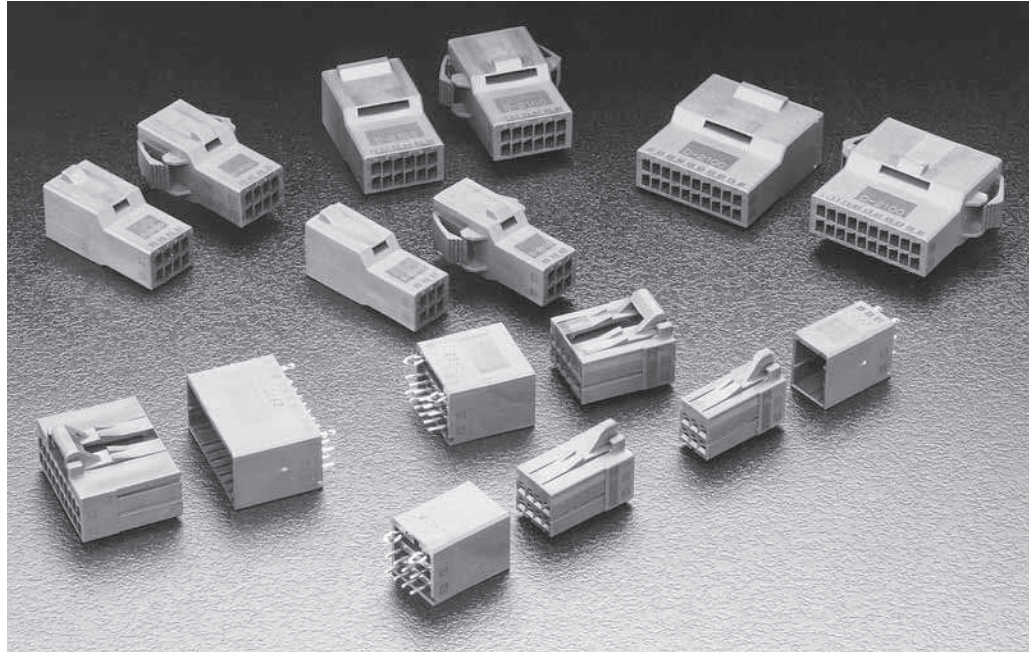


Dynamic Series Connectors

D-2000 Series

Series profile

The D-2000 series is a compact connector in the Dynamic series and has the specifications for industrial machinery. Its proprietary concept long wiping length provides the high-reliability contacts needed for industrial machinery. The lineup also includes the multi-position drawer type not in any other series, and the hybrid type that integrates signal and power lines in a single connector.



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 AWG 18 wires, which are often used in industrial equipment.

4. Lock feeling

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

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 the Dynamic series. On-board space requirements can be minimized because these connectors can be mounted in a tight pitch 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 without looking.

8. Hybrid type

For signal lines use the D-2000 connector, for power lines use the D-3000 connector. The D-2600 series combines signal and power lines in a single connector. This cuts on-board space requirements and improves maintenance.

Dynamic Series Connectors

D-2000 Series Specifications and Standards

Performance Specifications

Item	2100S/D	2100M	2600D
Pitch	2.5mm		
Current Rating	5A Max.	2.6A Max.	3.2A Max.
Voltage Rating	250V AC/DC		
Dielectric Withstanding Voltage	1500V AC	2300V AC	1500V AC
Contact Resistance	5mΩ Max. (initial) 10mΩ Max. (Final)		
Insertion Force	4.9N Max. (per position)		
Extraction Force	0.29N Min. (per position)		
Durability	500 Cycles		
Housing Lock Strength	39.2N Min	—	98N Min

Positions/wire size/current rating

Values for D-2100S/D

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

Specifications and Instruction Sheet

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

Refer to the specifications on page 372 for the D-3000 connector used with the D-2600D.

Don't fail to obtain Instruction Sheets when you choose to use these tools. Orders can be placed through our online catalogs also.

Material and Finish

Description	Material	Finish
Receptacle contact Tab contact	Copper alloy	Contact area 0.38μm min Gold plated underplated Nickel
Tab post	Copper alloy	Contact area 0.38μm min Gold plated Contact tail Tin plated underplated Nickel
Housing	UL94V-0, Glass filled thermoplastic polyester (PBT)	

Safety Specifications

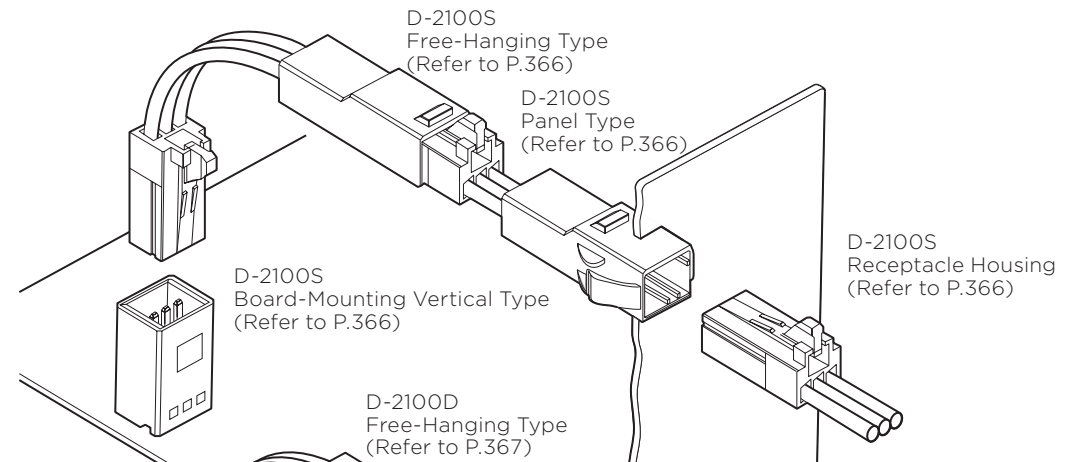
The safety specifications listed below are approved on specific part numbers. Contact our Sales Department to check if the part numbers you use are approved or not. Keep in mind that there are instances where values differ from those given by Product Specification.

Series Specifications	D-2100 Series			D-2100M Drawer Type		
	Voltage Rating	Current Rating	Temperature Rating	Voltage Rating	Current Rating	Temperature Rating
Product Specification 108-5619 (Standard) 108-5659 (Drawer Type)	250V AC/DC	5A (1 position)	−55°C~+105°C	250V AC/DC	2.6A [with AWG#20 50 position]	−55°C~+105°C
UL File No.E28476	Determined by requirements of equipment in use.	Determined by requirements of equipment in use.	—	Pending		
CSA Report No. LR 7189	250V AC/DC	AWG#24p#28: 3.3A AWG#18p#22: 5A	—			
TÜV License No. R 9950679	125V AC/DC	5A	−55°C~+105°C			

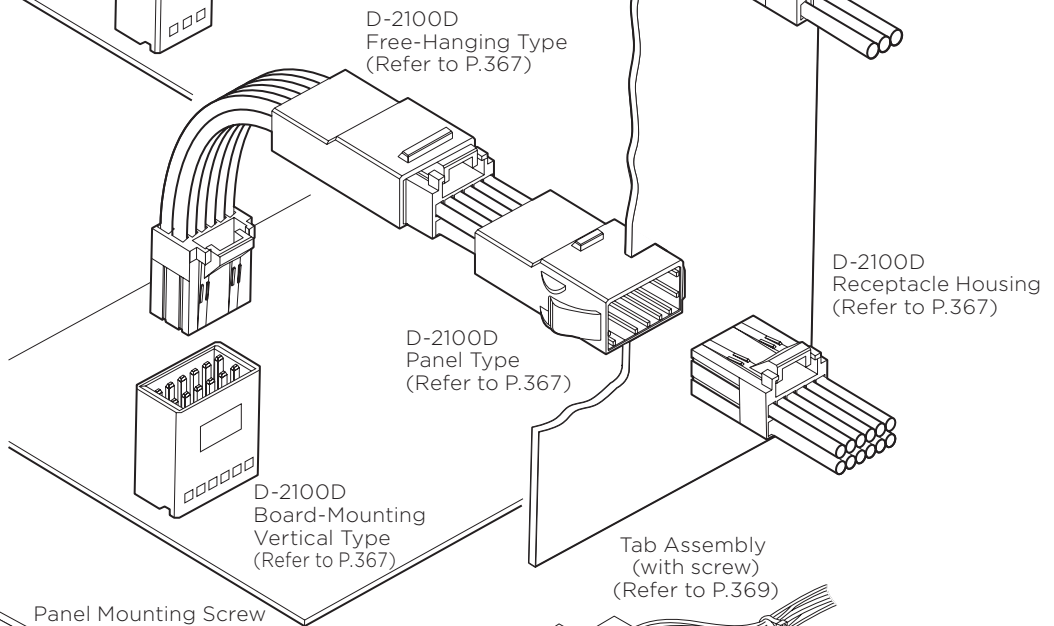
Dynamic Series Connectors

D-2000 Series List of Dynamic Series Products by Application

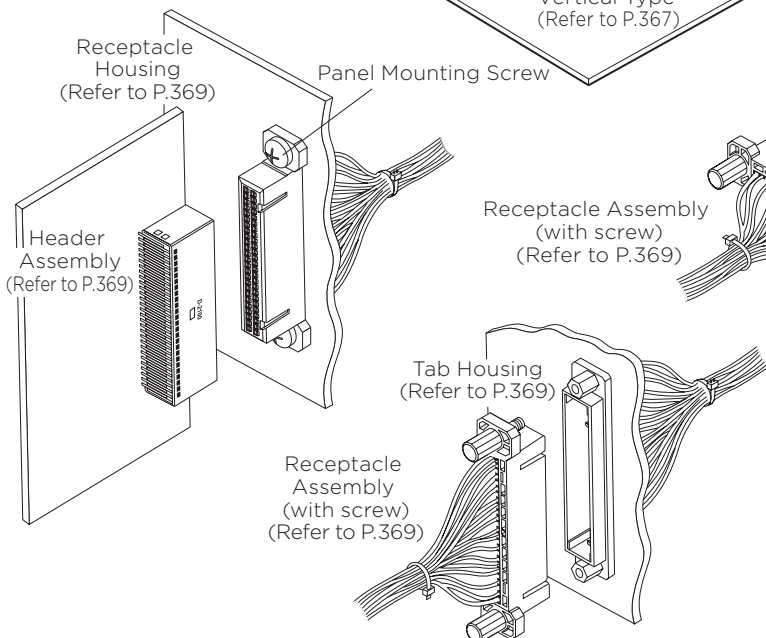
D-2100S 1 Row Type



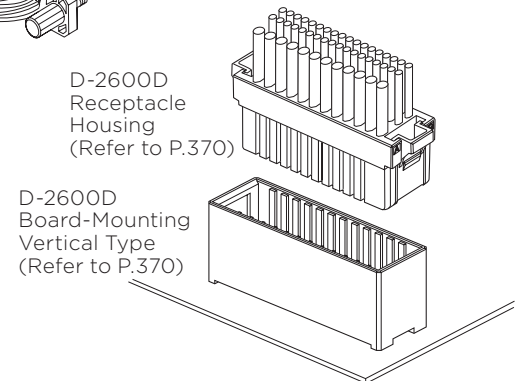
D-2100D 2 Row Type



D-2100M Drawer Type



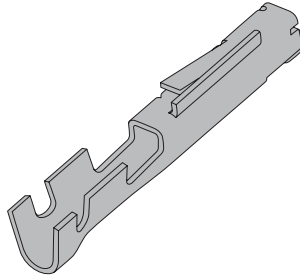
D-2600D Dual Row Combined Type



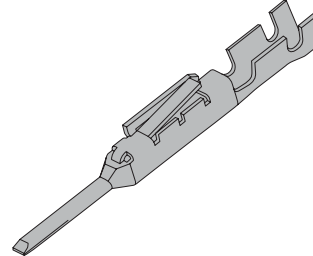
Dynamic Series Connectors

D-2 Contact

- Crimp Type
(Gold Plated: 0.38 μ m)



Receptacle Contact
(Used on Receptacle Housing)



Tab Contact
(Used on Tab Housing)

Applicable Wire		Wire Ins. Diameter mm	Wire Range Mark	Contact Part Number			Tool Part Number	
AWG	mm ²			Receptacle Contact		Tab Contact	Mini-Applicator	Hand Tool
28 26 24	0.08 0.12 0.20	0.88~1.5	S	Strip Form	1318106-1	1318110-1	1426681-2	—
				Loose Piece	1318108-1	1318112-1	—	91576-1
22 20 18	0.30 0.50 0.85	1.3~1.9	M	Strip Form	1318105-1	1318109-1	1426555-2	—
				Loose Piece	1318107-1	1318111-1	—	91595-1

Note :

- Minimum order quantity is provided. When ordering, specify your requirements by multiplying the quantity. (The figures for Strip Form Contacts denote one-reel's quantities.)

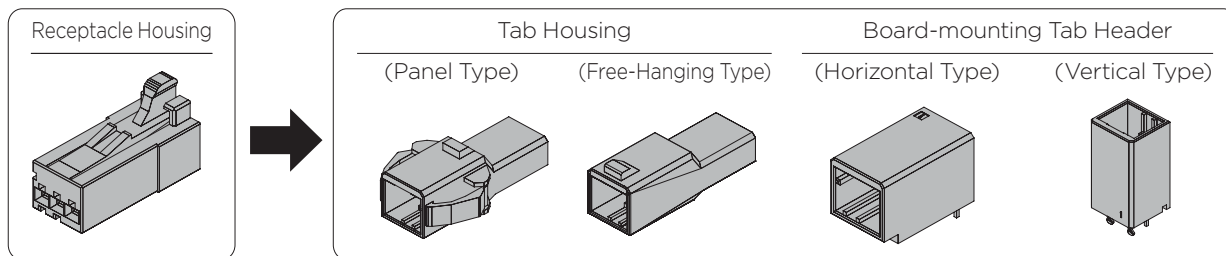
- Mini-Applicators are for use with automachines. (Refer to P.437)
- Strip Form contacts are for use with Mini-Applicators (automachines) and Loose-Piece contacts are for Hand tools.

The receptacle contacts can be used with all receptacle housings, and tab contacts can be used with all tab housings. See from page 437 for details on applicable tools.

Dynamic Series Connectors

D-2100S — Standard 1 Row Type

Part Number Chart



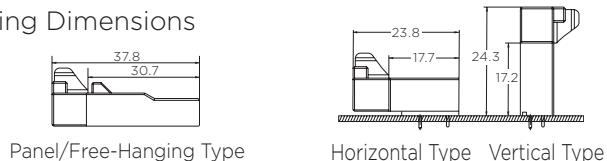
No. of Pos.	Color	Keying	Receptacle Housing	Plating	Tab Housing		Board-mounting Tab Header	
					Panel Type	Free-Hanging Type	Horizontal Type	Vertical Type
3	Black	X	1-1318120-3	Gold	1-1318116-3	1-1318117-3	1376135-1	1318123-1
	Black	Y	2-1318120-3	Gold	2-1318116-3	2-1318117-3	1376135-2	1318123-2
	Black	Z	3-1318120-3	Gold	—	—	1376135-3	—
	Black	X	1-1473074-3*	Gold	—	—	—	1-1318123-1

* Drawer Type

Information about related products

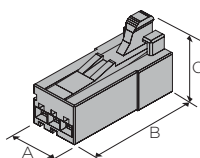
Applicable Contact Refer to P.365
Performance Specifications... Refer to P.363

Mating Dimensions



Dimensions

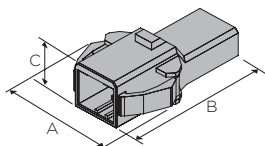
■ Receptacle Housing



No. of Pos.	Keying	Plating	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			11.8

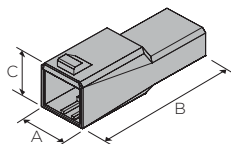
■ Tab Housing

Panel Type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	—	Black	1-1318116-3	19.7	30.7	9.5
	Y	—	Black	2-1318116-3			

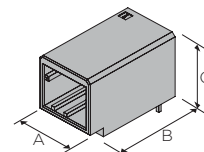
Free-Hanging Type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	—	Black	1-1318117-3	10.2	30.7	9.5
	Y	—	Black	2-1318117-3			

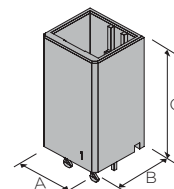
■ Board-mounting Tab Header

Horizontal Type



No. of Pos.	Keying	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

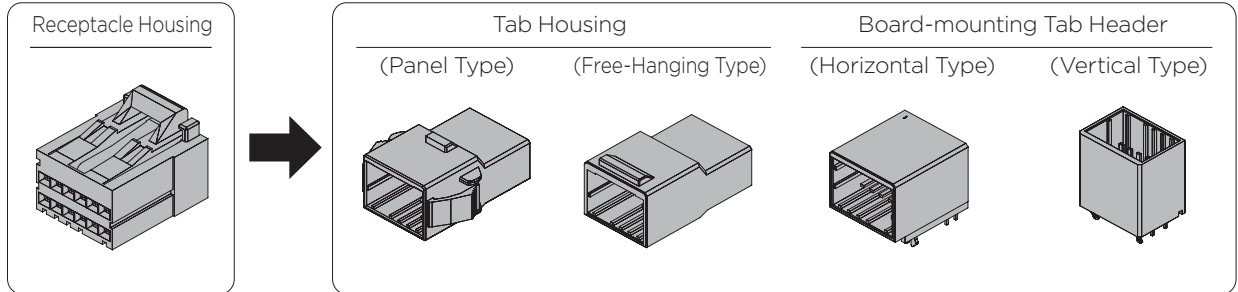


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
3	X	Gold	Black	1318123-1	10.2	9.5	17.8
		Gold	Black	1-1318123-1			
	Y	Gold	Black	1318123-2			

Dynamic Series Connectors

D-2100D — Standard 2 Row Type

Part Number Chart



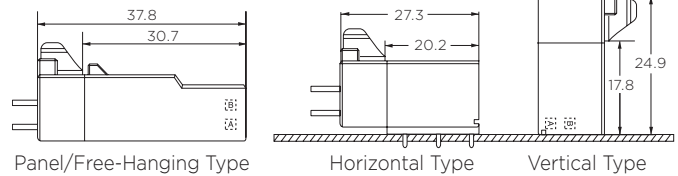
No. of Pos.	Color	Keying	Receptacle Housing	Plating	Tab Housing		Board-mounting Tab Header	
					Panel Type	Free-Hanging Type	Horizontal Type	Vertical Type
6	Black	X	1-1318119-3	Gold	1-1318114-3	1-1318115-3	1376136-1	1318124-1
	Black	Y	2-1318119-3	Gold	2-1318114-3	2-1318115-3	1376136-2	1318124-2
8	Black	X	1-1318119-4	Gold	1-1318114-4	1-1318115-4	1376009-1	1318125-1
	Black	Y	2-1318119-4	Gold	2-1318114-4	2-1318115-4	1-1376009-1*	1-1318125-1*
							1376009-2	1318125-2
								1-1318125-2*
12	Black	X	1-1318118-6	Gold	1-1318114-6	1-1318115-6	1376020-1	1318126-1
	Black	Y	2-1318118-6	Gold	2-1318114-6	2-1318115-6	1376020-2	1-1318126-1*
								1318126-2
	Black	Z	3-1318118-6	Gold	—	—	—	1-1318126-2*
16	Black	X	1-1318118-8	Gold	—	—	—	1318126-3
	Black	Y	2-1318118-8	Gold	—	—	—	1747994-1
20	Black	X	1-1318118-9	Gold	1-1318114-9	1-1318115-9	1376137-1	1747994-2
	Black	Y	2-1318118-9	Gold	2-1318114-9	2-1318115-9	1376137-2	1318127-1
								1318127-2

* Sequential Type

Information about related products

Applicable Contact Refer to P.365
Performance Specifications... Refer to P.363

Mating Dimensions

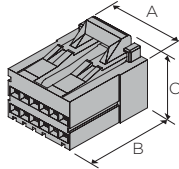


Dynamic Series Connectors

D-2100D — Standard 2 Row Type

Dimensions

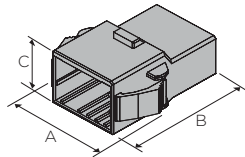
■ Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	—	Black	1-1318119-3	8.3	20.0	15.8
	Y	—	Black	2-1318119-3			
8	X	—	Black	1-1318119-4	10.8	20.0	15.8
	Y	—	Black	2-1318119-4			
12	X	—	Black	1-1318118-6	15.8	20.0	14.8
	Y	—	Black	2-1318118-6			
	Z	—	Black	3-1318118-6			
16	X	—	Black	1-1318118-8	20.8	20.0	14.8
	Y	—	Black	2-1318118-8			
20	X	—	Black	1-1318118-9	25.8	20.0	14.8
	Y	—	Black	2-1318118-9			

■ Tab Housing

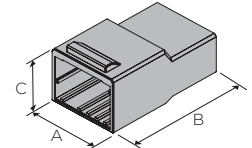
Panel Type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	—	Black	1-1318114-3	19.7	30.7	13.2
	Y	—	Black	2-1318114-3			
8	X	—	Black	1-1318114-4	22.2	30.7	13.2
	Y	—	Black	2-1318114-4			
12	X	—	Black	1-1318114-6	27.2	30.7	13.2
	Y	—	Black	2-1318114-6			
20	X	—	Black	1-1318114-9	37.2	30.7	13.2
	Y	—	Black	2-1318114-9			

■ Tab Housing

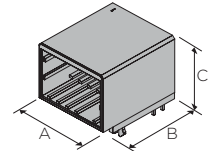
Free-Hanging Type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	Gold	Black	1-1318115-3	10.2	30.7	10.7
	Y	Gold	Black	2-1318115-3			
8	X	Gold	Black	1-1318115-4	12.7	30.7	10.7
	Y	Gold	Black	2-1318115-4			
12	X	Gold	Black	1-1318115-6	17.7	30.7	10.7
	Y	Gold	Black	2-1318115-6			
20	X	Gold	Black	1-1318115-9	27.7	30.7	10.7
	Y	Gold	Black	2-1318115-9			

■ Board-mounting Tab Header

Horizontal Type

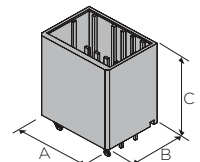


No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	Gold	Black	1376136-1	10.2	20.2	14.7
	Y	Gold	Black	1376136-2			
8	X	Gold	Black	1376009-1	12.7	20.2	14.7
	Y	Gold	Black	1-1376009-1*			
12	X	Gold	Black	1376020-1	17.7	20.2	14.7
	Y	Gold	Black	1376020-2			
20	X	Gold	Black	1376137-1	27.7	20.2	14.7
	Y	Gold	Black	1376137-2			

* Sequential Type

■ Board-mounting Tab Header

Vertical Type



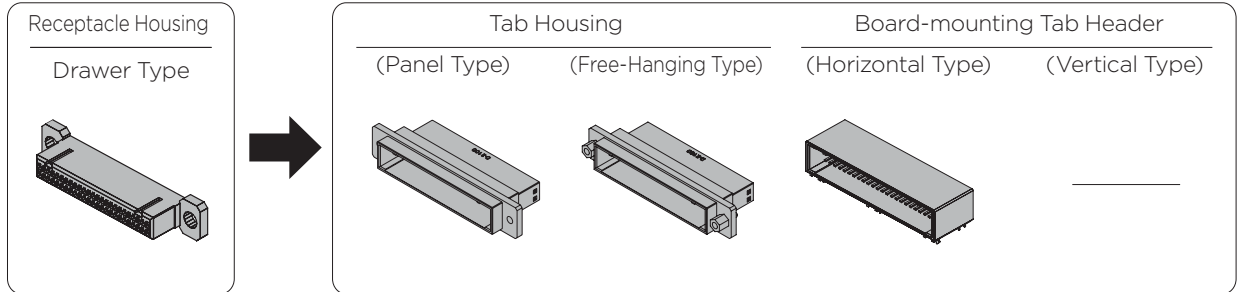
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
6	X	Gold	Black	1318124-1	10.2	13.2	17.8
	Y	Gold	Black	1318124-2			
8	X	Gold	Black	1318125-1	12.7	13.2	17.8
	Y	Gold	Black	1-1318125-1*			
12	X	Gold	Black	1318126-1	17.7	13.2	17.8
	Y	Gold	Black	1-1318126-1*			
	Z	Gold	Black	1318126-3			
16	X	Gold	Black	1747994-1	22.7	13.2	17.8
	Y	Gold	Black	1747994-2			
20	X	Gold	Black	1318127-1	27.7	13.2	17.8
	Y	Gold	Black	1318127-2			

* Sequential Type

Dynamic Series Connectors

D-2100M — Dual Row Standard Multi Position Type (Drawer)

Part Number Chart

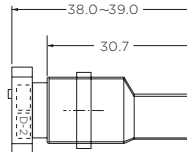


No. of Pos.	Color	Keying	Receptacle Housing		Plating	Tab Housing		Board-mounting Tab Header	
			Type	Part Number		Panel Type	Free-Hanging Type	Horizontal Type	Vertical Type
50	Black	—	Drawe	1318577-1	Gold	1318578-1 1318578-2 (With nut)	—	1318579-1	—
	Black	—	Drawer (With screw)	1376072-2	—	—	1376073-2	—	—

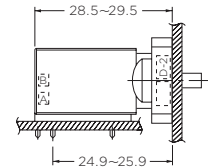
Information about related products

Applicable Contact Refer to P.365
Performance Specifications... Refer to P.363
Accessory..... Refer to P.442

Mating Dimensions

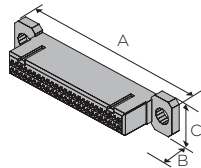


Panel/Free-Hanging Type



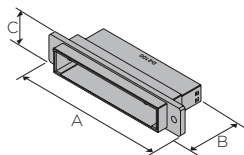
Dimensions

- Receptacle Housing
- Receptacle Assembly (with Movable Head screw)



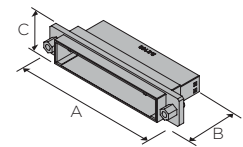
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
50	—	—	Black	1318577-1	88.5	20.0	16.6
50	—	—	Black	1376072-2	88.5	32.0	16.6

- Tab Housing Panel Type



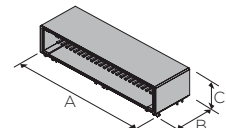
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
50	—	—	Black	1318578-1	86.1	30.7	15.9
	—	—	Black	1318578-2 (With nut)			

- Tab Assembly (with Fixed Head screw) Free-Hanging Type



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

- Board-mounting Tab Header Horizontal Type



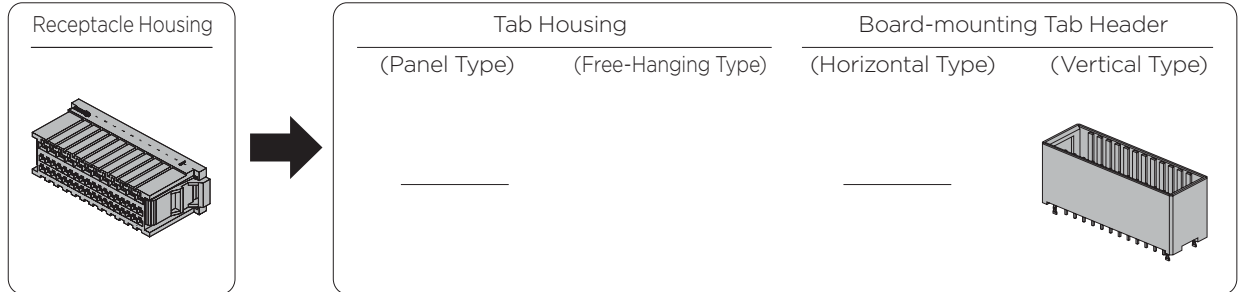
No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
50	—	Gold	Black	1318579-1	68.5	21.1	15.4

Note: All Part Numbers are RoHS compliant.

Dynamic Series Connectors

D-2600D — Dual Row Combined Type

Part Number Chart

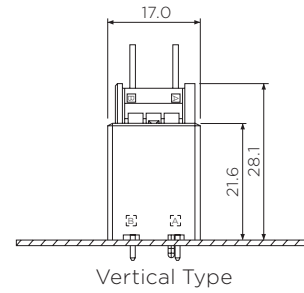


No. of Pos.	Color	Keying	Receptacle Housing	Plating	Tab Housing		Board-mounting Tab Header	
					Panel Type	Free-Hanging Type	Horizontal Type	Vertical Type
48	Black	—	1827540-1	Gold	—	—	—	1827538-1

Information about related products

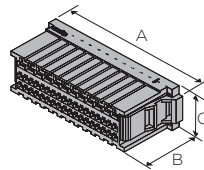
Applicable Contact Refer to P.365
Performance Specifications... Refer to P.363

Mating Dimensions



Dimensions

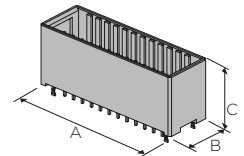
■ Receptacle Housing



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
48	—	—	Black	1827540-1	58.7	22.8	15.8

■ Board-mounting Tab Header

Vertical Type



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
48	—	Gold	Black	1827538-1	55.9	18.0	21.6