

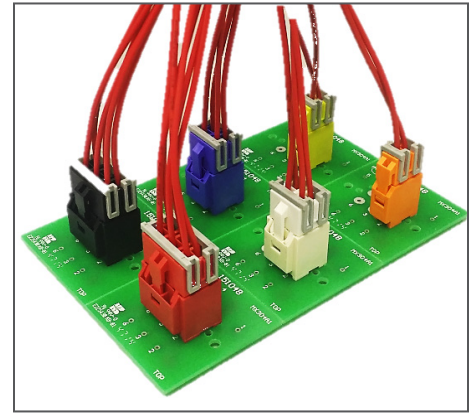
CP-6.5 Wire-to-Board Connector System



Leveraging full keying and color-pairing features, foolproof CP-6.5 wire-to-board connectors and harnesses enhance user-safety while speeding up consumer and industrial interconnect assembly applications

Features and Benefits

Wide spectrum of housing colors	Allows quick identification of mating combination for assembly and repair
Polarization keys on housing rib	Eliminate mis-mating and consequent electrical shorting of application
Positive lock feature on housing	Produces an audible click when fully mated
Kinked soldertails	Provide added header-to-PCB retention during solder reflow
Absence of drain-holes in PCB headers	Ensure compatibility with conformal coating (potting)
Headers are 260°C wave-solder-process capable	Ideal for high-temperature assembly processing



2, 4 and 6-circuit CP-6.5 Wire-to-Board Connectors and Wire Harnesses

Applications

Consumer / Home Appliances

- Washing machines
- Water heaters
- Air-conditioners

Industrial / Industrial Automation

- Industrial controls
- HVAC
- Copiers
- Vending machines
- Security systems



Home Appliances



Vending Machines



Water Heaters



Air Conditioning System



Copier Machines

Specifications

Reference Information

Packaging: Refer to table
 Designed In: Millimeter
 RoHS: Yes
 Halogen Free: No
 Glow-wire Compliant: No

Electrical

Voltage (max.): 600V AC
 Current (max.): 2 to 10A
 Low Level Contact Resistance (max.): 10 milliohms
 Dielectric Withstanding Voltage: 1500V AC
 Insulation Resistance (min.): 1,000 megohm

Mechanical

Insertion Force or Lock Strength (max.): 49.0N
 Receptacle Crimp Pull-out Force: 14.7 to 127.4 N
 Terminal Retention Force (max.): 39.2N
 Durability (max.): 30 cycles

Physical

Housing:
 Polyamide (PA), glass-filled, UL94V-0 (151048)
 PBTB (151049)
 Contact: Copper Alloy
 Plating:
 Contact Area — Tin
 Soldertail Area — 1.27micron Matt Tin
 over 1.27micron Nickel underplate
 Operating Temperature: -40 to +105°C

CP-6.5 Wire-to-Board Connector System



Ordering Information

Series No.	Component
151048	Vertical PCB Headers
151049	Receptacle Housings
50597	Receptacle Terminals, AWG 16 to 22, diameter 3.30 to 2.00mm

Series No.	Component
50598	Receptacle Terminals, AWG 20 to 26, diameter 2.35 to 1.25mm
51143	Retainer

Part No.	Housing Colors	Circuit	Receptacle Part No.	Terminal Positioning Assurance (TPA) Part No.	Crimp Terminals Part No.
151183-2200	 Orange	2	151049-2200	51143-0105	505098-8000 (Chain: AWG 20, 26) 505097-8000 (Chain: AWG 16, 22)
151183-2201	 Blue	2	151049-2201		
151183-2203	 Yellow	2	151049-2203		

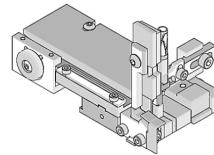
Part No.	Housing Colors	Circuit	Receptacle Part No.	Terminal Positioning Assurance (TPA) Part No.	Crimp Terminals Part No.
151183-2401	 Blue	4	151049-2401	51143-0205	505098-8000 (Chain: AWG 20, 26)
151183-2406	 Black	4	151049-2406		
151183-2601	 Blue	6	151049-2601	51143-0305	505097-8000 (Chain: AWG 16, 22)
151183-2609	 Red	6	151049-2609		



Extractor



Hand Crimping Tool



T2 Termination Tooling



Applicator

Crimp Terminal (Part Number 50597-8000)		Crimp Terminal (Part Number 50598-8000)	
Global			
Part No.	Type	Part No.	Type
63819-7600	Hand Crimp Tool for Wire-to-Wire and Wire-to-Board Terminals	-	-
63901-2300	FineAdjust™ Applicator for 3.96mm Pitch Wire-to-Wire and Wire-to-Board Crimp Terminal	63901-9900	FineAdjust™ Applicator for 3.96mm Pitch Crimp Terminal, 24 AWG
63901-2200	Fine Adjust™ Applicator for 3.96mm Pitch Wire-to-Wire and Wire-to-Board Crimp Terminal	63901-9800	FineAdjust™ Applicator for 3.96mm Pitch Crimp Terminal, 20 to 26 AWG
63911-2200	T2 Terminator for 3.96mm Pitch Wire-to-Wire and Wire-to-Board Crimp Terminal	63911-9900	T2 Terminator for 3.96mm Pitch Crimp Terminal, 24 AWG
63819-7500	Hand Crimp Tool for Wire-to-Wire and Wire-to-Board Terminals	63823-5300	Hand Crimp Tool for Wire-to-Wire and Wire-to-Board Terminals
63819-7700	Hand Crimp Tool for Wire-to-Wire and Wire-to-Board Terminals	63823-5400	Hand Crimp Tool for Wire-to-Wire and Wire-to-Board Terminals
63813-2700	Extraction Tool	63813-2700	Extraction Tool
63911-2300	T2 Terminator for 3.96mm Pitch Wire-to-Wire and Wire-to-Board Crimp Terminal	63911-9800	T2 Terminator for 3.96mm Pitch Crimp Terminal, 20 to 26 AWG
Japan			
Part No.	Type	Part No.	Type
57347-3000	Applicator for M211A Bench Press, 16 to 26 AWG Wires	57347-3000	Applicator for M211A Bench Press, 16 to 26 AWG Wires
57347-3200	Side-Feed Applicator For Full-Auto Machine	57347-3200	Side-Feed Applicator For Full-Auto Machine
57347-6000	Extraction Tool	57347-6000	Extraction Tool

www.molex.com/link/cp65.html