

Brad M12 Micro-Change A-Code Industrial Cordsets



Brad M12 Micro-Change connectors deliver fast and simple replacement of sensors, encoders, switches, and other input and output devices in industrial machinery through superior quality to withstand harsh industrial and weather environments

Features and Benefits

Safe, Dependable Performance

IEC-compliant cordset assemblies provide peace of mind to its users. Gold-over-nickel plated contacts provide a durable corrosion-resistant plating. Overmold cable assembly provides strain relief

IP-rated Protection

When fully mated, achieves IP67/68 rating for use in harsh environments

Mating Flexibility

3-, 4-, and 5-pole versions are intermatable for added flexibility. Intermates with industry standard Brad M12 devices

Anti-Vibration Feature

Patented anti-vibration feature prevents loosening under high-vibration environments

Wide Selection of Cables

PVC cables for light, cost-sensitive industrial applications. Weld-slag Oil-resistant (WSOR) cables for cost-sensitive, outdoor applications demanding flexibility. PUR cables for moderate flexing and for environments encountering cutting fluids and oils. TPE cables for continuous-flex applications; also ideal for welding cells; cable is weld slag resistant



Applications

Factory Automation

- Automotive production line
- Conveying and sorting application
- Material handling
- Food and beverage processing
- Robot control

Commercial Vehicle

- Construction vehicles
- Agricultural machinery
- Garbage trucks
- Military vehicles



Commercial Vehicle



Factory Automation

Specifications

REFERENCE INFORMATION

UL File No.: E152210
CSA File No.: LR6837
RoHS: Compliant by Exemption
Designed In: millimeters
Mates with: M12 cordsets, receptacles and MPIS

ELECTRICAL

Voltage (max.): 250 AC/DC
Current (max.): 4.0A per contact

ELECTRICAL

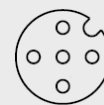
Protection: IP67/68

PHYSICAL

Connector Body: PUR or TPE
Coupling Nut: Nickel-plated Brass
Contacts: Copper alloy with Gold over Nickel plating
Operating Temperature: -20 to +105°C

CABLE TYPES

A09: 22AWG Yellow PVC
B30: 22AWG Black WSOR
B03: 22AWG Black PUR
K05: 22AWG Yellow TPE



A Code

(Single Key)
Used in sensors, switches, valves and many other universal applications

Up to 4A per contact
250V AC/DC

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Ordering Information

Single-Ended Cordsets									
Poles	Length	Female Straight		Female 90		Male Straight		Male 90	
		Engineering No	Molex Order No	Engineering No	Molex Order No	Engineering No	Molex Order No	Engineering No	Molex Order No
3	2m	803000A09M020	1200650129	803001A09M020	1200651444	803006A09M020	1200650200	803007A09M020	1200651497
	5m	803000A09M050	1200650139	803001A09M050	1200651451	803006A09M050	1200650203	803007A09M050	1200651499
	10m	803000A09M100	1200650148	803001A09M100	1200651457	803006A09M100	1200650207	803007A09M100	1200659208
4	2m	804000A09M020	1200650255	804001A09M020	1200651551	804006A09M020	1200650414	804007A09M020	1200651662
	5m	804000A09M050	1200650265	804001A09M050	1200651558	804006A09M050	1200650419	804007A09M050	1200651666
	10m	804000A09M100	1200650277	804001A09M100	1200651567	804006A09M100	1200650425	804007A09M100	1200651669
5	2m	805000A09M020	1200650471	805001A09M020	1200651697	805006A09M020	1200650523	805007A09M020	1200651724
	5m	805000A09M050	1200650479	805001A09M050	1200651701	805006A09M050	1200650528	805007A09M050	1200651727
	10m	805000A09M100	1200650487	805001A09M100	1200651706	805006A09M100	1200650533	805007A09M100	1200652123

Double-Ended Cordsets									
Poles	Length	Female Straight / Male Straight		Female 90 / Male Straight		Female Straight / Male 90		Female 90 / Male 90	
		Engineering No	Molex Order No	Engineering No	Molex Order No	Engineering No	Molex Order No	Engineering No	Molex Order No
3	2m	883030A09M020	1200660171	883031A09M020	1200661140	883032A09M020	1200661178	883033A09M020	1200661201
	5m	883030A09M050	1200660181	883031A09M050	1200661144	883032A09M050	1200661182	883033A09M050	1200661204
	10m	883030A09M100	1200660188	883031A09M100	1200661148	883032A09M100	1200661432	883033A09M100	1200661207
4	2m	884030A09M020	1200660271	884031A09M020	1200661265	884032A09M020	1200661311	884033A09M020	1200661340
	5m	884030A09M050	1200660284	884031A09M050	1200661273	884032A09M050	1200661318	884033A09M050	1200661344
	10m	884030A09M100	1200660297	884031A09M100	1200661280	884032A09M100	1200661322	884033A09M100	1200661346
5	2m	885030A09M020	1200660429	885031A09M020	1200661391	885032A09M020	1200661400	885033A09M020	1200661416
	5m	885030A09M050	1200660434	885031A09M050	1200661394	885032A09M050	1200661403	885033A09M050	1200660460
	10m	885030A09M100	1200660440	885031A09M100	1200661396	885032A09M100	1200661408	885033A09M100	1200668733

Panel Mount Receptacles				
Female				
Poles	1/4-18NPT Front Panel Mount		PG9 Back Panel Mount	
	22AWG Wire Leads		PCB Pins	
	Engineering No	Molex Order No	Engineering No	Molex Order No
3	8R3A00A18A120	1200700056	8R3J400013	1200705203
4	8R4A00A18A120	1200700114	8R4J400013	1200110237
5	8R5A00A18A120	1200700201	8R5J400013	1200110238

Panel Mount Receptacles				
Male				
Poles	1/2-14NPT Front Panel Mount		PG9 Back Panel Mount	
	22AWG Wire Leads		PCB Pins	
	Engineering No	Molex Order No	Engineering No	Molex Order No
3	8R3006A18A120	1200700093	8R3J460003	1200705204
4	8R4006A18A120	1200700184	8R4J460003	1200110281
5	8R5006A18A120	1200700252	8R5J460003	1200700235

www.molex.com/link/M12.html

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