

CP-6.5 Wire-to-Board Connector System

molex[®]

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

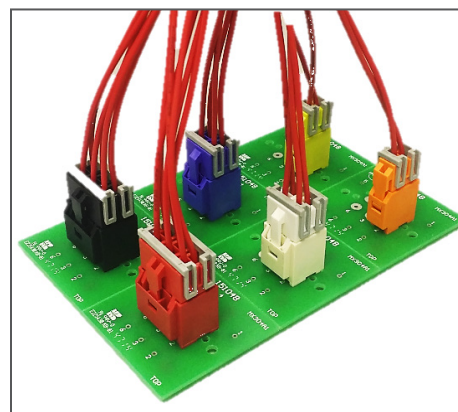
Provide added header-to-PCB retention during solder reflow

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
Solder-tail Area — 1.27micron Matt Tin
over 1.27micron Nickel underplate
Operating Temperature: -40 to +105°C

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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

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		

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

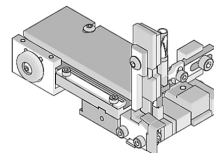
Part No.	Housing Colors	Circuit	Receptacle Part No.	Terminal Positioning Assurance (TPA) Part No.	Crimp Terminals Part No.
151183-2401	 Blue	4	151049-2401	51143-0205	505098-8000 (Chain: AWG 20, 26)
151183-2406	 Black	4	151049-2406		
151183-2601	 Blue	6	151049-2601	51143-0305	505097-8000 (Chain: AWG 16,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