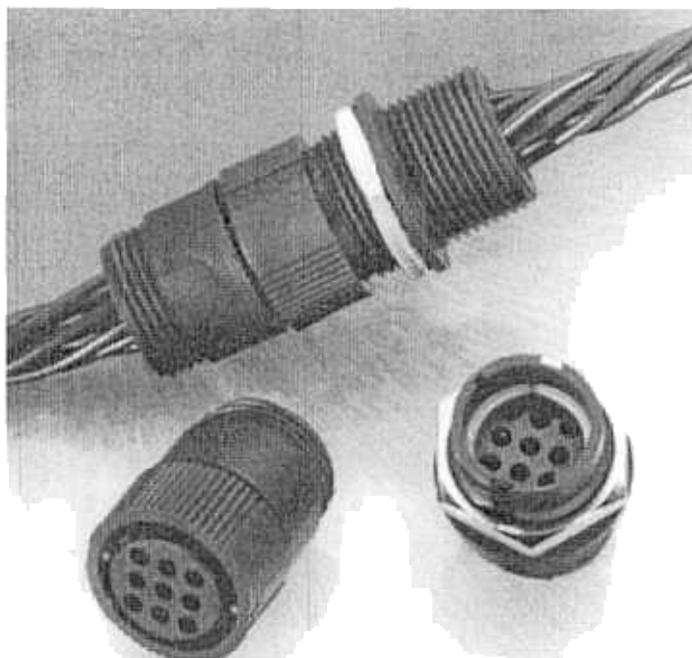


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Miniature Circular Plastic Connector (CPC)



Product Facts

- Pre-positioned 1/4 turn coupling ring with positive lock and alignment features
- Unique contact pattern for each position size helps prevent accidental mating with other position sizes
- Sealed to IP67
- Front or rear jam nut mounting
- No assembly required
- Receptacle available in free-hanging or panel-mount versions
- Alternate keys available

Description

This connector system is available in wire-to-wire, wire-to-board and wire-to-panel configurations. Available in Shell Size 8 (1 through 4 contact positions) or Size 11 (5 through 9 contact positions), this connector system utilizes the existing Mini Universal MATE-N-LOK stamped and formed contacts. The contacts are designed for up to 500 mating cycles when plated with gold or up to 50 cycles with tin plating.

Industrial, Instrumentation and Transportation applications are ideal for this connector system where contact density and environmental exposure are primary concerns.

Specifications

Electrical:

Current Carrying Capacity:

5 amps

Operating Voltage:

600 VAC minimum

Dielectric Withstanding Voltage:

2200 VAC minimum

Mechanical:

Field repairable contacts

Positive latching

Housing - single piece design, plastic

Wire termination - crimp

Mating application:

- Wire-to-wire
- Wire-to-panel (able to be sealed at the panel - jam nut mounting)
- Wire-to-board (vertical and right angle)

Specification:

[108-2079 Design Objectives](#)

- **CPC Connectors: Introduction**
-

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CPC and Metal-Shell CPC Connectors Introduction

Product Facts

- Lightweight, all-plastic and metal-shell connectors
- CPC connectors are UL 94V-0 rated and made of stabilized, heat resistant, self-extinguishing thermoplastic material
- Metal-shell CPC connector housings made of UL 94V-0 rated thermoplastic
- Operating temperature range: -55°C to 125°C
- Available in panel or chassis mount and free-hanging configurations
- Quick connect/disconnect capability with thread assist, positive detent coupling
- Built-in pin and socket protection
- Polarized for proper mating of connector halves
- Special connector configurations offer special solder and posted contacts, special receptacles with or without threaded inserts
- Full complement of optional accessories
- Recognized under the Component Program of the Underwriters Laboratories, Inc. for 250 VAC, rms or 250 VDC, Service*, File No. E28476
- Certified by the Canadian Standards Association, File No. LR 7189
- Select connectors are recognized for 600 volts service
- Four connector series for different interconnection requirements:
 - Series 1--Standard density, signal and low-current applications using durable Multimate contacts (.062 [1.57] pin diameter)
 - Series 2--High density applications using Size 20 DM and 20 DF contacts (.040 [1.02] pin diameter)
 - Series 3--Low density, power applications with Type XII contacts capable of carrying up to 35 amperes of current
 - Series 4--Combination of standard and power density application with Type III+ and Type XII contacts