CP-3.3 Wire-to-Board Connectors

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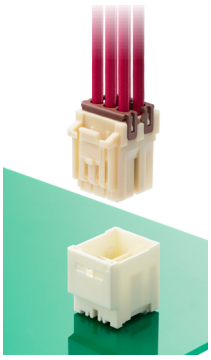
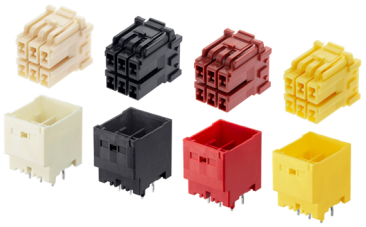
Glow wire compliant and potting capable CP-3.3 Wire-to-Board Connectors feature full keying and color pairing to prevent mis-mating and enhance user safety in consumer electronics, white goods, industrial and medical applications





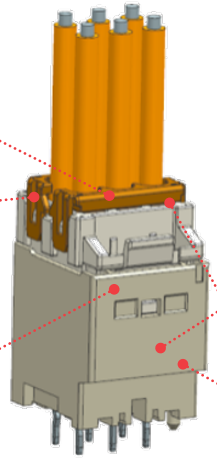
CP-3.3 Wire-to-Board Connectors

Features and Advantages

Fully polarized and color-coded plugs and receptacles
Facilitate easy identification of mating parts, preventing mis-mating and speeding up the assembly process

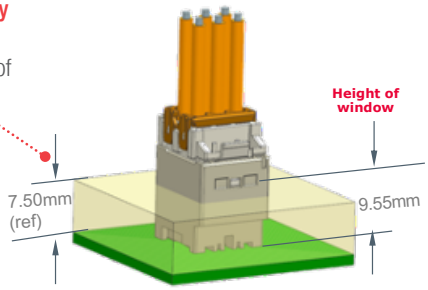
Two terminal position assurance (TPA) retainers
Ensure that crimped terminals are fully inserted

Inertia (less impact to PC board) inner lock on receptacle housing
Facilitates low-insertion-force locking; tactile and audible 'click' ensures fully locked housings

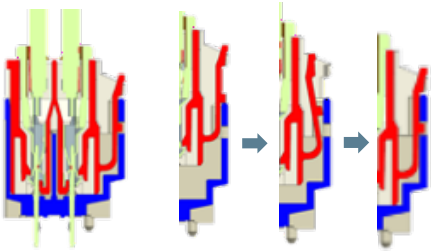


Kinked solder tails
Offer added header to PCB retention during solder reflow

Potting capability (7.50mm height)
Prevents ingress of dust and water



Glow wire compatible
Meets global safety and environmental requirements



Applications

Industrial Automation
- Automation equipment

Consumer
- White goods
- Gaming machines
- Drones
- Air conditioners
- Laser printers
- Vacuum cleaners
- Desktop PCs
- Power tools

Automotive
- Infotainment

Medical
- Patient monitoring

Home Appliance (White Goods)

Vending Machine

Air Conditioner

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Specifications

REFERENCE INFORMATION

Packaging:
- Reel (Terminal)
- Tray (Plug Header)
- Bag (Receptacle Housing and Retainer)

Use With: 212213 (Retainer)
- 50397 Terminals (22-24/26-28 AWG)
- 505607 Terminal (18-20 AWG)

Designed In: Millimeters
RoHS: Yes
Halogen Free: No
Glow Wire Compliant: Yes

ELECTRICAL

Voltage (max.): 300V
Current (max.): 8.5A (18AWG)
- 7.0A (20 AWG)
- 6.0A (22 AWG)
- 5.0A (24 AWG)
- 4.5A (26 AWG)
- 4.0A (28 AWG)

Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 1500VAC/minute
Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Contact Insertion Force (max.): 9.8N
Contact Retention to Housing (min.): 19.6N
Mating Force (max.): 29.4N (6 Circuits)
Unmating Force (min.): 2.7N (6 Circuits)
Durability (max.): 30 cycles

PHYSICAL

Header: PA UL 94V-0
Housing: PA UL 94V-0
Retainer: PA UL 94V-0
Contact: Copper Alloy
Plating:
- Contact Area — Tin 1.0-micron min.
- Solder Tail Area — Tin 1.0-micron min.

Operating Temperature: -40 to 105°C

Ordering Information

Series No.	Pitch (mm)	Component	Circuits / Wire Size	Rows	Color
50397	3.30	Female Receptacle Terminal	22-24 AWG 26-28 AWG	-	-
505607		Female Receptacle Terminal	18-20 AWG	-	-
212209		Receptacle Housing	2, 4, 6	Dual	Natural Black Red Yellow
212210		Vertical Header			
212213		TPA Retainer	1, 2, 3	Single	Brown

www.molex.com//link/cp33.html

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Order No. 987652-3281 USA/0k/GF/2020.12

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