molex

Brad M12 Ultra-Lock 2.0 ❯

Brad M12 Ultra-Lock 2.0 cordsets and receptacles meet the IEC 61076-2-010 standard and provide shielded and unshielded options in an easy-to-assemble interface, delivering increased productivity and cost savings while surpassing the performance and reliability of traditional threaded connectors.

ADVANTAGES AND FEATURES

Enables simple and fast connections that cannot be either too tight or too loose with an operator-independent connection that features reliable, field-proven push-pull technology

Affords push-click operation and delivers proven protection against water and dust with an IP67 or IP69k protection rating depending on cable type

Allows customers to easily change between Ultra-Lock and traditional D-code threaded connection styles as needed due to the universal, industry-standard M12 interface

Interface	M12
Industry Standard	IEC 61076-2-010
Connector	Ultra-Lock Shielded or Unshielded
Cable	PUR, PVC, weld-slag oil-resistant (WSOR) TPE
Protection	IP69k (22 AWG shielded cable), IP67 (all other cables)

Delivers rugged, high-flex and high-torsion performance over a wide temperature range with PUR, PVC or weld-slag, oil-resistant (WSOR) TPE cable to withstand multiple harsh-environment conditions including exposure to welding and cutting oil

Offers a durable and cost-effective connectivity solution that features a robust spring carrier and housing with shielded and unshielded options
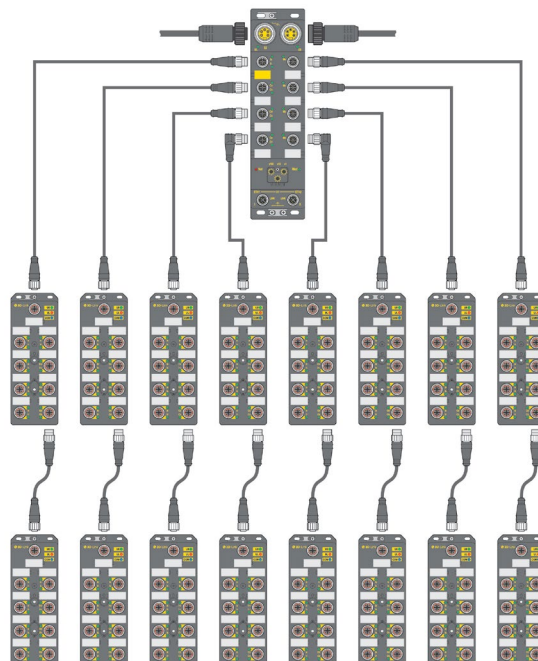
Meets industry standards complying with IEC 61076-2-010 standard

M12 Ultra-Lock 2.0 Male Cordset

M12 Ultra-lock 2.0 Female Cordset
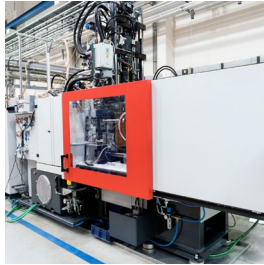

Multi I/O Applications

M12 Ultra-Lock 2.0 Shielded Male Cordset

Brad M12 Ultra-Lock 2.0 ❯

APPLICATIONS

Industrial Automation

Machine and line builders
Machine tools/machining centers
Automotive production equipment
Manufacturing robots
Special-purpose manufacturing machinery
Sensor and actuator connections
Multiple-I/O applications
Difficult-to-access areas
Safety areas
Food and beverage line equipment
Automation controls
Material handling equipment
Petrochemical complexes
Telematics units
Telecommunications base stations

Machine Tools/Machining Centers

Food and Beverage Line Equipment

Automation Controls

SPECIFICATIONS

Reference Information

A-Code:
    Cordsets from series 120400/120401 mate
    with receptacles from series 120404
D-Code:
    Cordsets from series 120406 mate with
    receptacles from series 120406

Physical

Outer Sleeve: Stainless Steel (shielded) or PA
    (unshielded)
Inner Sleeve: Brass (shielded) or Zinc die-cast
    (unshielded)
Locking Spring: Stainless Steel
Contact Plating: Gold over Nickel
O-Ring: FPM
Durability (min.): 100 mating cycles
Ingress Protection (IP) Rating for Shielded
    Products:
    22 AWG PUR Cable M12 – IP69k
    22 AWG PUR Cable RJ45 – IP20
    24 AWG TPE Cable M12 – IP67
    24 AWG TPE Cable RJ45 – IP20
IP Rating for Unshielded Products:
    Cordsets – IP67
    Receptacles – IP69k
Operating Temperatures: -30 to +80°C
    (fixed installation)

Electrical

Voltage/Current (max.):
    3/4-Pole – 250V/4.0A
    5-Pole – 60V/4.0A
    8-Pole – 30V/2.0A
    12-Pole – 30V/1.5A

www.molex.com/en-us/products/industrial-automation/micro-change-m12