



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
121193	Push-to-Lock	3, 4, 5	1.0 and 0.3m Additional lengths available