

# MPC (Molex Plastic Circular) Interconnect System



Combining premium performance and ease of use, MPC (Molex Plastic Circular) Interconnect System incorporates proven cost-effective technology to meet the stringent standards of medical-device users along with test and measurement requirements

## Features and Advantages

### Lightweight Medical-Grade Plastic Housings PPSU for Reuse/Sterilization Apps Polycarbonate for Single-Use Apps

Withstands medical industry sterilization processes including autoclave, Ethylene oxide (EtO), gamma and chemical

### Easy to Use

Allows for simple push-pull mating engagement with unique locking sleeve. Provides cable un-mating force to 50 N (min.) for D1 and 85 N (min.) for D2



MPC (Molex Plastic Circular) Interconnect System (Center: Male Plugs; Right: Panel-Mount Receptacle)

### Same Low-Cost, High-Performance Signal Contacts for Both D1 and D2 Form Factors

Supports economical connector while delivering low-contact resistance

### IP50 Rating Option Available

Protects against dust ingress and splashing water

### Custom Cable Assemblies Available

Offers a complete cable solution, from design through manufacturing, from one of our ISO 13485-certified facilities globally positioned to meet customers' needs

### Single-Use Male

Provides a non-locking, passive latch to provide the lowest applied cost alternative. This provides 10N (min.) un-mating force in the D1 and 15N (min.) in the D2

### Factory Potting of the Terminal Retainer Assemblies

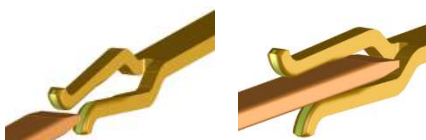
Assures there is a barrier against dust and moisture at all locations, including unpopulated circuit fields to seal them whether there is a circuit in them or not

### Utilizes a Proven Molex Contact Technology

Ensures a reliable electrical interface and 10,000 mating cycles. Utilizes economical stamped-and-formed process, which allows for selective plating for further cost reduction

### Selective Circuit-Count Capability with Each Diameter Interface

Enables contact-usage flexibility without wasted circuits (D1 4-circuit example shown)



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## Applications

### Medical

- Surgical Instrumentation
- Electrophysiology
- Therapeutic
- Patient Monitoring
- Imaging
- Dental
- Disposables (Sensors / Catheters)



Medical Imaging

Surgical Instrumentation

Test and Measurement

### Other Industries

- Instrumentation
- Test and Measurement
- Avionics
- Data Acquisition
- Entertainment Equipment

## Ordering Information

### D1 Kits

Order No.	Diameter	Description	Circuit Size	Body Color	IP Rating
<a href="#">172860-0810</a>	D1	Panel Mount Receptacle	8	Black	IP50
<a href="#">203020-0810</a>	D1	In-Line Receptacle	8	Black	IP50
<a href="#">202405-0810</a>	D1	In-Line Receptacle (Shrouded)	8	Black	IP50
<a href="#">172870-0810</a>	D1	Standard Male	8	Black	IP50
<a href="#">172350-0810</a>	D1	Single Use / Disposable Male	8	Black	IP50

### D2 Kits

Order No.	Diameter	Description	Circuit Size	Body Color	IP Rating
<a href="#">202110-1710</a>	D2	Panel Mount Receptacle	17	Black	IP50
<a href="#">202400-1710</a>	D2	In-Line Receptacle Shrouded	17	Black	IP50
<a href="#">202112-1710</a>	D2	Standard Male	17	Black	IP50
<a href="#">202113-1730</a>	D2	Single Use / Disposable Male	17	Black	IP50

### D2 Pigtailed

Order Number	Diameter	Description	Circuit Size	Body Color	IP Rating
172897-0002	D2	Panel Mount Receptacle Pigtail	17	Black	IP 50
172899-0002	D2	Standard Male Pigtail	17	Black	IP 50
172898-0002	D2	Single Use/ Disposable Male Pigtail	17	Black	IP 50

Custom Product	Description
<a href="#">Contact Molex</a>	MPC (Molex Plastic Circular) Cable Assemblies

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

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