

DYNAMIC SERIES CONNECTORS

2024 Edition

RoHS
Ready 



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



(Illustration of the D-3 contact)

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)



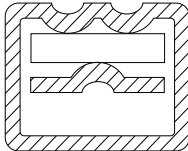
(Applicable to the D-3 terminal)

Plating	Type	Contact Pressure	Position	Contact Pressure Mark	Applicable Positions	Specifications	Application	Durability approximates cycles
Gold	Standard Contact Pressure	Around 1.47N	Ⓐ	—	1-100	Standard	Used for signal/power multi-position and High durability cycles circuits	500
	High Contact Pressure	Around 2.45N	Ⓑ	H	1-20	Vibration / High Current	Used for signal/Power supply/ Motor application with high- vibration feature	500
Tin	High Contact Pressure	Around 3.92N	Ⓒ	H	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 0.76μm 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



Receptacle Contact

Tab contact



Receptacle Contact

Receptacle Contact

Wire range marks

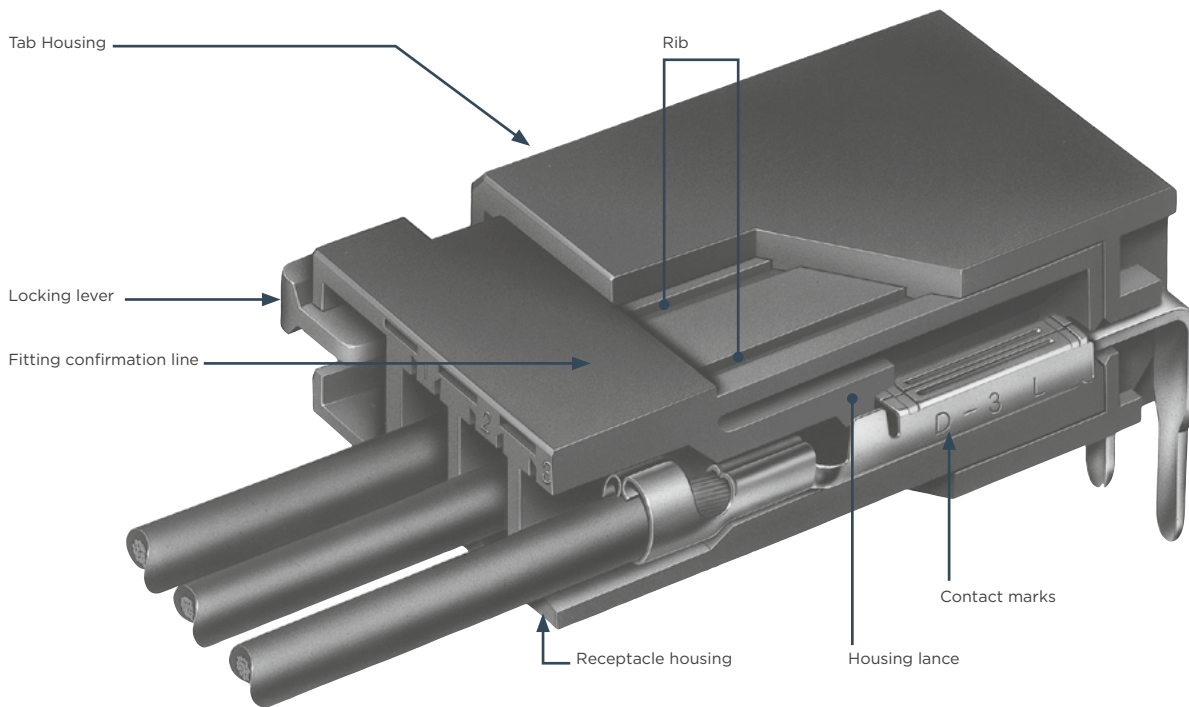
D-1	S	AWG#30-28
	M	AWG#28-22
	L	AWG#28-22
	2L	AWG#22-18
D-2	S	AWG#28-24
	M	AWG#22-18
D-3	S	AWG#28-24
	M	AWG#24-20
	L	AWG#20-16
	2L	AWG#16-14
	3L	AWG#16-14
D-4	M	AWG#16-14
	L	AWG#14-12
D-5/D5a	SS	AWG#20-16
	S	AWG#16-14
	M	AWG#12-10
	L	AWG#8



Receptacle Contact

Receptacle Contact

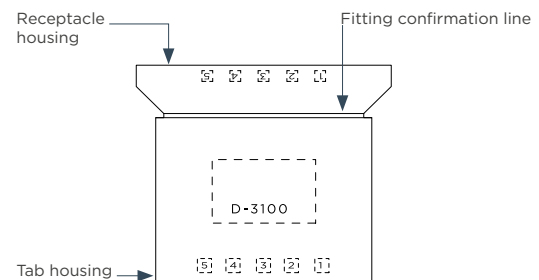
Housing Features (Example of the D-3000 Series connector)



(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)



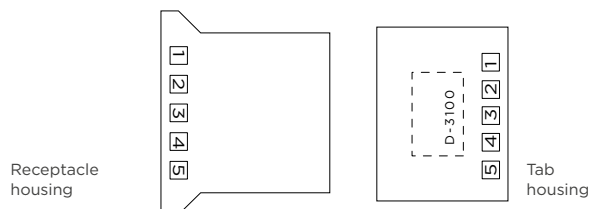
Label Mark

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



Easy-to-read circuit number

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



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

Voltage/Current	Application	Tin plated	Gold plated			
			0.38μ		0.76μ	
			Standard pressure	High pressure	Standard pressure	High pressure
Below 3V Below 1A	Standard specifications	—	★★	★★	★★★★	★★★★
	Vibration	—	★	★★	★	★★★★
	Harsh environment	—	★	★	★★	★★★★
	Extensive mating/ unmating	—	★★	★	★★★★	★★
	Many contact positions	—	★★★★	★★	★★★★	★★
3 to 30V 1 to 10A	Standard specifications	—	★★	★★	★★★★	★★★★
	Vibration	—	★	★★	★	★★★★
	Harsh environment	—	★★	★★	★★★★	★★★★
	Extensive mating/ unmating	—	★★	★	★★★★	★★
	Many contact positions	—	★★★★	★★	★★★★	★★
Over 30V Over 10A	Standard specifications		★★★★	★★★★	★★★★	★★★★
	Vibration	—	★★	★★★★	★★	★★★★
	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 help 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 board-end plastic housing, suitable for reflow soldering. The soldering plate of the terminal is surface-mounted (SMT), which facilitates automatic pick and place.

NOTE: All products are RoHS compliant On selection.

Mini Dynamic Series Performance and Specifications

Performance

Item \ 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

Positions	Cable size (AWG)		
	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				Receptacle 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	2834501-1*
24-22	0.22-0.35	0.95-1.30	M	Tin	2834464-6	2401910-1	2151524-2	

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

Type Chart



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



Pos.	Color	Key	Part Number		Dimensions				
			Standard	Halogen free*	A	B	C		
12	Black	X	1-2834461-2	1-2834627-2	19.3	15.7	8.35		
	Black	Y	1-2834497-2	1-2834628-2					
16	Black	X	1-2834461-6	1-2834627-6	22.9				
	Black	Y	1-2834497-6	1-2834628-6					
20	Black	X	2-2834461-0	2-2834627-0	26.5				
	Black	Y	2-2834497-0	2-2834628-0					
24	Black	X	2-2834461-4	2-2834627-4	30.1				
	Black	Y	2-2834497-4	2-2834628-4					
28	Black	X	2-2834461-8	2-2834627-8	33.7				
	Black	Y	2-2834497-8	2-2834628-8					
32	Black	X	3-2834461-2	3-2834627-2	37.3				
	Black	Y	3-2834497-2	3-2834628-2					
36	Black	X	3-2834461-6	3-2834627-6	40.9				
	Black	Y	3-2834497-6	3-2834628-6					
40	Black	X	4-2834461-0	4-2834627-0	44.5				
	Black	Y	4-2834497-0	4-2834628-0					
44	Black	X	4-2834461-4	4-2834627-4	48.1				
	Black	Y	4-2834497-4	4-2834628-4					

- Board-Mounting Header

Horizontal type



Pos.	Color	Key	Part Number	Dimensions				
			Tin plating	A	B	C		
12	Black	X	1-2834465-2	19.5	12.3	8.7		
	Black	Y	1-2834499-2					
16	Black	X	1-2834465-6	23.1				
	Black	Y	1-2834499-6					
20	Black	X	2-2834465-0	26.7				
	Black	Y	2-2834499-0					
24	Black	X	2-2834465-4	30.3				
	Black	Y	2-2834499-4					
28	Black	X	2-2834465-8	33.9				
	Black	Y	2-2834499-8					
32	Black	X	3-2834465-2	37.5				
	Black	Y	3-2834499-2					
36	Black	X	3-2834465-6	41.1				
	Black	Y	3-2834499-6					
40	Black	X	4-2834465-0	44.7				
	Black	Y	4-2834499-0					
44	Black	X	4-2834465-4	48.3				
	Black	Y	4-2834499-4					

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

Positions	Cable size (AWG)				
	AWG 22	AWG 24	AWG 26	AWG 28	AWG 30
2-4	8.6	7.2	6	4.1	3.1
5-6	8	6.4	5.5	3.7	2.9
7-8	7.3	5.8	5	3.2	2.5
9-12	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 alloy	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)

Slim Small Standard Types

Type Chart

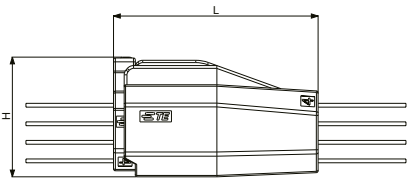


Pos	Key	Receptacle Housing			Tab Housing - Free Hanging type		
		Color			Color		
		Black	Natural	Blue	Black	Natural	Blue
2	X	1-2375948-2	5-2375948-2	7-2375948-2	1-2375951-2	5-2375951-2	7-2375951-2
	Y	2-2375948-2	6-2375948-2	8-2375948-2	2-2375951-2	6-2375951-2	8-2375951-2
3	X	1-2375948-3	5-2375948-3	7-2375948-3	1-2375951-3	5-2375951-3	7-2375951-3v
	Y	2-2375948-3	6-2375948-3	8-2375948-3	2-2375951-3	6-2375951-3	8-2375951-3
4	X	1-2366515-4	5-2366515-4	7-2366515-4	1-2366600-4	5-2366600-4	7-2366600-4
	Y	2-2366515-4	6-2366515-4	8-2366515-4	2-2366600-4	6-2366600-4	8-2366600-4
5	X	1-2375948-5	5-2375948-5	7-2375948-5	1-2375951-5	5-2375951-5	7-2375951-5
	Y	2-2375948-5	6-2375948-5	8-2375948-5	2-2375951-5	6-2375951-5	8-2375951-5
6	X	1-2366515-6	5-2366515-6	7-2366515-6	1-2366600-6	5-2366600-6	7-2366600-6
	Y	2-2366515-6	6-2366515-6	8-2366515-6	2-2366600-6	6-2366600-6	8-2366600-6
7	X	1-2375948-7	5-2375948-7	7-2375948-7	1-2375951-7	5-2375951-7	7-2375951-7
	Y	2-2375948-7	6-2375948-7	8-2375948-7	2-2375951-7	6-2375951-7	8-2375951-7
8	X	1-2366515-8	5-2366515-8	7-2366515-8	1-2366600-8	5-2366600-8	7-2366600-8
	Y	2-2366515-8	6-2366515-8	8-2366515-8	2-2366600-8	6-2366600-8	8-2366600-8
9	X	1-2375948-9	5-2375948-9	7-2375948-9	1-2375951-9	5-2375951-9	7-2375951-9
	Y	2-2375948-9	6-2375948-9	8-2375948-9	2-2375951-9	6-2375951-9	8-2375951-9
12	X	3-2366515-2	5-2366515-2	7-2366515-2	3-2366600-2	5-2366600-2	7-2366600-2
	Y	4-2366515-2	6-2366515-2	8-2366515-2	4-2366600-2	6-2366600-2	8-2366600-2
18	X	1-2423582-8	5-2423582-8	7-2423582-8	1-2423584-8	5-2423584-8	7-2423584-8
	Y	2-2423582-8	6-2423582-8	8-2423582-8	2-2423584-8	6-2423584-8	8-2423584-8
24	X	1-2420333-4	5-2420333-4	7-2420333-4	1-2420334-4	5-2420334-4	7-2420334-4
	Y	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	H	L
4	8.9	21.5
6	8.9	21.5
8	11	21.5
12	13	21.3

* Dimensions are in mm

Slim Small Standard Types

External Dimensions

- Receptacle Housing



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
4	X	—	Black	1-2366515-4	6.1	10.5	8.2
	Y		Black	2-2366515-4			
6	X		Black	1-2366515-6	8.8	10.5	8.2
	Y		Black	2-2366515-6			
8	X		Black	1-2366515-8	8.8	10.5	10.2
	Y		Black	2-2366515-8			
12	X		Black	3-2366515-2	11.5	11.3	12.2
	Y		Black	4-2366515-2			

- Tab housing

Free Hanging type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
4	X	—	Black	1-2366600-4	7.2	19	8.6
	Y		Black	2-2366600-4			
6	X		Black	1-2366600-6	9.9	19.7	8.6
	Y		Black	2-2366600-6			
8	X		Black	1-2366600-8	9.9	19.7	10.6
	Y		Black	2-2366600-8			
12	X		Black	3-2366600-2	12.6	21	12.6
	Y		Black	4-2366600-2			

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

Positions / Wire size / Rated current

D-1100~1500 series

Positions	Wire Size (AWG)						
	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

Product Specifications		108-78268 (gold-plated)
		108-78298 (tin-plated)
		108-78336 (D-1900)
Applications Specifications		114-5377 (D-1100, D-1200, D-1500)
		411-78291(D-1900)
Crimping tool instruction sheet	Part number: 1762952-1	408-10414-JPN
	Part number: 1762846-1	
	Part number: 1762950-1	
	Part number: 1762625-1	
Extraction tool part number: 1891526-1 D-1900		411-78241
Extraction tool part number: 1891348-1		411-78263

Materials and Plating

Category	Material	Finish
Receptacle Contacts Tab Contact	Copper alloy	Tin-plating or 0.38μm gold-plating over 1.27μm Nickel under-plated
Board Mount Header		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 fiber	

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 \ Specifications	D-1100			D-1200, D-1500			D-1900		
	Rated Voltage	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 requirements of Application		—	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				Plating	Receptacle Contact		TAB Contact		Application Toolings	
AWG	mm ²	Outer diameter of insulation mm	Wire Range mark		Strip Form	Loose Piece	Strip Form	Loose Piece	CCII hand tool PEW12 hand tool* (PEW12 dies Only)	Mini Applicator
30 28	0.05 0.10	0.6-1.2	S	15µ" [0.38µm] Gold	1827569-2	1827586-2	1903111-2	1903115-2	2119144-1 1762952-1* (1762453-1)	2114042-2
				8µ" [0.20µm] Gold	1827569-4	1827586-4	1903111-4	1903115-4		
				Tin	—	—	—	—		
28 26 24 22	0.05 0.10 0.20 0.37	1.08-1.6	M	15µ" [0.38µm] Gold	1827570-2	1827587-2	1903112-2	1903116-2	2119141-1 1762846-1* (1762847-1)	2151082-1
				8µ" [0.20µm] Gold	1827570-4	1827587-4	1903112-4	1903116-4		
				Tin	1871303-1	1871743-1	1903120-1	1903124-1		
28 26 24 22	0.05 0.10 0.20 0.37	1.08-1.9	L	15µ" [0.38µm] Gold	1827571-2	1827588-2	1903113-2	1903117-2	2119143-1 1762950-1* (1762951-1)	2114043-2
				8µ" [0.20µm] Gold	1827571-4	1827588-4	1903113-4	1903117-4		
				Tin	1871304-1	1871744-1	1903121-1	1903125-1		
22 20 18	0.34-0.37 0.51-0.53 0.85-0.87	1.4-2.2	2L	15µ" [0.38µm] Gold	1827572-2	1827589-2	1903114-2	1903118-2	2119142-1 1762625-1* (1762626-1)	2151083-1
				8µ" [0.20µm] Gold	1827572-4	1827589-4	1903114-4	1903118-4		
				Tin	1871731-1	1871745-1	1903122-1	1903126-1		

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: 0.38µm or 0.20µm
Tin plating: 2.0µm
For mini-applicators information, contact our Sales Department.

Keying plug: 1939588-1

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

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



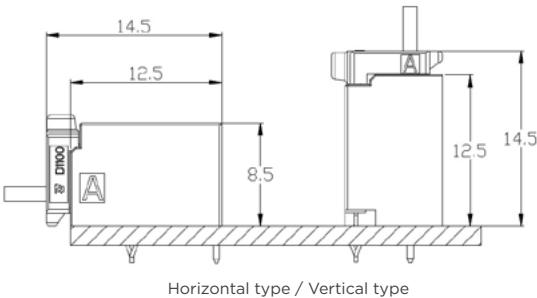
POS	Color	Key	Receptacle housing	Board-Mounting Header		
				Plating	Horizontal type	Vertical type
4	Black	X	1-1939758-4	Gold	1-1939760-4	1-2394617-4
		Y	2-1939758-4	Tin	1-1939761-4	1-2390471-4
8	Black	X	1-1939758-8	Gold	2-1939760-4	2-2394617-4
		Y	2-1939758-8	Tin	—	2-2390471-4
	Black	X	1-1939758-8	Gold	1-1939760-8	1-2394617-8
		Y	2-1939758-8	Tin	—	1-2390471-8
10	Black	X	1-1939758-0	Gold	2-1939760-8	2-2394617-8
		Y	2-1939758-0	Tin	—	2-2390471-8
	Black	X	1-1939758-0	Gold	1-1939760-0	1-2394617-0
		Y	2-1939758-0	Tin	1-1939761-0	1-2390471-0
12	Black	X	1-1939758-1	Gold	2-1939760-0	2-2394617-0
16	Black	X	1-1939758-3	Tin	—	2-2390471-0
		X	1-1939758-3	Gold	—	1-2390471-1
		Y	2-1939758-3	Tin	1-1939761-3	1-2390471-3
		Y	2-1939758-3	Gold	—	2-2394617-3
				Tin	2-1939761-3	2-2390471-3

Relative Product Information

Applicable contact ...P.21

Performance & Specifications ...P.19

Mated Dimensions



Dimensions are in mm
Note: All Part Numbers are RoHS compliant.

D1100S Single-row Standard Types – 2mm pin pitch

External Dimensions

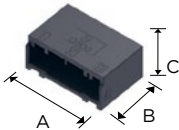
- Receptacle Housing



POS	Color	Key	Receptacle housing	Dimensions				
				A	B	C		
4	Black	X	1-1939758-4	8.9	11.3	9.15		
	Black	Y	2-1939758-4					
8	Black	X	1-1939758-8	16.9				
	Black	Y	2-1939758-8					
10	Black	X	1-1939758-0	20.9				
	Black	Y	2-1939758-0					
12	Black	X	1-1939758-1	24.9				
	Black	Y	2-1939758-1					
16	Black	X	1-1939758-3	32.9				
	Black	Y	2-1939758-3					

- Board-Mounting Header

Horizontal type



Vertical type



POS	Color	Key	Plating	Part Number	Dimensions				
					A	B	C		
4	Black	X	Gold	1-1939760-4	10.6	12.5	8.5		
	Black		Tin	1-1939761-4					
	Black	Y	Gold	2-1939760-4					
	Black		Tin	2-1939761-4					
8	Black	X	Gold	1-1939760-8	18.6				
	Black		Tin	—					
	Black	Y	Gold	2-1939760-8					
	Black		Tin	—					
10	Black	X	Gold	1-1939760-0	22.6				
	Black		Tin	1-1939761-0					
	Black	Y	Gold	2-1939760-0					
	Black		Tin	2-1939761-0					
12	Black	X	Tin	—	—	—	—		
	Black	Y	Tin						
16	Black	X	Tin	1-1939761-3	34.6	12.5	8.5		
	Black	Y	Tin	2-1939761-3					

POS	Color	Key	Plating	Part Number	Dimensions				
					A	B	C		
4	Black	X	Gold	1-2394617-4	10.6	8.0	12.5		
	Black		Tin	1-2390471-4					
	Black	Y	Gold	2-2394617-4					
	Black		Tin	—					
8	Black	X	Gold	1-2394617-8	18.6				
	Black		Tin	1-2390471-8					
	Black	Y	Gold	2-2394617-8					
	Black		Tin	2-2390471-8					
10	Black	X	Gold	1-2394617-0	22.6				
	Black		Tin	1-2390471-0					
	Black	Y	Gold	2-2394617-0					
	Black		Tin	—					
12	Black	X	Tin	1-2390471-1	26.6				
16	Black	X	Gold	1-2394617-3	34.6				
			Tin	1-2390471-3					
		Y	Gold	2-2394617-3					
			Tin	2-2390471-3					

Note: All Part Numbers are RoHS compliant.

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

Type Chart



POS	Color	Key	Receptacle Housing		Tab Housing		Board-Mounting Header				
			Standard	High-retention force	Panel type	Free hanging type	Plating	Horizontal type	Vertical type		
								THT	THT	Reflow/THR	Reflow/SMT
10	Black	X	1-1827862-5	1-2333149-5	1-2069681-5	1-2069682-5	Gold	1-1827873-5	1-2040516-5	—	—
			9-1827862-5*				Tin	1-2271887-5	1-2341421-5	—	—
18	Black	X	1-1827862-9	—	—	—	Gold	—	1-2040516-9	—	—
			—				Tin	—	1-2341421-9	—	—
20	Black	X	1-1827862-0	1-2333149-0	—	—	Gold	1-1827873-0	1-2040516-0	—	—
			—				Tin	1-2271887-0	1-1554590-0	—	—
22	Black	X	1-1827863-1	1-2333134-1	1-1903128-1	1-1903127-1	Gold	—	1-1827872-1	—	—
			—				Tin	—	1-1871315-1	—	—
24	Black	X	1-1827863-2	1-2333134-2	—	—	Gold	—	1-1827872-2	1-2429955-2	—
	Black	Y	2-1827863-2				Tin	—	1-1871315-2	—	—
26	Black	X	1-1827863-3	1-2333134-3	1-1903128-3	1-1903127-3 1-2468186-3*	Gold	1-1939638-3	1-1827872-3	—	1-1939995-3 1-2339471-3
	Black	Y	2-1827863-3				Tin	1-2372488-3	1-1871315-3	—	—
28	Black	X	1-1827863-4	1-2333134-4	1-1903128-4	1-1903127-4	Gold	1-1939638-4	1-1827872-4	—	—
			—				Tin	1-2372488-4	1-1871315-4	—	—
30	Black	X	1-1827863-5	1-2333134-5	—	—	Gold	1-1939638-5	1-1827872-5	—	—
			—				Tin	1-2372488-5	1-1871315-5	—	—
32	Black	X	1-1827863-6	1-2333134-6	1-1903128-6	1-1903127-6	Gold	—	1-1827872-6	—	—
			—				Tin	—	1-1871315-6	—	—
34	Black	X	1-1827863-7	1-2333134-7	1-1903128-7	1-1903127-7	Gold	1-1939638-7	1-1827872-7	—	—
	Black	Y	2-1827863-7				Tin	1-2372488-7	1-1871315-7	—	—
40	Black	X	1-1827863-0	1-2333134-0	1-1903128-0 1-2350416-0*	1-1903127-0	Gold	1-1939638-0	1-1827872-0	—	1-1939995-0
	Black	Y	2-1827863-0				Tin	1-2372488-0	1-1871315-0	—	—
							Gold	—	2-1827872-0	—	2-1939995-0

* latch-protected product with different locking heights.

Relative Product Information

Applicable contact ...P.21

Performance & Specifications ...P.19

Note: All Part Numbers are RoHS compliant.

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

Mated Dimension



Dimensions are in mm

External Dimensions

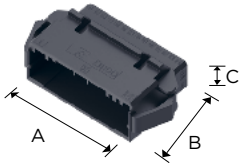
- Receptacle Housing



Pos	Key	Color	Part Number	Dimensions				
				A	B	C		
10	X	Black	1-1827862-5	12.6	11.3	12.5		
			1-2333149-5					
18	X	Black	1-1827862-9	20.6				
20	X	Black	1-1827862-0	22.6				
			1-2333149-0					
22	X	Black	1-1827863-1	24.6				
			1-2333134-1					
24	X	Black	1-1827863-2	26.6				
			1-2333134-2					
26	X	Black	1-1827863-3	28.6				
			1-2333134-3					
	Y	Black	2-1827863-3					
28	X	Black	1-1827863-4	30.6				
			1-2333134-4					
30	X	Black	1-1827863-5	32.6				
			1-2333134-5					
32	X	Black	1-1827863-6	34.6				
			1-2333134-6					
34	X	Black	1-1827863-7	36.6				
			1-2333134-7					
	Y	Black	2-1827863-7					
40	X	Black	1-1827863-0	42.6				
	Y	Black	1-1827863-0					

- Tab housing

Panel type



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
10	X	Black	1-2069681-5	22.1	21.0	13.9
22	X	Black	1-1903128-1	34.1		
26	X	Black	1-1903128-3	38.1		
28	X	Black	1-1903128-4	40.1		
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	Key	Color	Part Number	Dimensions		
				A	B	C
10	X	Black	1-2069682-5	12.6	21.0	11.3
22	X	Black	1-1903127-1	24.6		
26	X	Black	1-1903127-3	28.6		
28	X	Black	1-1903127-4	30.6		
32	X	Black	1-1903127-6	34.6		
34	X	Black	1-1903127-7	36.6		
40	X	Black	1-1903127-0	42.6		

Note: All Part Numbers are RoHS compliant.

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

Type Chart



POS	Color	Key	Receptacle housing		Tab housing		Board-Mounting Header		
			Standard	High-retention force	Panel type	Free hanging type	Plating	Horizontal type	Vertical type
2	Black	X	1-1871465-2	1-2443800-2	—	1-1903129-2	Gold	—	1-1871468-2
							Tin	—	1-2348456-2

Relative Product Information

Applicable contact ...P.21

Performance & Specifications ...P.19

Mated Dimension



Free Hanging type



Vertical type

External Dimensions

- Receptacle Housing



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
2	X	Black	1-1871465-2	7.6	11.3	9.2
			1-2443800-2			

- Tab Housing

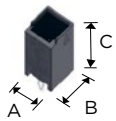
Free Hanging type



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
2	X	Black	1-1903129-2	7.6	21.0	8.0

- Board-Mounting Header

Vertical type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
2	X	Gold	Black	1-1871468-2	7.6	8.0	12.5
		Tin		1-2348456-2			

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

Type Chart



POS	Color	Key	Receptacle housing			Tab housing		Plating	Board-Mounting Header			
			Standard	latch-pro- tected	High-reten- tion force	Panel type	Free hanging type		Horizontal type	Vertical type		
										Standard	Vertical Reflow/ THR	
4	Black	X	1-1827864-2	9-1827864-2	1-2349949-2	1-1903131-2	1-1903130-2	Gold	1-1827876-2	1-1827875-2	1-2429946-2	
	Black	Y	2-1827864-2	—	—	—	—	Tin	1-2348455-2	1-2348454-2	—	
6	Black	X	1-1827864-3	9-1827864-3	—	1-1903131-3	1-1903130-3	Gold	1-1827876-3	1-1827875-3	1-2429946-3	
	Black	Y	2-1827864-3	—	—	2-1903131-3	2-1903130-3	Tin	1-2348455-3	1-2348454-3	—	
8	Black	X	1-1827864-4	9-1827864-4 **	1-2349949-4	1-1903131-4	1-1903130-4	Gold	1-1827876-4	1-1827875-4	1-2429946-4	
	Black	Y	2-1827864-4	—	—	2-1903131-4	2-1903130-4	Tin	1-2348455-4	1-2348454-4	—	
10	Black	X	1-1827864-5	—	—	—	—	Gold	1-1827876-5	1-1827875-5	—	
	Black	Y	2-1827864-5	—	—	—	—	Tin	—	1-2348454-5	—	
12	Black	X	1-1827864-6	9-1827864-6	1-2349949-6	1-1903131-6	1-1903130-6 1-2468187-6*	Gold	1-1827876-6	1-1827875-6	—	
	Black	Y	2-1827864-6	—	2-2349949-6	2-1903131-6	2-1903130-6 2-2468187-6*	Tin	1-2348455-6	1-2348454-6	—	
16	Black	X	1-1827864-8	—	—	—	—	Gold	1-1827876-8	1-1827875-8	—	
	Black	Y	2-1827864-8	—	—	—	—	Tin	—	1-2348454-8	—	
20	Black	X	1-1827864-0	9-1827864-0 **	1-2349949-0	1-1903131-0	1-1903130-0	Gold	1-1827876-0	1-1827875-0	—	
	Black	Y	2-1827864-0	—	—	2-1903131-0	2-1903130-0	Tin	1-2348455-0	1-2348454-0	—	

* 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

Board-Mounting Header

Horizontal type



POS	Color	Key	Plating	Part Number	Dimensions				
					A	B	C		
4	Black	X	Gold	1-1827876-2	7.6	15.0	11.8		
	Black		Tin	1-2348455-2					
	Black	Y	Gold	2-1827876-2					
6	Black	X	Gold	1-1827876-3	10.1				
	Black		Tin	1-2348455-3					
	Black	Y	Gold	2-1827876-3					
8	Black	X	Gold	1-1827876-4	12.6				
	Black		Tin	1-2348455-4					
	Black	Y	Gold	2-1827876-4					
10	Black	X	Gold	1-1827876-5	15.1				
12	Black	X	Gold	1-1827876-6	17.6				
	Black		Tin	1-2348455-6					
16	Black	X	Gold	1-1827876-8	22.6				
20	Black	X	Gold	1-1827876-0	27.6				
	Black		Tin	1-2348455-0					
	Black	Y	Gold	2-1827876-0					

Board-Mounting Header

Vertical type



POS	Color	Key	Plating	Part Number	Dimensions				
					A	B	C		
4	Black	X	Gold	1-1827875-2	7.6	11.3	12.6		
			Tin	1-2429946-2*					
		Y	Gold	2-1827875-2					
6	Black	X	Gold	1-1827875-3	10.1				
			Tin	1-2429946-3*					
		Y	Gold	2-1827875-3					
8	Black	X	Gold	1-1827875-4	12.6				
			Tin	1-2429946-4*					
		Y	Gold	2-1827875-4					
10	Black	X	Gold	1-1827875-5	15.1				
		Y	Gold	2-1827875-5					
12	Black	X	Gold	1-1827875-6	17.6				
		Y	Gold	2-1827875-6					
16	Black	X	Gold	1-1827875-8	22.6				
		Y	Gold	2-1827875-8					
20	Black	X	Gold	1-1827875-0	27.6				
		Y	Gold	2-1827875-0					

* 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

Note: All Part Numbers are RoHS compliant.

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

Type Chart



Pos	Color	Key	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
				Panel type	Free Hanging type		Horizontal type	Vertical type
3	Black	X	1-1827579-1	—	1-2040444-1	—	—	1-1827581-1
6	Black	X	1-2069029-2	1-2040404-2	1-2040444-2	Gold	1-1827583-2	1-1827581-2
9	Black	X	1-2069029-3	—	1-2040444-3		—	1-1827581-3
12	Black	X	1-2069029-4	—	1-2040444-4		—	1-1827581-4
36	Black	X	—	3-2040404-2	—		—	—

Relative Product Information

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

Receptacle Housing



Mated Dimension



Horizontal /Vertical type

Pos	Key	Color	Part Number	Dimensions		
				A	B	C
3	X	Black	1-1827579-1	3.3	11.3	16.4
6	X	Black	1-2069029-2	6.8		
9	X	Black	1-2069029-3	10.3		
12	X	Black	1-2069029-4	13.8		

Note: All Part Numbers are RoHS compliant.

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

External Dimensions

- Tab Housing

Panel type



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
6	X	Black	1-2040404-2	8.5	21.0	24.5
36	X	Black	3-2040404-2	43.5		



Free Hanging type

Pos	Key	Color	Part Number	Dimensions		
				A	B	C
3	X	Black	1-2040444-1	3.0	21.0	15.0
6	X	Black	1-2040444-2	6.5		
9	X	Black	1-2040444-3	10.0		
12	X	Black	1-2040444-4	13.5		

- Board-Mounting Header

Horizontal type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	Gold	Black	1-1827583-2	8.1	17.5	15.1



Vertical type

Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	Gold	Black	1-1827581-1	4.6	14.6	12.5
6	X	Gold	Black	1-1827581-2	8.1		
9	X	Gold	Black	1-1827581-3	11.6		
12	X	Gold	Black	1-1827581-4	15.1		

Note: All Part Numbers are RoHS compliant.

D-1500T Junction Box – 3.5mm pin pitch

Type Chart



Pos	Color	Key	Receptacle housing	Plating	Panel mount		Accessories
					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.

* 4 screws are needed for attaching connector into place

Relative Product Information

Applicable contact ...P.21

Performance & Specifications ...P.19

External Dimensions

• Receptacle Housing



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
3	X	Black	1-1827579-1	3.3	11.3	16.4
10	—	Black	1971150-1	42.2	11.3	4.6

• Panel Mount

Horizontal type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
34	—	Gold	Black	1971151-1	57.7	18.7	24.6

Note: All Part Numbers are RoHS compliant.

• Tab Housing

Vertical type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
34	—	Gold	Black	1971151-2	64.8	22.8	18.2

• Accessories

Pins to be mounted with a foot attachment



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
—	—	Black	1971182-1	67.5	19.0	18.1

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

Type Chart



Pos	Color	Key	Receptacle housing	Plating	Panel mount		Accessories
					Horizontal type	Vertical type	
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.
* 4 screws are needed for attaching connector into place

Relative Product Information

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

Mated Dimension



External Dimensions

- Receptacle Housing (Crimp type)



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
8	X	Black	1-1871946-4	24.2	15.0	9.9
12	X	Black	1-1871946-6	34.2		
16	X	Black	1-1871946-8	41.2		
22	X	Black	2-1871946-1	51.7		

- Receptacle Assembly (Spring clamp)



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

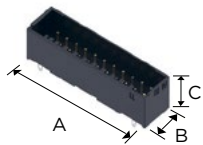
- Board-Mounting Header

Horizontal type



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

Vertical type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
8	X	Gold	Black	1-2013325-4	20.2	11.5	12.5
12	X	Gold	Black	1-2013325-6	26.8		
22	X	Gold	Black	2-2013325-1	44.3		

Note: All Part Numbers are RoHS compliant.

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

Item	2100S/D	2100M	2600D
Pitch	2.5mm		
Rated Current:	5A max	2.6A max	3.2A max
Rated Voltage	250V AC/DC		
Dielectric Withstan- ding Voltage	1500V AC	2300V AC	1500V AC
Total resistance	5mΩ max (initial) 10mΩ max (lifetime)		
Insertion strength	4.9N max (per pole)		
Withdrawal strength	0.29N min (per pole)		
Durability	500 cycles		
Lock strength	39.2N min	—	98N min

Product Specification

Series Name	D-2100S/D	D-2100M	D-2600D
Product Specifications	108-5619	108-5659	108-78301
Applications Specifica- tions	114-5258		
Instruction sheet (hand tool)	408-10414 (S)		
	408-8547-1(M)		
Instruction sheet (extrac- tion 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.

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.

Standards	series	D-2100 series			D-2100M Drawer Type		
		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 accord- ing to the require- ments ofapplication	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

Positions / Wire size / Rated current

D-2100S/D value

Position	Wire Size					
	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

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-0, thermoplastic PBT with glass fiber	

D-2000 Series Configurations



D-2000 Series Contact

Crimped type
(gold plating thicknes 0.38 μm)



Receptacle Contact
(used in receptacle housing)



Tab contact
(used in tab housing)

Wire Range		Outside Diameter of Insulation mm	Wire Range Mark	Contact part number				Models of applicable tools	
				Receptacle Contact		Tab Contact		Hand Tools	Tool numbers
AWG	mm ²			Strip form	Loose Piece	Strip form	Loose Piece		
28	0.09	0.88-1.3	S	1318106-1	1318108-1	1318110-1	1318112-1	91576-1	2151240-1
26	0.12								
24	0.20	1.11-1.43							
24	0.20	2.2-2.25	S1	1-1318106-1*	—	1-1318110-1*	—	—	—
22	0.30	1.26-1.8	M	1318105-1	1318107-1	1318109-1	1318111-1	91595-1	2151071-1
20	0.50								
18	0.85	1.79-1.9							

***This terminal is only applicable to the UL1051 cable.**
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

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: All products are RoHS compliant On selection.

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

Type Chart



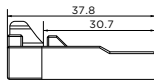
Pos	Color	Key	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
				Panel type	Free Hanging type		Horizontal type	Vertical type
3	Black	X	1-1318120-3	1-1318116-3	1-1318117-3	Gold	1376135-1	1318123-1
	Black	Y	2-1318120-3	2-1318116-3	2-1318117-3	Gold	1376135-2	1318123-2
	Black	Z	3-1318120-3	—	—	Gold	1376135-3	—
	Black	X	1-1473074-3*	—	—	Gold	—	1-1318123-1**

NOTE: The * mark means drawer typer
**Sequential

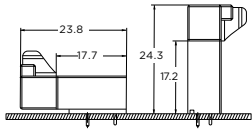
Relative Product Information

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

Mated Dimension



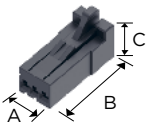
Panel /Free Hanging type



Horizontal type Vertical type

External Dimensions

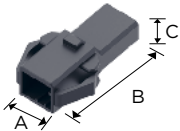
• Receptacle Housing



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
3	X	Black	1-1318120-3	8.9	20.0	12.0
	Y	Black	2-1318120-3			
	Z	Black	3-1318120-3			
	X	Black	1-1473074-3	8.9	20.0	11.8

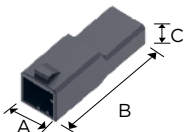
• Tab Housing

Panel type



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
3	X	Black	1-1318116-3	19.7	30.7	9.5
	Y	Black	2-1318116-3			

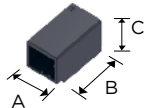
Free Hanging type



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
3	X	Black	1-1318117-3	10.2	30.7	9.5
	Y	Black	2-1318117-3			

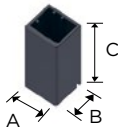
• Board-Mounting Header

Horizontal type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	Gold	Black	1376135-1	10.2	17.7	11.0
	Y	Gold	Black	1376135-2			
	Z	Gold	Black	1376135-3			

Vertical type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	Gold	Black	1318123-1	10.2	9.5	17.8
		Gold	Black	1-1318123-1**			
		Gold	Black	1318123-2			

**Sequential

NOTE: All products are RoHS compliant On selection.

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

Type Chart



Pos	Color	Key	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
				Panel type	Free Hanging type		Horizontal type	Vertical type
6	Black	X	1-1318119-3	1-1318114-3	1-1318115-3	Gold	1376136-1	1318124-1
	Black	Y	2-1318119-3	2-1318114-3	2-1318115-3	Gold	1376136-2	1318124-2
8	Black	X	1-1318119-4	1-1318114-4	1-1318115-4	Gold	1376009-1	1318125-1
	Black					Gold	1-1376009-1*	1-1318125-1*
	Black	Y	2-1318119-4	2-1318114-4	2-1318115-4	Gold	1376009-2	1318125-2
	Black					Gold		1-1318125-2*
12	Black	X	1-1318118-6	1-1318114-6	1-1318115-6	Gold	1376020-1	1318126-1
	Black					Gold		1-1318126-1*
	Black	Y	2-1318118-6	2-1318114-6	—	Gold	1376020-2	1318126-2
	Black					Gold		1-1318126-2*
16	Black	Z	3-1318118-6	—	—	Gold	—	1318126-3
	Black	X	1-1318118-8	—	—	Gold	—	1747994-1
	Black	Y	2-1318118-8	—	—	Gold	—	1747994-2
20	Black	X	1-1318118-9	1-1318114-9	1-1318115-9	Gold	1376137-1	1318127-1
	Black	Y	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

*Sequential

Relative Product Information

Application contact...P.38

Performance & Specifications...P.36

Mated Dimension



NOTE: All products are RoHS compliant On selection.

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

Type Chart



Pos	Color	Key	Receptacle housing		Tab housing		Plating	Board-Mounting Header	
			Type	Part Number	Panel type	Free Hanging type		Horizontal type	Vertical type
50	Black	—	Drawer	1318577-1	1318578-1/1318578-2 (with nuts)	—	Gold	—	—
	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



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
50	—	Black	1318577-1	88.5	20.0	16.6
			1376072-2*		32.0	

*The product contains a receptacle housing 1318577-2
and two screws 1376058-1

- Tab Housing

Panel type

Pos	Key	Color	Part Number	Dimensions		
				A	B	C
50	—	Black	1318578-1	86.1	30.7	15.9
			1318578-2(with nuts)			

- Receptacle Assembly (with screws)

Free Hanging type



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
50	—	Black	1376073-2	86.1	30.7	15.9

NOTE: All products are RoHS compliant On selection.

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

Type Chart



Pos	Color	Key	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
				Panel type	Free Hanging type		Horizontal type	Vertical type
48*	Black	—	1827540-1	—	—	Gold	—	1827538-1

*36 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



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
48	—	—	Black	1827540-1	58.7	22.8	15.8

- Board-Mounting Header

Vertical type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
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 μm thickness should be used. If the environment is deleterious then gold plating at 0.76 μm 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)
Item		
Rated Voltage	250V AC/DC	800V AC/DC (Pollution degree I)
Rated Current	1 pole:15A3 pole: 12A6 pole: 9.5A16 pole: 8A(AWG#16 for use as powersource)	
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 & Specifications

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

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

Material and Plating

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

Safety Standards

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

STD.	Series	D-3100 and D-3400 series (3.81mm pitch)			D-3200 and D-3500 series (5.08mm pitch)		
		Rated Voltage	Rated Current	Temperature Range	Rated Voltage	Rated Current	Temperature Range
Product Specifications 108-5349		250V AC/DC	Above table	-55°C ~+105°C	800V AC/DC(overvol- tage type I, Pollution degree I)	Above table	-55°C ~+105°C
ULFile No.E28476 (Reco- gnized Component)		Based on the require- ments of Application	Based on the require- ments of Application	—	Based on the require- ments of Application	Based on the require- ments of Application	—
CSAReport No. LR7189		250V AC/DC	8A max	—	250V AC/DC	8A max	—
TÜV License No. R9151488 (EN61984)IP prot ection level IP-00 Overvoltage type (II)		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 Overvol- tage type (III)		150V AC/DC	Same as above	Same as above	300V AC/DC	Same as above	Same as above

D-3000 Series Configurations

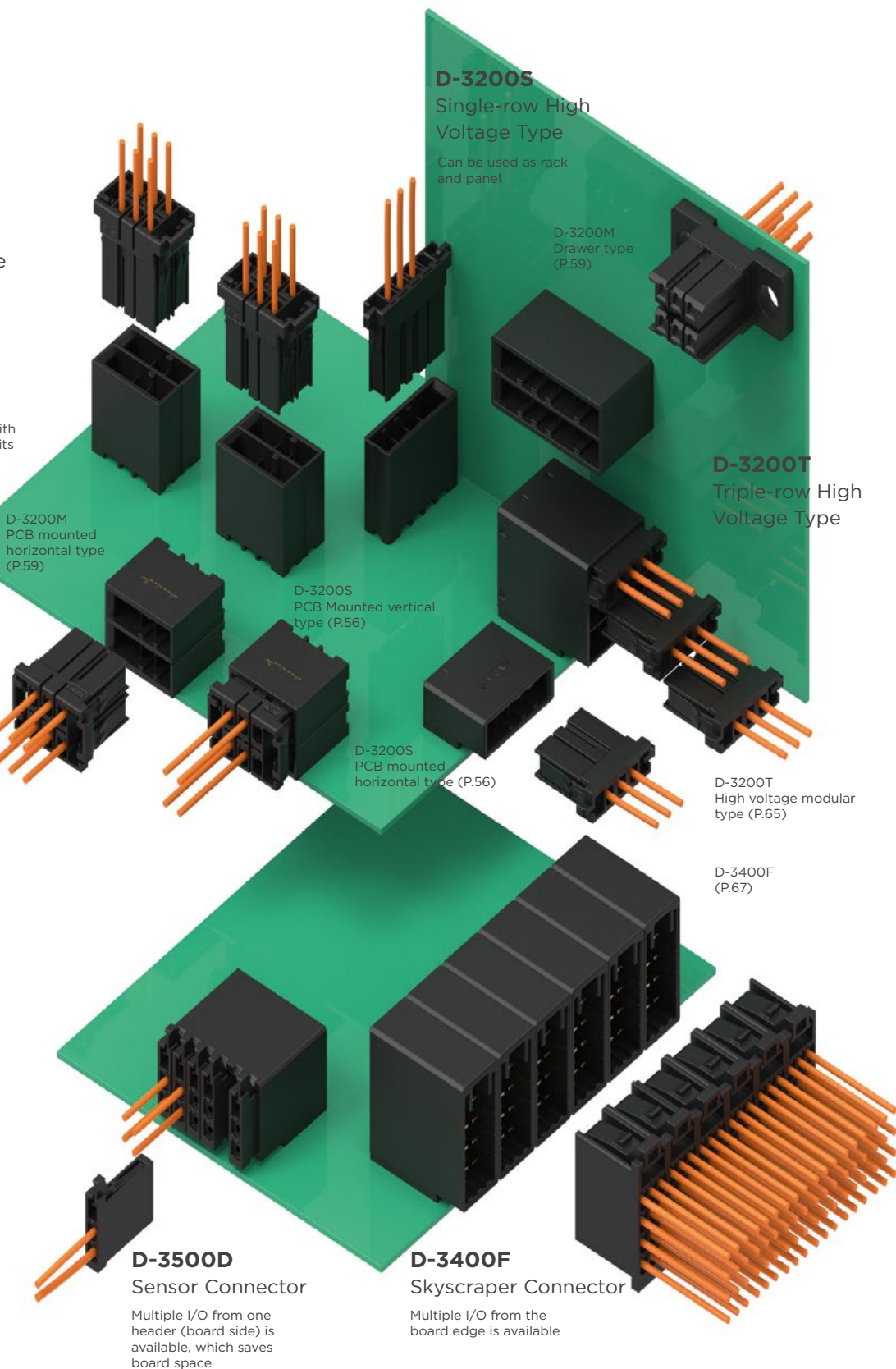
All connector forms are provided, from the wire-to-wire panel type and free hanging type to the wire-to-board horizontal type and vertical type. Each position can carry a maximum current of up to 15A.



D-3000 Series Configurations

D-3200M
High Voltage
Modular
Suitable for high
voltage circuits

D-3200M
Suitable for use with
high voltage circuits
(P.59)



D-3200S
Single-row High
Voltage Type
Can be used as rack
and panel

D-3200M
Drawer type
(P.59)

D-3200T
Triple-row High
Voltage Type

D-3200M
PCB mounted
horizontal type
(P.59)

D-3200S
PCB Mounted vertical
type (P.56)

D-3200S
PCB mounted
horizontal type (P.56)

D-3200T
High voltage modular
type (P.65)

D-3400F
(P.67)

D-3500D
Sensor Connector
Multiple I/O from one
header (board side) is
available, which saves
board space

D-3400F
Skyscraper Connector
Multiple I/O from the
board edge is available

D-3000 Series Contact

Crimped type



Receptacle Contact
(used in receptacle housing)

Tab contact
(used in tab housing)

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

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 outer diameter of the insulation is applicable to Losse Piece terminals.For strip form, see notes 114-5148
** Sequential (FMLB) female contacts. See 114-78030 in the operating manual.

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

NOTE: all products are RoHS compliant On selection.

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

External Dimensions

- Receptacle Housing



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

- Tab Housing

Panel type



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

Free Hanging type



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

Applications

Example of elevator applications



NOTE: All products are RoHS compliant On selection.

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

Type Chart



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

Mated Dimension



External Dimensions

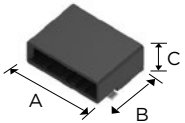
- Receptacle Housing



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

- Board-Mounting Header

Horizontal type



Pos	Key	Plating	Color	Part Number	Dimensions				
					A	B	C		
5	X	Gold	Black	1-177662-2	29.2	22.1	11.6		
8	X	Gold	Black	1-179188-2	40.7				
		Gold	Black	1-179188-3					

Vertical type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
5	X	Gold	Black	1-177665-2	29.2	9.4	22.6

NOTE: All products are RoHS compliant On selection.

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

Type Chart



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

Relative Product Information

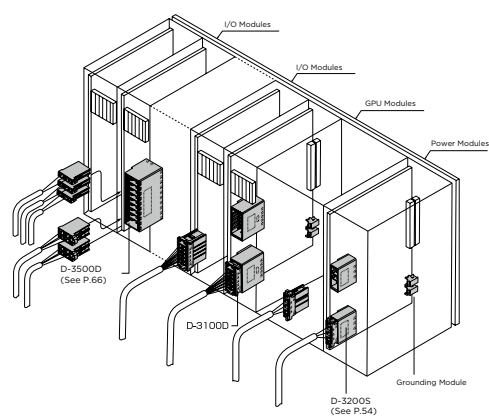
Applicable contact...P.48
Performance & Specifications...P.45
Accessories...P.126

Board-Mounting Header



Applications

Example of Programmable Controller Application



NOTE: All products are RoHS compliant On selection.

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

- Tab Housing

Panel type



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

Free Hanging type



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

*DIN rail attachment is available. P/N : 2822900-1
Applicable P/N : Δ-179552-4



NOTE: All products are RoHS compliant On selection.

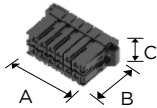
D-3200M Double-row High-voltage Modular Types -
5.08mm pin pitch

Mated Dimension



External Dimensions

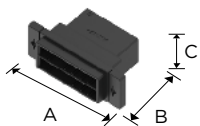
- Receptacle Housing



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

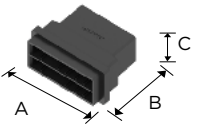
- Tab Housing

Panel type



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

Free Hanging type



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

NOTE: All products are RoHS compliant On selection.

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

Type Chart



Pos	Color	Key	Receptacle housing	Tab housing		Plating	Board-Mounting Header	
				Panel type	Free Hanging type		Horizontal type	Vertical type
6	Black	XX	1-917266-3	1-179555-3	1-179554-3	Gold	1-178139-2	1-178140-2
						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



NOTE: All products are RoHS compliant On selection.

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

Mated Dimension



External Dimensions

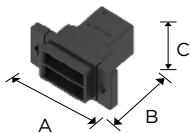
- Receptacle Housing (Drawer type)



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

- Tab Housing

Panel type



Pos	Key	Color	Part Number	Dimensions		
				A	cB	C
6	XX	Black	1-179555-3	41.9	33.6	20.3

Free Hanging type



Pos	Key	Color	Part Number	Dimensions		
				A	B	C
6	XX	Black	1-179554-3	28.1	33.6	20.3

- Board-Mounting Header

Horizontal type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	Gold	Black	1-178139-2	24.2	27.2	18.5
		Tin	Black	1-178139-3			
		Tin	Black	1-178139-5			

Vertical type



Pos	Key	Plating	Color	Part Number	Dimensions		
					A	B	C
6	XX	Gold	Black	1-178140-2	24.2	17.0	21.6
		Tin	Black	1-178140-3			
		Tin	Black	1-178140-5			

NOTE: All products are RoHS compliant On selection.

