

MPC (Molex Plastic Circular) Interconnect System

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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

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

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

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

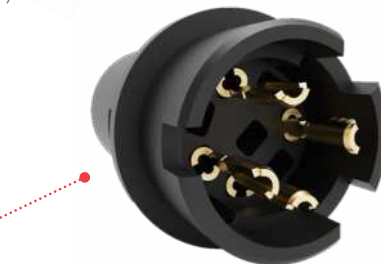
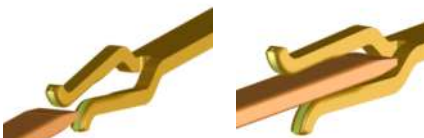
Assures there is a barrier against dust and moisture at all locations, including unpopulated circuit fields to seal them whether there is a circuit in them or not

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
172860-0810	D1	Panel Mount Receptacle	8	Black	IP50
203020-0810	D1	In-Line Receptacle	8	Black	IP50
202405-0810	D1	In-Line Receptacle (Shrouded)	8	Black	IP50
172870-0810	D1	Standard Male	8	Black	IP50
172350-0810	D1	Single Use / Disposable Male	8	Black	IP50

D2 Kits

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

D2 Pigtails

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
Contact Molex	MPC (Molex Plastic Circular) Cable Assemblies

www.molex.com/link/mpc.html

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