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

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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 OT		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

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Mouser Electronics

Authorized Distributor

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Amphenol:

 HDM12PFD1RA
 HDM12PFD1ST
 HDM12RMD1RA
 HDM12RMD1ST
 HDM12PF05D1STM
 HDM12RM05D1RA

 HDM12RM05D1ST
 HDM12PF05A1RA
 HDM12RM05B1ST
 HDM12PF05D1RA
 HDM12PF05B1ST

 HDM12RM05B1RA
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 HDM12RM05D1RAM
 HDM12RM05B1RAM
 HDM12RM05D1STM
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