



Circular Plastic Connectors (CPC)

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Circular Plastic Connectors (CPC)

Product Description

- Circular design consisting of a receptacle and plug assembly
 - Plug assembly comprised of a plug housing and coupling ring
 - Receptacle housings are available in three configurations:
 - Square flange with mounting holes
 - Square flange with threaded inserts
 - Free-hanging



Circular Plastic Connectors (CPC)

Product Description

- Connectors grouped by “Series” based on intended application
 - Series 1 — “Standard Density”
 - Size 16 Signal Contacts
 - Series 2 — “High Density”
 - Size 20 Signal Contacts
 - Series 3 — “Power Density”
 - Type XII Power Contacts



Circular Plastic Connectors (CPC)

Product Description

- Connectors grouped by “Series” based on intended application
 - Series 4 — “Power and Signal Combination”
 - Size 16 Signal Contacts
 - Type XII Power Contacts
 - Series 5 — “Power (Sealable)”
 - .125” POWERBAND Stamped & Formed Contacts
 - Series 6 — “Power and Signal Combination (Sealable)”
 - .125” POWERBAND Stamped & Formed Contacts
 - Size 16 Signal Contacts

Circular Plastic Connectors (CPC)

Product Description

- Posted version for PCB mounting available for Series 1 & 2 in plastic shell
 - Posted Right-Angle version
 - Series 1 available
- Connectors designated by Shell Size and Number of Positions
 - Typical designation: 11-4
 - First number indicates shell size diameter (measured in 1/16") or 11/16"
 - Second number indicates number of contact positions or 4 positions



Circular Plastic Connectors (CPC)

Product Description

- Connectors available in plastic (CPC) or circular metal-shell (CMC)
 - Plastic — Impact and chemical resistant thermoplastic, black
 - Metal-Shell — Zinc die cast for additional ruggedness
- Sealed CPC designed specifically for applications where environmental sealing is required

Circular Plastic Connectors (CPC)

Tooling

- Manual
 - Premium CERTI-CRIMP hand tool,
 - commercial PRO-CRIMPER III hand tool, extraction tools
- Semiautomatic
 - AMP-O-ELECTRIC Model G bench terminating machine,
 - using Heavy-Duty Mini (HDM) applicators
- Automatic
 - AMPOMATOR CLS IV+ lead maker, using HDM applicators
 - KOMAX lead makers
- Applied Cost Savings
 - Applicators/machines available (retention or sale)
 - Internet: <http://www.tooling.tycoelectronics.com/>

Circular Plastic Connectors (CPC)

Product Applications

- Industrial machinery, instrumentation, HVAC, lighting, security, motor vehicles, recreational vehicles, welding equipment, and agricultural machinery
- Used for both signal and power circuits
- Industry standards driving the application
 - UL Recognized, File No. E28476
 - CSA Certified, File No. LR7189
 - VDE Standard 0627 (certain products)
 - 600 V for Series 1



Circular Plastic Connectors (CPC)

Features and Benefits

- Quick connect/disconnect — cable-to-cable, cable-to-board, cable-to-panel — for packaging versatility
- Positive locking coupling provides for proper mating
- Plugs and receptacles accommodate signal contacts, power, or a combination of both for wider design and application flexibility
- Removable contacts and replaceable coupling ring make field repair easy

CPC Connectors

Sales Tools

- Samples available from sample room
- Catalog - 82021
- Technical Documents
 - Product Specifications
 - 108-10024
 - Application Specification
 - 114-10038
 - Instruction Sheets
 - 408-7593 (CPC), 408-7582 (Accessories); 408-6641 (CMC)

CPC Connectors

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- For more information on Circular Plastic Connectors (CPC) visit:
– www.tycoelectronics.com/products/CircularPlasticConnectors