## **Amphenol**®



## Max-M12 Connector

ruggedized M12 high speed data connector, the Max-M12. have traditionally been implemented into commercial applications with little regard to high vibration, high temperature and overall harsh environment demands. With the increased implementation of these high speed

solution for the ultra rugged applications that sometimes Mass Transit, Process Control, Factory Automation, etc.

## Features:

- HDM 12 Versions Available

   Plastic or Metal (for shielding)
   90° right angle and straight connector offerings
   3, 4, and 5 way circuit patterns
   A, B, D & P polarity codes based on IEC 61076-2-101
   Terminals for solder to wire or pins for PCB applications

   Available as stand-alone connectors & cable assemblies (standard and overmolded)
   Terminals capable of being terminated to:
- - 0.8 mm2 (18 AWG) or 0.5 mm2 (20 AWG) conductors as defined by SAE J1128 and 0.75 mm2

- More resistant to terminal damage
- Extreme environmental testing based on J2839 requirements
  - · High pressure wash down
- · Provisions for overall cable shield or drain wire to the connector plug housing
- RoHS compliant

www.amphenol-industrial.com







SPECIFICATION							
Operating Voltage	5 pin - 60V AC/DC 3 & 4 pin - 250V AC/DC	IEC 60664					
Current Rating	4A MAX.	IEC 60512 TEST 5B					
Temperature Rating	-55°C - +125°C -55°C - +150°C (with Viton Seals)	SAE J2839, 4 . 2 . 3 . 13					
Dielectric Withstanding Voltage	1000V	IEC 60512, TEST 4A					
Insulation Resistance	>20 Megohms	SAE J2839, 4 . 2 . 3 . 3					
Rated Impulse Voltage	1500V	IEC 60664-1					
Contact Resistance	<10 mΩ	IEC 60512					
Vibration, Sine	10 - 2000 Hz, 20g, <1 us	SAE J2839, 4 . 2 . 3 . 15					
Shock, Half Sine	10 CYCLES, 50g, 11ms, <1 us	SAE J2839, 4 . 2 . 3 . 16					
Temperature Life	1000H AT 125°C + 3°C	SAE J2839, 4 . 2 . 3 . 7					
Durability	100 CYCLES MIN.	SAE J2839, 4 . 2 . 3 . 11					
Salt Fog	240H	SAE J2839, 4 . 2 . 3 . 12					
Protection Class	IP67 or Above	IEC 60529					
Wire Gauge	0.5 mm2 (20AWG) or 0.8 mm2 (18AWG)/ 0.75 mm2	SAE J1128 / ISO 6722					
Cable OD.	ø 12.7 MAX.						
Recommended Torque	M12 THREAD, 0.8 - 1.0 Nm						
Connector Retention	444 N MIN	SAE J2839, 4 . 2 . 3 . 20					
Contact Retention	110 N MIN	SAE J2839, 4 . 2 . 3 . 18					
Panel Thickness	1-6 mm						
Shell Plating	Nickel						

HOW TO ORDER																				
				1		2	3	4		5	6	7 <b>2</b>		8 9			11			
			HL	DM12	+	P +	M	+ 05	+	+ ט	1	+ 51	+ 1	M + V	+	H +	<u>۲</u>			
1		2		3		4		5		6		7		8		9		10		11
HDM12		Р		M		05		D		1		ST		M		V		Н		Р
Product Line	5	Shell Line	G	Gender		Insert angement		Coding		ontact Finish	В	ackshell		Backshell Material	Seal		Voltage Rating		Contact Style	
HDM12	Р	Plug	М	Male	03	3 Pole	A	A-Coding	1	Gold	ST	Straight	М	Metal	٧	Viton Rubber Seal	н	240V AC/ DC	PR	PC Tail Contacts Right Angle
	R	Receptacle	F	Female	04	4 Pole	В	B-Coding	2	Silver	RA	Right Angle	Р	Plastic		Omit for Standard Rubber Seal		Omit for Standard 60V AC/ DC	PS	PC Tail Contacts Straight
					05	5 Pole	D	D-Coding	4	Nickel	xx	No Backshell		Omit for no Backshell						Omit for Solder Contacts
							Р	P-Coding												

Example Order: HDM12, Receptacle, Female, 4 Pole, A-Coding, Silver, Straight, Metal, Standard Rubber Seal, 240V AC/DC, Straight PC Tail Contacts: HDM12 R F 04 A 2 ST M H PS

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

North America: Amphenol Industrial Operations 180 N. Freeport Drive, Plant 4 Nogales, AZ 85621 Tel: (888) 364-9011 Fax: (520) 285-5134

Europe: Amphenol Industrial Operations Europe Via Barbaiana 5 1-20020 Lainate (MI) Italy Tel: +39 02 93254.204 Fax: +39 02 93254.444

Middle East:
Amphenol Middle East Enterprises FZE
Office C-37 PO Box 21107
Ajman Free Zone, UAE
Tel: +9 716-7422494
Fax: +9 716-7422941

Asia:
Amphenol Technology (Zhuhai) Co., Ltd.
No. 63 Xing Han Road, San Zao Town
Jin Wan District, Zhuhai City, China 519040
Tel: +86 756-3989760
Fax: +86 756-3989768

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Circular Metric Connectors category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below:

600X518037X 6STD15PCR99B70A 8R4000A16M020 8R5000A16M005 1200910002 1203580030 1200910008 1200910011 1300140094 130203-0054 1300140026 1300150099 1-3637-600-5205 1612618 21036836414 8R4006A16M010 1R3006A20M005 41-40011 42-00006 42-01015 4-22279-4 4-22281-1 4-22284-9 43-00113 43-01203 41-40013 42-00008 43-00343 43-01026 43-01162 43-01173 43-10000 XS3P-M421-2 600X518050X 8R5006A16M020 8R5006A16M005 8R4000A16M010 6-22279-3 1605332 N03FA03144 1300140077 43-16213 43-01338 XS2RD4265 XS2R-D426-1 XS8A-0441 859RD04-103R004 860RD04-113R004 860RD04-213R004 1-213245-2