black	1-1747819-3	46.5		10.5
3	Υ	Black	2-1747819-3	46.5	47.0	12.5
	XX	Black	1-1747820-2			
4	YY	Black	2-1747820-2	33.8		22.6
	XY	Black	3-1747820-2			

### D-5300 Reversed Mounting Type - 10.16mm pin pitch

### **Type Chart**



				Tab ho	ousing		Board-Mounting Header				
Pos	os Color Key		Receptacle housing			Plating	Horizo	ntal type	Vertical	type	
				Panel type	Free Hangingtype		Standard	Sequential	Standard	Sequen- tial	
	Black	xx	1-917807-2	1-917809-2	1-917808-2	Gold/ Silver	1-1123309-2	8-1123309-2	1-1981458-6		
4	Black	XX	2-917807-2	2-917809-2	2-917808-2	Gold/ Silver	2-1123309-2		2-1981458-6		
	Black	xx	3-917807-2	3-917809-2	3-917808-2	Gold/ Silver	3-1123309-2		3-1981458-6		
	Black	XX	1-917807-3	1-917809-3	1-917808-3				1-2326092-2	_	
6	Black	XX	2-917807-3	2-917809-3	2-917808-3	_	_	_	2-2326092-2		
	Black	XX	3-917807-3	3-917809-3	3-917808-3				3-2326092-2		
	Black	XX	<b>-</b> *1			Gold	1123829-1				
8					_	_	_	_		_	

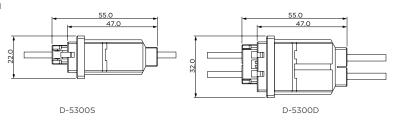
<sup>\* 1:</sup> Use two 1-179958-4

### **Relative Product Information**

Applicable contact...P.92

Performance & Specifications...P.90

### **Mated Dimension**



### **External Dimensions**

· Receptacle Housing

Panel type





Das	I/au	Calau	Dauk Nunah au	Dimensions			
Pos	Key	Color	Part Number	А	В	С	
3	Х	Black	1-1747821-3	57.0		22.0	
3	Υ	Black	2-1747821-3	57.0		22.0	
	XX	Black	1-1747822-2		47.0		
4	YY	Black	2-1747822-2	47.0		32.0	
	XY	Black	3-1747822-2				

NOTE: All products are RoHS compliant On selection.

• Tab Housing

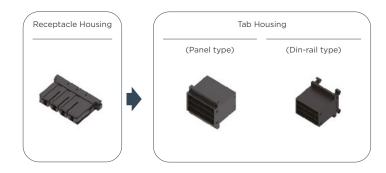




Pos	L/ov/	Color	Part Number	Dimensions			
P05	Key	COIOI	Part Number	А	В	С	
3	Х	Black	1-1747819-3	46.5		12.5	
3	Υ	Black	2-1747819-3	46.5	47.0	12.5	
	XX	Black	1-1747820-2				
4	YY	Black	2-1747820-2	33.8		22.6	
	XY	Black	3-1747820-2				

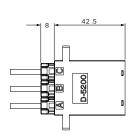
# D-5200 Dyna-Tap 12P(4Px3 Row), 20P(4Px5 Row) - 10.16mm pin pitch

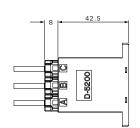
### **Type Chart**

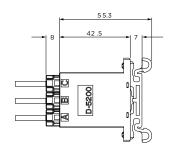


Dee	Pos Color Key	Receptacle housing	Tab ho	ousing	Plating	Board-Mounting Header		
Pos		Receptacle housing	Panel type	Din-rail type	Plating	Horizontal type	Vertical type	
4	Black	_	1-179958-4	_	_	_		
12	Black	_	_	1903146-1*1	1903146-3			_
12	Black	_	_	1903146-2*2	1-1903146-3	Gold	_	
20	Black	_	_	2013285-1*1	_	Gold		
20	Black	_	_	2013285-2*2	2013285-3			

 $<sup>^{</sup>st}$  1:Front panel type  $^{st}$  2:Bottom panel type







### **External Dimensions**

• Receptacle Housing



D	17	C-1	olor Part Number		Dimensions			
Pos	Key	Color	Part Number	А	В	С		
7	Х	Black	1-1747821-3	57.0		22.0		
3	Υ	Black	2-1747821-3	57.0		22.0		
	XX	Black	1-1747822-2		47.0			
4	YY	Black	2-1747822-2	47.0		32.0		
	XY	Black	3-1747822-2					

Tab Housing

Panel type





Pos	Key	Color	Part Number	Dimensions			
POS		Color	Part Number	А	В	С	
3	Х	Black	1-1747819-3	46.5		12.5	
3	Υ	Black	2-1747819-3	46.5			
	XX	Black	1-1747820-2		47.0		
4	YY	Black	2-1747820-2	33.8		22.6	
	XY	Black	3-1747820-2				

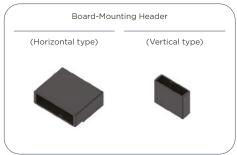
### Panel type

D	17	Plating (	Calau	Doub Number	Dimensions		
Pos	Key		Color	Part Number	Α	В	С
10	_	Gold	Black	1903146-3	49.7	55.3	50.0
12	_	Gold	Black	1-1903146-3			
20	-	Gold	Black	2013285-3	53.0		76.4

### Dyna-Clamp Kit/ Cable Clamp Kit - 10.16mm pin pitch

### **Type Chart**

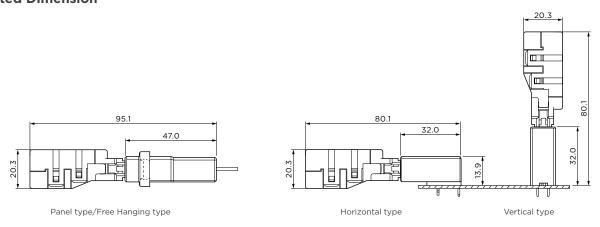




Pos	Kev	Receptacle housing	Tab ho	ousing	Board-Mounting Header		
POS	Key	Receptacle flousing	Panel type	Free Hanging type	Horizontal type	Vertical type	
7	7	1473668-1	1-353047-3	1-353046-3	1-353081-2	1-353082-2	
3	_		1-353047-3		1-353081-3	1-353082-3	
4	XX	1971239-1	1-917809-2	1-917808-2	1-1123309-2	1-1981458-6*	
4	YY	1971239-2	2-917809-2	2-917808-2	2-1123309-2	2-1981458-6*	

<sup>\*</sup> Silver-plated products

### **Mated Dimension**

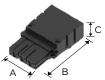


### **External Dimensions**

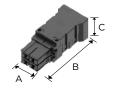
Receptacle Housing

Single-row





Dan	os Kev Color Part Number		Dimensions				
Pos	Key	Color	Part Number	А	В	С	
3	_	Black	1473668-1	40.3	69.3	20.3	

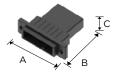


Pos	Key	Color	Part Number	Dimensions			
			Part Number	Α	В	С	
4	XX	Black	1971239-1	36.0	81.2	29.0	
	YY	Black	1971239-2	36.0			

### Dyna-Clamp Kit /Cable Clamp Kit - 10.16mm pin pitch

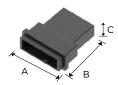
### Tab Housing

Panel type



Dan	Kev Color		Part Number	Dimensions			
Pos	Key Cold	Color	Part Number	А	В	С	
3	X	Black	1-353047-3	57.0		12.1	
4	XX	Black	1-917809-2	47.0	47.0	26.7	
4	YY	Black	2-917809-2	47.0			

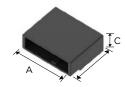
Free Hanging type



Pos	Kov	Color	Part Number	Dimensions			
POS	Key		Part Number	А	В	С	
3	X	Black	1-353046-3	43.6	47.0	12.1	
4	XX Black		1-917808-2	77.4	47.0	26.7	
4	YY	Black	2-917808-2	33.4	47.0	26.7	

### • Board-Mounting Header

Horizontal type



Dan	Key	Plating Color	C - I	Part Number	Dimensions		
Pos			Color	Part Number	А	В	С
7	X	Gold	Black	1-353081-2	39.5	32.0	13.9
3		Gold	Black	1-353081-3			
4	XX YY	Gold	Black	1-1123309-2	00.4	42.2	24.1
4		Gold	Black	2-1123309-2	29.4		

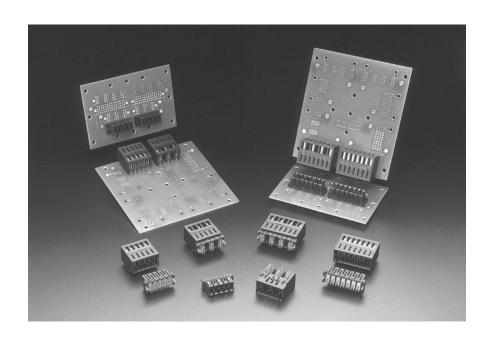
Vertical type



Pos	Kev	Plating	Color	Part Number	Dimensions		
POS KE	Key		Color	Part Number	Α	В	С
3	X	Gold	Black	1-353082-2	39.5	12.4	32.0
3			Black	1-353082-3			
4	XX	0.1	Black	1-1981458-6	00.4	22.6	
4		Silver	Black	2-1981458-6	29.4		

### **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 the contact from twisting
- Stacking and parallel connection types available
- Circuit numbers are easily identified for board connectors
- Keying function included for flexibility when using multiple units
- Soldering without masking
- Passes UL, CSA and TUV standards



### **Performance Specifications**

Pitch	200 mils/400 mils 5.08mm/10.16mm		
Rated Voltage	5.08mm Pitch:250V AC(rms)/DC 10.16mm Pitch:600V AC(rms)/DC		
Rated Current	5.08mm Pitch:20A 10.16mmPitch:30A		
Contact resistance	$2 m \Omega$ max		
Withstanding Voltage	5.08mm Pitch:2,200V AC 1 min 10.16mm Pitch:4,000V AC 1 min		
Temperature	-55-+105°C		
Product Specifications	108-78186		

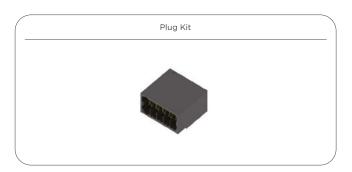
### **Materials and Plating**

Category	Materials	Plating
Receptacle Contact Tab Contact	Phosphor bronze Copper alloys	Gold Plating with Nickel under-plated
Tab	Phosphor bronze Copper alloys	Tin, Gold Plating with Nickel under-plated
Housing		UL9 4V-0, thermoplastic PBT with glass fiber

# DZ-5200 - 5.08mm pitch for 5/7 position pins, 10.16mm pitch for 3/4 position pins

### **Type Chart**

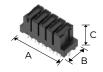




Pos	Color	Key	Socket Kit	Plating	_	Plug Kit
3	Black	_	5-1747147-3	Gold	_	5-1747145-3
4	Black	_	5-1747147-4	Gold	_	5-1747145-4
5	Black	_	1-1747147-5	Gold	_	1-1747145-5
7	Black	_	1-1747147-7	Gold	_	1-1747145-7

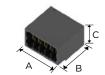
### **External Dimensions**

Socket Kit



Das	I/au	Disting	Key Plating Color	Calas	Part Number	Dimensions			
Pos	Key	Plating	Color	Part Number	Α	В	С		
3	_	Gold	Black	5-1747147-3	30.8		14.0		
4	-	Gold	Black	5-1747147-4	40.9	11.5			
5	_	Gold	Black	1-1747147-5	30.8				
7	_	Gold	Black	1-1747147-7	40.9				

Plug Kit

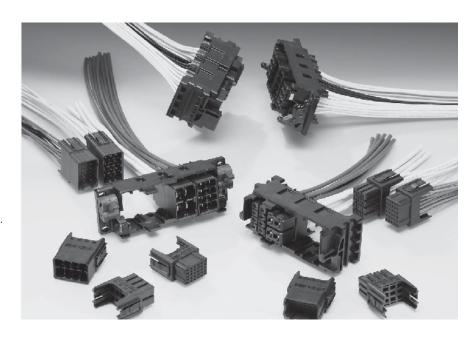


Pos	Kev	Disting	lating Color Part Number	Down November	D	imensior	ns	
POS	Key	Plating		Flating Color Fart Number	Part Number	А	В	С
3	_	Gold	Black	5-1747145-3	28.8	27.0	17.5	
4	_	Gold	Black	5-1747145-4	39.0			
5	_	Gold	Black	1-1747145-5	28.8		27.0	17.5
7	_	Gold	Black	1-1747145-7	39.0			

### **Multi-Frame connector (MF Series)**

The Multi-Frame connector is formed by combining the modular housing of the Dynamic Series connector with a resin frame. The modular structure can accommodate housings for D-2800, 3800, 4800 or 5800.

Additionally, the secure locking mechanism can be easily locked and unlocked by pressing the latches. The simple design saves time in assembly and maintenance.



#### **Main Performance**

Series	D-2800	D-3800	D-4800	D-5800	
Item					
Rated Voltage	AC/DC 250V	AC/DC 600V	AC/DC 600V	AC/DC 630V	
	5A	15A	25A	40A	
Rated Current	When an AWG#18 wire is used	When an AWG#16 wire is used	When an AWG#12 wire is used	When an AWG#8 wire is used	
Contact resistance		10mΩ max		2mΩ max	
Withstanding Voltage	1,500VAC(1 min) 2,500VAC(1 min)		2,500VAC(1 min)	3,000VAC(1 min)	
Operating Temperature		-55~+	105°C		
Product Specifications	108-78284	108-78285	108-78388	108-78389	
Applications Specifications	114-5258	114-5148	114-5369	114-5206	

### **Materials and Plating**

Category	Materials	Plating
Receptacle Contact Tab Contact	Phosphor bronze or copper alloy	Gold Plating with Nickel under-plated
Housing		UL94V-0, reinforced thermoplastic with glass fiber

Contact
The D-2, D-3, D-4 and D-5 contacts of the Dynamic series can be directly used.
(The existing tools can also be used as special tools and application tools)
See P.36 for the D-2 terminal.
See P.46 for the D-3 terminal.
See P.90 for the D-5 terminal.

### **Multi-Frame Connector**

### **Product Features**

- The modular structure can accommodate Dynamic series housings
- Panel mount
- Quick locking
- Easy unlocking by pressing the latches
- A key for preventing mis-plugging
- Easy operation

### **Applications**

- Semiconductor and liquid crystal production equipment
- Large control equipment and machine tools
- Other

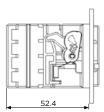
### **Product Specifications**

Product standard number 108-78644

### **Performance Specification**

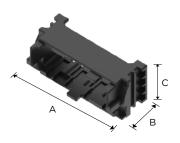
Item	STD.
Frame Lock Strength	Pull force: 15kgf min
Durability	50 cycles max

### **Mated Dimension**



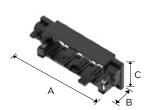
### **External Dimensions**

• Cable Side Frame



Module	Vov	Part Number	Dir	mensions(m	m)
	Key	Part Number	А	В	С
2	W	2390402-1	56.8	45.1	40.4
	Z	2069524-4			
4	Υ	2069524-3		451	40.4
4	X	2069524-2	97.1	45.1	40.4
	W	2069524-1			

Panel Side Frame



Module	I/a	Part Number	Dii	mensions(m	m)	
Module	Key	Part Number	А	В	С	
2	W	2390404-1	79.8	34.3	40.4	
	Z	2069526-4				
	Υ	2069526-3			40.4	
4	Х	2069526-2	120.0	34.3	40.4	
	W	2069526-1				

### **Dynamic HTS Module - 12.0mm pin pitch**

### **Type Chart**

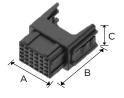


Das	Pos Color I	Calan Kau	December de la becomina	Receptacle housing	Tab housing	Plating	Board-Mounting Header		
POS		Key	Receptacie nousing	cie nousing lab nousing		Horizontal type	Vertical type		
30	Black	_	1747365-1	1747366-1					
12	Black	_	1747363-1	1747364-1			_		
8	Black	_	1871416-1	1871417-1	_	_			
4	Black	_	1871418-1	1871419-1					

### D-2800 Pitch: 3.75mm

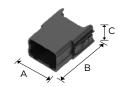
### **External Dimensions**

• Receptacle Housing



Dan	I/au	Color	Doub Number	D	Dimensions		
Pos	Key	Color	Part Number	А	В	С	
30	_	Black	1747365-1	30.3	37.6	19.5	

• Tab Housing



Dee	Pos Kev Color Part Number	Doub Number	С	imension	S	
Pos Ke	Key	Key Color	Part Number	А	В	С
30	_	Black	1747366-1	30.3	40.0	19.5

### **Dynamic Series Connector - 12.0mm pin pitch**

### D-3800 Pitch: 6.5mm

### **External Dimensions**

• Receptacle Housing

• Tab Housing



Pos	I/au	Calau	Doub Number	Dimensions		S
	Key	Color	Part Number	А	В	С
12	_	Black	1747363-1	30.3	41.4	19.5

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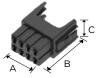
Dan	I/au	Calas	Part Number	Dimensions			
Pos	Key	Color		Α	В	С	
12	_	Black	1747364-1	30.3	40.0	19.5	

### D-4800 Pitch: 6.35mm

#### **External Dimensions**

• Receptacle Housing

Tab Housing



Dee	I/au	Color	Part Number		imension	s
Pos	Key	Color	Part Number	А	В	С
8	_	Black	1871416-1	30.3	38.6	19.5

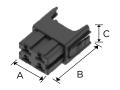


Das	I/au	Key Color Part Number	Dimensions			
Pos	Key		Part Number	А	В	С
8	_	Black	1871417-1	30.3	40.0	19.5

### D-5800 Pitch: 12.0mm

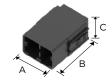
### **External Dimensions**

• Receptacle Housing



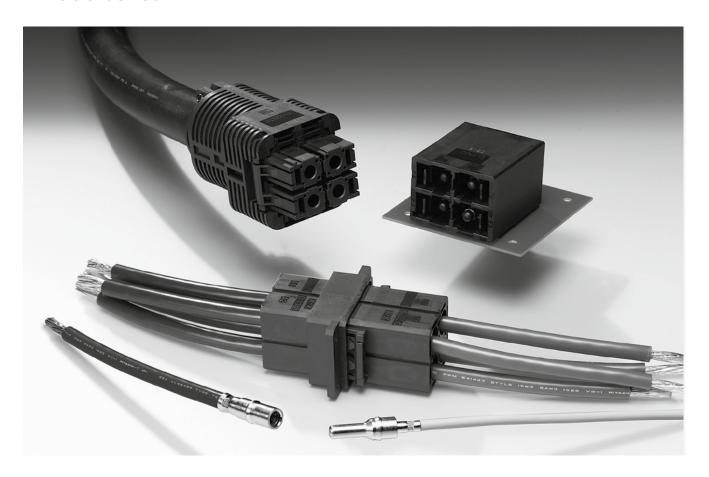
Das	I/ou	Color			Dimensions		
Pos	Key	Color		А	В	С	
4	_	Black	1871418-1	30.3	41.4	19.5	

• Tab Housing



Dee	Key Color Part Number	Doub Number	Dimensions			
Pos		Color	Color Part Number	А	В	С
4	_	Black	1871419-1	30.3	44.1	19.5

### D-7000 Series



### Series introduction

Dynamic D-7000 series includes the highest power rated connector that is max 65A (per contact, using max. wire size)

It is available in board to wire, wire to wire, wire to panel -some are finger safe (Reverse Mount Type) – and long pin types all providing stable electrical connections for semiconductor manufacturing machines, construction plant etc.

The number of positions is the industry standard 4P, which will meet a wide range of application requirements.

The receptacle contact is the 'crown band type containing a tube shape spring, meaning high performance and operation feasibility.

### **Product Features**

### 1. Achieved High Current and High Reliability up to 65A

To accommodate the high current of 65A, we adopted, for the first time, a crown band with a multipoint contact mechanism in the receptacle contact. This contact is not only highly reliable, but disperses the heat generated when high current passes through the contact

### 2. Sequential Connection

Sequential connection is compatible 2 types of pin contact are available, standard type and long type. This is ideal for applications when sequential connections from the crown pin are required.

#### 3. Other

- Standard type and reverse type are available, offering a wide variety of mating options
- By using cable clamp type applicable to jacket cable, it can be used as an I/O connector

# **D-7000 Series Performance and Specifications**

#### **Performance**

Item	
Pitch	16mm
Rated Current	65A max
Rated Voltage	630V AC / DC
Dielectric Withstand Voltage	3000 VAC
Total resistance	2mΩ max
Insertion strength:	49.0N max (per positions)
Withdrawal strength	4.9N min (per positions)
Durability	20 cycles
Locking strength	196N min

# **Product Specifications**

Product Specifications	108-78470
TEST REPORT	501-78004
Extraction tool application specification	408-78147
Applications Specifications	114-5452

When applicable, please be sure to order the operation manual. It can also be found in the online electronic specifications catalog.

#### Positions / Wire size / Rated current

Unit: A (Amps)

Desition	Series	Wire Size(AWG)							
Position	Series		14	12	10	8	6		
4	Wire-to-board	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		

#### **Materials and Plating**

		_		
Туре	Item	Tab contact	Receptacle Contact (Crown-shaped Ter- minal)	
Combonto	Materials	Copper	Copper alloys	
Contacts Plating		Silver plating with Nickel under-plated	Gold plating with Nickel under-plated	
Board Mount	Materials	Copper	_	
Header Plating		Silver plating with Nickel under-plated	_	
Housing	Materials	UL94V-0, Thermoplastic PBT containing glass fiber		

#### **Safety Standards**

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

			D-710	OSeries					D-7	300Serie	s	
SeriesSTD.	Rated Voltage	Rated Current				Temperature Range	Rated Voltage		Rated Current		Temperature Range	
Product Specifications 108-5453	630V AC/DC	(As shown above)		(As shown above)		-55°C ~+105°C	630V AC/DC		(As shown above)		-55°C ~+105°C	
ULFile No.E28476 (Recognized Component)	600V AC	Based on the requirements of Application		Uses AWG6 wires Allowable maxi- mum 6A	600V AC	Based on the requirements of Application		Based on the requirements of Application				
				4-No of Pos.						4-No of Po		
		AWG	WTW	WIRE-TO BOARD	Dyna- clamp			AWG	WTW	WIRE-TO BOARD	Dyna- clamp	
TÜVLicense No. R50252537IP protection		16	18	_	_			16	18	_	_	
Socket: IP-10 Plug: IP-000-	630V AC/DC	14	23	_	_	-55°C ~+105°C	630V AC/DC	14	23	_	_	-55°C -+105°C
vervoltage type (II) 50 cycles of repeated plugging		12	31	31	25			12	31	31	25	
andunplugging		10	35	35	35			10	35	35	35	
		8	50	55	45			8	50	55	45	
		6	60	65	55			6	60	65	55	

# **D-7000 Series Contact**

#### **Crimped Types**



Receptacle Contact (Receptacle housing usage)



Tab contact (Tab housing usage)

### **Gold-plated Receptacle contact, Sliver plated Tab contact**

Wir	e Range	Outside Diameter	Diame	eter of Co	ntacts							
4140		ofInsulation	Receptacle Contact		Tab contact	Applicable tools						
AWG	mm2	mm										
16-14	1.6~2.6	10	1871132-4	_		_		1871132-4 —		409777-1*1		
12-10	2.7~6.6	10	1871132-3	STD.	1871131-3		2155816-1 *3					
									LONG	1-1871131-3		2155815-1 *4
8	6.7~10.5		1871132-2	STD.	1871131-2	2155369-1 *2	2155814-1 *5					
Ü	0.7 10.0		1071102 2	LONG	1-1871131-2		2133014 1 3					
6	10.6~16.7	10	10 1871132-1		1871131-1		2155810-1 *6					
3	6 10.6-16.7 10 1871132-1		10/1132-1	LONG	1-1871131-1		2133610-1 6					

Note: For details, please contact the purchase agent or sales department.

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

<sup>\*1</sup> Hand tool (W-shaped crimp)

<sup>\*2</sup> Electric hydraulic tool See P.121.

If you have any questions, please contact the sales department.

 $<sup>^{*}</sup>$  3 Mold (2155369-1 used together with the electric hydraulic tool / applicable wire: AWG#12; crimp shape: hexagon)

 $<sup>^{*}4</sup>$  Mold (2155369-1 used together with the electric hydraulic tool / applicable wire: AWG#10; crimp shape: hexagon)

 $<sup>^{*}5</sup>$  Mold (2155369-1 used together with the electric hydraulic tool / applicable wire: AWG#8; crimp shape: hexagon)

 $<sup>^*6</sup>$  MoId (2155369-1 used together with the electric hydraulic tool / applicable wire: AWG#6; crimp shape: hexagon)

# **D-7100 - 16mm pin pitch**

# **Type Chart**





Pos	Color	Receptacle housing	Tab housing	Plating	Board-Mounting Header
4	Black	2134055-1	2134057-1	Silver	1981823-1

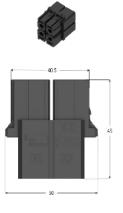
#### **Relative Product Information**

Applicable contact...P.110
Performance & Specifications...P109

#### **External Dimensions**

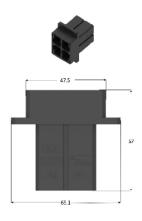
Receptacle Housing

4P Model: 2134055-1



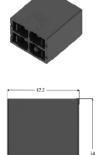
Tab Housing

Panel type
4P Model: 2134057-1



• Board-Mounting Header

4P Model: 1981823-1



NOTE: All products are RoHS compliant On selection.

# D-7300 - 16mm pin pitch

# **Type Chart**



Pos	Color	Receptacle housing	Plating	Tab housing
4	Black	2134059-1	Silver	2134061-1

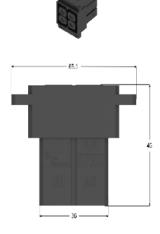
# **Relative Product Information**

Applicable contact...P.110
Performance & Specifications...P109

### **External Dimensions**

Receptacle Housing

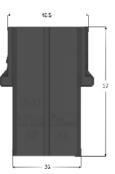
4P Model: 2134059-1



Tab Housing

Panel type
4P Model: 2134061-1



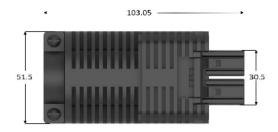


NOTE: All products are RoHS compliant On selection.

# D-7100 Dyna-Clamp Kit - 16mm pin pitch

#### **External Dimensions**

· Receptacle Housing

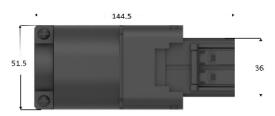


Pos	Color	Cable Size	Part Number
4	4	S ø19 - 25	2-2069313-1
4	Black	M ø25 - 31	1-2069313-1

# D-7300 Dyna-Clamp Kit

#### **External Dimensions**

• Receptacle Housing

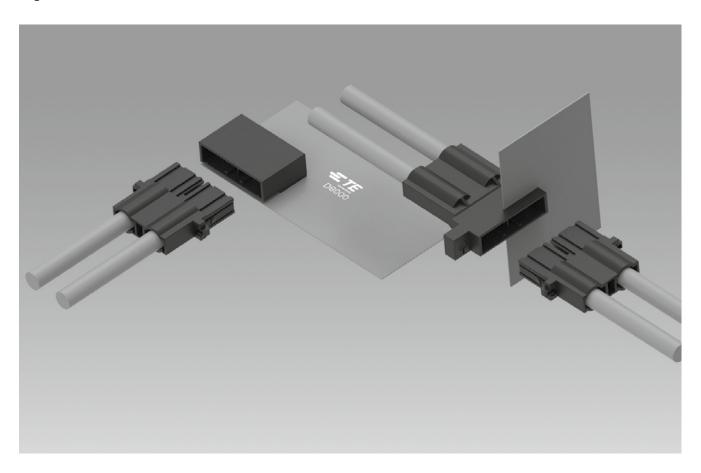


Pos	Color	Cable Size	Part Number
4		S ø19 - 25	2-2069312-1
4	Black	M ø25 - 31	1-2069312-1

# **Relative Product Information**

Applicable contact...P.110
Performance & Specifications...P109

# **Dynamic D-8000 Series**



# Series introduction

The D-8000 Series are by far the products with the largest current-carrying capacity in the Dynamic product line. The current-carrying capacity is up to 90A per unit for wire- to-board and 100A per unit for wire-to-wire.

The compact design provides more available space for applications requiring higher current-carrying capacity; the high temperature resistant board-end material can be applied to the reflow soldering process for easy uniformity on the client side.

D-8000 products, in line with the high reliability, small size and high cost performance that Dynamic products have always maintained, provide higher current-carrying capacity to meet the needs of the industrial market for high-current connectors.

# **Product Highlights**

1. High current-carrying capacity
D-8000 products can reach 90A
per unit for wire-to-board products
and 100A per unit for wire-to-wire
products. This product addition
greatly improves the currentcarrying range of the Dynamic
product line.

#### 2. Sequential Connection

Compared with the D-7000 products, the higher current carrying D-8000 connectors have a smaller size making them very cost- effective.

# 3. Silver-plated contact area of the terminal

D-8000 products balance the dual requirements of product performance and price, so the silver-plated contact design is used.

# 4. Board- Mounting Header suitable for reflow soldering

The D-8000's board-end connector is made of high temperature material and is suitable for reflow soldering. This allows for standardization and time savings on the soldering process.

# **D-8000 Series Performance and Specifications**

#### **Performance**

Item	
Pin Pitch	24.4 mm
Rated Current	100A (wire-to-wire) / 90A (wire-to- board) max
Rated voltage	1000V
Withstanding voltage	3000V
Contact resistance	0.8mΩ max
Durability	10 cycles
Insertion force	58.8N max (per pos)
Extraction force	58.8N max (per pos)
Locking mechanism holding force	96 N
Retention force of contact in plastic housing	96 N
Wire Range	AWG 3
Operating Temperature	-55°C to 105°C

# **Product Specifications**

Product manual	108-140254
Operation manual	114-78058-1
INSPECTION REPORT	501-78768

When using, be sure to order the instruction manual. Also available from the electronic specification catalog on the Internet.

# Positions / Wire size / Rated current

Unit: A (Amps)

Dee	Series	Cable Size (AWG)
Pos	series	2
2	Wire-to-board	90
2	Wire-to-wire	100

# **Materials and Plating**

Category	Material	Plating				
Receptacle contact, tab contact	Copper alloy	Silver (2 μm) over nickel plated (1.27 μm) plated				
Board-mounting tab contact	Copper alloy	Mating face: Silver (2 μm) over nickel plated (1.27 μm) plated Soldering face: Tin (2 μm) over nickel plated (1.27 μm) plated				
Receptacle housing and tab housing	UL94V-0, PBT containing glass fiber					
Board-end housing	UL94V-0, high temperature nylon containing glass fiber					

# **D-8000 Series Contact**

#### **Crimp Contacts**



# Silver-plated type

•	enter place type							
) A (:-		Outer Diameter	Contact					
vvir	e Range	of Insulation			Applicable Tools			
AWG	mm2	mm	Receptacle Contact	Tab Contact				
3	25	9.5	2373747-5	2351982-5	2372716-1			

Note: When ordering products, please confirm the sales lot. Please contact your agent or sales department for details.

Receptacle contacts are available for all receptacle housings, and the tab housings are available for all tab housings.

# Dynamic D-8000 - 24.4mm pin pitch

# **Type Chart**



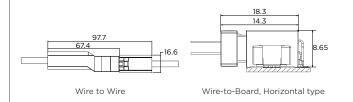


Pos	Color	Receptacle Housing	Tab Housing	Plating	Board-Mounting Header
2	Black	1-2351981-2	1-2352216-2	Silver	1-2351965-2

### **Relative Product Information**

Applicable contact...P.116
Performance & Specifications...P.115

#### **Mated Dimensions**



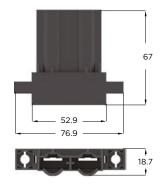
### **External Dimensions**

Receptacle Housing

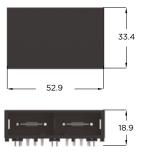




Tab Housing



Board-Mounting Header



NOTE: All products are RoHS compliant On selection.

# **Multiple Enclosure Connector**



# Series introduction

Human machine interfaces (HMI) can be found on a variety of machines. They allow people to communicate with equipment to control, operate and program. The multiple enclosure connector was developed as a connector for I/O interfaces for HMI.

They are superior in operation, very safe and easy to use. Plus, they use contacts from the Dynamic Series, providing high reliability.

There are two types of Multiple Enclosure connectors: metal and plastic. Their use depends on the type of environment.

#### **Product Features**

### 1. Wire Sizes

The metal type fits wires with diameter from 10mm to 11mm, the plastic type from 5mm to 12mm.

#### 2. Applicable Contacts

The highly reliable Dynamic D-1000 and D-3000 series terminals are used as contacts for I/O connectors for human machine interfaces (HMI). These can be crimped by using existing Dynamic crimping tools.

# 3. IP65 (plastic type), IP67 (metal type) i

The connectors have dust and water proofing for use in harsh conditions. (Note: need to be used with cable gland)

#### 4. Safety Lock Mechanism

The lock mechanism uses the fast on/off lock concept which can be locked or released by just grabbing the connec tor. Plus, our proprietary double lock mechanism prevents vibration related disconnect accidents.

### 5. Two Types of Housing

The series includes two types of housing, a standard type and a reverse type for preventing exposure of live contacts.

#### 6. Cable Clamp Interface

C able clamps, which are commercially available and can be selected according to application and purpose, can be attached to cover the cable entering the connector.

#### 7. Other Considerations

Audible & tactile locking design ensure the complete connection between receptale and tab.

# **Multiple Enclosure Connector**

#### **Performance Specifications**

Item	Standard
Rated Current	See the reference
Rated Voltage	125VACrms (for the part with a pitch of 2mm)
Dielectric Withstand Voltage	1,000V AC (1 min)
Operating temperature	-30°C -105°C (including the temperature rise caused by electrification)
Total resistance(low level)	10mΩ max (initial)
Insulation resistance	1000m $\Omega$ min (initial)
Insert Strength	39.2N max (per position)
Withdrawal Strength	4.9N max (per position)
Durability	50 cycles
Enclosure Lock Strength	98N min

# **Product Specifications**

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

#### Plastic type

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

#### Contact

Refer to D-1000 contact on P.21 and D-3000 contact on P.48

# Positions / Wire size / Rated current

Contact		Receptacle contacts and tab contact					
Wire Size Position	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

#### Plastic type

Contact	Receptacle contacts and tab contact						
Wire Size							
Position	AWG #22	AWG #24	AWG #26	AWG #28	AWG #30		
32Pos	1.5	1	0.8	0.5	0.5		

# **Materials and Plating**

#### Metal type

Parts Materials	Materials	Finish
Contact	Copper alloys	Gold plating over Nickel under- plated
Connector Housing	UL94V-0, thermoplastic poly- amide	_
Connector Case	Zinc	Nickel-plated
Bottom	Nitrile rubber	_
Shield Grip	Cold-rolled steel	Nickel plating over copper base

#### Plastic type

Description	Materials	Finish
Contact	Copper alloys	Gold plating over Nickel under- plated
Connector housing	UL94V-0, thermoplastic poly- amide	_
Connector Case	UL94V-0, thermoplastic poly- amide	_
Bottom	Nitrile rubber	_

# **Multiple Enclosure Connector**

# **Type Chart**







Type	Type Pos. Receptacle housing I			Hou	Tab housing		
туре	POS.	Receptacle flousing	Polarity	Receptacle (	Receptacle (R) / Tab (T)		
Metal	24	1939847-1	Standard	1939850-1(R)	1939839-1(T)	1939840-1	
type	24	1981560-1	Reverse	1981556-1(T)	1981551-1(R)	1939640-1	
Metal	14+1	1939847-1	Standard	1981135-1(R)	1981133-1(T)	1939840-1	
type	14+1	1981560-1	Reverse	1981947-1(T)	1981945-1(R)	1939640-1	
Plastic	72	32 1981919-1	Standard	1981921-1(R)	1981921-1(R) 1981914-1(T)	1981913-1	
housing type	32		32 1981919-1 Reverse	2013393-1(T)	2013391-1(R)		

Shield clip P /N 1939851 -1 (Receptacle housing) tool: 1891820 -1 (411-78273)

#### **Relative Product Information**

Applicable contact... 24 position product: D-1000 S.M contacts see P.21

14+1 position product: The D-1000 & D-3000 contacts see P.21 and 48

32 position product: D-1000 S.M contacts see P.21

#### **External Dimensions**

· Receptacle Housing

Standard Type (Receptacle housing)



Das	Pos Kev	Diations	Color Part Number		Dimensions			
POS	Pos Key Plating (		Color	Color Part Nulliber		В	С	
24	_	_	Black	1939850-1	19.6	15.3	10.0	
14+1	-	_	Black	1981135-1	22.0	22.8	16.8	
32	_	_	Black	1981921-1	27.2	15.3	17.6	

Reverse (Tab housing)



Dan	Pos Kev P	Plating Color	Part Number	Dimensions			
POS	Key	Plating	Color	Part Number	А	В	С
24	_	_	Black	1981551-1	27.5	23.7	20.0
14+1	_	_	Black	1981945-1	27.5	23.7	20.2
32	_	_	Black	2013391-1	29.5	23.0	17.0

NOTE: All products are RoHS compliant On selection.

### • Tab Housing

Standard Type (Tab housing)



Pos Kev	ey Plating Color	Part Number	Dimensions				
Pos	Key	Plating	Color	Part Number	А	В	С
24	_	_	Black	1939839-1	27.5	23.3	20.0
14+1	-	_	Black	1981133-1	27.3	27.5	20.2
32	_	_	Black	1981914-1	29.5	22.3	17.0

Reverse (Receptacle housing)



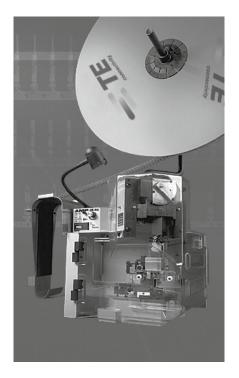
Dos Kov	Plating Color	Part Number	Dimensions				
Pos	Key	Plating	Color	Part Number	А	В	С
24	_	_	Black	1981556-1	19.6	20.8	10.0
14+1	_	_	Black	1981947-1	22.8	28.2	16.8
32	_	_	Black	2013393-1	27.2	20.0	17.6

#### 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.

- It can be equipped with other companies' application tools.
- The crimping height can be adjusted at 0.013 mm per step.
- It can be used with a power supply of AC100V/240V.
- Low noise and easy speed adjustment are achieved due to the DC motor drive.
- Multiple modes and optional parts are available depending on the operating environment.

	Name	AMP-3K	AMP-5K			
	Type Universal mount type	1725950-3	1725900-3			
Part Num- ber	AMP quick mount type	1-1725950-2	1-1725900-2			
	Stroke	30 mm				
	Dimensions	The application tool is mounted on the safety cover closed side (no reel): 512mm (width) x415mm (depth) x510mm (height)				
	Dimensions	The application tool is mounted on the safety cover closed end (no reel): 427mm (width) x523mm (depth) x510mm (height)				
	Weight	About 70kg (main body of the crimping machine)				
	Power supply	AC100-240V (310%) Singl	e-phase 50 / 60Hz (6A)			
	ode is terminated)					



#### **SCM Stripper Crimping Machine (Tabletop Crimping Machine)**

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

Туре	AMP-3K Specification 1596509-3	AMP-5K Specification 1596509-4					
Applicable Wire	AWG 32-14 with the maximum skin outer diameter of 5.08mm (some AWG32-30 wires are inapplicable. ) Please contact us for det						
Jacket strip Dimensions	Min 29mm (or wire set if the peeling size is 29-45mm) The time is longer than usual.						
Strip Length	2.5-10mm						
Usable Applicators	Our company's 40mm strok	e side feed application tool					
Noise level	< 82	dB					
Crimp ability	13,345N (1,360kgf) Can be crimped to the AWG14	22,226N(2,268kgf) Can be crimped to the AWG10 (or to AWG14, if it is an SCM)					
Power supply	AC 100-240V single phase 50/60Hz						
Air pressure	0.49 - 0.59MPA (5 - 6kg/cm2)						
Machine weight	About 80 kg						



AMP-3K Specification SCM

#### TE REC-Li60 (charging hydraulic tool)

- The lithium-ion battery is the lightest in its class.
- High power due to dual Battery-electric & hydraulic pump use.

Product Specification Rated output 54 kN Crimp Range: 5.5 to 60mm2 Electric machine: 14.4 V DC motor External dimensions 286 mm (length) x 285mm (height) x 75mm (width)

Weight: 2.7 kg (60 mm 2 Dices, battery pack included)
No. of times can be crimped: 270 times (60 mm2 crimp per hour), Manufacturer

Part Number: 2155369 - Δ



Product Specification Rated output 127kN Crimp Range: 14 to 250 mm2 (copper wire bare pressure terminal and sleep) Electric motor: 14.4 V DC motor

External dimensions 340mm (length) x 280mm (height) x 75mm (width) Weight: 4.2kg (250mm 2 Dices, battery pack included)

No. of times can be crimped: 50 times (250mm2 crimp per hour), Manufacturer Part Number: 2155363 –  $\Delta$ 



#### **Key Plug-equipped D-1000 Series**



Part Number:1939588-1

# **Receptacle Contact Cutting Tool D-1000**

Part Number: 919041-3 Application Specification: 411-78047

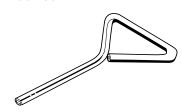
#### **Key Plug-equipped D-2000 Series**

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



Part Number:641994-1

#### **Receptacle Contact Cutting Tool D-2000 Series**



Part Number: 919041-2 Application Specification: 411-78047

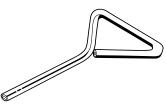
#### **Key Plug-equipped D-3000 Series**

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



Part Number:175855-1

### **Receptacle Contact Cutting Tool Series** D-3000

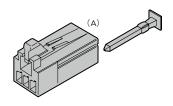


Part Number: 919041-1 Application Specification: 411-78047

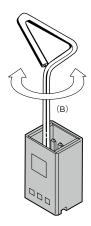
#### How to use the plug and cutting tool

\*It should be noted that some of the products (D-2100 S/D-2100 D) to prevent mis-insertion, use keying mechanism from the beginning.

(1) Keying Plug inserted in one pole of the receptacle housing.



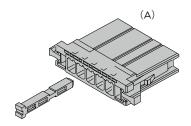
- ② Wrench off a tab in the corresponding position of mating Tab Header and empty that position. To wrench off the tab, insert Cutting Jig into its root and turn tool as shown.
  - \*\*In tab Hous ing (Pane I/ freehanging type), 1 pole is not inserted and is left free.



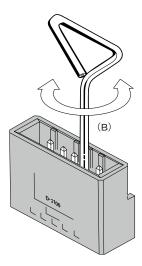
#### How to use the plug and tool for the D-3000 Series

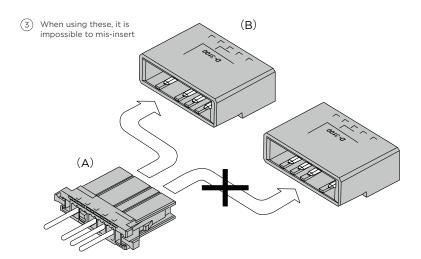
In addition, mis-insertion function keying has been installed from the beginning in some of the products (D-3100S/ D-3100M/ D-3200S/D-3200M)

1 The keying plug is inserted into the receptacle housing



- 2 Wrench off a tab in the corresponding position of mating Tab Header and empty that position. To wrench off the tab, insert Cutting Jig into its root and turn tool as shown
  - \* In tab Housing (Panel/ freehanging type), 1 pole is not inserted and is left free





#### Hand tools PEW 12, D-1000, D-3000 and D-4000 series



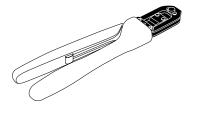
- Crimping with a straight action feel
- By manipulating the fulcrum of the handle, we have created a crimper that, while double action, is almost like straight action.
- Interchangeable dies
- The dies are easy to change. This means a wide variety of terminals can be handled with the minimum number 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.



D-1000 series with Flip Locator

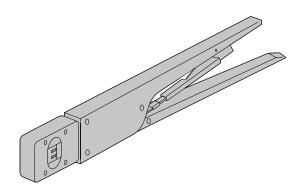


Part Number: See P.17,36,46,90.

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

#### **Hand Tool D-4000 Series**

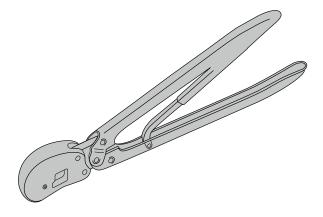
Crimper uses the reliable straight action method



Part Number: See P.83

#### **Hand Tool D-5000 Series**

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



Part Number: See P.90

#### **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**

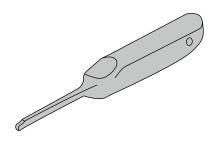
Used to pull D-2000 contacts from the housing



Part Number:1276716-1

#### **Extraction Tool for D-3000 Series**

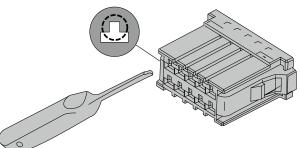
Wiring type tool for pulling the contact from the housing

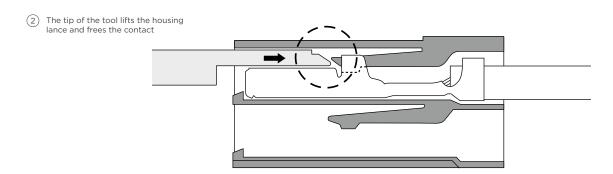


Model: 234168-1 Operating Manual: 411-5726

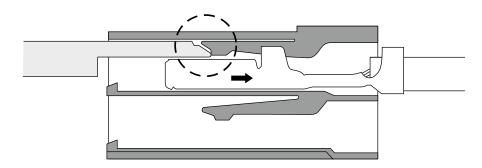
#### Using the extractor

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)





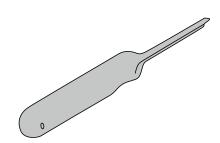




<sup>\*</sup> Take care not to insert into the Contact Section. If you have inserted by error, replace the damaged contact with a new one before proceeding.

#### **Extraction Tool for D-5000 Series**

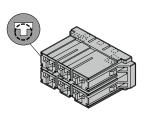
A tool for pulling out terminals from cable's crimping plug/socket housing. (When inserting, please note that the positioning dowels of D-3 and D-5 are opposite up and down.) Only D-5 terminals can be pulled out with a tool such as a small flathead screwdriver or awl.



Part Number: 409158-1 Operation Manual: 411-5774

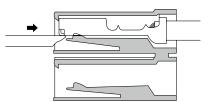
#### Using the extractor

The pulling tool should be inserted into the narrow part of bottom, with convex hole in the housing as shown in the diagram.

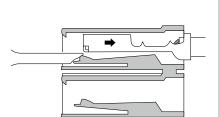


#### If using the D-5 Extraction Tool

The tip of the tool lifts the housing lance and frees the contact

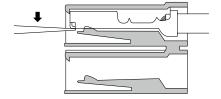


3 Contact can be withdraw

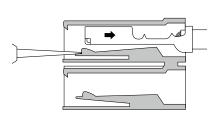


#### If using a small O-driver or awl

2 The tip pushes down the lance part and frees the contact



3 Contact can be withdraw



#### **Unplugging tool D-7000 series**

Part Number: 2040080-1 Operation Manual: 408-78147



Please be sure that it is not inserted into the terminal position. If it is inserted incorrectly, replace the terminal with a new one.

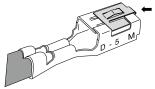
#### **Crimping Oil**

Part Number:939691-1

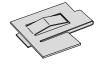


For easing the friction between tool and contact during crimping

# Sequence clip



• First "On" / then "Off"
• Applicable to the D-5 terminal only



Part Number:179993-1

# **Accessories**

#### L-bracket D-3000

Used to fix the air-to-air housing of the plug to the panel surface.

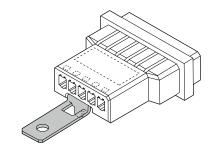
Model: 5900121-2(S) 5900121-4(L)



Part Number:5900121-2 (S)

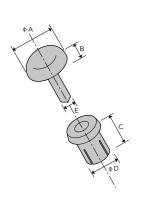


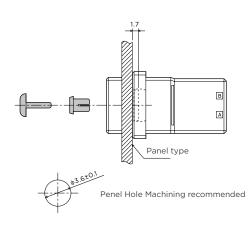
Part Number:5900121-4(L)



#### **Push rivets**

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

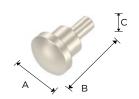




		Dimensions							
Part Number	Panel Thickness		B C D E		Insertion Strength	Retention Force			
900128-1	0.3~1.3	C 4	1.0	4.5	7.5	1.05	10 CNL 20 4NL	*	
900128-2	1.3~2.3	6.4	1.6	5.5	3.5	1.95	19.6N~29.4N	127.4N Min.*	

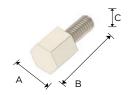
<sup>\*</sup>When using 2

#### Panel Mounting Screws D-2000, D-3000



Part Number	Dimensions			
Part Number	А	В	С	
900167-1	9.0	10.3	M3	

#### Panel Mounting Hex Screws D-2000



Part Number	Dimensions			
Part Number	А	В	С	
1376059-1	5.5	12.3	M3	

# **Cable Glands**

# **Plastic Gland**



Material: PA

Press seal material: PA Seal material: EPDM

Temperature range: -40°C~+100°C

Protection: IP68

Metr.	Dimer	sion D	SW Type		Part Number	Color of Housing	
	Minimum	inimum Maximum		туре	Part Number	Color of Housing	
	5	9	24	HSK-M20B-H	T3209201112-001		
	6 12	12	24	HSK-M20B	T3209201122-001	Black	
	8	14	27	HSK-M20B-D	T3209201102-001		
M20*1.5	5	9	24	HSK-M20G-H	T3209201212-001		
	6	12	24	HSK-M20G	T3209201222-001	Grey	
	8	14	27	HSK-M20G-D	T3209201202-001	Ī	

#### **Metal Gland**



Material: Nickel plated brass Press seal material: PA

Seal material: NBR

Temperature range: -40°C~+100°C

Protection: IP68

Metr.	Dimer	ision D	SW	Tuna	Part Number	
Metr.	Minimum	Maximum	SVV	Type		
	5	9	22	DLX-20-MT	T3609200112-000	
M20*1.5	6	12	22	DLX-20-M	T3609200102-000	
	10	14	24	DLX-20-MB	T3609200122-000	

# **EMC** cable glands



Material: Nickel plated brass Press Seal Material: PA

Temperature range: -40°C~+100°C

Protection: IP68

Metr.	Dimer	sion D	SW	Turne	Part Number	
Metr.	r. Minimum Maximum		SVV	Type	Part Number	
1400*15	5	9	24	DLX-20-MTC	T3707200113-000	
M20*1.5	7	12	22	DLX-20-MC	T3706200103-000	

# 请使用互联网电子规格目录。 INTERNET Electronic Catalog Offered For Your Use.

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本电子规格目录可根据"型号""产品名称""产品类型"等进行搜索,可在短时间内搜索到符合特定规格的产品。包括客户图纸在内,可简单 提取到详细信息。采用时,请务必下载客户图纸后使用。

Using this Electronic Catalog, you can retrieve information by product category, part number and product name. It is possible to search and locate information on products that meet specific specifications in minutes. Customer drawings included, detailed product information can be extracted easily.

### 操作步骤

(Electronic Catalog Procedure)

访问上述地址, 出现右边的窗口; Upon the access to our website.

the following page will come appear.

光标对准产品信息,出现菜单。单击产品搜索,出现以下窗

口,显示操作方法示例,请按需求方式进行搜索。

Moving the cursor here takes you to the product search menu. If you select the product search menu, the following page will show you examples of how to operate. Please operate with the suitable method to your needs.



单击此处,弹出右边窗口。

Click this button to get the page shown right.



You can search for the RoHS regulation information.





输入产品型号,单击搜索,出现右边的窗口。(※171825-2 为型 号输入示例。)

After entering part number, click Search to get the

page shown right. %171825-2 is an example of part number for entering.



- ■Product specifications may be changed for improvement purposes without prior notice. Sales of any of the products may be suspended. When discussing the use of products, be sure to request for the drawings and product Standard Type Types. In particular, please consult the information to confirm the tolerances of the fine mounting dimensions for the mounting of the printed circuit board.
- The product is provided with a sales batch. Please ask the sales department for the latest information.
- Dimensions, if not specified, are expressed in mm.
- The applicable wire range (AWG) contained in this specification catalogue covers the values for using the application tools. When using a hand tool, please refer to the operating manual

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AK 07/24



# **Dynamic Series Connectors** 2024 Edition