

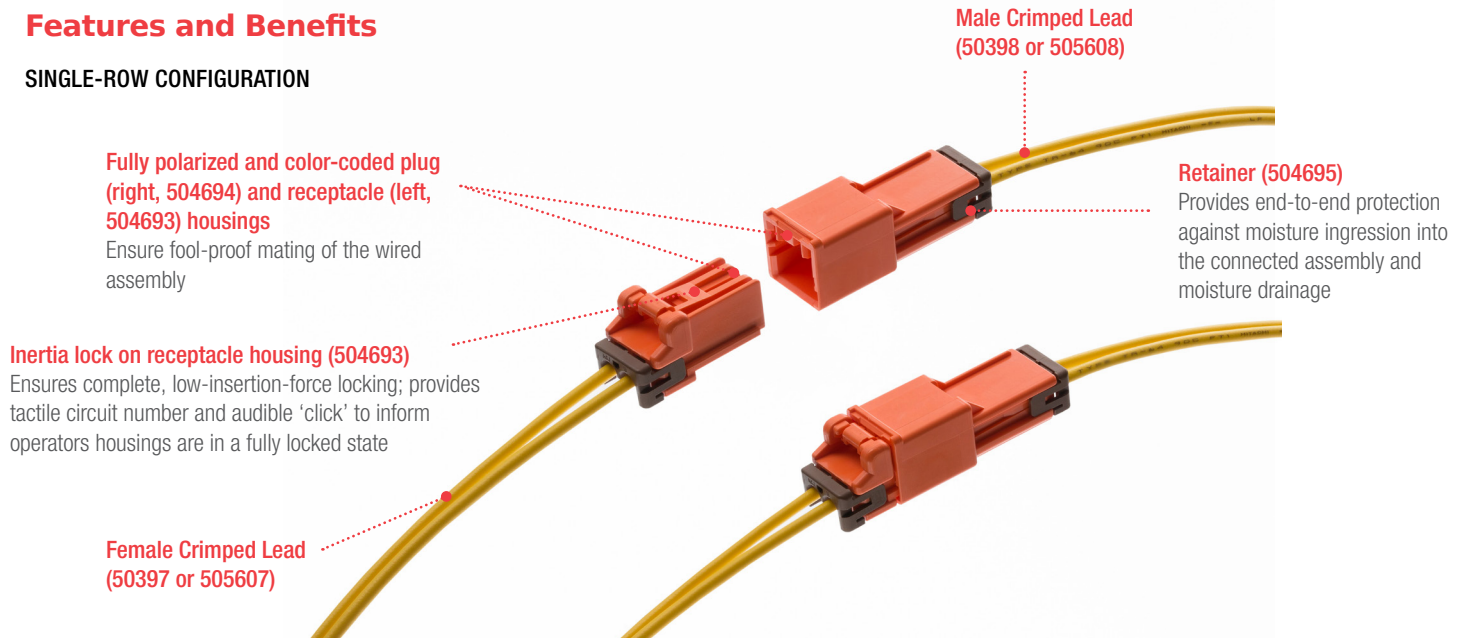
CP-3.3 Wire-to-Wire Connector System



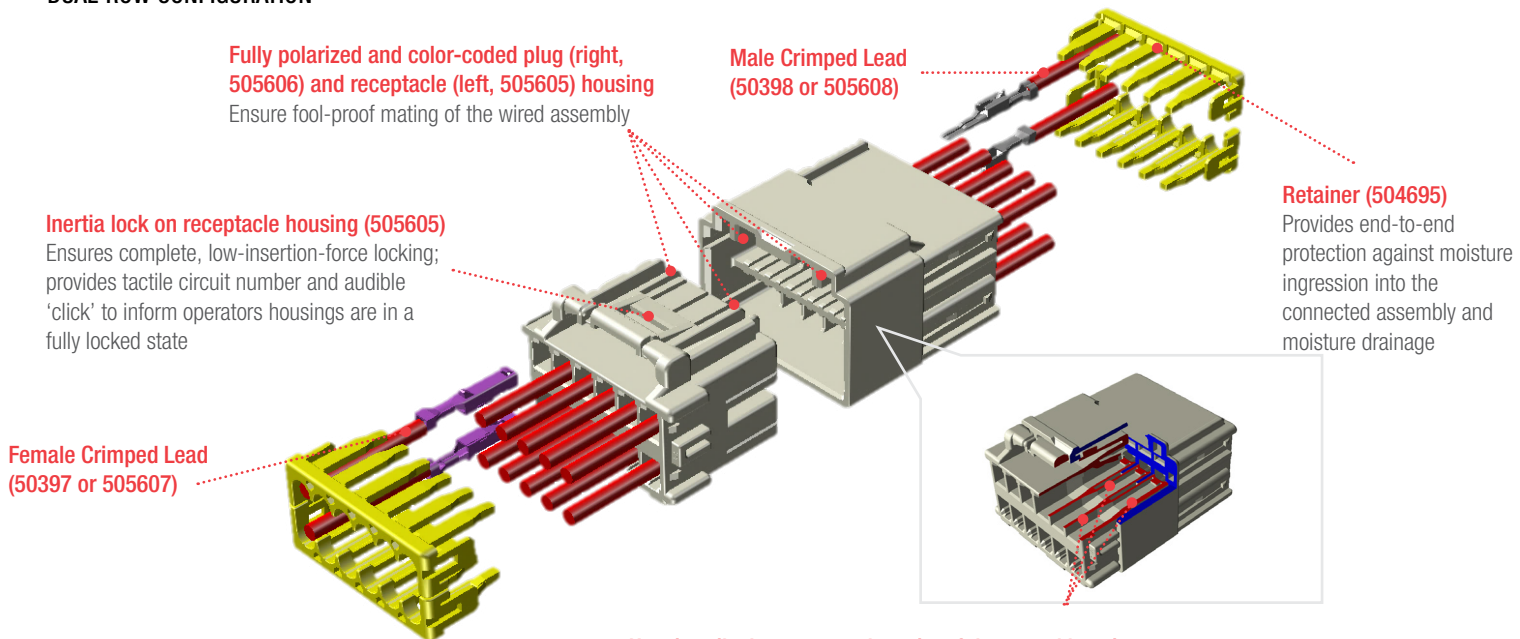
Leveraging full keying and color-pairing features, foolproof CP-3.3 wire-to-wire connectors enhance user-safety while preventing moisture seepage in consumer electronics, white goods, industrial and medical applications

Features and Benefits

SINGLE-ROW CONFIGURATION



DUAL-ROW CONFIGURATION



Housing ribs between each cavity of the mated housings
Prevent seepage of condensation moisture into the connected system causing electrical shorting

Applications

Home Appliance

- Air Conditioner
- Refrigerator
- Microwave Oven
- Washing Machine
- Water Heater
- Vending Machines

Consumer Electronics

- Fitness
- Home Entertainment
- Home Office
- Home Security

Medical

- Autoclaves



Home Appliance (White Goods)



Water heater



Vending machine

CP-3.3 Wire-to-Wire Connector System



Specifications (Single-row Configuration)

REFERENCE INFORMATION

Packaging
 Reel (Terminal)
 Bag (Housing and Retainer)
 Mates With: 504693 with 504694
 Use With: 504695 (Retainer)
 50397/50398 Terminals (22-28 AWG)
 505607/505608 Terminals (18-22 AWG)
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: No
 Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 300V
 Current (max.):
 Refer to Derating Current table below
 Contact Resistance (max.): 20 milliohms
 Dielectric Withstanding Voltage: AC1000V / minute
 Insulation Resistance (min.): 1000 Megaohm

MECHANICAL

Contact Insertion Force (max.): 9.8N
 Contact Retention to Housing (min.): 19.6N
 Mating Force (max.): 20.5N (6 circuits)
 Unmating Force (min.): 3.6N. (6 circuits)
 Durability: 30 cycles

PHYSICAL

Housing: PBT UL94-V0
 Retainer: PBT UL94-V0
 Contact: Copper Alloy
 Plating:
 Contact Area — Tin 0.9micron min.
 Solder Tail Area — Tin 0.9micron min.
 Operating Temperature: -40 to 105°C

AWG	2 circuits	4 circuits	6 circuits
	Current (A)		
18	7.0	6.0	6.0
20	6.5	5.0	5.0
22	4.5	3.0	3.0
24	2.5	2.5	2.5
26	3.5	2.0	2.0
28	2.5	1.5	1.5

(1) Values are for REFERENCE only. (2) Data is for all circuits powered.

Specifications (Dual-row Configuration)

REFERENCE INFORMATION

Packaging
 Reel (Terminal)
 Bag (Housing and Retainer)
 Mates With: 505606 with 505607
 Use With: 504695 (Retainer)
 50397/50398 Terminals (22-28 AWG)
 505607/505608 Terminals (18-22 AWG)
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: No
 Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 300V
 Current (max.):
 Refer to Derating Current table below
 Contact Resistance (max.): 20 milliohms
 Dielectric Withstanding Voltage: AC1000V / minute
 Insulation Resistance (min.): 1000 Megaohm

MECHANICAL

Contact Insertion Force (max.): 9.8N
 Contact Retention to Housing (min.): 19.6N
 Mating Force (max.): 37.7N (12 circuits)
 Unmating Force (min.): 7.1N (12 circuits)
 Durability: 30 cycles

PHYSICAL

Housing: PBT UL94-V0
 Retainer: PBT UL94-V0
 Contact: Copper Alloy
 Plating: Contact Area — Tin 0.9micron min.
 Solder Tail Area — Tin 0.9micron min.
 Operating Temperature: -40 to 105°C

AWG	4 circuits <small>(in development; ready early Aug 2017)</small>	8 circuits	12 circuits
	Current (A)		
18	7.0	6.0	6.0
20	6.5	5.5	5.0
22	4.5	3.5	3.5
24	3.5	3.0	3.0
26	3.5	2.5	2.5
28	2.5	2.0	2.0

(1) Values are for REFERENCE only. (2) Data is for all circuits powered.

CP-3.3 Wire-to-Wire Connector System



Ordering Information

Series No.	Component	Wire Size / Number of rows	Circuits		Housing Colors
50397	Crimp Terminal for Receptacle	AWG 22-28	-		-
50398	Crimp Terminal for Plug		-		-
505607	Crimp Terminal for Receptacle	AWG 18-22	-		-
505608	Crimp Terminal for Plug		-		-
504693	Receptacle Housing	Single-row	2, 3, 4, 6	2	Natural, Black, Red, Yellow, Blue, Pink, Green, Orange, Purple
504694	Plug Housing			3	Natural, Black
				4	Natural, Black, Red, Yellow, Blue
				6	Natural, Black, Red, Yellow, Blue
505605	Receptacle Housing			Dual-row	8, 10, 12 (4 and 6 circuits in development)
505606	Plug Housing				
504695	Retainer	Single and Dual-row	2, 3, 4, 5, 6		Brown

www.molex.com/link/cp33.html

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