Brad® Micro-Change® M12 PCB Receptacles

molex®

Facilitating strong mechanical and electrical connections, Brad® Micro-Change® M12 PCB Receptacles comply with OEM automated manufacturing requirements while saving valuable PCB space and reducing costs

Brad® Micro-Change® M12 PCB Receptacles
Left: Female | Right: Male

Features and Benefits

Integrated metal mounting bracket snaps onto PCB	Ensures strong mechanical and electrical connections via precise pin alignment with robust and secure PCB mounting. Complies with OEM automated manufacturing requirements
Compact footprint optimized for automated termination	Enables M12 connectivity on boards with space constraints. Saves precious PCB space
IP67-rated M12 interface	Provides industrial-grade sealing against ingress of dust and water at up to depths of one meter
Delrin* acetal resin on coupling nut	Eliminates connectivity issues associated with grounding, electro-static discharge and other metal-specific issues. Provides high mechanical strength, rigidity and long-term fatigue endurance

Applications

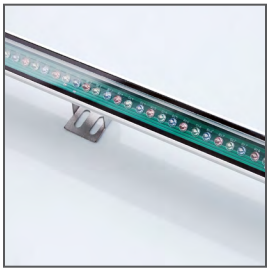
Industrial Automation

- Sensors
- Instrumentation
- Electronic Accessories
- Motors, Drives, etc.

Lighting

- Standard Industrial Lighting
- Machine Lighting

Sensors



Industrial Lighting

Motor

Specifications

REFERENCE INFORMATION
Packaging: Tray
UL File No.: E152210
Mates With: Brad® Micro-Change® M12 Connectors
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: Yes

ELECTRICAL
Voltage (max.): 250V AC/DC
Current (max.): 4.0A
Contact Resistance: < 20 mA
Dielectric Withstanding Voltage: 1500V

MECHANICAL
Mating Force: @23C → 44.48N
Unmating Force: @23C → Female = 53.38N
Male = 40.03N
Durability (min.): 100 Mating Cycles >= 75% of initial mating force (@23C)
Sealing: IP67

PHYSICAL
Body Material: Nylon
Lock Nut Material: Delrin* Acetyl Resin
Insert: Nylon
Contact Plating:
Contact Area — Gold-plated Brass
Operating Temperature: -20 to +80°C

*Delrin is a registered trademark of DuPont for its acetal resins

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Ordering Information

Order No.	Engineering No.	Gender	Poles	Orientation
120070-0084	8R3L560005	Male	3	Straight
120070-0086	8R3L570005			90º
120070-0162	8R4L560005		4	Straight
120070-0164	8R4L570005			90º
120070-0242	8R5L560006		5	Straight
120070-0244	8R5L570005			90º
120070-0516	8R3L500005	Female	3	Straight
120070-0082	8R3L510005			90º
120070-0158	8R4L500005		4	Straight
120070-0160	8R4L510005			90º
120070-0238	8R5L500005		5	Straight
120070-0240	8R5L510005			90º

www.molex.com/link/M12.html