

BrightConnX™ Rugged MRD Series Circular Locking Connectors

IP67 HARSH INDUSTRIAL CONNECTORS

BrightConnX™ 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 BrightConnX™ 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



TARGET MARKETS



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

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 50µin (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: 300VAC for 1.0mm contacts, 500VAC 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 Range: -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



Power Generation
Smart Grid
LED Lighting



CT
MRI
Ultrasonic



Robotics