M12, M8 and RJ-45 CAT 6a Field Attachable Connectors

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Field Attachable M12, M8 and RJ-45 CAT 6a connectors provide customers a flexible solution to install and adapt their automation infrastructure to the requirements of their complex machines



Features and Advantages

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
Addition of M12 X-Coded and RJ-45 CAT 6a product options	Supports EtherNet data speed of up to 10 Gigabit



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

M12, M8 and RJ-45 CAT 6a Field Attachable Connectors

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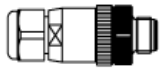
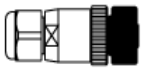
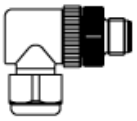
Brad Micro-Change M12 Field Attachable Connectors for Sensors and Actuators

			Male Straight		Female Straight	
Poles	Cable Size	Wire Gauge	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





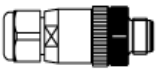
			Male 90°		Female 90°	
Poles	Cable Size	Wire Gauge	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Unshielded & Screw Termination						
4	3.3-6.6	<AWG 18	8A4007-31	120071-0040	8A4001-31	120071-0037
	4.1-8.1	<AWG 18	8A4007-32	120071-5011	8A4001-32	120071-5010
5	3.3-6.6	<AWG 18	8A5007-31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

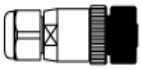




Brad Micro-Change M12 Field Attachable Connectors for Sensors and Actuators

			Male Straight		Female Straight	
Poles	Cable Size	Wire Gauge	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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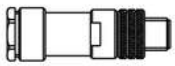
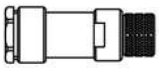
Brad Nano-Change M8 Field Attachable Connectors for Sensors and Actuators

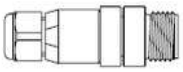
			Male Straight		Female Straight	
Poles	Cable Size	Wire Gauge	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Unshielded & Soldering Termination						
3	3.5-5.0	AWG 24	N03MA03124	120091-0004	N03FA03124	120091-0001
4	3.5-5.0	AWG 24	N04MA03124	120091-0010	N04FA03124	120091-0007
Unshielded & 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

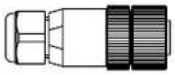




Brad Micro-Change M12 Field Attachable Connectors for Networks

			Male Straight		Female Straight	
Poles	Cable Size	Wire Gauge	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
PROFIBUS B-Code - Shielded & Screw Termination						
5	6.5 - 8.5mm	<AWG 18	BA5S06-32	120100-0002	BA5S00-32	120100-0001
PROFIBUS D-Code - Shielded & Screw Termination						
4	6 - 8mm	<AWG 18	E1AS06-32	130047-0035	E1AS00-32	130047-0037
PROFIBUS D-Code - Shielded & IDC Termination						
4	5 - 9.7mm	<AWG 18	E1AS06-53	130047-0039	E1AS00-53	130047-0040
EtherNet X-Code - Shielded & IDC Termination						
8	5.5 - 9mm	<AWG 22	E2AS06-52	120341-0806	-	-





CAT 6A RJ45 Field Attachable Connectors for Networks

			Straight Plug		90° Plug	
Poles	Cable Size	Wire Gauge	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
CAT 6a RJ45 - Shielded & IDC Termination						
8	5.5 - 9mm	AWG 24-22	E6AS06-5	130047-8008	E6AS07-5	130047-8009
8	5.5 - 9mm	AWG 26-24	E6AS06-6	130047-8010	E6AS07-6	130047-8011

PROFINET® PROFIBUS® EtherNet/IP™

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

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