

Body & Chassis

Systems

Introduction



TH/.025 Connector Series for Higher Density in Limited Spaces



Product Features

- TH/.025 Connectors were designed to provide better connections and performance while securing higher density in limited spaces as required in advanced electronic automotive control systems.
- Another feature is a unique contact design to resist fretting corrosion effectively while employing a lower contact force. As a result, the low insertion force of TH/.025 Connectors allows a lower connector mating force while offering high density for easy handling.
- This small pitch can help customers to reduce space and weight.

- TH/.025 Connectors feature a pitch of just 2.2 mm, compared to the current standard pitch of 2.54 mm.
- Contact Pitch: 2.2 mm
- Smaller space requirements
- TH/.025 Connector Series have been originally designed in Japan. A European version has been implemented, in order to fulfil the European customer requirements as:
 - Mechanical coding
 - Color coding
 - Reflow leadfree process for headers
- TH European Connectors are available in a full range from 4 to 40 positions.

Applications

- Wire-to-Wire, Wire-to-Board and ECU Applications
 - Mirror
 - Hand free cellphone
 - Immobilizer
 - Dashboard
 - Fuel flap
 - Electrically controlled trunk lid latch
 - Tyre pressure monitoring system
 - Body controller management



Receptacle Contacts

Technical Features

TH/.025 Contacts

- One piece contact designed to minimize fretting corrosion
- Terminal lance design to optimize cavity dimension

TH/.025 Receptacle Contacts: 0.635 x 0.635 mm

Insertion Force:

2.2 N max.

Contact Force: 2.8 N (at an early stage), 2.0 N (after ageing)

Current Carrying Capacity: 5 A (to 7 A within some conditions)

Wire Size Range: from 0.22 to 0.5 mm², specific 0.75 mm² application possible

Contact Finish: Tin and gold plating

Material:

Copper Alloy

Temperature Range: -40 °C up to +100 °C

Contact Retention Force: 100 N (retainer block)

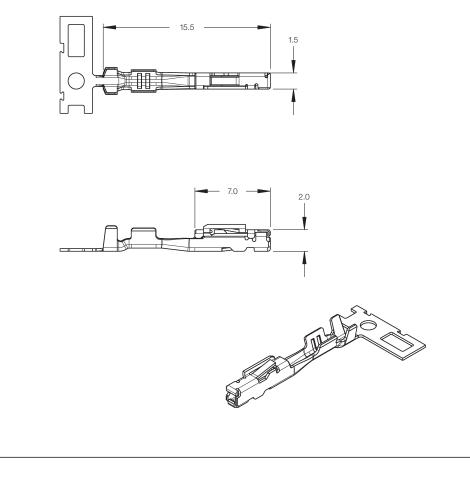
Application Specification: 114-5250 & 114-15120 (for ISO wire)

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Wire Size	Insulation	Material	Part Numbers					
Range (mm²)	Diameter (mm)	and Finish	Strip Form	Package Quantity	Applicator	Hand Tool with Die Set		
0.22–0.50	0.95–1.70	Copper alloy, pre-tin plated	1674298-1	10,000	x-1528438-x	1463260-1		
0.22–0.50	0.95–1.70	Gold plated (0.8 µm)	1801069-2	10,000	Applicator restricted	1463260-1		
0.22-0.50	0.95–1.70	Gold plated (0.38 µm)	1123343-2	10,000	x-1528240-x	1463260-1		
0.50–0.75**	1.30–1.70	Gold plated (0.8 μm)	1801248-2 *	10,000	on request	-		

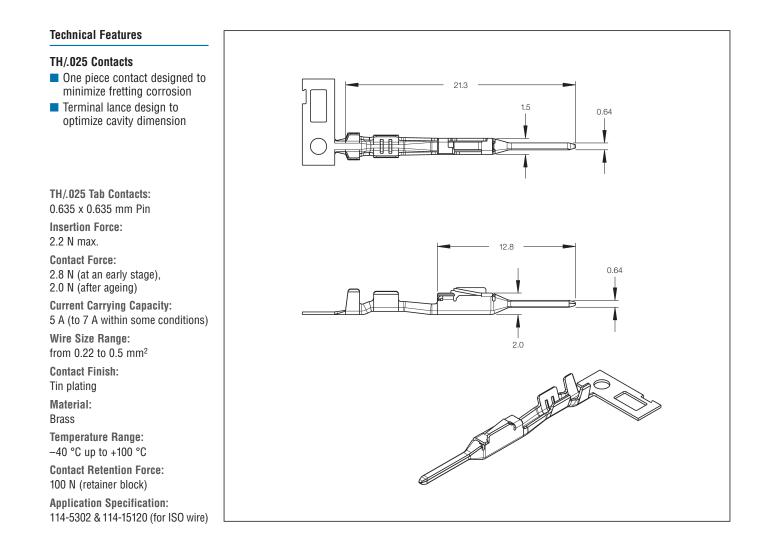
*) Recommended for Airbag Applications (0.5 mm²)

**) 0.75 mm² Application depending on Wire Function





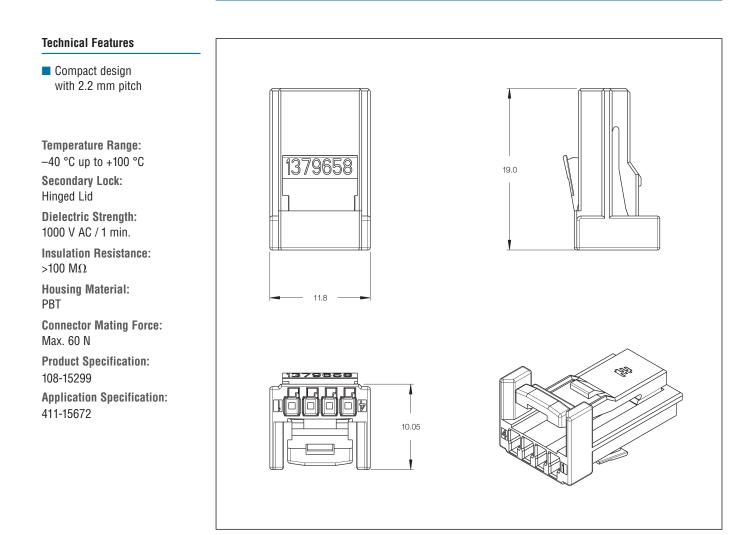
Tab Contacts



Tab Contacts

Wire Size	Insulation	Material	Part Numbers				
Range (mm²)	Diameter (mm)	and Finish	Strip Form	Package Quantity	Applicator	Hand Tool with Die Set	
0.35–0.50	1.1–1.7	Brass, tin plated	1674742-1	10,000	x-1528265-x	1463260-1	





No. of	Hausian	lauden K. S			Part Numbers		
Positions	No. of Housing Positions Material	Keying Housing Options Color	Receptacle Housing	Package Quantity	Mating Tab Housing		
4	PBT	1	Black	1379658-1	900	1379674-1	
(1 Row)	FDI	2	Gray	1379658-2	900	1379674-2	



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Technical Features

- Compact design with 2.2 mm pitch
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

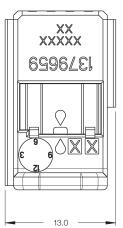
Insulation Resistance: >100 M Ω

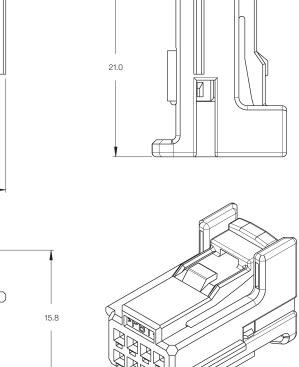
Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672





8 Position (2 Rows) Receptacle Housings

No. of Positions	Housing Material			Part Numbers		
			Housing Color	Receptacle Housing	Package Quantity	Mating Tab Housing
	PBT	1	Black	1379659-1	1,100	_
		2	Gray	1379659-2	1,100	-
8 (2 Rows)		3	Blue	1379659-3	1,100	-
(2 10003)		4	Green	1379659-4	1,100	-
		Neutral	Natural	1379659-5	1,100	1565804-2*

*) Japanese Version



Technical Features

- Compact design with 2.2 mm pitch
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

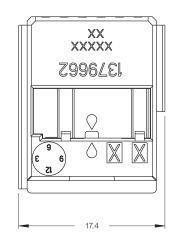
Insulation Resistance: >100 M Ω

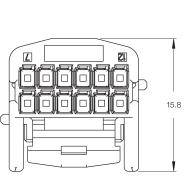
Housing Material: PBT

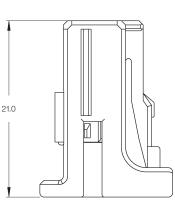
Connector Mating Force: Max. 60 N

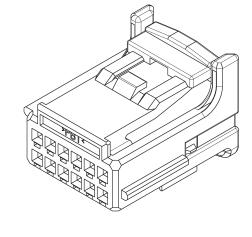
Product Specification: 108-15299

Application Specification: 411-15672









No. of	lo. of Housing sitions Material	Keying Housing Options Color			Part Numbers	
No. of Positions			Receptacle Housing	Package Quantity	Mating Tab Housing	
	PBT	1	Black	1379662-1	800	1379675-1
12 (2 Rows)		2	Gray	1379662-2	800	1379675-2
(2.1010)		Neutral	Natural	1379662-5	800	-



Technical Features

- Compact design with 2.2 mm pitch
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

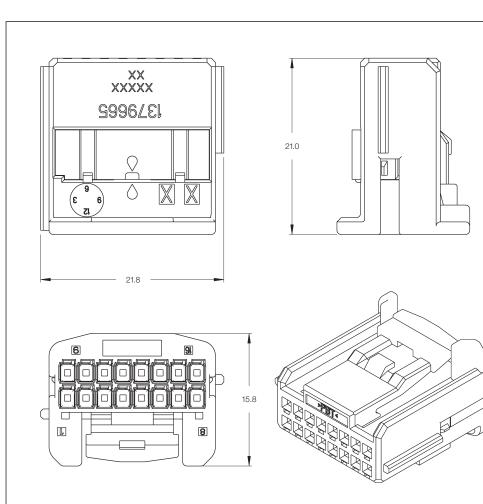
Insulation Resistance: >100 M Ω

Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672

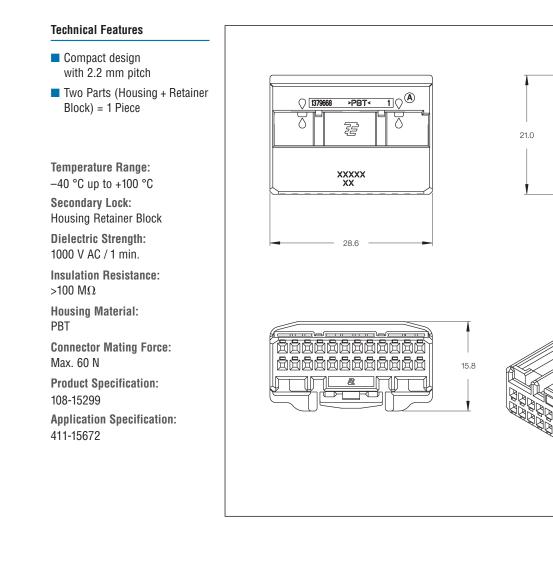


No. of Positions	Housing Material	S	Housing Color			
				Receptacle Housing	Package Quantity	Mating Tab Housing
	PBT	1	Black	1379665-1	700	1379678-1
		2	Gray	1379665-2	700	1379678-2
16 (2 Rows)		3	Blue	1379665-3	700	-
(211000)		4	Green	1379665-4	700	-
		Neutral	Natural	1379665-5	700	-



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Receptacle Housings



No. of	No. of Housing Positions Material	Keying Housing Options Color			Part Numbers	
No. of Positions			Receptacle Housing	Package Quantity	Mating Tab Housing	
	PBT	1	Black	1379668-1	500	1379681-1
24 (2 Rows)		2	Gray	1379668-2	500	1379681-2
(2110110)		Neutral	Natural	1379668-5	500	-





- Compact design with 2.2 mm pitch
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

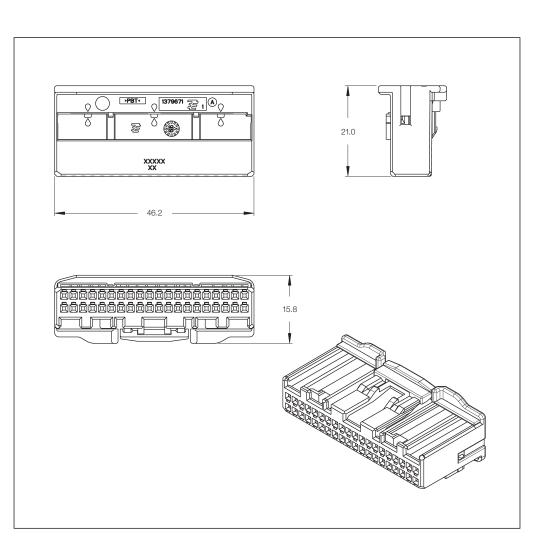
Insulation Resistance: >100 M Ω

Housing Material: PBT

Connector Mating Force: Max. 100 N

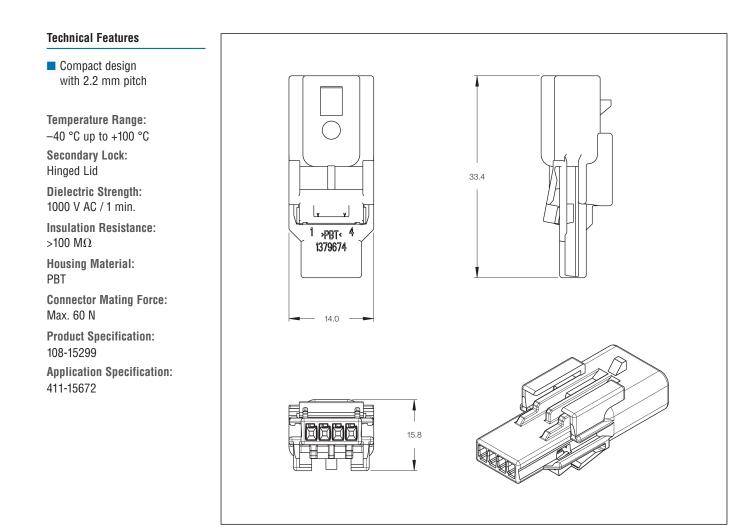
Product Specification: 108-15299

Application Specification: 411-15672



No. of Positions	Housing Material				Part Numbers	
			Housing Color	Receptacle Housing	Package Quantity	Mating Tab Housing
		1	Black	1379671-1	400	_
		2	Gray	1379671-2	400	-
40 (2 Rows)	PBT	3	Blue	1379671-3	400	-
(2 10003)		4	Green	1379671-4	400	-
		Neutral	Natural	1379671-5	400	_





No. of	Hausian				Part Numbers	
No. of Positions	Housing Material	Keying Options	Housing Color	Color Tab Pac	Package Quantity	Mating Receptacle Housing
4	4 PBT	1	Black	1379674-1	800	1379658-1
(1 Row)	гы	2	Gray	1379674-2	800	1379658-2



Technical Features

- 2.2 mm pitch (Japanese Version)
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

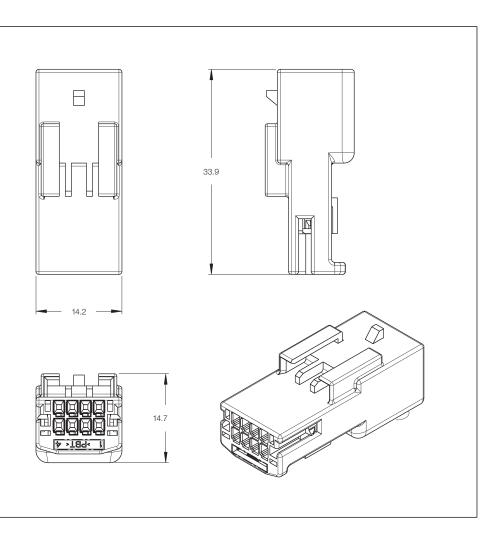
Insulation Resistance: >100 M Ω

Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-5787

Application Specification: 411-78011



No. of					Part Numbers		
No. of Positions	Material	Housing Keying Material Options	Housing Color	Tab Housing	Package Quantity	Mating Receptacle Housing	
8 (2 Rows)	PBT	Neutral	Natural	1565804-2	200	1379659-5	



Technical Features

- Compact design with 2.2 mm pitch
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C Secondary Lock:

Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

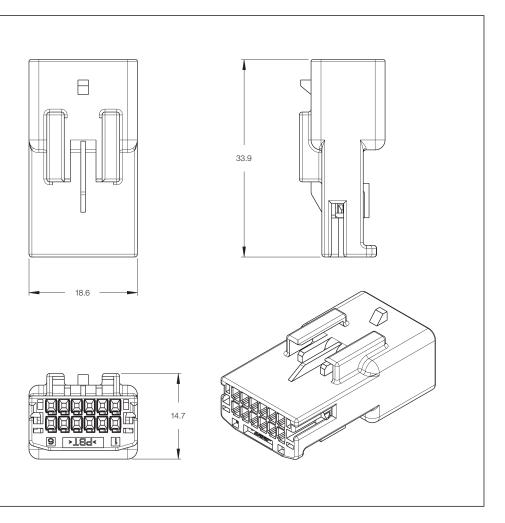
Insulation Resistance: >100 $M\Omega$

Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672



No. of	Hausian			Part Numbers			
No. of Positions	Housing Material	Keying Options	ions Color 1	Tab Housing	Package Quantity	Mating Receptacle Housing	
12	PBT	1	Black	1379675-1	500	1379662-1	
(2 Rows)	гы	2	Gray	1379675-2	500	1379662-2	



Technical Features

- Compact design with 2.2 mm pitch
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

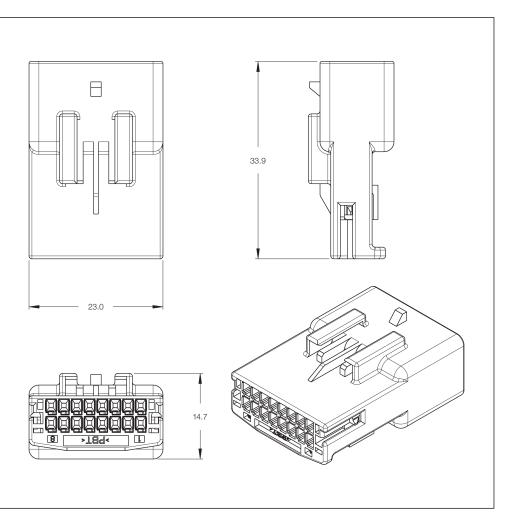
Insulation Resistance: >100 $M\Omega$

Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672



No. of	Hausian	. ·			Part Numbers	
No. of Positions	Housing Material	Keying Options	Keying Housing Options Color	Tab Housing	Package Quantity	Mating Receptacle Housing
16	PBT	1	Black	1379678-1	400	1379665-1
(2 Rows)	гы	2	Gray	1379678-2	400	1379665-2



Technical Features

- Compact design with 2.2 mm pitch
- Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40 °C up to +100 °C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

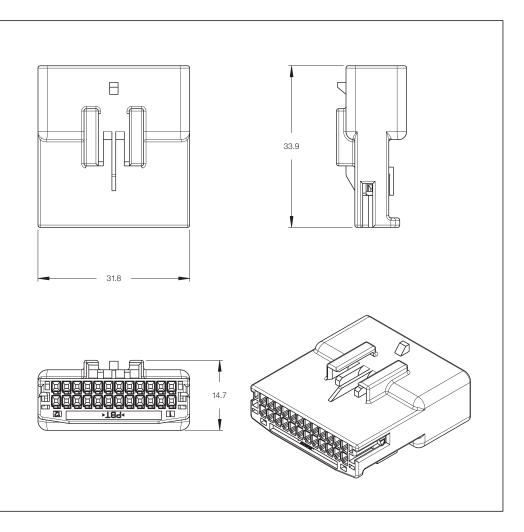
Insulation Resistance: >100 M Ω

Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672

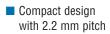


No. of Positions	Housing Material	Keying Options			Part Numbers	
			Housing Color	Tab Housing	Package Quantity	Mating Receptacle Housing
24	PBT ·	1	Black	1379681-1	300	1379668-1
(2 Rows)		2	Gray	1379681-2	300	1379668-2

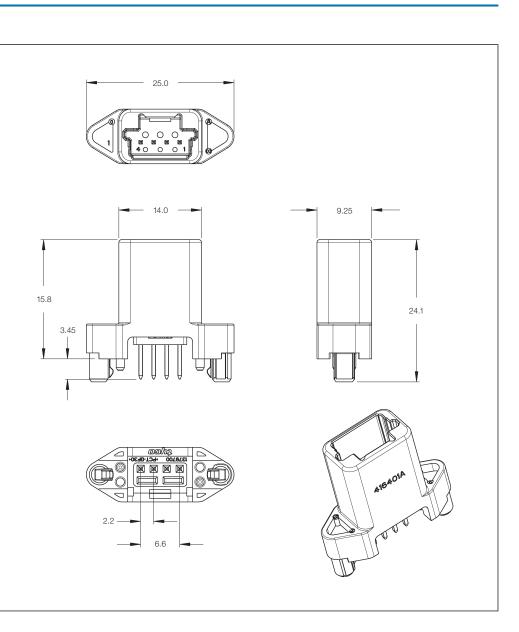


Headers - Vertical Type

Technical Features



- Designed for Reflow Leadfree Process
- PCT Raw Material
- Board Locks
- Locating Pin (PCB Mechanical Coding)
- Pin Material: Bronze
- Product Specification: 108-15326



4 Position Straight Header – Vertical Type

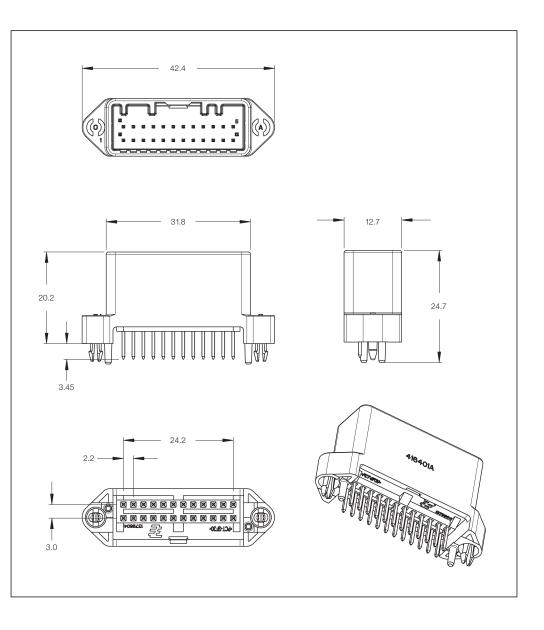
No. of Positions	Housing Material	Keying Options	Housing Color	Part Numbers				
				Header	Package Quantity	Packaging	Mating Receptacle Housing	
4	PCT	1	Black	1379700-1	1440	Tray	1379658-1	



Headers - Vertical Type

Technical Features

- Compact design with 2.2 mm pitch
- Designed for Reflow Leadfree Process
- PCT Raw Material
- Board Locks
- Locating Pin (PCB Mechanical Coding)
- Pin Material: Bronze
- Product Specification: 108-15326



24 Position Straight Header – Vertical Type

No. of Positions	Housing Material	Keying Options	Housing Color	Part Numbers				
				Header	Package Quantity	Packaging	Mating Receptacle Housing	
24 PCT	1	Black	1379604-1	650	Tray	1379668-1		
	FUI	2	Gray	1379604-2	650	Tray	1379668-2	

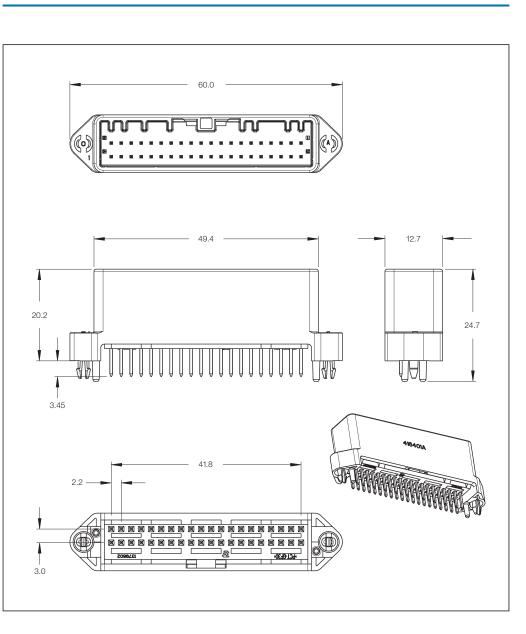
Other designs available.



Headers - Vertical Type

Technical Features

- Compact design with 2.2 mm pitch
- Designed for Reflow Leadfree Process
- PCT Raw Material
- Board Locks
- Locating Pin (PCB Mechanical Coding)
- Pin Material: Bronze
- Product Specification: 108-15326



40 Position Straight Header – Vertical Type

No. of Positions	Housing Material	Keying Options	Housing Color	Part Numbers				
				Header	Package Quantity	Packaging	Mating Receptacle Housing	
		1	Black	1-1379602-1	390	Tray	1379671-1	
40	PCT	2	Gray	1-1379602-2	390	Tray	1379671-2	
		4	Green	1-1379602-4	390	Tray	1379671-4	

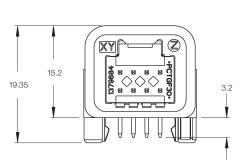
Other designs available.



Headers – Horizontal Type

Technical Features

- Compact design with 2.2 mm pitch
- Designed for Reflow Leadfree Process
- PCT Raw Material
- Board Locks
- Locating Pin (PCB Mechanical Coding)
- Pin Material: Bronze
- Product Specification: 108-15383



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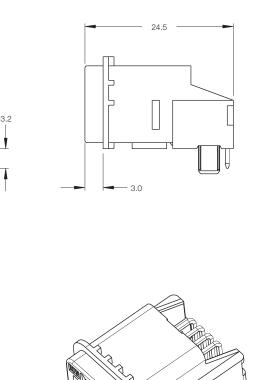
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8 Position Right-Angle Header – Horizontal Type

No. of Positions	Housing Material	Keying Options	Housing Color	Part Numbers				
				Header	Package Quantity	Packaging	Mating Receptacle Housing	
	PCT	1	Black	1379684-1	1,210	Tray	1379659-1	
		2	Gray	1379684-2	1,100	Special Tray	1379659-2	
		3	Blue	1379684-3	1,100	Special Tray	1379659-3	
8		1	Black	1379684-4	1,600	Tubes	1379659-1	
o		2	Gray	1379684-5	1,600	Tubes	1379659-2	
		3	Blue	1379684-6	1,600	Tubes	1379659-3	
		3	Blue	1379684-7	1,210	Tray	1379659-3	
		1	Black	1-1379684-1	1,100	Special Tray	1379659-1	