

# CP-4.5 Wire-to-Wire Connectors



**Glow-wire capable and halogen-free CP-4.5 Wire-to-Wire Connectors combine superb locking with fool-proof keyed, color-coded and polarized mating for reduced inventory and operational costs in consumer, industrial and power applications**

## Features and Advantages



CP-4.5 W-to-W connectors

### Positive-lock latch design

Eliminates any possibility of incomplete mating and interlocking of plug and receptacle

### Positive inertia lock

Delivers an audible mating click, latch protection, and secure terminal and mating retention

### Raised housing block on the adjacent sides

Prevents snagging of wires under the latch during harness manufacturing and storage

### Glow-wire capable

Meets global safety standards

### Halogen Free

Conforms to environmental considerations

### Integral beam

Supports both ends of the connector housing to prevent wire-snagging

### Polarization keys on housing ribs

Prevent mis-mating, which can cause electrical shorting

### Wide spectrum of housing colors

Allows quick identification of mating combinations for assembly and repair purposes

## Markets and Applications

### Consumer

- Washing machines
- Water heaters
- Air conditioners

### Industrial / Industrial Automation

- HVAC system
- Copiers
- Vending machines
- Power (Power Supplies, UPS)
- Wire-to-Device



Water Heaters



Copier Machines



Home Appliances



Air Conditioning Systems

# CP-4.5 Wire-to-Wire Connectors



## Specifications

### REFERENCE INFORMATION

Packaging  
Terminal: Reel  
Housing and Retainer: Bag  
Designed In: millimeters  
RoHS: Yes  
Halogen Free: Yes  
Glow-wire Compliant: Yes

### ELECTRICAL

Voltage (max.): 600V AC(RMS)/DC  
Current (max.): 2.0 to 10.0A  
Low-level Contact Resistance (max.): 5 milliohms  
Dielectric Withstanding Voltage: 1,500V AC no breakdown  
Insulation Resistance (min.): 1,000 Megohms




### MECHANICAL


Insertion Force (max.): 29.4N  
Crimping Pull-out Force(min): 14.7 to 127.4N  
Terminal Retention Force (max.): 49N  
Durability (max.): 30 cycles

### PHYSICAL

Receptacle and Plug Housing: Nylon, UL94V-0, G/W  
Retainer: Nylon, UL94V-0, G/W  
Terminal: Copper Alloy Tin-plated  
Operating Temperature: -40 to +120°C

## Ordering Information

| Product Type  | Circuits | No. of Colors | Ordering Number            | Housing color code table  |                                   | Retainer                   |   |                            |
|---|----------|---------------|----------------------------|---|-----------------------------------|----------------------------|---|----------------------------|
|   |          |               |                            | 2 Circuits (xx)   | 4 and 6 Circuits (xx)             | Ordering Number            |   |                            |
| Receptacle Housing<br> | 2        | 6             | <a href="#">20699622xx</a> | 00-Orange<br>01-Blue<br>03-Yellow<br>06-Black<br>09-Red<br>11-Natural | 01-Blue<br>06-Black<br>11-Natural | <a href="#">2069980100</a> |  |                            |
|   | 4        | 3             | <a href="#">20699624xx</a> |   |                                   | <a href="#">2069980200</a> |   |                            |
|   | 6        | 3             | <a href="#">20699626xx</a> |   |                                   |                            |   |                            |
| Plug Housing<br>       | 2        | 6             | <a href="#">20699722xx</a> |   |                                   |                            |   | <a href="#">2069980100</a> |
|   | 4        | 3             | <a href="#">20699724xx</a> |   |                                   |                            |   | <a href="#">2069980200</a> |
|   | 6        | 3             | <a href="#">20699726xx</a> |   |                                   |                            |   |                            |

| Product Type   | Plating | Wire Size    | Ordering Number            | Application Tools          |                            |              | Extractor                 |
|--|---------|--------------|----------------------------|----------------------------|----------------------------|--------------|---------------------------|
|  |         |              |                            | Applicator                 | Hand Tool                  | Wire Size    |                           |
| Terminal (Genderless)<br> | Tin     | AWG 16 to 20 | <a href="#">2069998000</a> | <a href="#">2037027400</a> | <a href="#">2133091500</a> | AWG 16       | <a href="#">638138600</a> |
|  |         |              |                            | <a href="#">2037027500</a> | <a href="#">2133091600</a> | AWG 18 to 20 |                           |
|  |         | AWG 22 to 26 | <a href="#">2070008000</a> | <a href="#">2037027600</a> | <a href="#">2133091700</a> | AWG 22 to 24 |                           |
|  |         |              |                            | <a href="#">2037027700</a> | <a href="#">2133091800</a> | AWG 26       |                           |

[www.molex.com/link/cp45.html](http://www.molex.com/link/cp45.html)