



**Delivering increased productivity and cost savings, MX-PTL™ M12 Cordsets surpass the performance and reliability of traditional threaded connectors and facilitate quick connections to I/O blocks**

## **Brad® MX-PTL™ M12 Cordsets**

**121193** Push-to-Lock  
Connections Poles  
3, 4 and 5

### **Features and Benefits**

Push-to-lock technology	Provides simple and fast operator-independent connections. Significantly reduces installation time
Mates to standard M12 threaded receptacles	Facilitates fast connections to currently installed I/O blocks
Threadless design	Minimizes risk of disconnect in high-vibration environments
Two sealing ratings based on connection method	Provides environmental protection to IP67/68 when fully rotated
Visual and tactile keyway alignment	Eliminates frustration when installing in tight locations



Brad® MX-PTL™ M12 Cordsets  
left: straight; right: right-angle

### **Applications**

#### Industrial

- Sensors
- Vision systems
- Motors, drives, etc.

#### Automotive/Commercial Vehicle

- Automotive robotics
- Robotic system integrators

#### Lighting

- Industrial machine lighting
- Green house/agricultural light fixtures



### Specifications

#### Reference Information

Packaging: Bag  
UL File No.: E152210  
Mates With:  
All threaded M12 female receptacles  
Pole Sizes 3, 4 and 5  
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 (at 23°C): 44.48N  
Unmating Force (at 23°C)  
Female — 53.38N; Male — 40.03N  
Durability (min. at 23°C):  
25 Mating Cycles  $\geq$  75% of  
initial mating force  
Seal Rating:  
IP67/IP68 (when fully rotated)  
IP65 (push connections)

#### Physical

Housing: Nickel Brass  
Overmold: Black PVC  
Insert: Nylon  
Contact Plating: Gold-plated brass  
Operating Temperature: -25 to +105°C  
(dependent on cable material)

### Ordering Information

Series No.	Component	Poles	Cable Lengths
<a href="#">121193</a>	Push-to-Lock	3, 4, 5	1.0 and 0.3m Additional lengths available