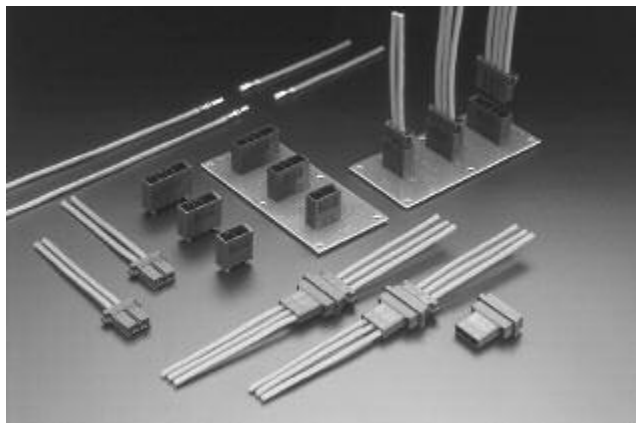


D-4000 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

Product Facts

- 20A of current is achievable with the use of 3-position connectors
- Newly designed contacts with four contact points
- Dynamic 4000 Series achieved a 50% or greater improvement in current values compared with the Dynamic 3000 Series. At the same time, mating height increased only approximately 14%
- Current capacity per unit volume is also higher by approximately 32%
- Wire-to-board type (2-, 3- and 4-position) and wire-to-wire type (3-position). This flexible line-up will help meet customer demands. Sequential pins are also available.



Material and Finish

Receptacle Contact — Phosphor bronze or copper alloy, gold plated with 0.38 μ m nickel underplate

Tab Contact — Phosphor bronze or copper alloy, gold plated with 0.38 μ m nickel underplate

Tab Post — Phosphor bronze or copper alloy, tin plated on contact area and gold plated with nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

Pitch — 6.35 mm (250 mils)

Voltage Rating — 600 V (rms)

Current Rating — 2-position: 24 A; 3-position: 23 A; 4-position: 22 A (when using #12 AWG wire)

Contact Resistance — 10 m Ω Max.

Dielectric Withstanding Voltage — 2,500 V (1 minute)

Operating Temperature — -55°C ~ +105°C

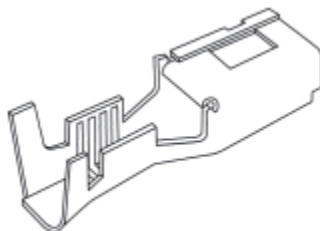
Technical Documents

Product Specification
108-78182

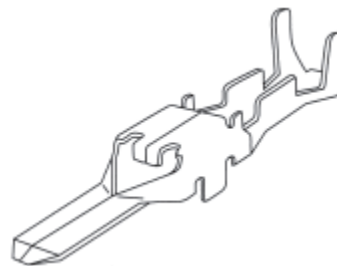
Application Specification
114-5362

D-4 Contact

0.38 μ m thick gold plating



Receptacle Contact
(Used in Receptacle Housing)



Tab Contact
(Used in Tab Housing)

Applicable Wire Range		Ins. Dia. Range mm	Wire Range Mark	Contact Part Numbers			Application Tooling	
AWG	mm ²			Receptacle	Tab	Sequential Long Tab	Mini-Applicator	Hand Tool
16	1.25	2.0~3.75	M	ST. 1747418-2	1747419-2	1-1747419-2	1762120-2	—
14	2.20			LP. 1747499-2	1747501-2	1-1747501-2	—	1762130-1
14	2.20	2.9~4.1	L	ST. 1747415-2	1747416-2	1-1747416-2	1762119-2	—
12	3.50			LP. 1747498-2	1747500-2	1-1747500-2	—	1762129-1

Notes: Minimum order quantity for tooling is one.

Extraction Tool Part Number 1762461-1 (411-78186)

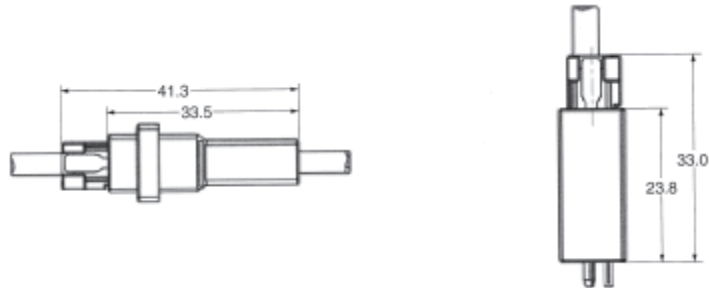
Mini-Applicator is for use on Automachine.

Strip Form contacts are used with Mini-Applicator and Loose-Piece contacts are with hand tools.

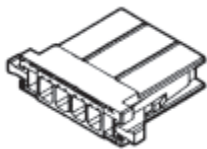
D-4000 Series (Continued)

D-4200

Mating Dimensions



Receptacle Housing



Mating Tab Housings

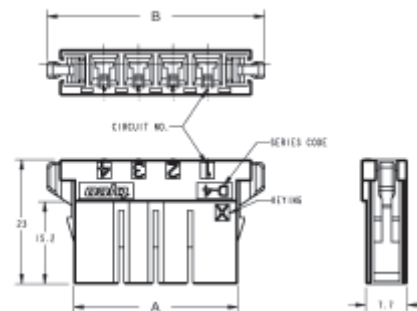
Part Number:

□-1747535-□

□-1747414-□

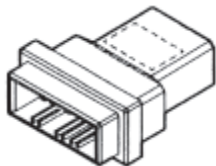
□-1747277-□

No. of Pos.	Part Number		Dimensions	
	Keying : X	Keying : Y	A	B
2	1-1747276-2	2-1747276-2	17.55	27.35
3	1-1747276-3	2-1747276-3	23.90	33.70
4	1-1747276-4	2-1747276-4	30.25	40.05



Tab Housing

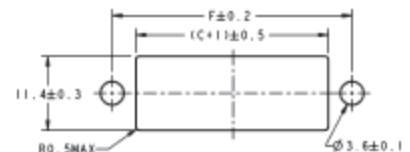
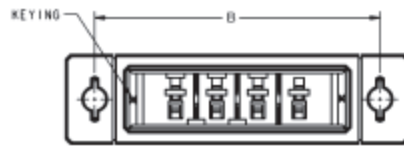
Free-hanging Type



Mating Receptacle Housing

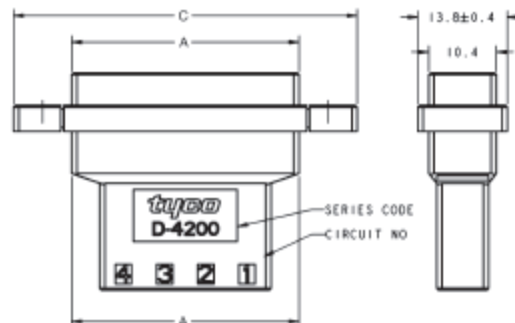
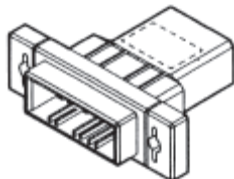
Part Number:

□-1747276-□



Panel Cutout

Panel Type



No. of Pos.	Part Number Keying : X		Part Number Keying : Y		Dimensions		
	Panel Type	Free-hanging Type	Panel Type	Free-hanging Type	A	B	C*
3	1-1747535-3	1-1747414-3	2-1747635-3	2-1747414-3	28.7	32.7	46.0

*Applicable to Panel Type only.

D-4000 Series (Continued)

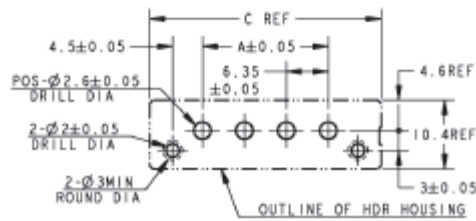
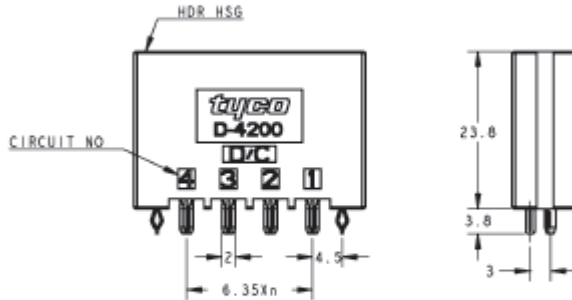
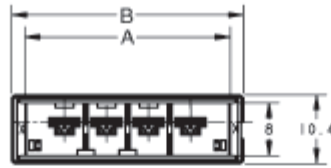
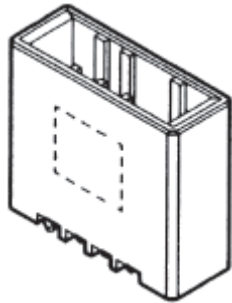
D-4200 (Continued)

Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing

Part Number:

□-1747276-□



PC Board Layout

Acceptable Board Thickness:
1.6-2.4

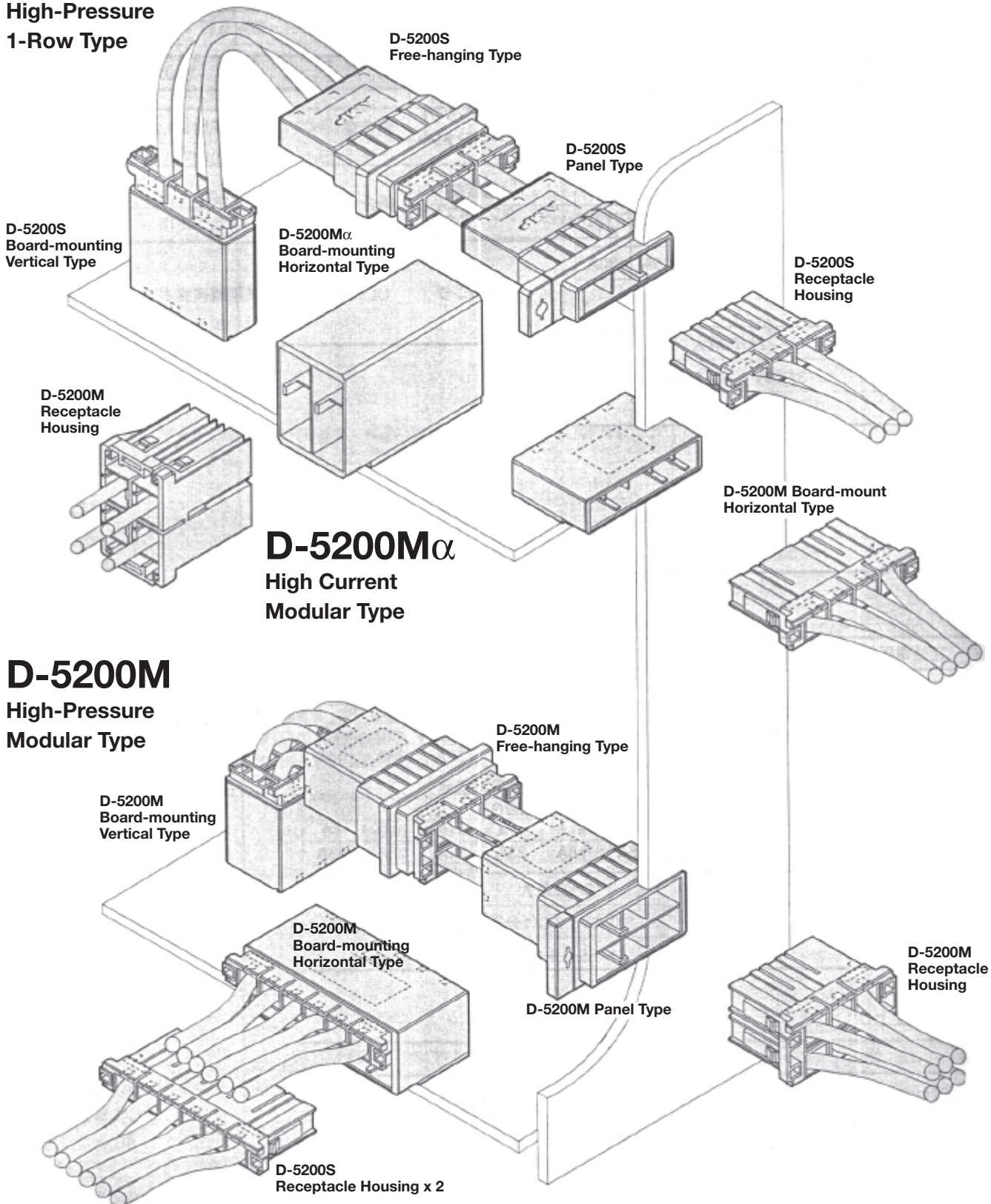
No. of Pos.	Part Number		Dimensions	
	Keying : X	Keying : Y	A	B
2	1-1747277-2	2-1747277-2	18.35	22.35
3	1-1747277-3	2-1747277-3	24.70	28.70
4	1-1747277-4	2-1747277-4	31.05	35.05

D-5200 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

D-5200S

High-Pressure
1-Row Type

List of Dynamic Series Products by Application



D-5000 Series

D-5200M

High-Pressure
Modular Type

D-5200 Series (Continued)

Performance Characteristics and Specifications

D-5200S/M Performance Characteristics

Pitch	400mils (10.16mm)				
Description					
Voltage Rating	630V AC				
Current Rating	Wire	AWG			
		#16	#14	#12	#10
	Current	16A	19A	25A	30A
	6 position max.				
Contact Resistance	2mΩ Max.				
Dielectric Withstanding Voltage	3,000V AC (1 minute)				
Operating Temperature	-55°~+105°C				

Material and Finish

Description	Material	Finish
Receptacle Contact Tab Contact	Copper alloy	Gold plating with underplated nickel
Tab Post	Copper alloy	Gold plating with underplated nickel
Housing	UL 94V-0 rated, glass filled polyester (PBT)	

D-5200Mα Performance Characteristics

Pitch Description	400mils (10.16mm)																																														
Voltage Rating	630V AC																																														
Current Rating	Current for 3-pos. silver-plated contacts <table><tr><td rowspan="2">Wire</td><td colspan="7">AWG</td></tr><tr><td>#20</td><td>#18</td><td>#16</td><td>#14</td><td>#12</td><td>#10</td><td>#8</td></tr><tr><td>Current</td><td>12A</td><td>16A</td><td>20A</td><td>25A</td><td>33A</td><td>38A</td><td>45A</td></tr></table> Current for 4-pos. silver-plated contacts <table><tr><td rowspan="2">Wire</td><td colspan="7">AWG</td></tr><tr><td>#20</td><td>#18</td><td>#16</td><td>#14</td><td>#12</td><td>#10</td><td>#8</td></tr><tr><td>Current</td><td>12A</td><td>15A</td><td>18A</td><td>23A</td><td>31A</td><td>35A</td><td>43A</td></tr></table>	Wire	AWG							#20	#18	#16	#14	#12	#10	#8	Current	12A	16A	20A	25A	33A	38A	45A	Wire	AWG							#20	#18	#16	#14	#12	#10	#8	Current	12A	15A	18A	23A	31A	35A	43A
Wire	AWG																																														
	#20	#18	#16	#14	#12	#10	#8																																								
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Wire	AWG																																														
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Dielectric Withstanding Voltage	3,000V AC (1 minute)																																														
Operating Temperature	-55°~+105°C																																														

Material and Finish

Description	Material	Finish
Receptacle Contact Tab Contact	Copper alloy	Silver plating with underplated nickel
Tab Post	Copper alloy	Silver plating with underplated nickel
Housing	UL 94V-0 rated, glass filled polyester (PBT)	

D-5200 Series (Continued)

Performance Characteristics and Specifications (Continued)

Technical Documents Specifications and Instruction Sheets

Product Specification		108-5453
Test Report		501-5188
Application Specification		114-5206
Hand Tool Instruction Sheets	Crimping Tool P/N : 234170-1	411-5712
	Crimping Tool P/N : 234171-1	411-5713
	Crimping Tool P/N: 1366656-1	411-5969
	Crimping Tool P/N: 1366044-1	411-5976
Extraction Tool (Part Number 409158-1) Instruction Sheet		411-5774

*Don't fail to obtain Instruction Sheets and other appropriate papers when you adopt our products.

Safety Specifications

The following safety specifications are applicable to specific Part Numbers.

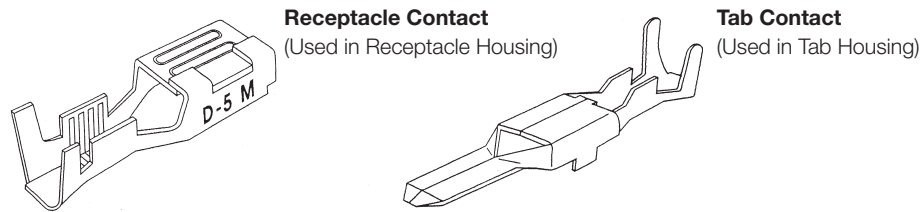
Contact Technical Support to check if approval is given for each Part Number you are using.

Note that there are instances where values differ from those given in Tyco Electronics Performance Data.

	D-5200 Series (400 mil, 10.16mm pitch)			D-5200Mα Series					
	Voltage Rating	Current Rating	Temperature Rating	Voltage Rating	Current Rating	Temperature Rating			
Specification 108-5453	630V AC	See preceding page	-55°~+105°C	—	See preceding page	-55°~+105°C			
UL File No. E28476 (Recognized Component)	Determined by requirements of equipment in use.	Determined by requirements of equipment in use.	—	—	Determined by requirements of equipment in use.	—			
CSA Report No. LR7189	600V AC	AWG	A	—	—	—			
		16	13						
		14	18						
		12	25						
		10	30						
TÜV License No. R9650368 IP Protection IP-10 Overvoltage Classification (II) Number of repeated insertions and withdrawals allowed: 50 times.	600V AC			-30°~+105°C	—	AWG	Pos.		-30°~+105°C
		AWG	A						
		16	15			20	12.5	12.5	
		14	20			18	17.5	16	
		12	25			16	21	19.5	
		10	30			14	26	24	
						12	33	31	
						10	40	37.5	
						8	48	46	

D-5200 Series (Continued)

Crimp Type Contacts



D-5 Contacts

Wire Range		Ins. Dia. Range mm	Wire Range Mark	Contact Part Numbers*			Application Tooling	
AWG	mm ²			Receptacle	Tab	Sequential Tab	Mini-Applicator	Hand Tool
16	1.25	3~3.8	S	ST. 179955-□	917802-□	84696-1	**	—
14	2.20			LP. 316040-□	917804-□	—	—	234170-1
12	3.50	4~5.2	M	ST. 179956-□	917803-□	84695-1	**	—
10	5.50			LP. 316041-□	917805-□	—	—	234171-1

Note: Enter the following plating code in Part Number suffix-□:
 -2 = 0.38 µm thick gold plating, -3 = 0.76µm thick gold plating,
 -6 = 2.54 µm thick silver plating

* Strip Form contacts are used with Mini-Applicator and Loose-Piece contacts are with hand tools.

**Mini-Applicator is for use on Automachines. (See next page. Contact Technical Support for details.)

D-5α Contacts (Silver Plating)

Wire Range		Ins. Dia. Range mm	Wire Range Mark	Contact Part Numbers*		Application Tooling	
AWG	mm ²			Receptacle		Mini-Applicator	Hand Tool
20	0.50	1.8~3.23	SS	ST. 1318985-6		**	—
16	1.25			LP. 1318986-6		—	91596-1
16	1.25	3~3.80	S	ST. 179955-6		**	—
14	2.20			LP. 316040-6		—	234170-1
12	3.50	4~5.2	M	ST. 179956-6		**	—
10	5.50			LP. 316041-6		—	234171-1
8	8.00	4.9~7.8	L	ST. 1318696-6		**	—
				LP. 1318697-6		—	1366044-1

Note: The contact part numbers with "-6" are silver plated with 2.54 µm thickness.

* Strip Form contacts are used with Mini-Applicator and Loose-Piece contacts are with hand tools.

**Mini-Applicator is for use on Automachines. (See next page. Contact Technical Support for details.)

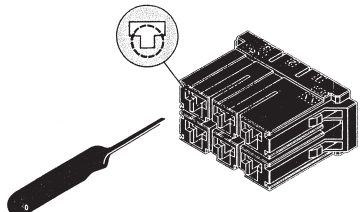
Application Tooling

Extraction Tool Part Number: 409158-1

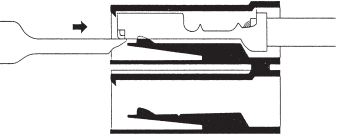
Instruction Sheet 411-5774

- Used to extract contacts from wire type tab / receptacle housing.
(Take care when inserting tool as the lance section of D-5 is turned upside down to that of D-3.)
- With D-5 contacts only, it is possible to extract using a small-size slotted screwdriver.

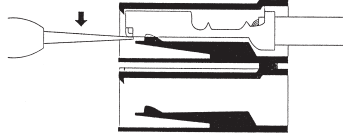
• How to Use Extraction Tool

- 
- ① Insert Extraction Tool in the direction as shown, insert into the narrow lower section of Housing's reverse convex hole. (make sure that you are holding tool in proper position, top and bottom.)
 - * Take care not to insert tool into contact section. If you've inserted by error, replace the contact with a new one before proceeding.

When Using D-5 Extraction Tool

- 
- ② The tip of Extraction Tool depresses housing lance, freeing contact.
 - ③ Contact can now be pulled out.

When Using Slotted Screwdriver

- 
- ② When you butt the tip of tool at lance section and depress it, contact is released.
 - ③ Contact can be pulled out.

D-5200 Series (Continued)

Application Tooling

(Continued)

AMP-3K/40 and AMP-5K/40 Terminating Machines

The AMP-3K/40 and AMP-5K/40 Terminators are designed for customers that require the increased output and quality of a semi-automatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

- 3,000 lb. [1361 kg] max. crimp force (AMP-3K/40)
- 5,000 lb. [2268 kg] max. crimp force (AMP-5K/40)
- Toolless removal of applicators and guards
- Jog capability
- Quiet, fast operation — 80/76 dBA and cycle time less than 0.400 seconds
- Accepts Heavy Duty Mini style applicators
- Wide range of optional equipment such as toolless precision crimp height adjust, batch counter, CQM capability and work light
- Order Catalog 1654856 for specifications and part numbers

Hand Tool

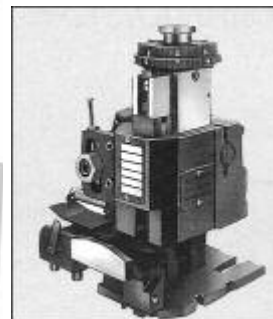
The crimping section incorporates Straight Action construction for improved reliability as with automachine.



Part No.:

See the preceding page.

Minimum order quantity: 1



Mini-Applicator

Part Number: Contact Technical Support

Minimum order quantity: 1

AMP-O-LECTRIC Model G Terminating Machine

The Model "G" Terminator is the most advanced design in the long-standing series of AMP-O-LECTRIC machines for terminating wire using reeled terminals and contacts. It features a reliable direct motor drive system. Its modular construction enables it to be used either as a bench-top unit, or in combination with fully-automatic lead-making equipment. For operator convenience, access to and lighting in the target area has been improved and the Crimp Quality Monitor (CQM) has been moved to eye level for bench-top use. The Model "G" is also quieter, plus improved guarding meets applicable European and domestic safety requirements.

- Quieter
- Improved guarding and lighting
- Toolless changeover of applicators
- Precision manual- or auto-adjust for crimp height
- Total and batch counter
- Accepts all existing Tyco Electronics miniature applicators, with minor modifications
- Reduced maintenance requirements
- Request Catalog 65828 for specifications and part numbers



Mini-Applicator

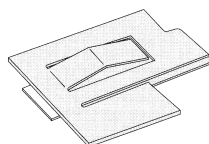
Part Number: Contact Technical Support.

Minimum order quantity: 1

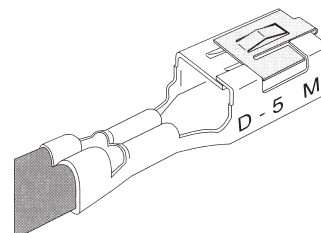
Mounting Hardware

Attachment

Sequential Clip



Part Number: 179993-1

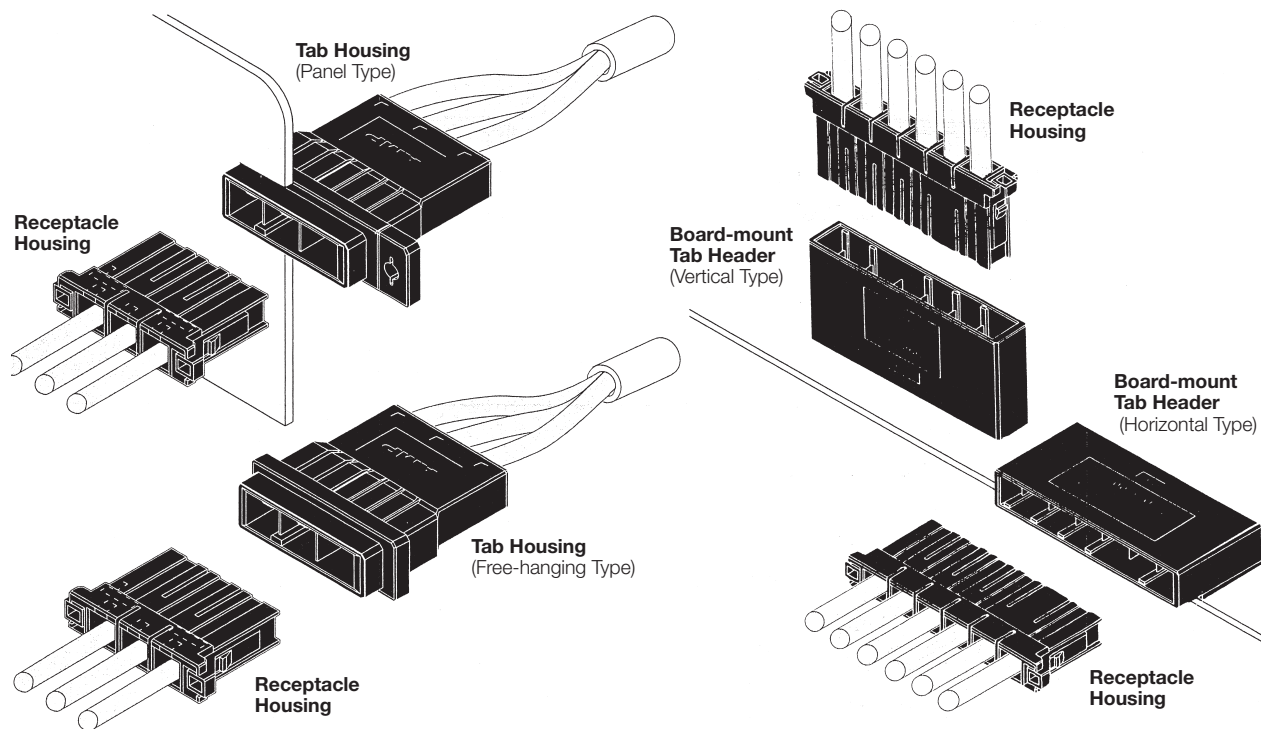


D-5200 Series (Continued)

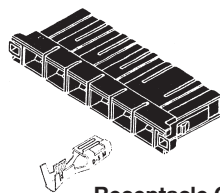
D-5200S — Standard 1-Row Type

Appearance

Board mounting pitch: 400mils (10.16mm)
Dielectric Withstanding Voltage: 3,000V (for one minute)
Voltage Rating: 630V AC



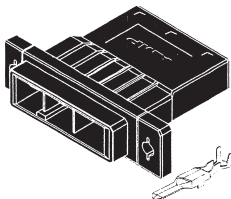
Receptacle Housing



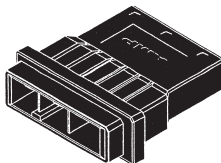
Receptacle Contact

Tab Housing

(Panel Type)



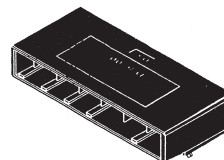
(Free-hanging Type)



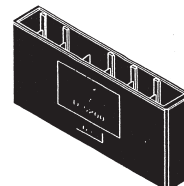
Tab Contact.....For each line of contacts, refer to the appropriate pages.

Board-mounting Tab Header

(Horizontal Type)



(Vertical Type)



No. of Pos.	Keying	Part Number of Receptacle Housings	Part Number of Tab Housings		Part Number Board-mounting Tab Headers			
			Panel Type	Free-hanging Type	Horizontal Type	Sequential Type	Vertical Type	Sequential Type
2	X	1-179958-2	1-353047-2	1-353046-2	1-353079-□	—	1-353080-□	—
	Y	2-179958-2	2-353047-2	2-353046-2	2-353079-□	—	2-353080-□	—
3	X	1-179958-3	1-353047-3	1-353046-3	1-353081-□	8-350381-2	1-353082-□	8-353082-2
	Y	2-179958-3	2-353047-3	2-353046-3	2-353081-□	9-350381-2	2-353082-□	9-353082-2
4	X	1-179958-4	Use low 4- and 6-position D-5200MS, 4- and 6-position Panel and Free-hanging Types.		1-917541-□	8-917541-2	1-917542-□	8-917542-2
	Y	2-179958-4			2-917541-□	9-917541-2	2-917542-□	9-917542-2
5	X	—			—	—	—	—
	Y	—			—	—	—	—
6	X	1-179958-6			1-179959-□	—	1-179960-□	—
	Y	2-179958-6			2-179959-□	—	2-179960-□	—

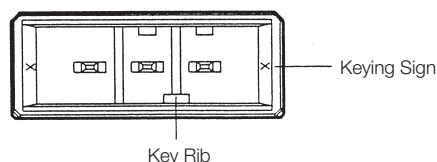
Note: Enter the following plating code in Part Number suffix-□
-2 = 0.38 μm thick gold plating
-3 = 0.76 μm thick gold plating

D-5200 Series (Continued)

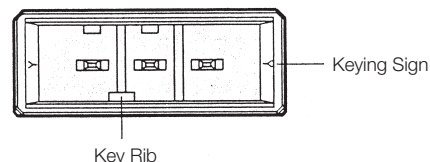
D-5200S — Standard 1-Row Type (Continued)

Keying

Keying is provided with this product (D-5200S) to help prevent misinsertion. Two types, X and Y, are available. (Shown below is the mated interface of Tab Header.)



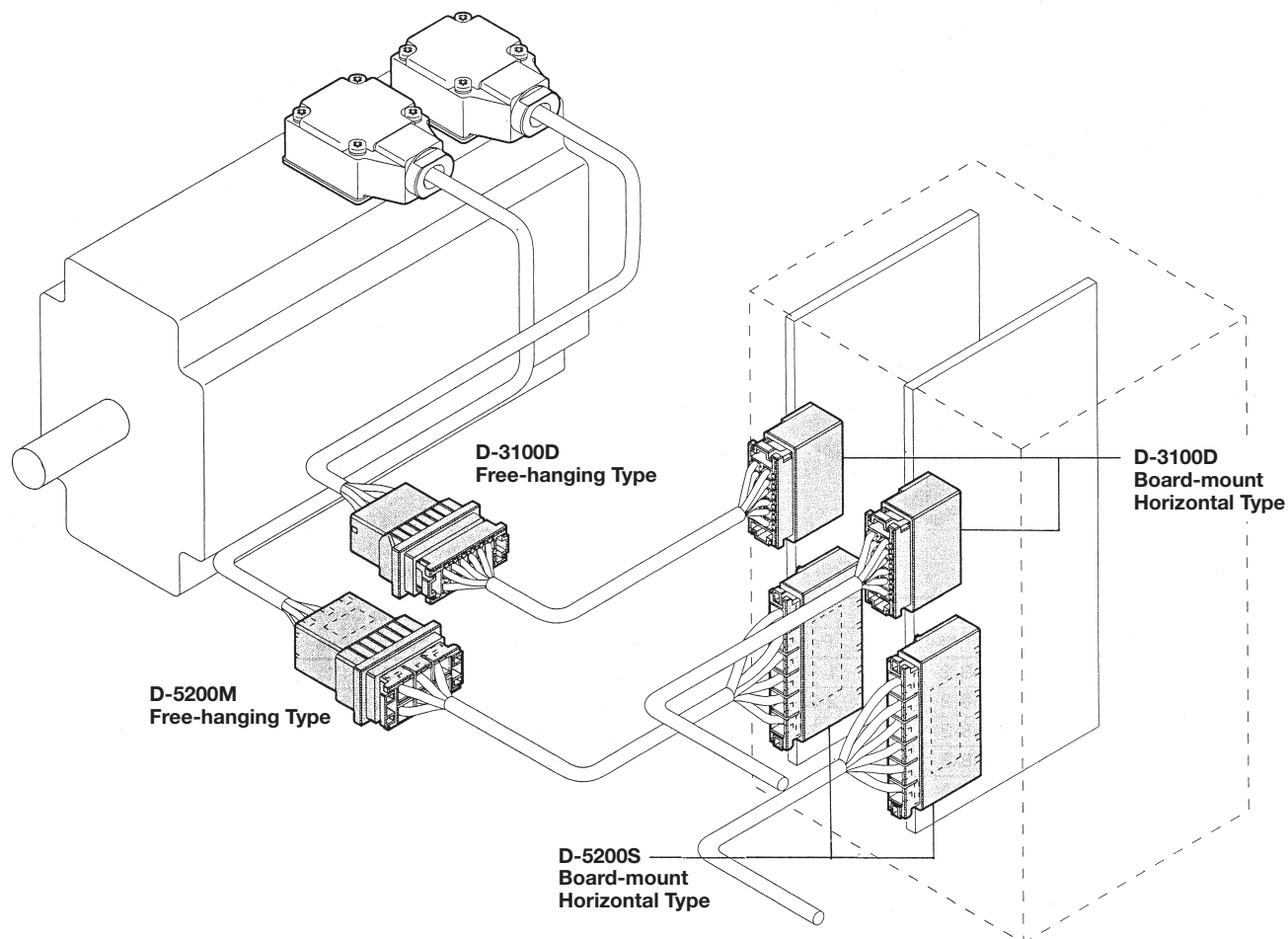
X-Type



Y-Type

Application

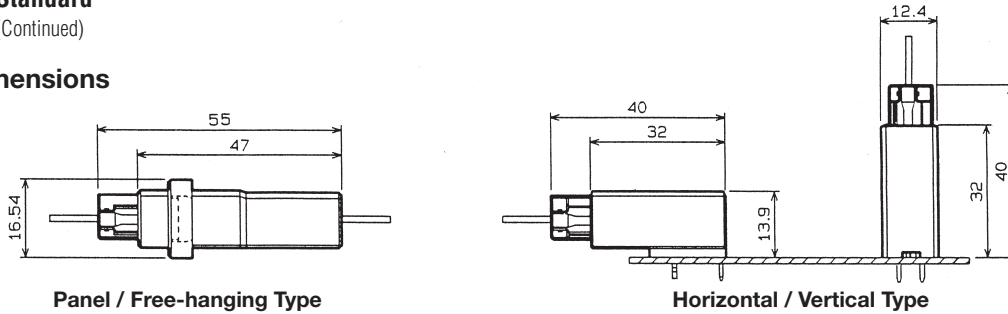
Servomotor / servodriver—Typical Application



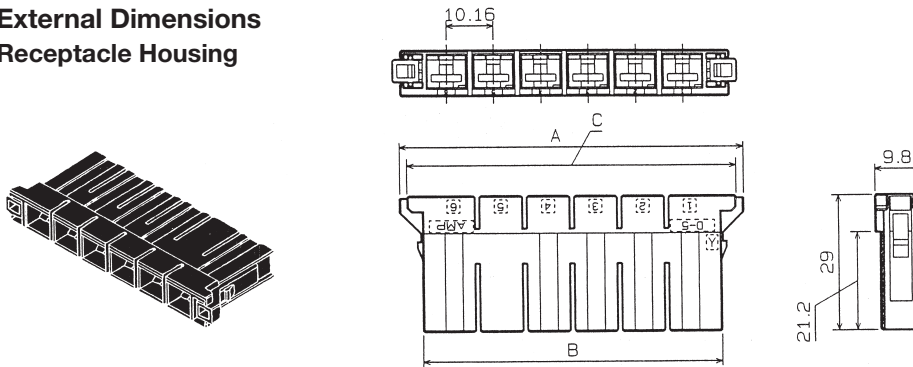
D-5200 Series (Continued)

D-5200S — Standard 1-Row Type (Continued)

Mating Dimensions



External Dimensions Receptacle Housing



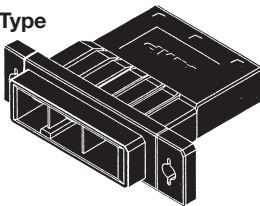
Mating Tab Connector Part Number:

□-353047-□
 □-353046-□
 □-353079-□
 □-353081-□
 □-917541-□
 □-179959-□
 □-353080-□
 □-353082-□
 □-917542-□
 □-179960-□

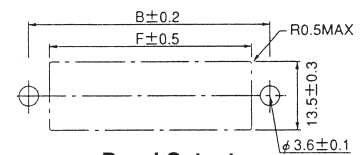
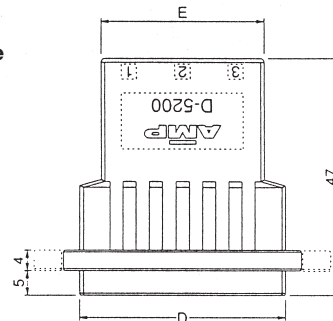
No. of Positions	Part Number of Receptacle Housing	Dimensions	
		A	B
2	□-179958-2	35.76	23.76
3	□-179958-3	45.92	33.92
4	□-179958-4	53.68	44.08
5	—	—	—
6	□-179958-6	74.00	64.40

Tab Housing

Panel Type



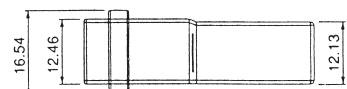
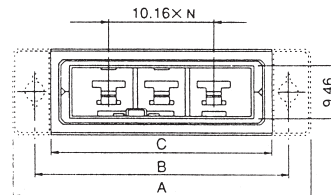
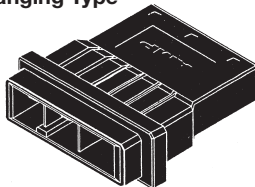
Mating Receptacle Housing Part Number: □-179958-□



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-hanging Type



No. of Pos.	Part Number of Tab Housing		Dimensions					
	Panel Type	Free-hanging Type	A	B	C	D	E	F
2	□-353047-2	□-353046-2	47	38	33.44	29.36	21.11	30.4
3	□-353047-3	□-353046-3	57	48	43.6	39.52	31.27	40.5

D-5200 Series (Continued)

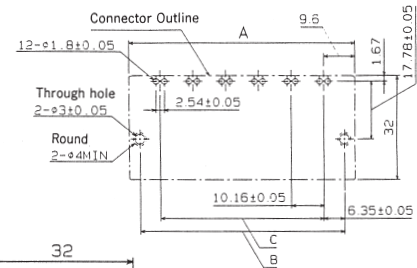
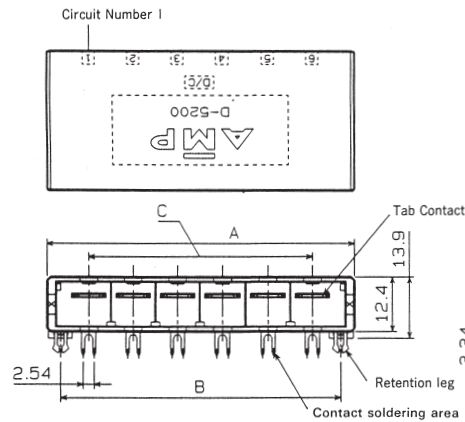
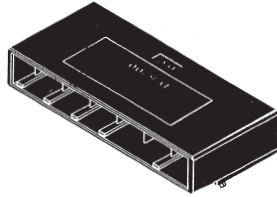
D-5200S — Standard 1-Row Type (Continued)

Board-mount Tab Header (Horizontal Type)

Mating Receptacle Housing

Part Number:

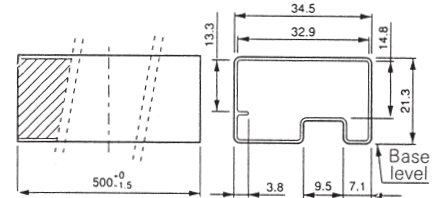
□-179958-□



PC Board Layout
Applicable Board
Thickness:
1.6-2.4±0.1

No. of Pos.	Part Number of Tab Header	Dimensions		
		A	B	C
2	□-353079-□	29.36	22.86	10.16
3	□-353081-□	39.52	33.02	20.32
4	□-917541-□	49.68	43.18	30.48
5	—	—	—	—
6	□-179959-□	70.00	63.50	50.80

Tube Package Dimensions (Ref.)

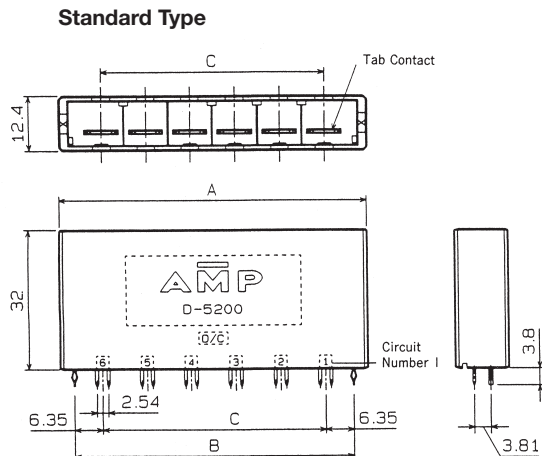
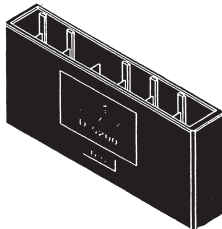


Board-mount Tab Header (Vertical Type)

Mating Receptacle Housing

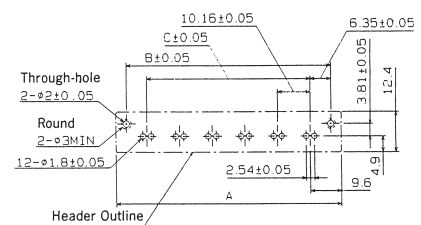
Part Number:

□-179958-□

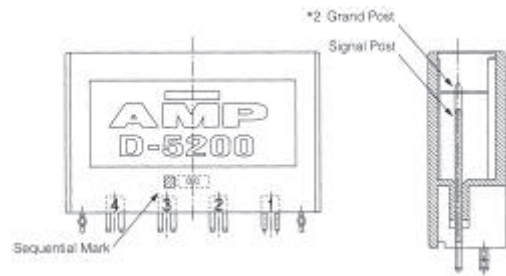


PC Board Layout

Applicable Board
Thickness: 1.6-2.4±0.1



Sequential Type



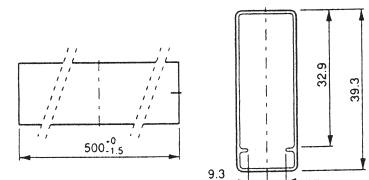
No. of Pos.	Part Number		Dimensions		
	Standard Type	Sequential Type	A	B	C
2	□-353080-□	—	29.36	22.86	10.16
3	□-353082-□	□-353082-2*1	39.52	33.02	20.32
4	□-917542-□	□-917542-2*1	49.68	43.18	30.48
5	—	—	—	—	—
6	□-179960-□	—	70.00	63.50	50.80

*1 In the of the sequential type, enter 8- for X type, and enter 9- for Y type.

*2 For the 3 pos. connector assembly, the sequential post is inserted in the circuit No. 3.

For the 4 pos. connector assembly, the sequential post is inserted in the circuit No. 4.

Tube Package Dimensions (Ref.)



D-5200 Series (Continued)

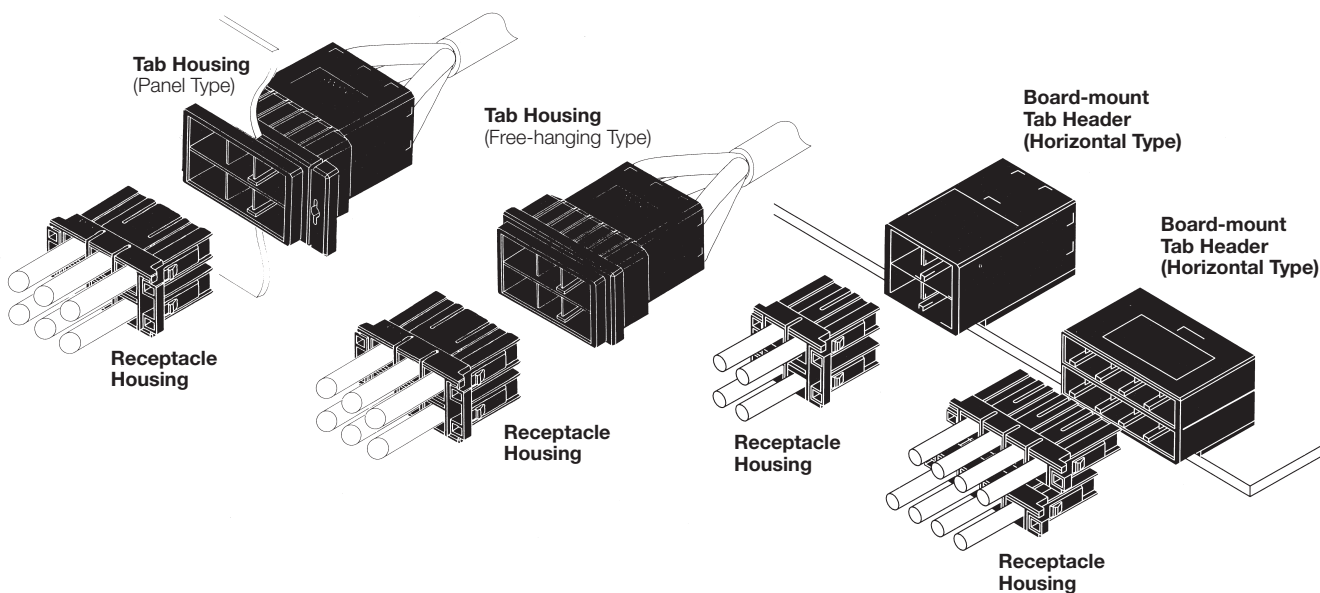
D-5200M — Modular Type

**D-5200M—Can be used for modular application in conjunction with D-5200S.
Also used for power distribution.**

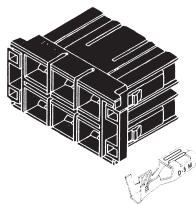
Board mounting pitch: 400x400mils (10.16x10.16mm)

Dielectric Withstanding Voltage: 3,000V (for one minute)

Voltage Rating: 630V AC (when one connector is used)

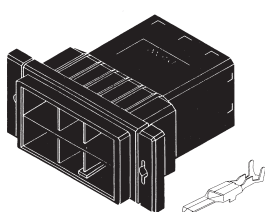


Receptacle Housing

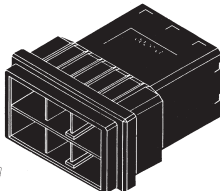


Tab Housing

(Panel Type)



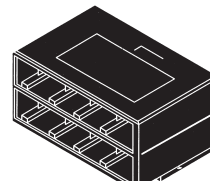
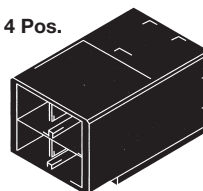
(Free-hanging Type)



Board-mounting Tab Header

(Horizontal Type)

4 Pos.



8 Pos.

Receptacle Contact

Tab Contact.....For each line of contacts, refer to the appropriate page.

No. of Pos.	Keying	Part Number of Receptacle Housings	Part Number of Tab Housing		Board-mounting Tab Header	
			Panel Type	Free-hanging Type	Horizontal Type	Sequential Type
4	XX	1-917807-2	1-917809-2	1-917808-2	1-1123309-□	8-1123309-2
	YY	2-917807-2	2-917809-2	2-917808-2	2-1123309-□	9-1123309-2
	XY	3-917807-2	3-917809-2	3-917808-2	3-1123309-□	5-1123309-2
6	XX	1-917807-3	1-917809-3	1-917808-3	—	—
	YY	2-917807-3	2-917809-3	2-917808-3	—	—
	XY	3-917807-3	3-917809-3	3-917808-3	—	—
8	XX	—	—	—	1123829-1*	—

Note: Enter the following plating code in Part Number suffix-□ :
-2 = 0.38 μm thick gold plating
-3 = 0.76 μm thick gold plating

*This connector is made by 2 pieces of 4 pos. connectors.

D-5200 Series (Continued)

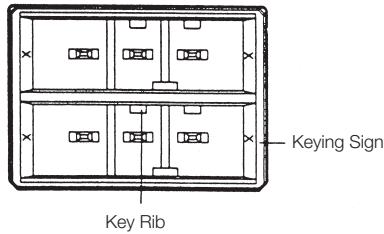
D-5200M — Modular Type

(Continued)

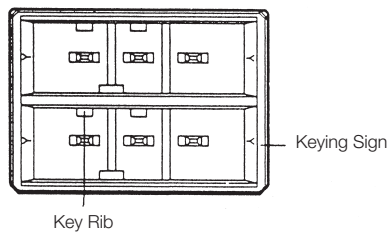
Keying

Keying is provided with this product (D-5200M) to help prevent misinsertion. Three types, XX, YY, and XY, are available.

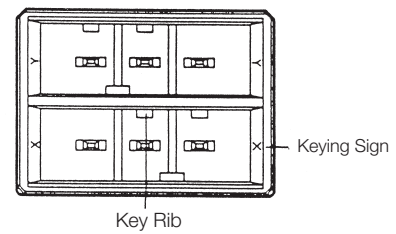
(Shown below is the mated interface of Tab Header.)



XX-Type

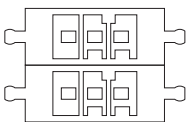
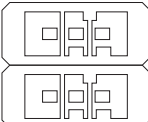
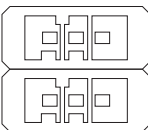
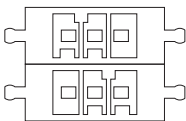
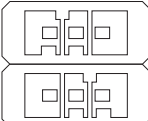


YY-Type



XY-Type

Table of Mating Combinations

Receptacle Housing		Tab Housing				Board-mount Tab Header		
1 Row (D-5200S)  *	X-Type		 	1 Row (D-5200S) Panel Type  *	X-Type Panel Type Free-hanging Type	1 Row (D-5200S) Horizontal Type  *	X-Type Horizontal Type Vertical Type	
	Y-Type			Free-hanging Type  *	Y-Type Panel Type Free-hanging Type	Vertical Type  *	Y-Type Horizontal Type Vertical Type	
2 Row 	XX-Type			 	2 Rows Panel Type  Free-hanging Type 	XX-Type Panel Type Free-hanging Type	2 Rows Horizontal Type Vertical Type	XX-Type Horizontal Type Vertical Type
						YY-Type		YY-Type Panel Type Free-hanging Type
	XY-Type					XY-Type Panel Type Free-hanging Type	XY-Type Horizontal Type Vertical Type	

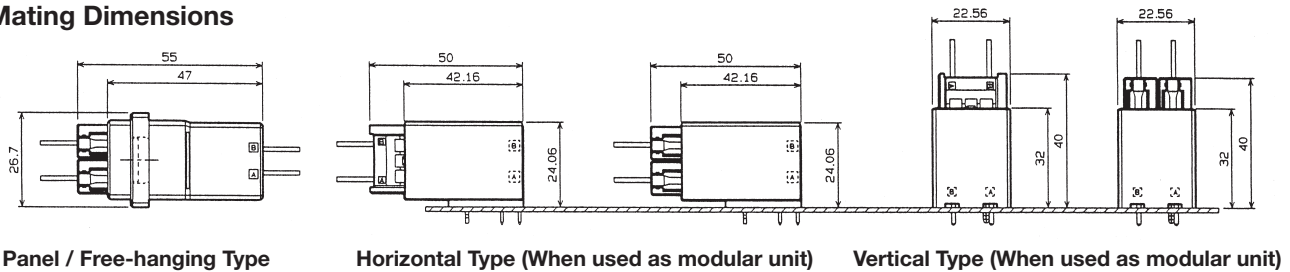
*D-5200S Series

D-5200 Series (Continued)

D-5200M — Modular Type

(Continued)

Mating Dimensions

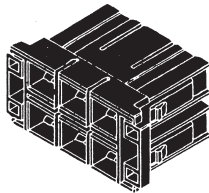


Panel / Free-hanging Type

Horizontal Type (When used as modular unit)

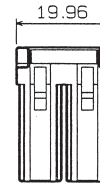
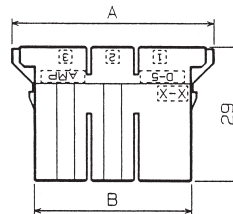
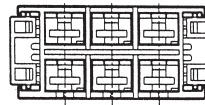
Vertical Type (When used as modular unit)

Receptacle Housing



Mating Tab Connector Part Number:

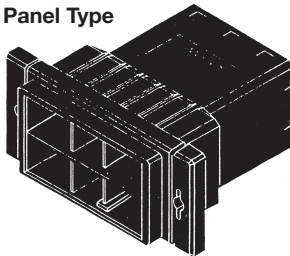
- 917809-□
- 917808-□
- 1123829-1
- 1123309-□



No. of Positions	Part Number of Receptacle Housing	Dimensions	
		A	B
4	□-917807-2	33.36	23.76
6	□-917807-3	43.52	33.92

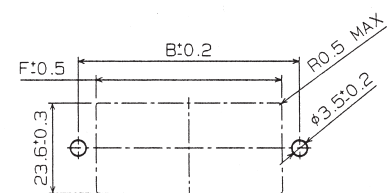
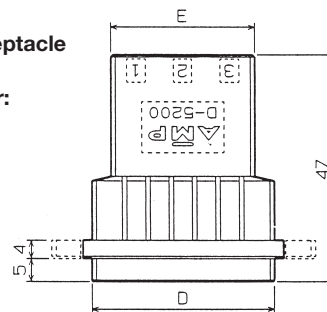
Tab Housing

Panel Type



Mating Receptacle Housing Part Number:

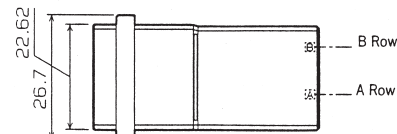
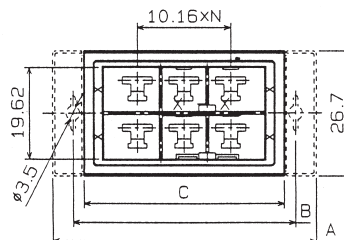
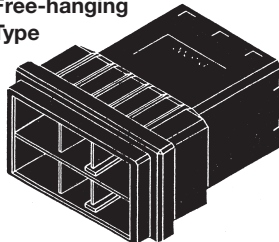
- 917807-□



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-hanging Type



No. of Pos.	Part Number of Tab Housing		Dimensions					
	Panel Type	Free-hanging Type	A	B	C	D	E	F
4	□-917809-2	□-917808-2	47	38	33.44	29.36	21.11	30.40
6	□-917809-3	□-917808-3	57	48	43.60	39.52	31.27	40.50

D-5200 Series (Continued)

D-5200M — Modular Type

(Continued)

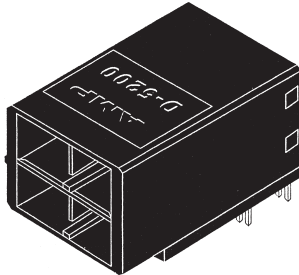
Board-mount Tab Header (Horizontal Type)

Mating Receptacle

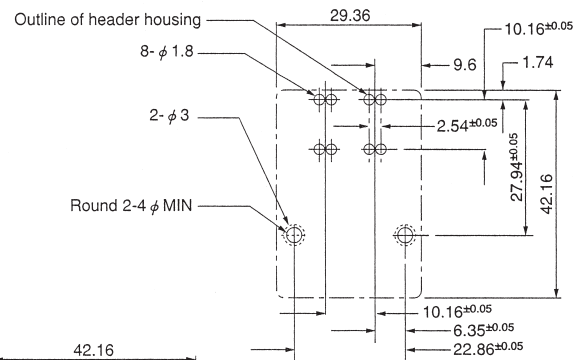
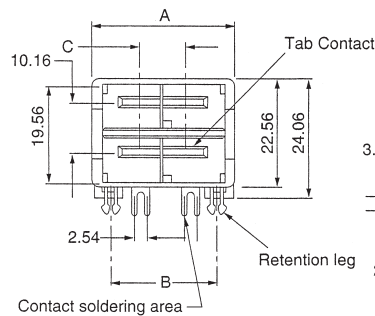
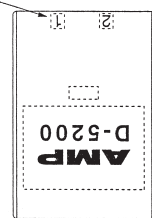
Housing

Part Number:

□-917807-□



Circuit Number 1



PC Board Layout

Applicable Board

Thickness:

1.6-2.4±0.1

No. of Pos.	Part Number of Tab Header	Dimensions		
		A	B	C
4	□-1123309-□	29.36	22.86	10.16

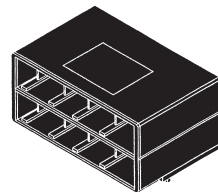
Board-mount Tab Header (Horizontal Type)

Mating Receptacle

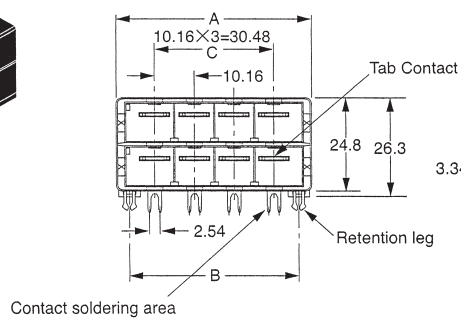
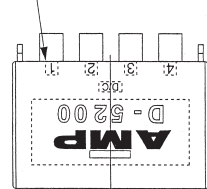
Housing

Part Number:

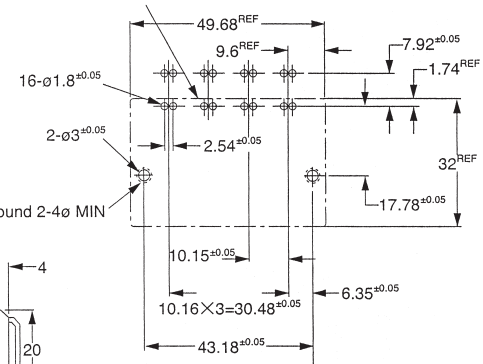
□-917807-□



Circuit Number 1



Outline of header housing



PC Board Layout

Applicable Board

Thickness:

1.6-2.4±0.1

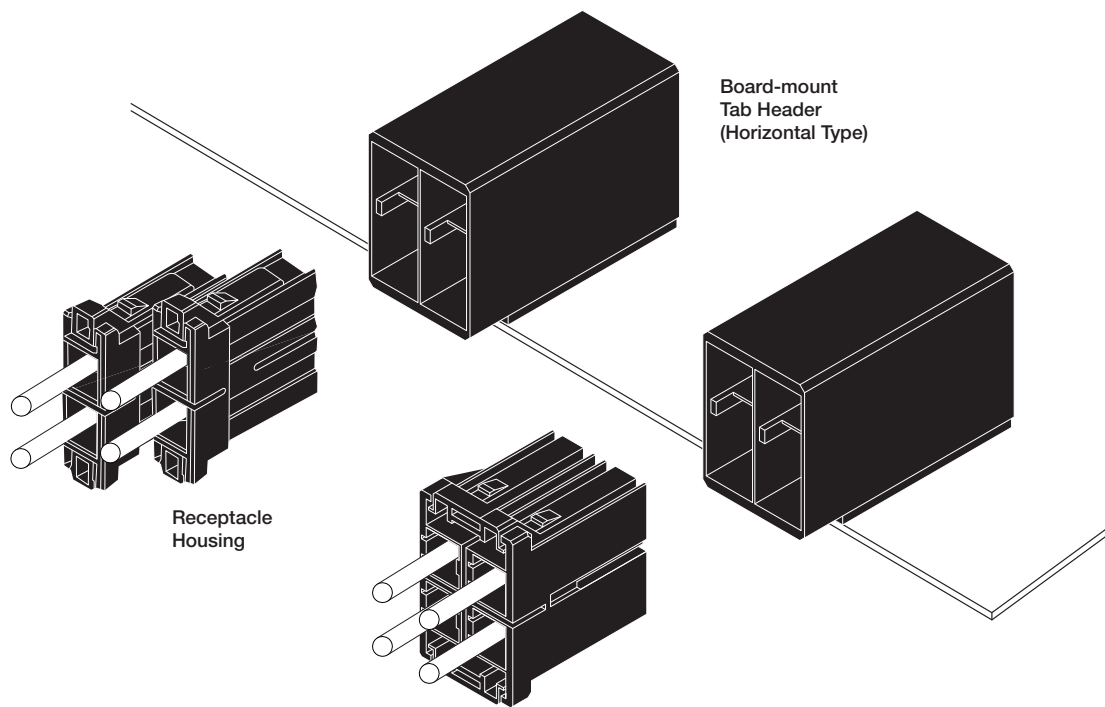
No. of Pos.	Part Number of Tab Header	Dimensions		
		A	B	C
8	1123829-1	49.68	43.18	30.48

D-5200 Series (Continued)

D-5200M α — High Current Type

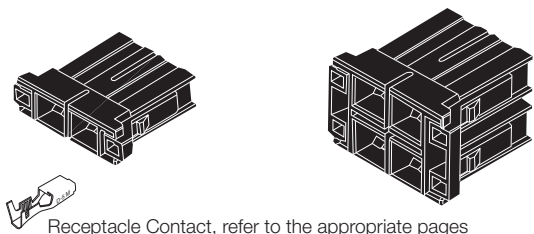
Appearance

Board mounting pitch: 400mils (10.16mm)
Dielectric Withstanding Voltage: 3,000V (for one minute)
Voltage Rating: 630V AC



Receptacle Housing

Board-mount Tab Header
(Horizontal Type)



Receptacle Contact, refer to the appropriate pages

Part Number Chart

No. of Pos.	Keying	Part Number of Receptacle Housings	Part Number of Board-mounting Tab Headers (Horizontal Type)
2	X	1-179958-2	—
	Y	2-179958-2	—
4	XX	1-917807-2	1-1318983-6
	YY	2-917807-2	2-1318983-6
	XY	3-917807-2	3-1318983-6

* The 2 pos. receptacles use same 2 pos. housing of D-5200S Series.
The 4 pos. receptacles use same 4 pos. housing of D-5200M Series.
The contacts, however, are D-5 α (Silver plated type).

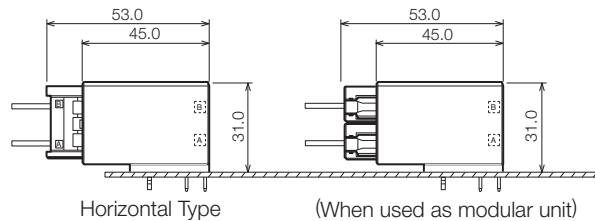
Keying

Keying is provided with this product (D-5200M α) to help prevent misinsertion. Three types, XX, YY, and XY, are available.

D-5200 Series (Continued)

D-5200M α — High Current Type (Continued)

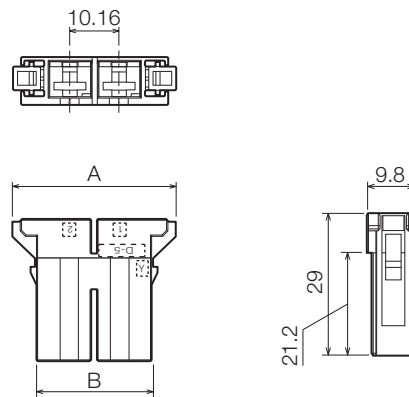
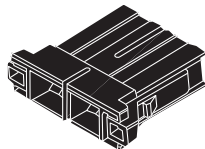
Mating Dimensions



External Dimensions

Receptacle Housing (2 Pos.)

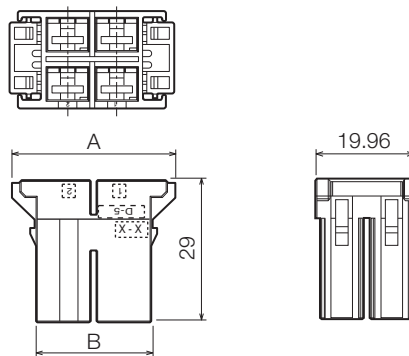
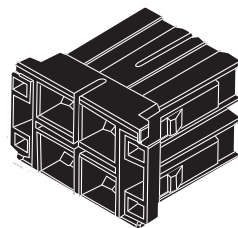
Mating Tab Header
Part Number:
□-1318983-□



No. of Positions	Keying	Part Number of Receptacle Housing	Dimensions	
			A	B
2	X	1-179958-2	35.76	23.76
	Y	2-179958-2		

Receptacle Housing (4 Pos.)

Mating Tab Header
Part Number:
□-1318983-□



No. of Positions	Keying	Part Number of Receptacle Housing	Dimensions	
			A	B
4	XX	1-917807-2	33.36	23.76
	YY	2-917807-2		
	XY	3-917807-2		

D-5200 Series (Continued)

D-5200M α — High Current Type (Continued)

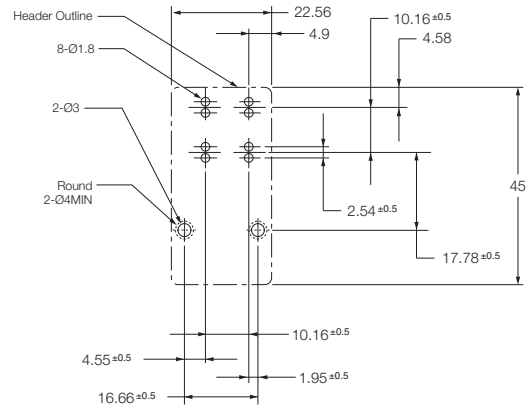
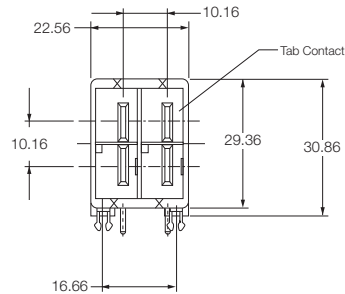
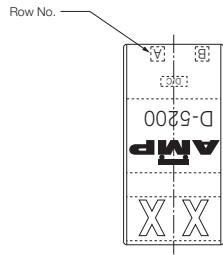
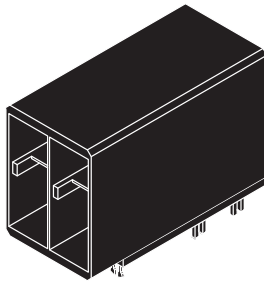
Board-mount Tab Header (Horizontal Type)

Mating Receptacle Housing

Part Number:

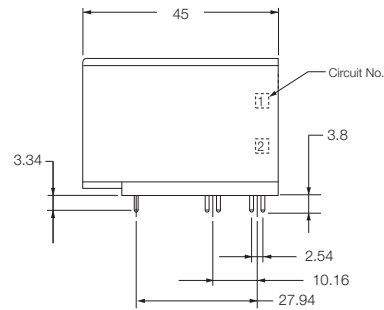
□-179958-□

□-917807-□



PC Board Layout

Applicable Board
Thickness: 1.6~2.4±0.1

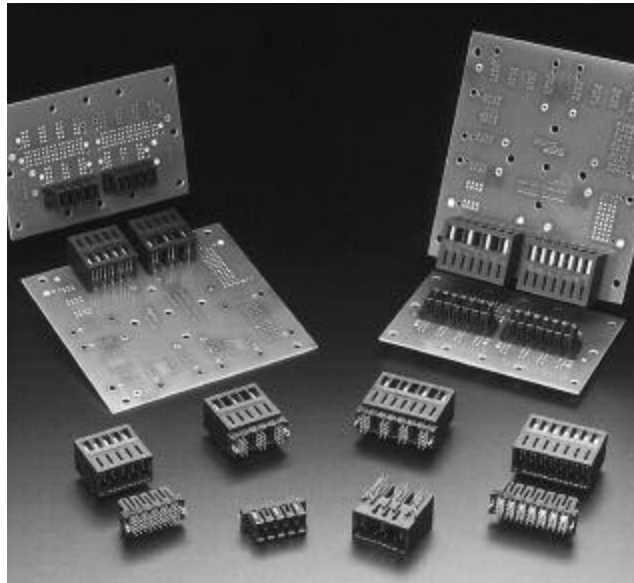


No. of Positions	Keying	Part Number of Tab Header
4	XX	1-1318983-6
	YY	2-1318983-6
	XY	3-1318983-6

DZ-5200 Series (Board-to-Board)

DZ-5200 Series

High-current board-to-board connectors with 30A per contact are useful for cableless control boards.



Material and Finish

Receptacle Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μ m nickel underplate

Tab Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μ m nickel underplate

Tab Post — Copper alloy, tin plated and gold plated with 1.27 μ m nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

*When connectors are used singly

Pitch — 5.08mm/10.16mm

Voltage Rating —

5.08mm pitch: 250 V (rms);

10.16mm pitch: 600 V (rms)

Current Rating —

5.08mm pitch: 20A;

10.16mm pitch: 30A

Contact Resistance — 10 m Ω max.

Dielectric Withstanding Voltage — 1,500 V (1 minute)

Operating Temperature — -55°C ~ +105°C

Technical Documents

Product Specification

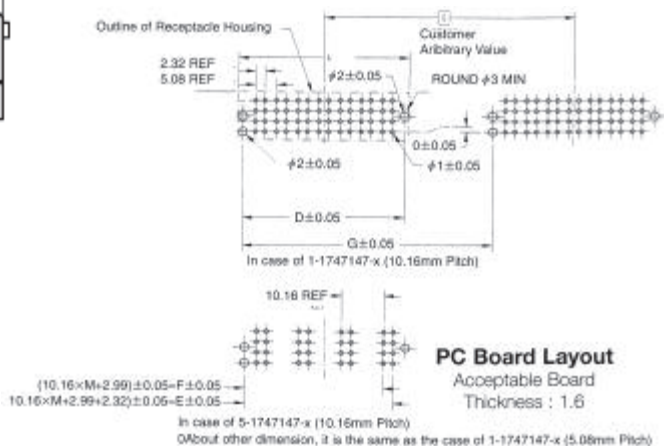
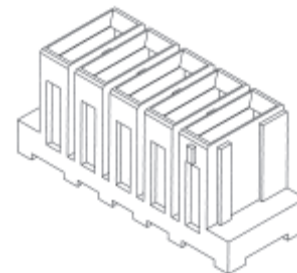
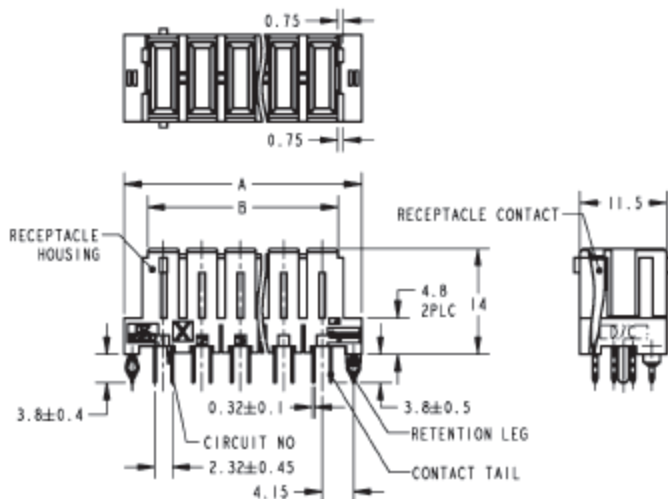
108-78186

Receptacle Header

Mating Tab Header

Part Number:

□-1747145-□



No. of Pos.	Pitch mm	Part Number	Dimensions	
			A	B
3	10.16	5-1747147-3	30.76	24.56
4		5-1747147-4	40.92	34.72
5	5.08	1-1747147-5	30.76	24.56
7		1-1747147-7	40.92	34.27

DZ-5200 Series (Continued)

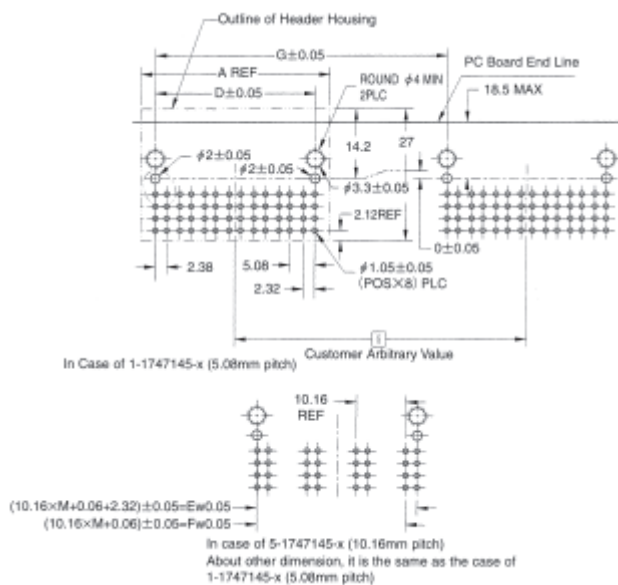
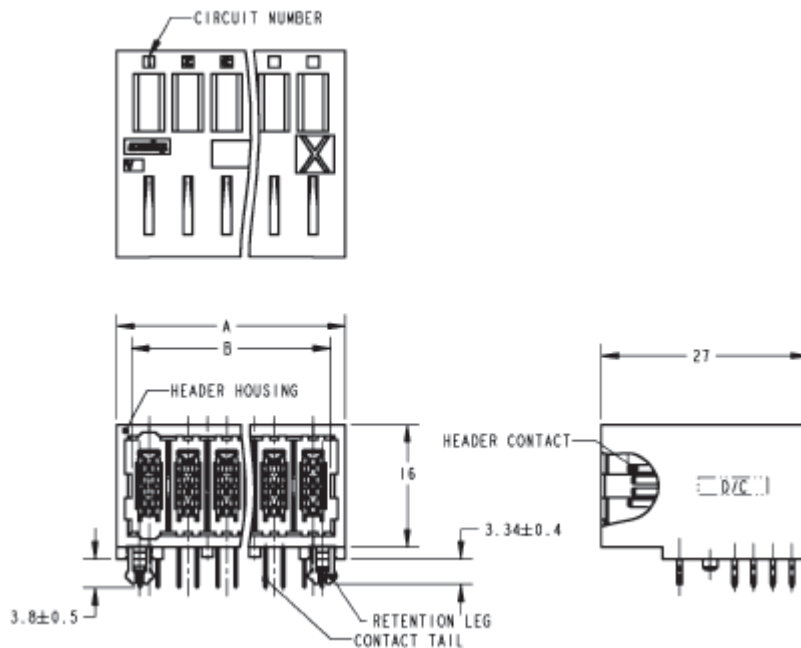
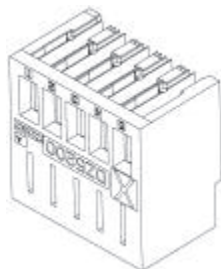
DZ-5200 Series (Continued)

Tab Header

Mating Receptacle Header

Part Number:

□-1747147-□

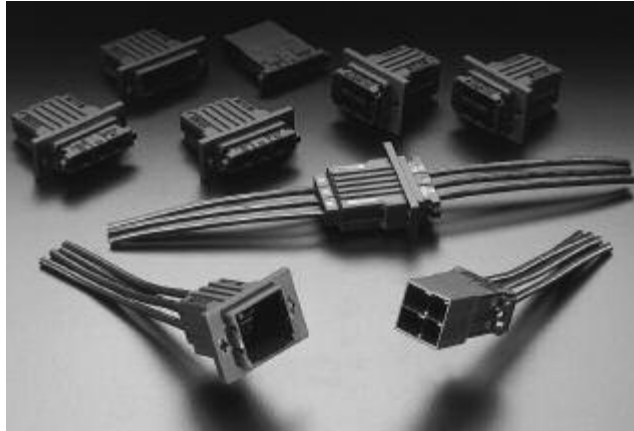


PC Board Layout
Acceptable Board Thickness: 1.6

No. of Pos.	Pitch mm	Part Number	Dimensions	
			A	B
3	10.16	5-1747145-3	28.76	24.86
4		5-1747145-4	38.92	35.02
5	5.08	1-1747145-5	28.76	24.86
7		1-1747145-7	38.92	35.02

D-5300 Series (Wire-to-Panel and Wire-to-Wire)

D-5300 Series Reverse Mount Type



Reverse mount type allows Dynamic Series receptacle contact to be used on panel mount side.

The Dynamic D-5300 Series supports receptacle contact storage demand to conductor housing and such applications where safety standards are important. The receptacle contact satisfies the IP20 rating, which contributes to equipment safety. Plus, a new addition

to the lineup are long tab contacts so contact is made in advance when mating and retains current until completely unmated.

Also, because it uses the D-5000 Series high-current contacts, which have a good reputation in industry, it not only keeps costs for new equipment to a minimum, it also really helps to shorten initial evaluation times.

Material and Finish

Receptacle Contact — Copper alloy, gold plated or silver plated over nickel underplate

Tab Contact — Copper alloy, gold plated or silver plated over nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

*When connectors are used singly

Pitch — 400 mil (10.16mm)

Voltage Rating — 630 VAC

Current Rating —

#10: 30A; #12: 25A; #16: 16A

Contact Resistance — 2 mΩ max.

Dielectric Withstanding Voltage — 3,000 V (1 minute)

Operating Temperature — -55°C ~ +105°C

Related Product Data

D-5 Contact (Refer to page 84)

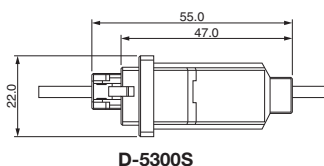
D-5300 Series (Continued)

D-5300 Series (Continued)

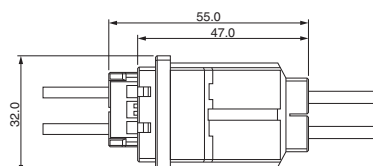
Mating Dimensions

Keying

This product (D-5300) is provided with keying to help prevent mismatching of the connector halves. Keying is available in five types—X Type, Y Type, XX Type, YY Type and XY Type.



D-5300S



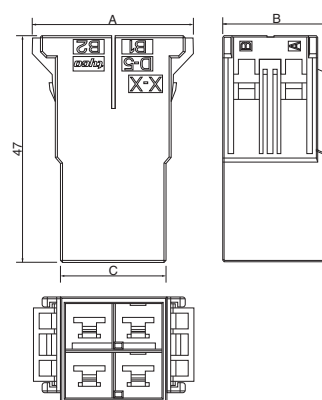
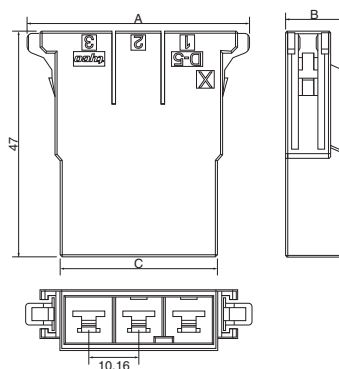
D-5300D

Panel/Free-hanging Type

Dimensions

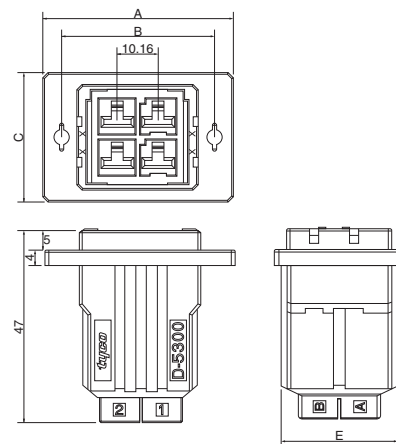
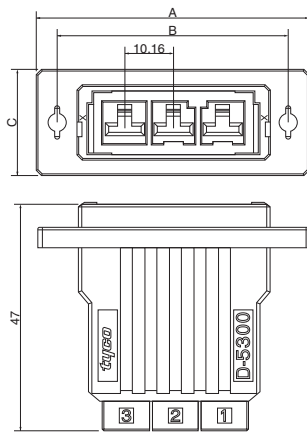
Tab Housing

Panel Mount Type

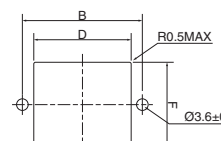


No. of Pos.	Keying	Part Number	Dimensions		
			A	B	C
3	X	1-1747819-3	46.48	12.46	32.68
	Y	2-1747819-3	46.48	12.46	32.68
4	XX	1-1747820-2	33.84	22.62	22.46
	YY	2-1747820-2	33.84	22.62	22.46
	XY	3-1747820-2	33.84	22.62	22.46

Receptacle Housing



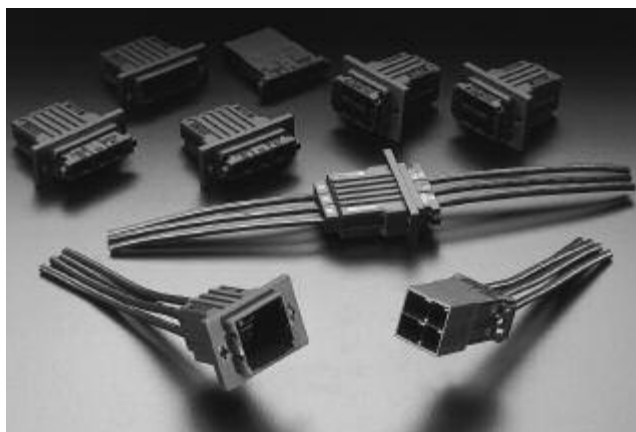
No. of Pos.	Keying	Part Number	Dimensions					
			A	B	C	D	E	F
3	X	1-1747821-3	57	48	22	41.1	18.16	16.8
	Y	2-1747821-3	57	48	22	41.1	18.16	16.8
4	XX	1-1747822-2	47	38	32	30.6	28.32	26.9
	YY	2-1747822-2	47	38	32	30.6	28.32	26.9
	XY	3-1747822-2	47	38	32	30.6	28.32	26.9



Panel Cutout

AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire)

2800/3800 Series



This Series is a combination of the proven HTS series rectangular connectors and the popular Dynamic Series connector line.

Metal hoods and frames of HTS connectors, which offers many choices depending on sizes and mounting styles are employed. Sizes and number of positions can be selected to meet the appli-

cation needs. It is also suitable for high-current applications.

Sequential terminals are available to enable termination with automatic crimping machines. Termination time can be substantially reduced.

Approximately 30% higher density mounting is possible compared to the high density HTS connectors.

Material and Finish

Receptacle Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μm nickel underplate

Tab Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μm nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

Voltage Rating —

D-2800 Series: 250 V;

D-3800 Series: 600 V

Current Rating —

D-2800 Series: 5A (#18 AWG);

D-3800 Series: 15A (#16 AWG)

Contact Resistance — 10 m Ω max.

Dielectric Withstanding Voltage — 1,500 V (1 minute)

Operating Temperature — -55°C ~ +105°C

Technical Documents

Product Specifications

108-78284

108-78285

Application Specifications

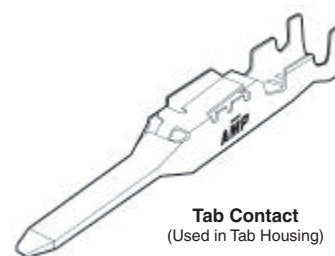
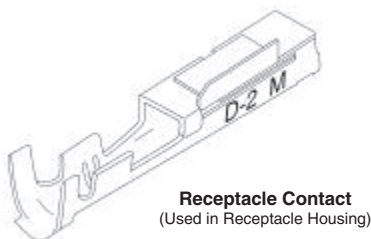
114-5258

114-5148

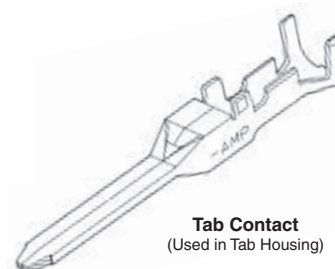
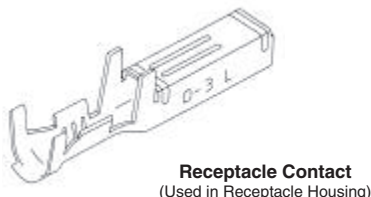
Contact

Contacts of proven Dynamic Series, as well as the existing special tools and applicators, can continue to be used.

D-2 Contact



D-3 Contact



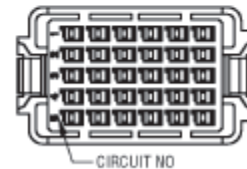
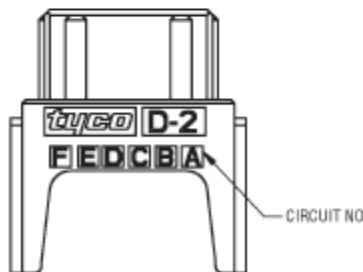
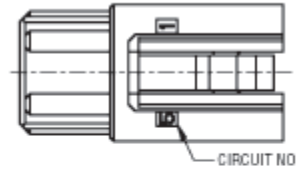
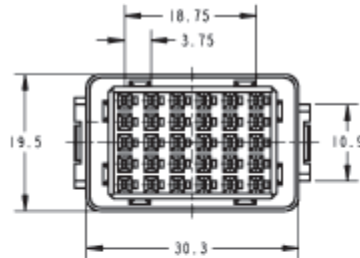
AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

2800 Series

Receptacle Housing

No. of Pos.	Part Number
30	1747365-1

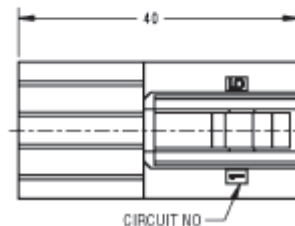
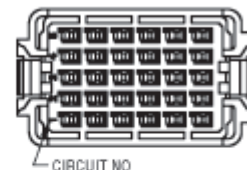
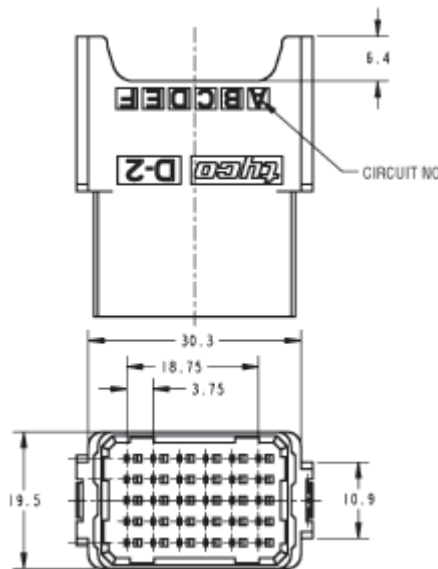
Mating Tab Housing
Part Number:
1747366-1



Tab Housing

No. of Pos.	Part Number
30	1747366-1

Mating Receptacle Housing
Part Number:
1747365-1



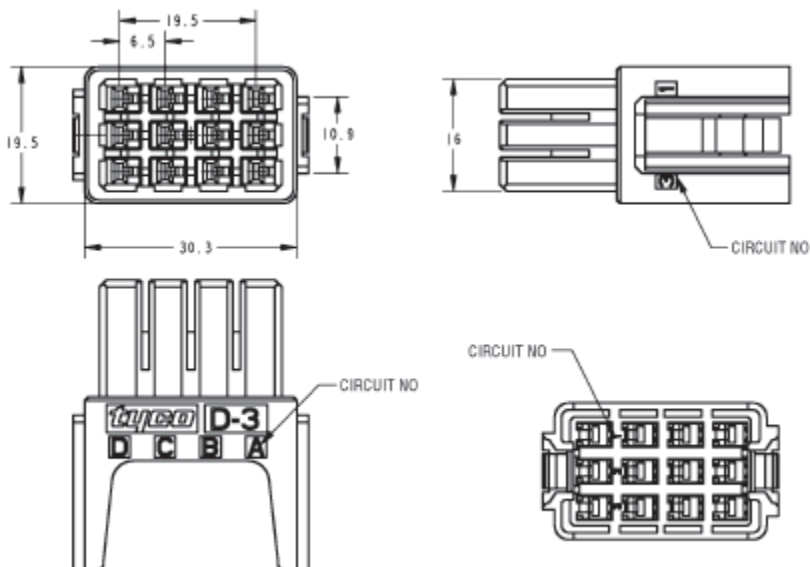
AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

3800 Series

Receptacle Housing

No. of Pos.	Part Number
12	1747363-1

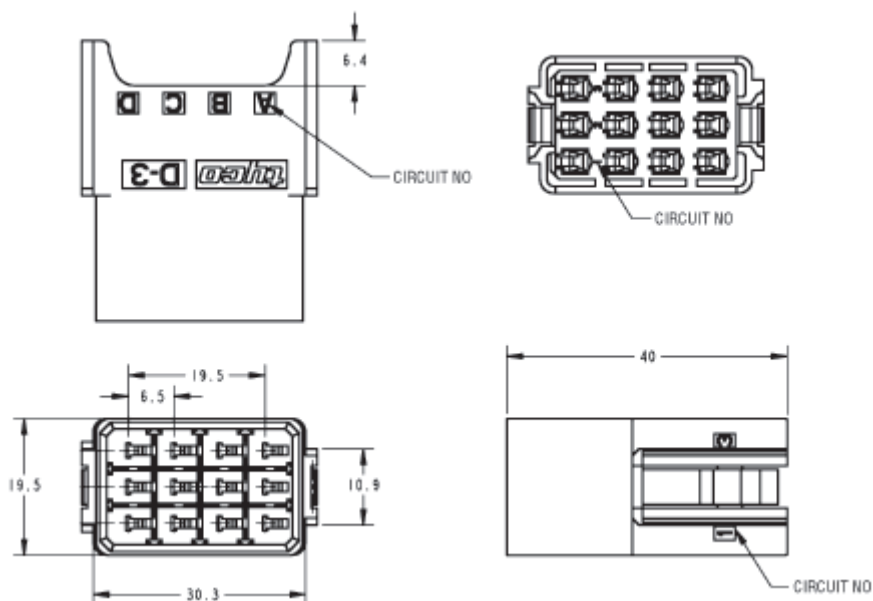
Mating Tab Housing
Part Number:
1747364-1



Tab Housing

No. of Pos.	Part Number
12	1747364-1

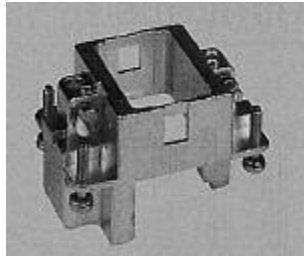
Mating Receptacle Housing
Part Number:
1747363-1



AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

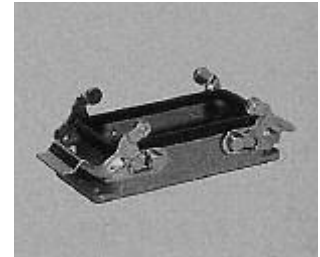
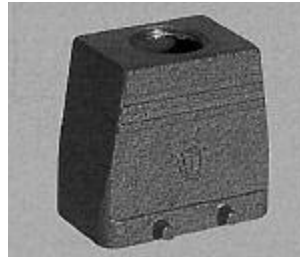
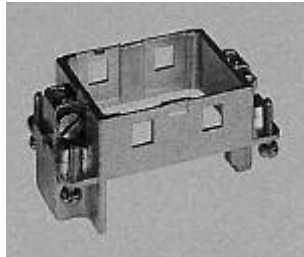
Frames and Metal Housings

	Frame	Applicable Metal Housing
Size 3 (1 Module Type)		Refer to HTS Catalog 889745-2

Part Number: **1108784-1**


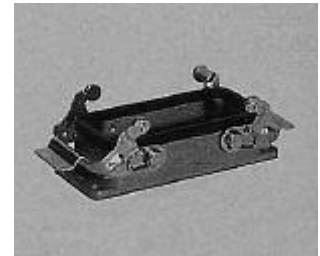
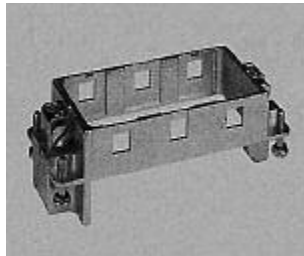
Refer to HTS Catalog 889745-2

Size 4 (2 Module Type)

Part Numbers:
1108783-1 (Male)
1108783-2 (Female)


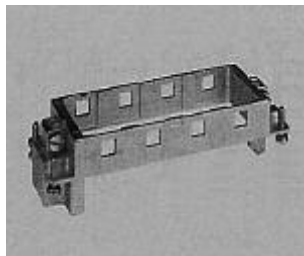
Refer to HTS Catalog 889745-2

Size 6 (3 Module Type)

Part Numbers:
1108782-1 (Male)
1108782-2 (Female)


Refer to HTS Catalog 889745-2

Size 8 (4 Module Type)

Part Numbers:
1108780-1 (Male)
1108780-2 (Female)


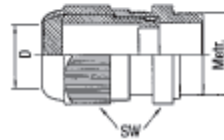
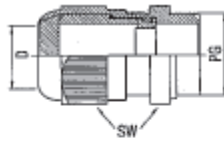
Refer to HTS Catalog 889745-2

AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

Cable Fittings

Plastic Type

Gland fitting IP 68 plastic

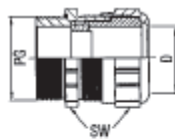


PG	D		SW	Designation	Part Number
	Min.	Max.			
11	5	10	22	HUT.11.P	1-1106005-7
13.5	6	12	24	HUT.13.P	2-1106005-7
16	10	14	27	HUT.16.P	3-1106005-7
21	13	18	33	HUT.21.P	4-1106005-7
29	18	25	42	HUT.29.P	5-1106005-7
36	22	32	53	HUT.36.P	6-1106005-7
42	32	38	60	HUT.42.P	7-1106005-7

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

Metal Type

Gland fitting IP 68 brass, nickel plated neoprene sealing insert and O-ring at connection thread.



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

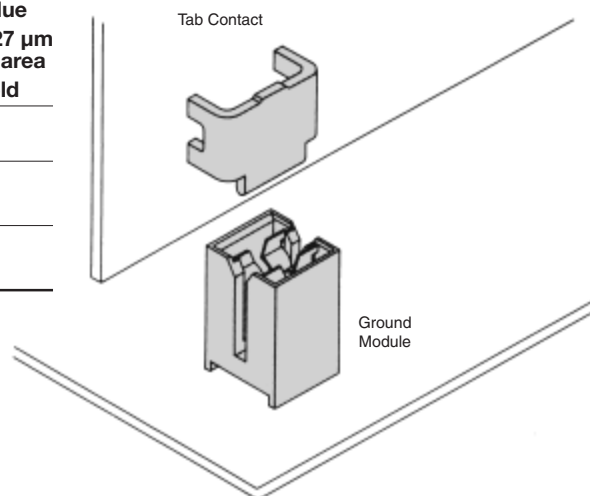
Metr.	D		SW	Designation	Part Number
	Min.	Max.			
M16	5	10	17	HUT.M16.P	1-1102770-6
M20	6	12	22	HUT.M20.P	2-1102770-0
M25	13	18	27	HUT.M25.P	2-1102770-5
M32	18	25	34	HUT.M32.P	3-1102770-2
M40	22	32	43	HUT.M40.P	4-1102770-0
M50	32	38	55	HUT.M50.P	5-1102770-0

Note: Variable options are available other than those listed above. Please refer to HTS Catalog 889745-2.

Power Connector for Board-to-Board Application

Can be used for tab contact connection.
Besides, board can be directly inserted into this connector.

Material & Finish	Housing: Glass-filled thermoplastic, blue Contact: Copper alloy, plated gold (1.27 μ m thick) on contact area and tin on post area Tab Contact: Brass, 1.27 μ m plated gold
Current Rating	20A
Operating Temperature	-55°C ~ +85°C
Insertions and Extractions	30 times

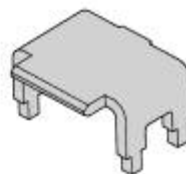


Ground Module



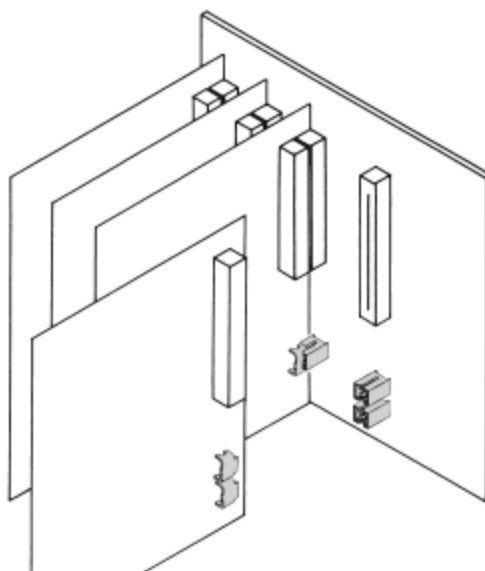
Part Number
119341-1

Tab Contact



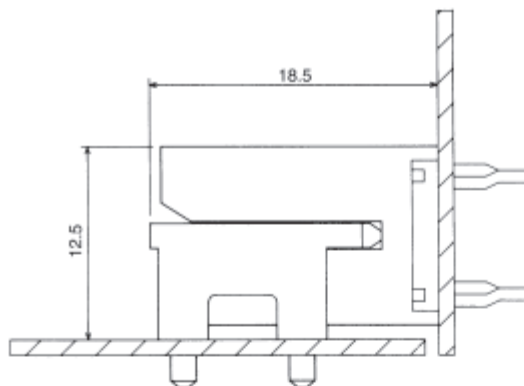
Part Number
175145-2

Application



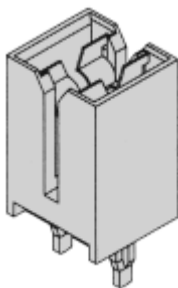
Power Connector for Board-to-Board Application (Continued)

Mating Dimensions

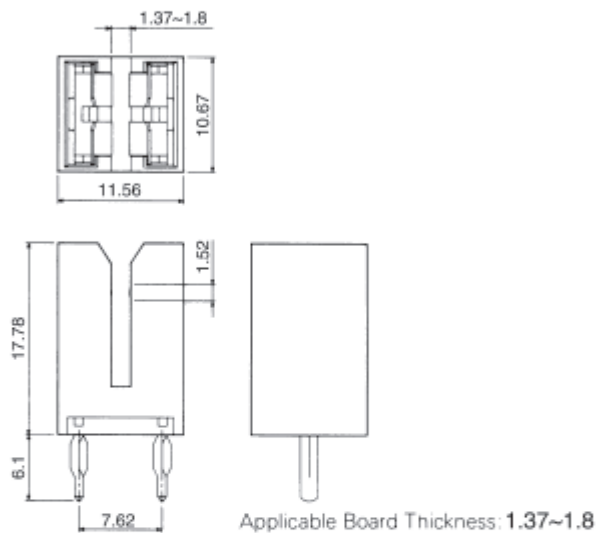


External Dimensions

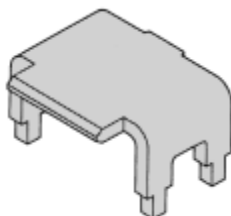
Ground Module



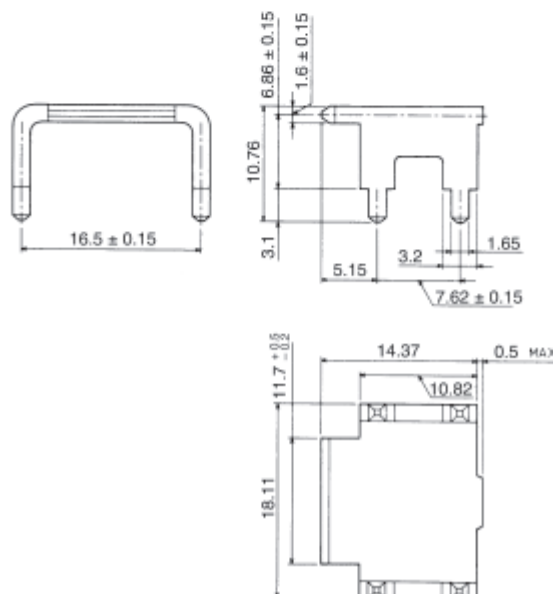
Part Number
119341-1



Tab Contact



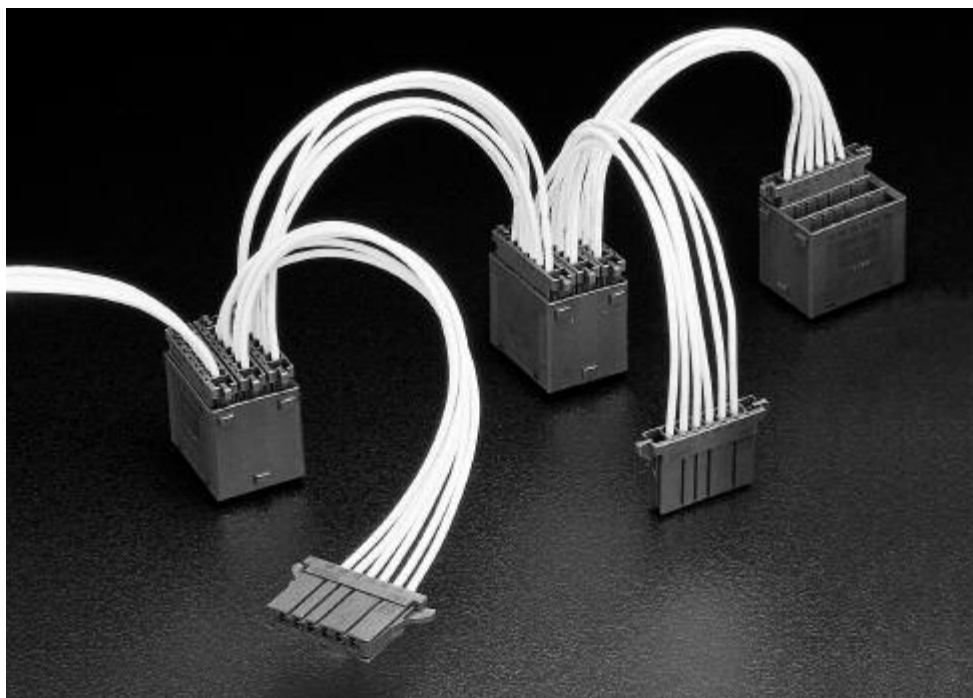
Part Number
175145-2



Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire)

Product Facts

- As many Dyna-Tap Connectors will be fixed on casings where dust protection will be needed, dust covers are incorporated into the design. With the dust cover, this connector can be applied in various environments



Many pieces of FA equipment are produced by assembling sub-units with divided functions in the final assembly line. Power for each sub-unit of conventional equipment is branched from the power supply bus line over a printed circuit board. In order to save valuable printed circuit board space, Tyco Electronics has developed Dyna-Tap Connectors from which power can be tapped without printed circuits.

Dyna-Tap Connectors are a part of Dynamic Series, which are developed as power supply connectors. Dyna-Tap Connectors are optimized for branching power from the power supply bus line.

In order to cope with three power systems, which are the most popular in the industry, 6-position connectors are specified.

Product Lineup

Free-hanging type and panel mount type are available. The part number of the mating connector is 1-178288-6.

Applications

- Power taps in elevator towers
- Power taps for power protective relays
- Power taps among sub-units of semiconductor producing equipment
- Power supplies for equipment on production lines

Performance Characteristics

Voltage Rating — 250 VAC

Current Rating — 8A (18-position, with AWG#14)

Position — 6 pos. x 3 = 18 pos.

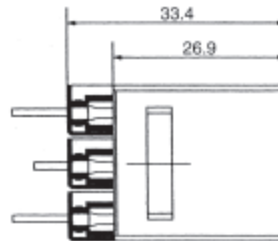
Durability — 500 cycles

Technical Document

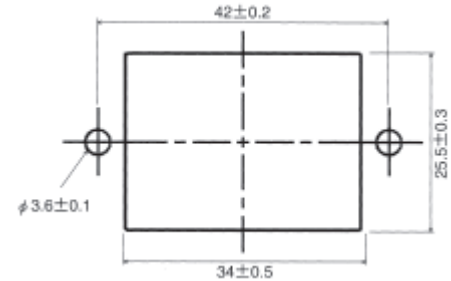
Product Specification
108-5754

Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

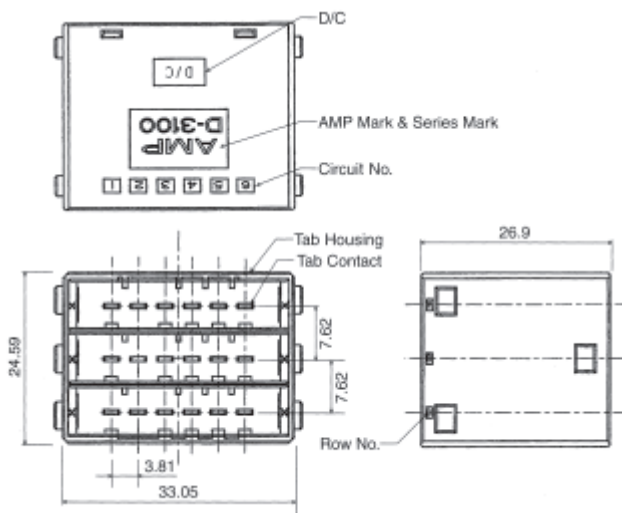
Mating Dimensions



Tab Housings (18-Position)

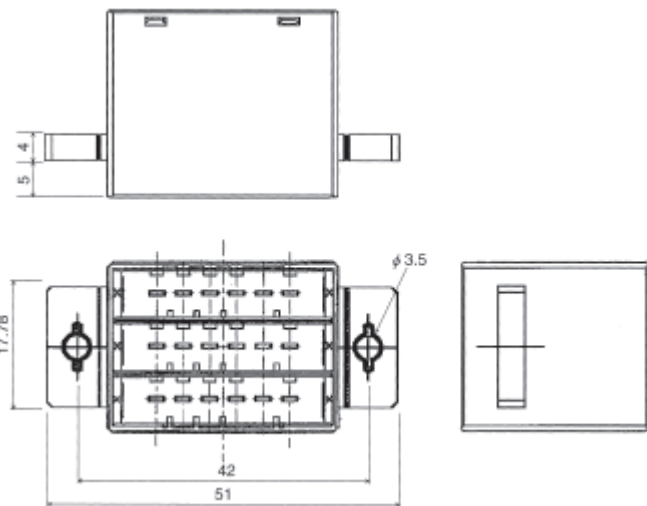


Free-Hanging Type Part Number 1376807-1



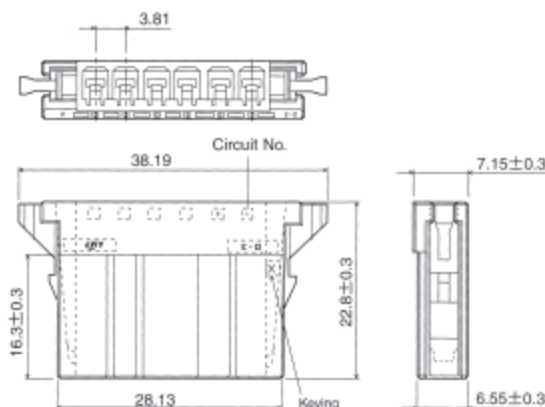
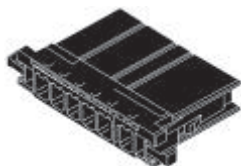
Panel Mount Type Part Number 1376807-2

Panel Cutout
When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].



Mating Receptacle Housing (6-Position)

Part Number 1-178288-6



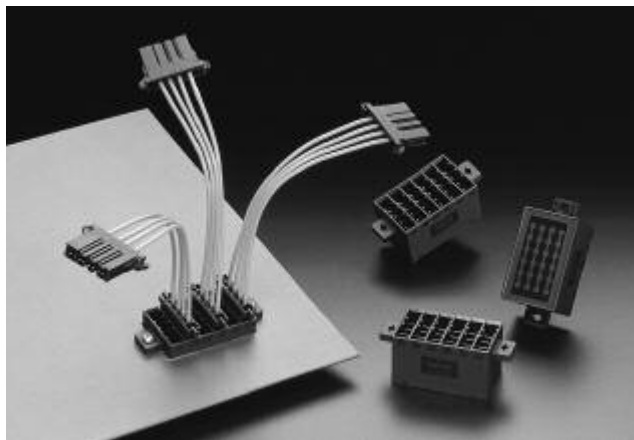
Caution:

Dynamic Series contacts are available either with gold plating or tin plating. However, Dyna-Tap Contacts are only available with 0.38 µm thick gold plating. Mating gold plated contacts with tin plated contacts will cause electrolytic corrosion. Therefore, please choose gold plated contacts for the mating Dyna-Tap Connectors.

Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

D-3000 Series

D-3200 Series Dyna-Tap 24P (4P x 6 Row)



D-3200 4P common series are lined up in six rows.

Issues about branching maintenance and cost are handled with connectors.

The Dynamic Series power supply tap is known for its superior contact reliability. Compared to a terminal block it is possible to reduce installation and maintenance costs. Also, because the circuits are electronically commoned, circuit board and connector do not need to be mounted. This leads to reductions in number of components and man hours as well as an overall decrease in costs.

Material and Finish

Receptacle Contact — Copper alloy, plated gold or tin over nickel underplate

D-3 Contact — Copper alloy, plated gold or tin over nickel underplate

Tab Post — Copper alloy, plated 0.38 μm gold or 2.0 μm tin over 1.3 μm nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics*

Pitch — 200 mil (5.08 mm)

Voltage Rating — 600 VAC

Current Rating —
24-position: 10 A Max.

Contact Resistance — 10 m Ω Max.

Dielectric Withstanding Voltage —
2,200 VAC (1 minute)

Operating Temperature —
-55°C ~ +105°C

*When connectors are used singly.

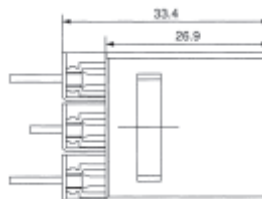
Related Product Data

D-3 Contact (Refer to page 101)

Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

D-3200 Series Dyna-Tap 24P (4P x 6 Row) (Continued)

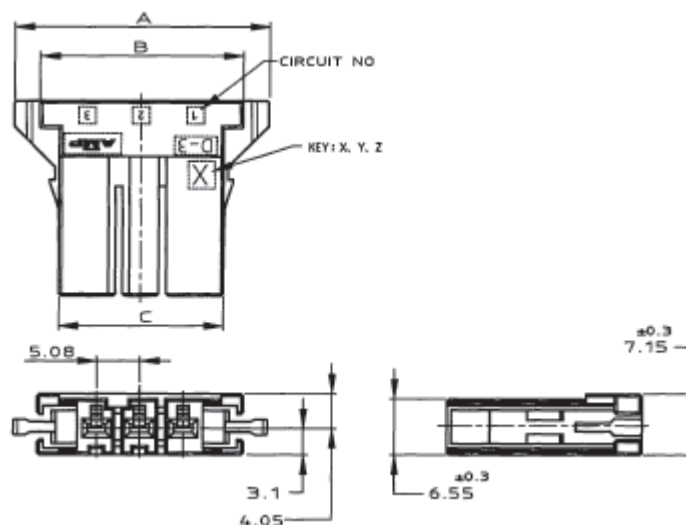
Mating Dimensions



Panel/Free-hanging Type

Dimensions

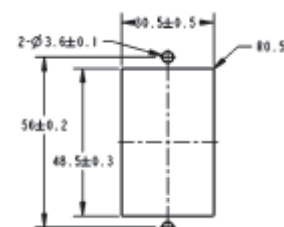
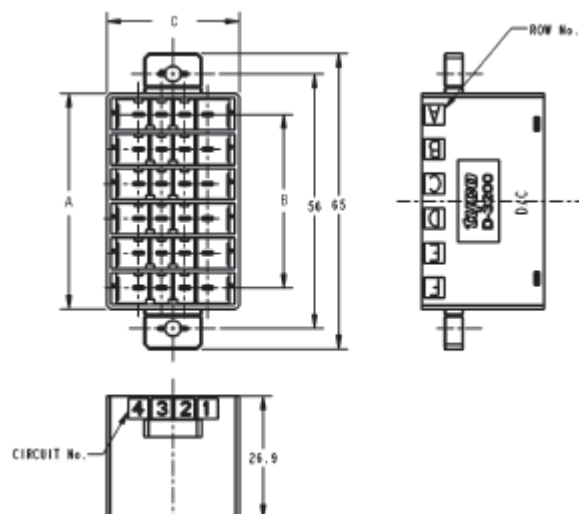
Receptacle Housing



No. of Pos.	Part Number	Dimensions		
		A	B	C
3	1-178128-3	29.70	24.10	19.24

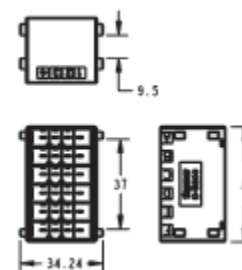
Tab Housing

Panel Mount Type



Panel Cutout

Free-hanging Type



No. of Pos.	Plating	Part Number		Dimensions		
		Panel Mount Type	Free-hanging Type	A	B	C
24	0.38 µm Gold	1827691-2	1827691-1	47.45	38.1	29.24
	2.0 µm Tin	1-1827691-2	1-1827691-1			

Dyna-Clamp Kit (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

Most connectors mounted outside of many pieces of FA equipment are made of metal because of their robustness. Connectors made of metal have a very high performance level.

However, connectors made of metal are more costly than connectors made of plastics.

Tyco Electronics has added a cable clamp function to the existing Dynamic Series. With this new design, the robustness of Dynamic Series connectors made of plastic has been improved remarkably.

This lower cost connector can contribute to the total cost reduction of end products.



Applications

- Power supply I/Os among sub-units of semiconductor producing equipment
- Power supply I/Os for control panels
- Power supply I/Os for power control panels
- Power supply I/Os for robots

Product Lineup

This 3-position connector was developed from the Dynamic Connector 5200 as its basis to realize low-cost 30 A class power distribution for FA equipment. The existing contacts can be used, which means the existing production method such as crimping tools or automatic machines can be utilized without any change.

Support for Obtaining UL, TÜV Approvals

It is more favorable to obtain UL and TÜV approvals with this connector than with metal connectors because of the following reasons:

Made of Plastic

Because of the plastic connector, ground wire at power supply is not necessary. This simplifies wirings of FA equipment and leads to lowering the total cost.

Sequential Structure

A sequential structure is designed so that the ground wire is always electrically connected before power lines.

Performance Characteristics

Voltage Rating — 6300 VAC

Current Rating — 30 A

Position — 3 pos.

Durability —

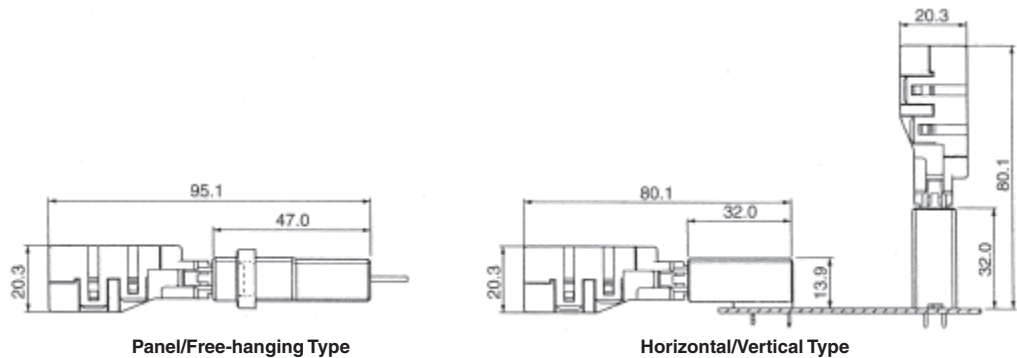
With 0.38 μ m contact: 50 cycles

With 0.76 μ m contact: 100 cycles



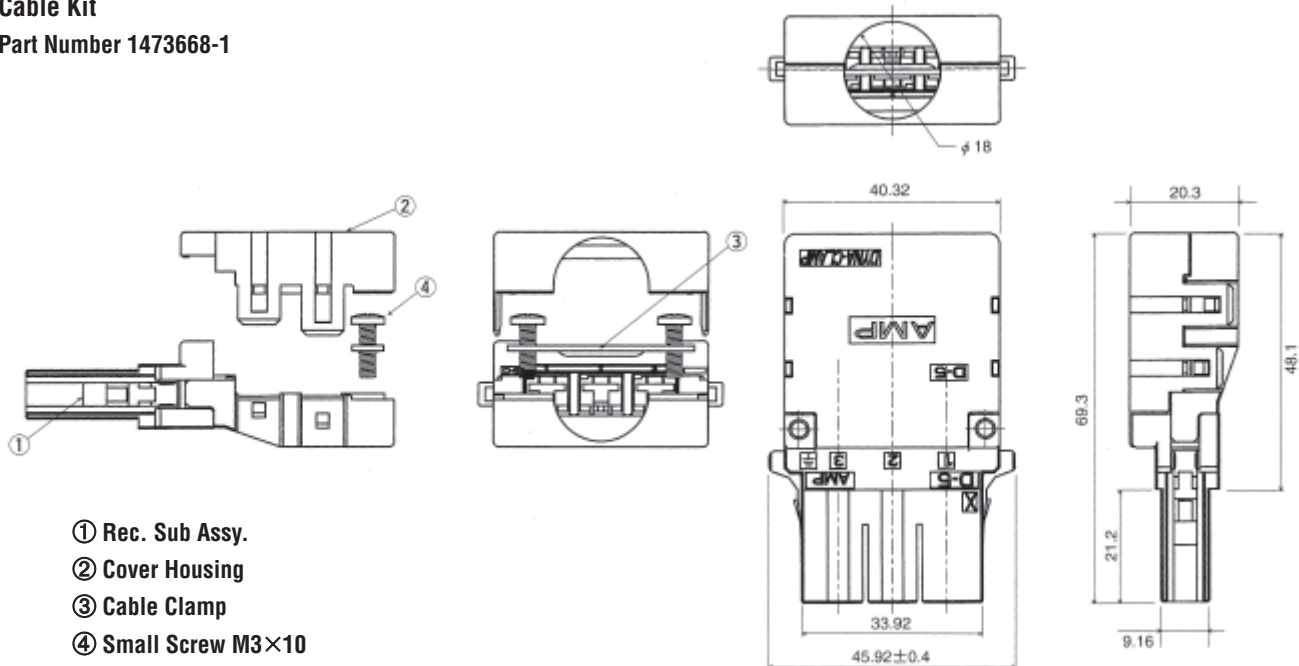
The ground mark is embossed on the connector housing so that operators can see it.

Dyna-Clamp Kit (Wire-to-Board, Wire-to-Panel and Wire-to-Wire) (Continued)



Cable Kit

Part Number 1473668-1

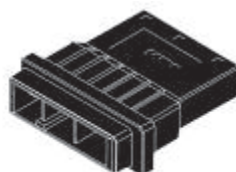
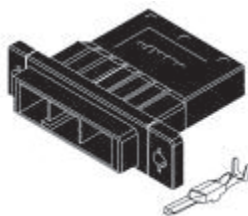


Mating Connectors

Tab Housing

(Panel Type)

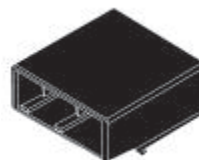
(Free-hanging Type)



Board Mounting Tab Header

(Horizontal Type)

(Vertical Type)



Tab Contact.....For each line of contacts, refer to the appropriate page

No. of Pos.	Part Number of Tab Housing		Board Mounting Tab Header	
	Panel Type	Free-hanging Type	Horizontal Type	Vertical Type
3	1-353047-3	1-353046-3	1-353081-□	1-353082-□

Note: Enter the following plating codes in -□ after Part Numbers:
-2 = 0.38 μm thick gold plating, -3 = 0.76 μm thick gold plating

Part Number Index

Note: This index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

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Engineering Notes



Engineering Notes



Engineering Notes



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1242132-7.5M-LUG-FP-5-07

