

# MRD Series Rugged Circular Locking Connectors

## IP67 HARSH INDUSTRIAL CONNECTORS

MRD series connectors are available in 2, 3, 4, 5, 6, 7, 8 and 9 position form factors. Housing options include all plastic constructions as well as metal locking bodies for greater durability. Locking options include 1/3 turn bayonet locking as well as quick release metal latches. Panel mount and cable termination options are available with or without finger proof protection.

Other than connectors, we also provide standard Harsh MRD Cable Assembly (2, 3, 4 pin for now), including double end termination and pigtail version.

- IP67 in the mated conditions water/dust Proof
- Power or signal connections
- Available in 2, 3, 4, 5, 6, 7, 8 and 9 position form factors
- Circular shape
- Locking option

### FEATURES

- Sealed connectors
- Available in 2, 3, 4, 5, 6, 7, 8 and 9 positions
- Up to 10A current rating
- Circular connector
- Locking option
- RoHS compliant



### TARGET MARKETS



### BENEFITS

- IP67 in the mated conditions water/dust proof
- Design flexibility
- Supports high power applications
- Supports various industrial applications
- Secured connection and avoids data/power interruption
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Contacts: Copper Alloy with gold flash over 50µ" (1.27µm) min. Nickel
- Housing: Engineering thermoplastic, UL94V-0 rated, Black
- Metal Shell: Die cast Zinc alloy, chrome plated

### ELECTRICAL PERFORMANCE

- Current Rating: 5A per contact for 1mm contacts, 10A per contact for 1.5mm contact size
- Voltage Rating: 300 VAC for 1.0mm contacts, 500 VAC for 1.5mm contact size
- Wire Gauge: Up to #18AWG for 1.0mm contact , Up to 16AWG for 1.5mm contact size

### MECHANICAL PERFORMANCE

- Durability: 500 mating cycles

### ENVIRONMENTAL

- RoHS: this product is compatible according to the European Union Directive 2011/65/EU
- Operating Temperature: -55°C to +105°C
- Salt Spray: Per EIA364-26, 250 Hrs
- Temperature Rise: 30°C

## PART NUMBERS

Description	Part Numbers
MRD series male 2 position socket connector with metal latch lock	MRD-BN02-M17-000
MRD series female 2 position pin connector with metal latch lock	MRD-BG02-M17-000
MRD series panel mount, female 2 position pin connector with metal latch lock	MRD-BG02-L13-000
MRD series male 3 position socket connector with metal latch lock	MRD-BN03-M17-000
MRD series female 3 position pin connector with metal latch lock	MRD-BG03-M17-000
MRD series panel mount, female 3 position pin connector with metal latch lock	MRD-BG03-L13-000
MRD series male 4 position socket connector with metal latch lock	MRD-BN04-M17-000
MRD series female 4 position pin connector with metal latch lock	MRD-BG04-M17-000
MRD series panel mount, female 4 position pin connector with metal latch lock	MRD-BG04-L13-000
MRD series female 3 position socket connector with plastic latch lock	MRD-AH03-M15-000
MRD series panel mount, female 3 position socket connector with plastic latch lock	MRD-AH03-L13-000
MRD series male 3 position pin connector with plastic latch lock	MRD-AP03-M15-000

### APPROVALS & CERTIFICATION

- RoHS
- REACH/SVHC

### PACKAGING

- Box

### TARGET MARKETS/APPLICATIONS



Robotics  
Power Generation  
Smart Grid  
LED Lighting



CT  
MRI  
Ultrasonic