

CP-2.5 Mini Connector System



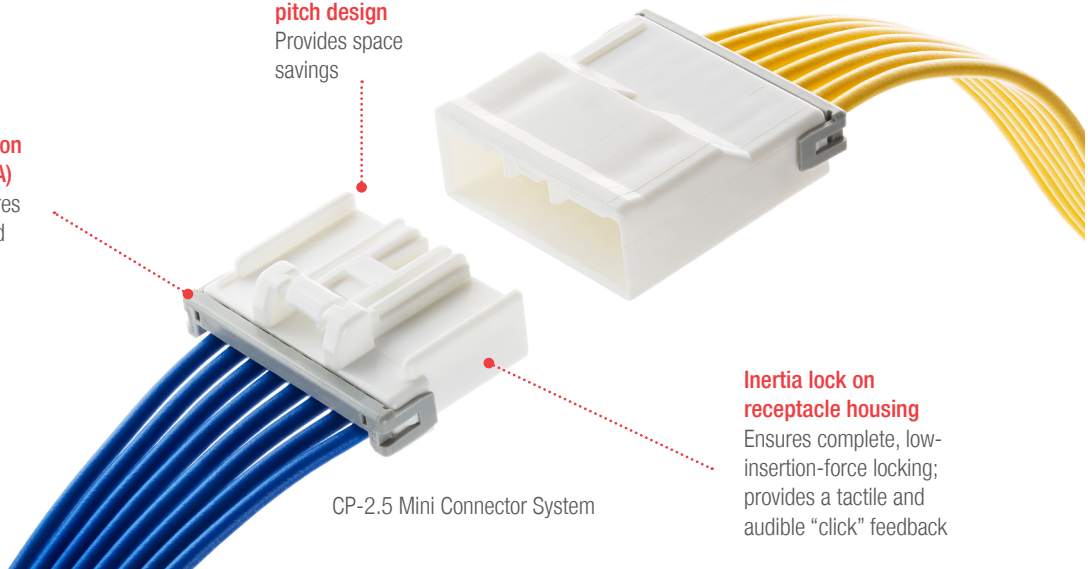
Ideal for compact applications, the CP-2.5 Mini Connector System provides electrical and mechanical reliability in a compact design that meets consumer and industrial industry requirements

Features and Advantages

Terminal position assurance (TPA)
Ensures that wires are fully inserted

2.50mm-pitch design
Provides space savings

Inertia lock on receptacle housing
Ensures complete, low-insertion-force locking; provides a tactile and audible "click" feedback



Applications

Consumer / Home Appliances

- White goods
- Water heaters

Industrial / Industrial Automation

- HVAC
- Copiers
- Vending machines



Air Conditioners



White Goods



Water Heaters

CP-2.5 Mini Connector System



Specifications

REFERENCE INFORMATION

Packaging:
 Terminal: Reel
 Housing and Retainer: Bag
 Designed In: millimeters
 RoHS: Yes
 Halogen Free: No
 Glow-wire Capable: No
 Operating Temperature: -40 to +85°C

PHYSICAL

Housing: PBT UL94V-0
 Retainer: PBT UL94V-0
 Terminal: Pre-Tin-Plated

MECHANICAL

Insertion Force (max.): 39.2N (8 circuit)
 Crimp Pull-out Force (min.): 29.4N (AWG 24)
 Terminal Retention Force (max.): 19.6N
 Durability (max.): 30 cycles

ELECTRICAL

Voltage (max.): 250V AC
 Current (max.): 3.0A
 Low-level Contact Resistance (max.): 20 milliohms
 Dielectric Withstanding Voltage: 1,000V AC
 Insulation Resistance (min.): 1,000 Megohms

Ordering Information

Product Type	Circuits	Colors	Order No.	Housing Color Codes		Retainer
				2 Circuits	3 Circuits	Order No.
Receptacle Housing	2	4	50059202xx	00-Natural 01-Black 02-Red 04-Blue	00-Natural 01-Black	5008170205
	3	2	50059203xx			5008170305
	4	1	5005920400			5008170405
	5	1	5005920500			5008170505
	6	1	5005920600			5008170605
	7	1	5005920700			5008170705
	8	1	5005920800			5008170805
Plug Housing	2	4	50059302xx	00-Natural 01-Black 02-Red 04-Blue	00-Natural 01-Black	5008170205
	3	2	50059303xx			5008170305
	4	1	5005930400			5008170405
	5	1	5005930500			5008170505
	6	1	5005930600			5008170605
	7	1	5005930700			5008170705
	8	1	5005930800			5008170805

Product Type	Plating	Wire Size	Order No.	Application Tooling for Crimp Terminals		
				Tool Type	3 Circuits	Order No.
Female Terminal	Phosphor Bronze Pre-tinned	AWG 22 to 28	503978000	Applicator	638635000	573163700
Male Terminal				Hand Tool	638238000	573166000
			503988000	Extractor	638138600	573166100

www.molex.com/link/cp25.html

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