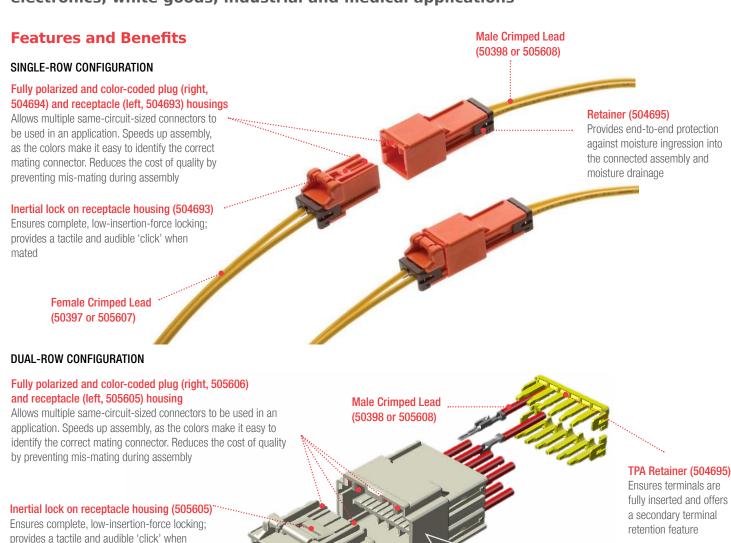
# **CP-3.3 Wire-to-Wire Connector System**



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



# (50397 or 505607)

**Female Crimped Lead** 

mated

### Housing ribs between each cavity of the mated housings

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

# **Applications**

Home Appliance Consumer Electronics

Air Conditioner Fitness

Refrigerator Home Entertainment

Microwave Oven Home Office

Washing Machine Home Security

Water Heater **Medical**Vending Machines Autoclaves



Home Appliance (White Goods)



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

ANYO	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.

A14/0	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	AWC 00 00	-		-	
<u>50398</u>	Crimp Terminal for Plug	AWG 22-28	-		-	
505607	Crimp Terminal for Receptacle	1110 10 00	-		-	
<u>505608</u>	Crimp Terminal for Plug	AWG 18-22			-	
504693	Receptacle Housing	Single-row 2, 3, 4	2 3 3 4, 6 4 6	2	Natural, Black, Red, Yellow, Blue, Pink, Green, Orange, Purple	
504694	Plug Housing			3	Natural, Black, Red, Yellow, Blue	
				4	Natural, Black, Red, Yellow, Blue	
				6	Natural, Black, Red, Yellow, Blue	
<u>505605</u>	Receptacle Housing	Dural mann	4, 6, 8, 10, 12		Diel with Deal Deal Deal Deal Deal	Material Disale Dad Vallere
<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