

Brad® M12 and M8 Field Attachable Connectors

molex®

Brad® Field Attachable M12 and M8 connectors provide customers a flexible solution to install and adapt their automation infrastructure to the requirements of their complex machines

Features and Benefits

Enhanced, comprehensive field attachable portfolio to complete Molex's current overmolded solutions and complements Flamar's raw cable capabilities

Delivers a solution that can fulfill almost all application requirements from customers

M12 A-Code and M8 field attachable for I/O now available with IDC termination and color coding for each pin

Saves up to 80% of labor effort compared to screw terminated termination. Responds to industry needs for M8 connectivity, as this interface has the highest volume of connectors installed on machines

M12 A-Code Shielded connectors support up to 8 poles

Extends application support to analog signals with proper signal protection against EMC. Delivers solutions for encoder applications (8 poles shielded) or safety equipment (8 poles unshielded)

Addition of M12 A-Code analog support

Eases identification of safety infrastructure compared to standard I/O infrastructure



Machine Builders

Applications

Machine Builder

- CNC machines
- Packaging machine
- Manufacturing equipment

Factory Automation

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

Commercial Vehicle

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



Factory Automation



Vehicle Production Line



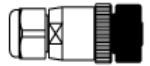
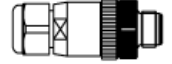
Commercial Vehicles

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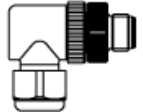


Brad® Micro-Change® M12 Field Attachable Connectors for Sensors and Actuators

Poles	Cable Size	Wire Gage	Male Straight		Female Straight	
			Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Unshielded & Screw Termination						
4	3.3-6.6	<AWG 18	8A4006-31	120071-0038	8A4000-31	120071-0035
	4.1-8.1	<AWG 18	8A4006-32	120071-0039	8A4000-32	120071-0036
5	3.3-6.6	<AWG 18	8A5006-31	120071-0045	8A5000-31	120071-0041
	4.1-8.1	<AWG 18	8A5006-32	120071-0047	8A5000-32	120071-0043
8	6.0-8.0	<AWG 20	8A8006-32	120071-0030	8A8000-32	120071-0031

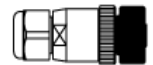
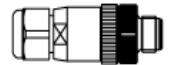


Poles	Cable Size	Wire Gage	Male 90°		Female 90°	
			Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Unshielded & Screw Termination						
4	3.3-6.6	<AWG 18	8A4007-31	120071-0040	8A4001-31	120071-0037
	4.1-8.1	<AWG 18	8A4007-32	120071-5011	8A4001-32	120071-5010
5	3.3-6.6	<AWG 18	8A5007-31	120071-0049	8A5001-31	120071-0044
	4.1-8.1	<AWG 18	8A5007-32	120071-0071	8A5001-32	120071-0070



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Poles	Cable Size	Wire Gage	Male Straight		Female Straight	
			Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Shielded & Screw termination						
4	6.0-8.0	<AWG 18	8A4S06-32	120071-0032	8A4S00-32	120071-0033
5	6.0-8.0	<AWG 18	8A5S06-32	120071-0034	8A5S00-32	120071-0081
8	6.0-8.0	<AWG 20	8A8S06-32	120071-0082	8A8S00-32	120071-0083
Unshielded & IDC termination						
4	3.5-6.0	AWG26-22	8A4006-51	120071-0086	8A4000-51	120071-0087
	4.0-8.0	AWG22-18	8A4006-52	120071-0088	8A4000-52	120071-0089

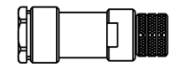
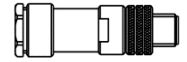


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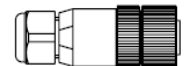
Brad® Nano-Change® M8 Field Attachable Connectors for Sensors and Actuators

Poles	Cable Size	Wire Gage	Male Straight		Female Straight	
			Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Unshielded & Soldering Termination						
3	3.5-5.0	AWG 24	N03MA03124	120091-0004	N03FA03124	120091-0001
4	3.5-5.0	AWG 24	N04MA03124	120091-0010	N04FA03124	120091-0007
Unshielded & Screw Termination						
3	3.5-5.0	AWG26-20	N03MA03134	120091-0023	N03FA03134	120091-0024
4	3.5-5.0	AWG26-20	N04MA03134	120091-0025	N04FA03134	120091-0026
Unshielded & IDC Termination						
3	2.5-5.2	AWG24-20	N03MA03144	120091-0027	N03FA03144	120091-0028
4	2.5-5.2	AWG24-20	N04MA03144	120091-0029	N04FA03144	120091-0030



Brad® Micro-Change® M12 Field Attachable Connectors for Networks

Poles	Cable Size	Wire Gage	Male Straight		Female Straight	
			Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
PROFIBUS B-Code - Shielded & Screw Termination						
5	6.5-8.5	<AWG 18	BA5S06-32	120100-0002	BA5S00-32	120100-0001
PROFINET D-Code - Shielded & Screw Termination						
4	6.0-8.0	<AWG 18	E1AS06-32	130047-0035	E1AS00-32	130047-0037
EtherNet X-Code - Shielded & IPC Termination						
8	6.5-8.5	<AWG 18	X1AS06-53	130047-0042	-	-



EtherNet/IP™

www.molex.com/link/M12.html
www.molex.com/link/M8.html