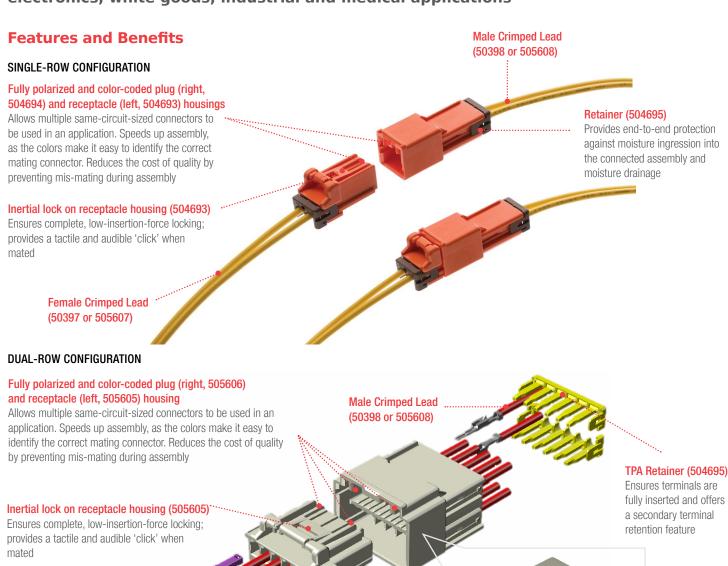
CP-3.3 Wire-to-Wire Connector System



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



Applications

Female Crimped Lead (50397 or 505607)

Home Appliance Consumer Electronics

Air Conditioner Fitness

Refrigerator Home Entertainment

Microwave Oven Home Office

Washing Machine Home Security

Water Heater **Medical**Vending Machines Autoclaves



the other contaminants

Home Appliance (White Goods)



Increase creepage and clearance distances to help prevent arcing in presence of moisture or

Housing ribs between each cavity of the mated housings

Water heater



Vending machine

CP-3.3 Wire-to-Wire Connector System



Specifications (Single-row Configuration)

ELECTRICAL

Voltage (max.): 500V Current (max.):

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

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

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

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

AWG	2 circuits	4 circuits	6 circuits
AWG	Current (A)		
18 (with 505607/505608)	7.5	6.5	6.0
20 (with 505607/505608)	6.5	5.5	5.5
22 (with 505607/505608)	5.5	5.0	4.5
22 (with 50397/50398)	5.0	4.5	4.0
24 (with 50397/50398)	4.0	3.5	3.5
26 (with 50397/50398)	3.5	3.0	3.0
28 (with 50397/50398)	3.0	2.5	2.5

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

Specifications (Dual-row Configuration)

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

Operating Temperature: -40 to 105°C

ELECTRICAL

Voltage (max.): 500V Current (max.):

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

REFERENCE INFORMATION

Packaging

Reel (Terminal)

Bag (Housing and Retainer)
Mates With: 505605 with 505606
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

PHYSICAL

Housing: PBT UL94-V0 Retainer: PBT UL94-V0 Contact: Copper Alloy

Plating: Contact Area — Tin 0.9micron min. Solder Tail Area — Tin 0.9microm min.

AWG	4 circuits	8 circuits	12 circuits	
AWG	Current (A)			
18 (with 505607/505608)	7.0	6.0	6.0	
20 (with 505607/505608)	6.5	5.5	5.0	
22 (with 505607/505608)	5.0	4.5	4.0	
22 (with 50397/50398)	4.5	3.5	3.5	
24 (with 50397/50398)	3.5	3.0	3.0	
26 (with 50397/50398)	3.5	2.5	2.5	
28 (with 50397/50398)	2.5	2.0	2.0	

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

Ordering Information

Series No.	Component	Wire Size / Number of rows	Circuits		Housing Colors	
<u>50397</u>	Crimp Terminal for Receptacle	ANNO 00 00	-		-	
50398	Crimp Terminal for Plug	AWG 22-28	-		-	
505607	Crimp Terminal for Receptacle	NWO 40 00	-		-	
<u>505608</u>	Crimp Terminal for Plug	AWG 18-22			-	
<u>504693</u>	Receptacle Housing			2	Natural, Black, Red, Yellow, Blue, Pink, Green, Orange, Purple	
504694 Plug Housing	O'I	0.0.4.0	3	Natural, Black		
	Plug Housing	Single-row	2, 3, 4, 6	4	Natural, Black, Red, Yellow, Blue	
				6	Natural, Black, Red, Yellow, Blue	
<u>505605</u>	Receptacle Housing	Dual row	4, 6, 8, 10, 12		4.0.0.40.40	Matural Plank Pad Valley
<u>505606</u>	Plug Housing	Dual-row			Natural, Black, Red, Yellow	
<u>504695</u>	Retainer	Single and Dual-row	2, 3, 4, 5, 6		Brown	

www.molex.com/link/cp33.html