



Boosting operational efficiencies, IP65-rated Brad® Micro-Push® Cordsets and Connectors offer M12 connectivity at minimized costs

Features and Benefits

Push-on mating interface	Reduces installation time up to 80% compared to screw-style connectors. Provides excellent seal performance to IP65 specifications (eliminates the chance of over- or under-tightening). Enables simple blind-mate connections in tight locations
Threadless coupling	Minimizes costly equipment downtime by eliminating reverse threading in high-vibration environments. Reduces operator fatigue
Visual and tactile keyway alignment	Ensures complete interface mating. Provides excellent vibration resistance
Non-metallic coupler	Alleviates grounding and electrostatic discharge concerns. Provides a low-cost solution. Offers backward compatibility with legacy M12 connectors
IP65 NEMA Rating	Protects completely against ingress of dust and solids as well as low-pressure streams of water

Applications

Industrial Automation

- Sensors
- Vision Systems
- Motors
- Drives

Solid State Lighting

- Light-Duty Industrial Lighting
- Machine Lighting

Brad® Micro-Push® M12 Cordsets and Connectors

120065 Single-Ended M12 Micro-Push® Cordsets

120066 Double-Ended M12 Micro-Push® Cordsets



Brad® Micro-Push® M12 Cordsets
Left: Straight Female Connector
Right: Right-Angle Male Connector



Brad® Micro-Push™ M12 Cordset for Proximity Sensor

Specifications

Reference Information

Packaging: M12 Connector
UL File No.: E152210
Mates With: Micro-Change® M12 Connectors
Use With: 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 mΩ
Dielectric Withstanding Voltage: 1500 V

Mechanical

Mating Force at 23°C:
10 lbs Unmating Force at 23°C:
Female = 12 lbs
Male = 9 lbs
Durability (min.):
100 Mating Cycles >= 75% of initial mating force at 23°C
NEMA Rating: IP65

Physical

Housing: M12
Overmold: Black PVC
Insert: Nylon
Contact Plating:
Contact Area — Copper Alloy
Operating Temperature:
-25 to +105°C

Ordering Information

Order #	Cordset	Poles	Gender	Orientation	Length
120065-0048	Single-Ended	3	Female	Straight	2.00m
120065-0049					5.00m
120065-0050					10.00m
120065-1422				90 Degree	2.00m
120065-1423					5.00m
120065-1424					10.00m
120065-0053		4		Straight	2.00m
120065-0055					5.00m
120065-0056					10.00m
120065-1425				90 Degree	2.00m
120065-1426					5.00m
120065-1427					10.00m
120066-0029	Double-Ended	3	Male to Female	Straight-to-Straight	1.00m
120066-1997					2.00m
120066-0030					5.00m
120066-0032				Straight-to-90 Degree	1.00m
120066-0033					2.00m
120066-0034					5.00m
120066-0035		4		Straight-to-Straight	1.00m
120066-0036					2.00m
120066-0039					5.00m
120066-0040				Straight-to-90 Degree	1.00m
120066-0041					2.00m
120066-0042					5.00m

www.molex.com/link/micropushm12.html