

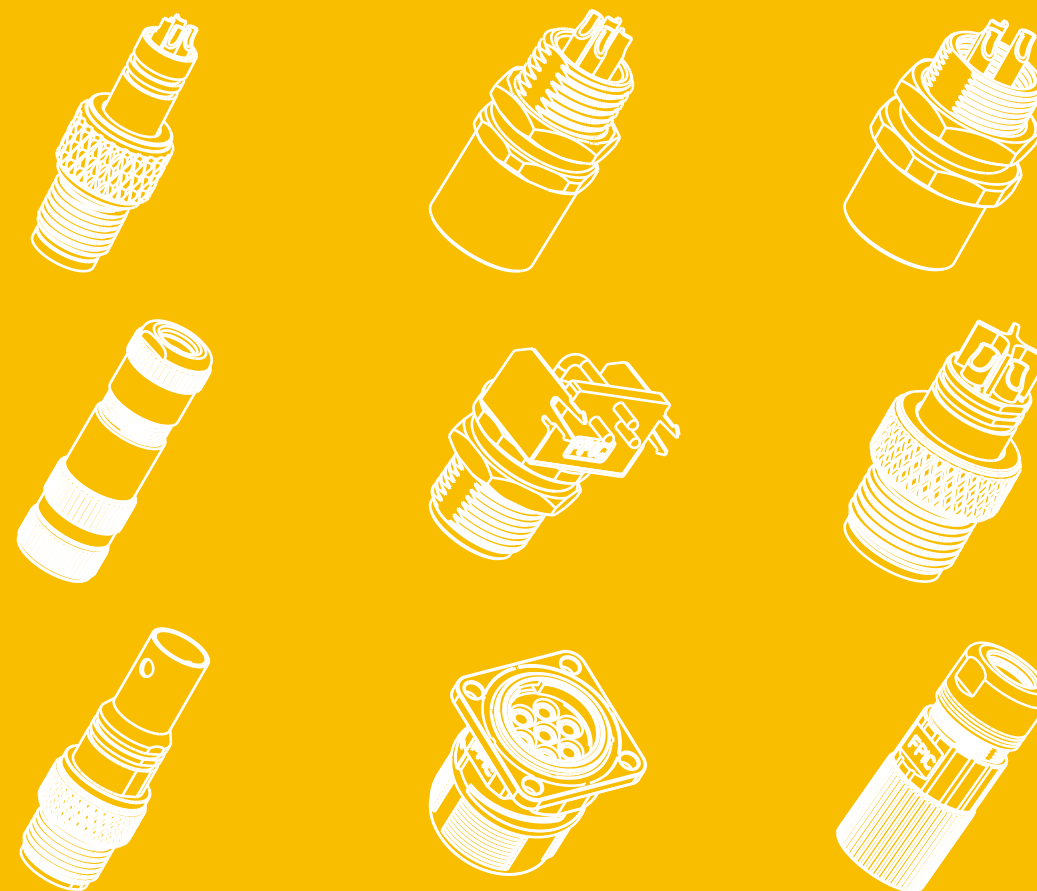


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Circular Connectors

M12 Series Cable Assembly



<https://fpiconn.com>

“ IF THERE IS A WAY
TO DO IT BETTER,
FIND IT ”

By : Thomas Alva Edison

► Company Profile

Shenzhen Forman Precision Industry Co., Ltd. is a leading and experienced manufacturing vendor, has been always committing to the technology of metal and plastic parts, focusing on designing and manufacturing connectors and cables over 20 years. Our market involves the segment of automotive, new energy, industrial automation, medical devices, etc. By now, we have been already certificated by ISO9001, ISO14000, IATF16949, ISO 13485:2016, and the member of USB association, UL, TUV.

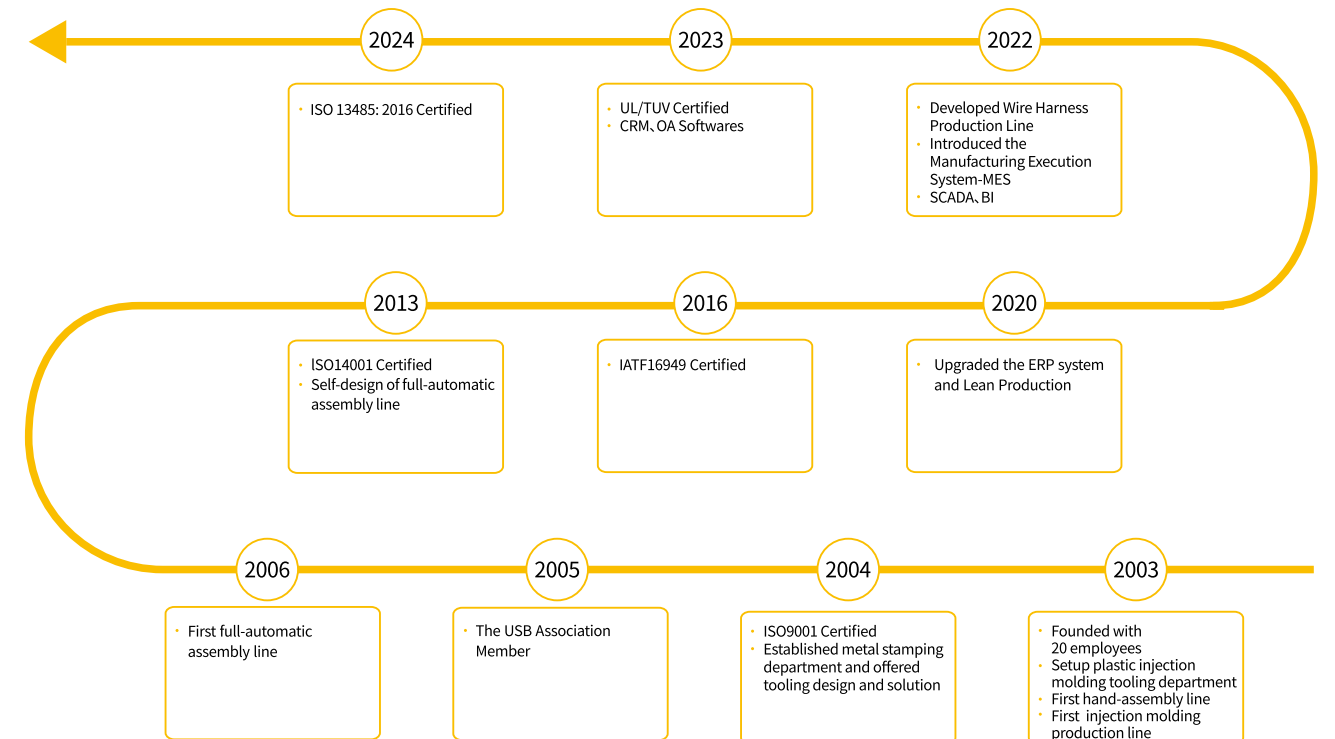
Our goal is to offer unique service experience and add value to our customers with end-to-end management. As such, we highly enjoy our reputation for being fast, flexible, and focused.



Reception

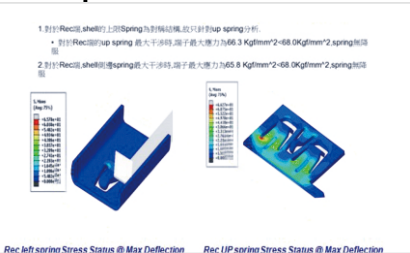


Factory

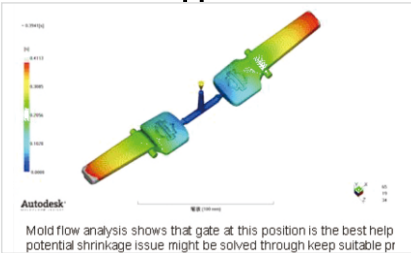


Our Advantages

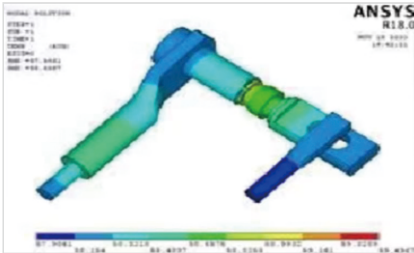
The Experienced R&D Team and CAE Software Support



Simulation Result- Stress Status@Shell Spring



Mold Flow Simulation Test



Current Rating Simulation Test

The Modernization One-stop Production Process



Wire EDM Center



Mould Workshop



Die-sinker EDM Center



Stamping Workshop



Plastic Injection Workshop



Wire Harness Workshop



Automatic Assembly Workshop



CCD Imaging Analysis



Electrometric Measurement

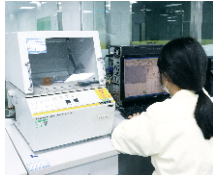


Automatic Packing

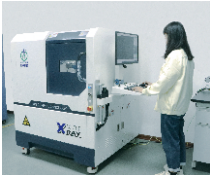
We Strictly Implement the Process of Product Quality.



Keyence Tester



X-Ray Plating Thickness Tester



X-Ray Scenograph



Halogen Testing Machine



Constant Temperature & Humidity Tester



Thermal Shock Test Chamber

Contents

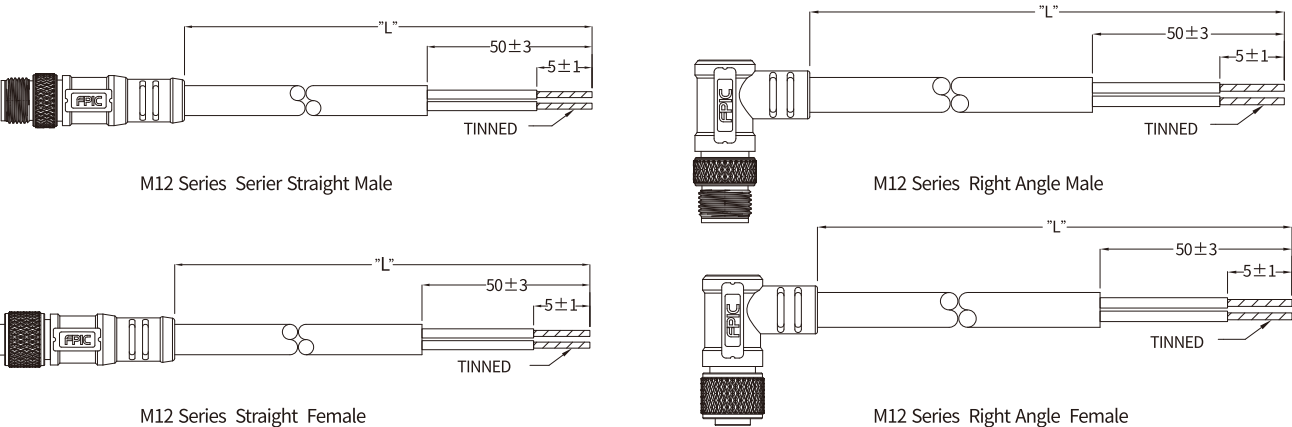
M12 Series Wire Colors and Coded Positions	01-03
M12 Series A/B/C/D Coded Injection Molded Cable Assembly	04-12
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M12 Series Cable Assembly Solutions

M12 cable assemblies are designed for applications such as sensors, robotics & production machinery & equipment, where extreme temperatures and harsh environments are likely to be encountered. These cable assemblies are also ideal for non-industrial applications where compact, robust and reliable connections are required to withstand rigorous environmental elements. Assemblies are produced in many customer-specific plug-and-play configurations to enable design flexibility and quick installation in most industrial environments. Applications for the new assemblies lie in numerous areas of industry, including process control systems, robotics and automation, production equipment, machine tools and material handling. FPIC's M12 cable assemblies are available as single-ended or double-ended, in straight and angled versions, all shielded variants. Various cable types are offered depending on the application requirements. While customized cable assemblies in different lengths provide a solution for specific needs. All can be used in combination with FPIC's male/female connectors.

- M12 Cable Assemblies are IP67 sealed and tested in FPIC's factory to eliminate the possibility of false wiring & to ensure robust connection
- Reduce downtime in harsh environments with reliable industry standard solution that includes quick turn, prototype cable assemblies.
- Full solution offering including customized and general market cable assemblies enables 1-stopshopping and reduced TCO

M12 Series Molding Type



M12 Series A/B/C/D Coding Electrical Parameters

Number of Positions	Male				Rated Current	Rated Voltage	Max.Conductor Size		Female			
	Code								Code			
	A	B	C	D			AWG	mm ²	A	B	C	D
2					4A	250V	22	0.34				
3					4A	250V	22	0.34				
4					4A	250V	22	0.34				
5					A&B Code 4A C Code 2A	60V	22	0.34				
6					2A	30V	24	0.25				
8					2A	30V	24	0.25				
12					1.5A	30V	26	0.14				
17					1.5A	30V	26	0.14				

M12 Series A/B/C/D Coding Cable Color Definition

From Poles	Wire Core Color		To Poles
	2 Poles		
1	BN		1
2	BU		2

From Poles	Wire Core Color		To Poles
	3 Poles		
1	BN		1
2	BU		2
3	BK		3

From Poles	Wire Core Color		To Poles
	6 Poles		
1	BN		1
2	WH		2
3	BU		3
4	BK		4
5	GY		5
6	RD		6

From Poles	Wire Core Color		To Poles
	5 Poles		
1	BN		1
2	WH		2
3	BU		3
4	BK		4
5	GY		5

From Poles	Wire Core Color			To Poles
	4 Poles AorB-Code		4 Poles D-Code	
1	BN		YE	1
2	WH		WH	2
3	BU		OG	3
4	BK		BU	4

From Poles	Wire Core Color		To Poles
	12 Poles		
1	BN		1
2	BU		2
3	WH		3
4	GN		4
5	PK		5
6	YE		6
7	BK		7
8	GY		8
9	RD		9
10	VT		10
11	OG		11
12	LTGN		12

From Poles	Wire Core Color			To Poles
	17 Poles			
1	BN			1
2	BU			2
3	WH			3
4	GN			4
5	PK			5
6	YE			6
7	BK			7
8	GY			8
9	RD			9
10	VT			10
11	OG			11
12	LTGN			12
13	LTBU			13
14	BK/WH			14
15	BN/WH			15
16	RD/WH			16
17	BU/WH			17

M12 Series Single Ended Connector A/B/C/D Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1SS7A1NNN03-001M-00	M12 S-Male A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1SS7A1NNN03-001M-00					Shielded
APMU-1SS7A2NNN03-001M-00				PUR	Unshielded
APMS-1SS7A2NNN03-001M-00					Shielded
APMU-1SS7B1NNN04-001M-00	M12 S-Male B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SS7B1NNN04-001M-00					Shielded
APMU-1SS7B2NNN04-001M-00				PUR	Unshielded
APMS-1SS7B2NNN04-001M-00					Shielded
APMU-1SS7C1NNN05-001M-00	M12 S-Male C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1SS7C1NNN05-001M-00					Shielded
APMU-1SS7C2NNN05-001M-00				PUR	Unshielded
APMS-1SS7C2NNN05-001M-00					Shielded
APMU-1SS7D1NNN04-001M-00	M12 S-Male D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SS7D1NNN04-001M-00					Shielded
APMU-1SS7D2NNN04-001M-00				PUR	Unshielded
APMS-1SS7D2NNN04-001M-00					Shielded
APMU-1SR7A1NNN03-001M-00	M12 R-Male A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1SR7A1NNN03-001M-00					Shielded
APMU-1SR7A2NNN03-001M-00				PUR	Unshielded
APMS-1SR7A2NNN03-001M-00					Shielded
APMU-1SR7B1NNN04-001M-00	M12 R-Male B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SR7B1NNN04-001M-00					Shielded
APMU-1SR7B2NNN04-001M-00				PUR	Unshielded
APMS-1SR7B2NNN04-001M-00					Shielded
APMU-1SR7C1NNN05-001M-00	M12 R-Male C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1SR7C1NNN05-001M-00					Shielded
APMU-1SR7C2NNN05-001M-00				PUR	Unshielded
APMS-1SR7C2NNN05-001M-00					Shielded
APMU-1SR7D1NNN04-001M-00	M12 R-Male D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SR7D1NNN04-001M-00					Shielded
APMU-1SR7D2NNN04-001M-00				PUR	Unshielded
APMS-1SR7D2NNN04-001M-00					Shielded

M12 Series Single Ended Connector A/B/C/D Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1SS8A1NNN03-001M-00	M12 S-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1SS8A1NNN03-001M-00					Shielded
APMU-1SS8A2NNN03-001M-00				PUR	Unshielded
APMS-1SS8A2NNN03-001M-00					Shielded
APMU-1SS8B1NNN04-001M-00	M12 S-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SS8B1NNN04-001M-00					Shielded
APMU-1SS8B2NNN04-001M-00				PUR	Unshielded
APMS-1SS8B2NNN04-001M-00					Shielded
APMU-1SS8C1NNN05-001M-00	M12 S-Female C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1SS8C1NNN05-001M-00					Shielded
APMU-1SS8C2NNN05-001M-00				PUR	Unshielded
APMS-1SS8C2NNN05-001M-00					Shielded
APMU-1SS8D1NNN04-001M-00	M12 S-Female D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SS8D1NNN04-001M-00					Shielded
APMU-1SS8D2NNN04-001M-00				PUR	Unshielded
APMS-1SS8D2NNN04-001M-00					Shielded
APMU-1SR8A1NNN03-001M-00	M12 R-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1SR8A1NNN03-001M-00					Shielded
APMU-1SR8A2NNN03-001M-00				PUR	Unshielded
APMS-1SR8A2NNN03-001M-00					Shielded
APMU-1SR8B1NNN04-001M-00	M12 R-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SR8B1NNN04-001M-00					Shielded
APMU-1SR8B2NNN04-001M-00				PUR	Unshielded
APMS-1SR8B2NNN04-001M-00					Shielded
APMU-1SR8C1NNN05-001M-00	M12 R-Female C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1SR8C1NNN05-001M-00					Shielded
APMU-1SR8C2NNN05-001M-00				PUR	Unshielded
APMS-1SR8C2NNN05-001M-00					Shielded
APMU-1SR8D1NNN04-001M-00	M12 R-Female D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1SR8D1NNN04-001M-00					Shielded
APMU-1SR8D2NNN04-001M-00				PUR	Unshielded
APMS-1SR8D2NNN04-001M-00					Shielded

M12 Series Both Ended Connector A/B/C/D Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS7A1S7A03-001M-00	M12 S-Male A Code to M12 S-Male A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DS7A1S7A03-001M-00					Shielded
APMU-1DS7A2S7A03-001M-00				PUR	Unshielded
APMS-1DS7A2S7A03-001M-00					Shielded
APMU-1DS7B1S7B04-001M-00	M12 S-Male B Code to M12 S-Male B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7B1S7B04-001M-00					Shielded
APMU-1DS7B2S7B04-001M-00				PUR	Unshielded
APMS-1DS7B2S7B04-001M-00					Shielded
APMU-1DS7C1S7C05-001M-00	M12 S-Male C Code to M12 S-Male C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DS7C1S7C05-001M-00					Shielded
APMU-1DS7C2S7C05-001M-00				PUR	Unshielded
APMS-1DS7C2S7C05-001M-00					Shielded
APMU-1DS7D1S7D04-001M-00	M12 S-Male D Code to M12 S-Male D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7D1S7D04-001M-00					Shielded
APMU-1DS7D2S7D04-001M-00				PUR	Unshielded
APMS-1DS7D2S7D04-001M-00					Shielded
APMU-1DS7A1R7A03-001M-00	M12 S-Male A Code to M12 R-Male A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DS7A1R7A03-001M-00					Shielded
APMU-1DS7A2R7A03-001M-00				PUR	Unshielded
APMS-1DS7A2R7A03-001M-00					Shielded
APMU-1DS7B1R7B04-001M-00	M12 S-Male B Code to M12 R-Male B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7B1R7B04-001M-00					Shielded
APMU-1DS7B2R7B04-001M-00				PUR	Unshielded
APMS-1DS7B2R7B04-001M-00					Shielded
APMU-1DS7C1R7C05-001M-00	M12 S-Male C Code to M12 R-Male C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DS7C1R7C05-001M-00					Shielded
APMU-1DS7C2R7C05-001M-00				PUR	Unshielded
APMS-1DS7C2R7C05-001M-00					Shielded
APMU-1DS7D1R7D04-001M-00	M12 S-Male D Code to M12 R-Male D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7D1R7D04-001M-00					Shielded
APMU-1DS7D2R7D04-001M-00				PUR	Unshielded
APMS-1DS7D2R7D04-001M-00					Shielded

M12 Series Both Ended Connector A/B/C/D Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS7A1S8A03-001M-00	M12 S-Male A Code to M12 S-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DS7A1S8A03-001M-00					Shielded
APMU-1DS7A2S8A03-001M-00				PUR	Unshielded
APMS-1DS7A2S8A03-001M-00					Shielded
APMU-1DS7B1S8B04-001M-00	M12 S-Male B Code to M12 S-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7B1S8B04-001M-00					Shielded
APMU-1DS7B2S8B04-001M-00				PUR	Unshielded
APMS-1DS7B2S8B04-001M-00					Shielded
APMU-1DS7C1S8C05-001M-00	M12 S-Male C Code to M12 S-Female C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DS7C1S8C05-001M-00					Shielded
APMU-1DS7C2S8C05-001M-00				PUR	Unshielded
APMS-1DS7C2S8C05-001M-00					Shielded
APMU-1DS7D1S8D04-001M-00	M12 S-Male D Code to M12 S-Female D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7D1S8D04-001M-00					Shielded
APMU-1DS7D2S8D04-001M-00				PUR	Unshielded
APMS-1DS7D2S8D04-001M-00					Shielded
APMU-1DS7A1R8A03-001M-00	M12 S-Male A Code to M12 R-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DS7A1R8A03-001M-00					Shielded
APMU-1DS7A2R8A03-001M-00				PUR	Unshielded
APMS-1DS7A2R8A03-001M-00					Shielded
APMU-1DS7B1R8B04-001M-00	M12 S-Male B Code to M12 R-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7B1R8B04-001M-00					Shielded
APMU-1DS7B2R8B04-001M-00				PUR	Unshielded
APMS-1DS7B2R8B04-001M-00					Shielded
APMU-1DS7C1R8C05-001M-00	M12 S-Male C Code to M12 R-Female C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DS7C1R8C05-001M-00					Shielded
APMU-1DS7C2R8C05-001M-00				PUR	Unshielded
APMS-1DS7C2R8C05-001M-00					Shielded
APMU-1DS7D1R8D04-001M-00	M12 S-Male D Code to M12 R-Female D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS7D1R8D04-001M-00					Shielded
APMU-1DS7D2R8D04-001M-00				PUR	Unshielded
APMS-1DS7D2R8D04-001M-00					Shielded

M12 Series Both Ended Connector A/B/C/D Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DR7A1R7A03-001M-00	M12 R-Male A Code to M12 R-Male A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DR7A1R7A03-001M-00					Shielded
APMU-1DR7A2R7A03-001M-00				PUR	Unshielded
APMS-1DR7A2R7A03-001M-00					Shielded
APMU-1DR7B1R7B04-001M-00	M12 R-Male B Code to M12 R-Male B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DR7B1R7B04-001M-00					Shielded
APMU-1DR7B2R7B04-001M-00				PUR	Unshielded
APMS-1DR7B2R7B04-001M-00					Shielded
APMU-1DR7C1R7C05-001M-00	M12 R-Male C Code to M12 R-Male C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DR7C1R7C05-001M-00					Shielded
APMU-1DR7C2R7C05-001M-00				PUR	Unshielded
APMS-1DR7C2R7C05-001M-00					Shielded
APMU-1DR7D1R7D04-001M-00	M12 R-Male D Code to M12 R-Male D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DR7D1R7D04-001M-00					Shielded
APMU-1DR7D2R7D04-001M-00				PUR	Unshielded
APMS-1DR7D2R7D04-001M-00					Shielded
APMU-1DR7A1S8A03-001M-00	M12 R-Male A Code to M12 S-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DR7A1S8A03-001M-00					Shielded
APMU-1DR7A2S8A03-001M-00				PUR	Unshielded
APMS-1DR7A2S8A03-001M-00					Shielded
APMU-1DR7B1S8B04-001M-00	M12 R-Male B Code to M12 S-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DR7B1S8B04-001M-00					Shielded
APMU-1DR7B2S8B04-001M-00				PUR	Unshielded
APMS-1DR7B2S8B04-001M-00					Shielded
APMU-1DR7C1S8C05-001M-00	M12 R-Male C Code to M12 S-Female C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DR7C1S8C05-001M-00					Shielded
APMU-1DR7C2S8C05-001M-00				PUR	Unshielded
APMS-1DR7C2S8C05-001M-00					Shielded
APMU-1DR7D1S8D04-001M-00	M12 R-Male D Code to M12 S-Female D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DR7D1S8D04-001M-00					Shielded
APMU-1DR7D2S8D04-001M-00				PUR	Unshielded
APMS-1DR7D2S8D04-001M-00					Shielded

M12 Series Both Ended Connector A/B/C/D Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DR7A1R8A03-001M-00	M12 R-Male A Code to M12 R-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DR7A1R8A03-001M-00					Shielded
APMU-1DR7A2R8A03-001M-00				PUR	Unshielded
APMS-1DR7A2R8A03-001M-00					Shielded
APMU-1DR7B1R8B04-001M-00	M12 R-Male B Code to M12 R-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DR7B1R8B04-001M-00					Shielded
APMU-1DR7B2R8B04-001M-00				PUR	Unshielded
APMS-1DR7B2R8B04-001M-00					Shielded
APMU-1DR7C1R8C05-001M-00	M12 R-Male C Code to M12 R-Female C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DR7C1R8C05-001M-00					Shielded
APMU-1DR7C2R8C05-001M-00				PUR	Unshielded
APMS-1DR7C2R8C05-001M-00					Shielded
APMU-1DR7D1R8D04-001M-00	M12 R-Male D Code to M12 R-Female D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DR7D1R8D04-001M-00					Shielded
APMU-1DR7D2R8D04-001M-00				PUR	Unshielded
APMS-1DR7D2R8D04-001M-00					Shielded
APMU-1DS8A1S8A03-001M-00	M12 S-Female A Code to M12 S-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DS8A1S8A03-001M-00					Shielded
APMU-1DS8A2S8A03-001M-00				PUR	Unshielded
APMS-1DS8A2S8A03-001M-00					Shielded
APMU-1DS8B1S8B04-001M-00	M12 S-Female B Code to M12 S-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS8B1S8B04-001M-00					Shielded
APMU-1DS8B2S8B04-001M-00				PUR	Unshielded
APMS-1DS8B2S8B04-001M-00					Shielded
APMU-1DS8C1S8C05-001M-00	M12 S-Female C Code to M12 S-Female C Code 5Pos Cable 5C Black L=0.1M	5		PVC	Unshielded
APMS-1DS8C1S8C05-001M-00					Shielded
APMU-1DS8C2S8C05-001M-00				PUR	Unshielded
APMS-1DS8C2S8C05-001M-00					Shielded
APMU-1DS8D1S8D04-001M-00	M12 S-Female D Code to M12 S-Female D Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS8D1S8D04-001M-00					Shielded
APMU-1DS8D2S8D04-001M-00				PUR	Unshielded
APMS-1DS8D2S8D04-001M-00					Shielded

M12 Series Both Ended Connector A/B/C/D Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS8A1R8A03-001M-00	M12 S-Female A Code to M12 R-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DS8A1R8A03-001M-00					Shielded
APMU-1DS8A2R8A03-001M-00				PUR	Unshielded
APMS-1DS8A2R8A03-001M-00					Shielded
APMU-1DS8B1R8B04-001M-00	M12 S-Female B Code to M12 R-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DS8B1R8B04-001M-00					Shielded
APMU-1DS8B2R8B04-001M-00				PUR	Unshielded
APMS-1DS8B2R8B04-001M-00					Shielded
APMU-1DS8C1R8C05-001M-00	M12 S-Female C Code to M12 R-Female C Code 5Pos Cable 5C Black L=0.1M	5	PVC	Unshielded	
APMS-1DS8C1R8C05-001M-00				Shielded	
APMU-1DS8C2R8C05-001M-00			PUR	Unshielded	
APMS-1DS8C2R8C05-001M-00				Shielded	
APMU-1DS8D1R8D04-001M-00	M12 S-Female D Code to M12 R-Female D Code 4Pos Cable 4C Black L=0.1M	4	PVC	Unshielded	
APMS-1DS8D1R8D04-001M-00				Shielded	
APMU-1DS8D2R8D04-001M-00			PUR	Unshielded	
APMS-1DS8D2R8D04-001M-00				Shielded	
APMU-1DR8A1R8A03-001M-00	M12 R-Female A Code to M12 R-Female A Code 3Pos Cable 3C Black L=0.1M	3		PVC	Unshielded
APMS-1DR8A1R8A03-001M-00					Shielded
APMU-1DR8A2R8A03-001M-00				PUR	Unshielded
APMS-1DR8A2R8A03-001M-00					Shielded
APMU-1DR8B1R8B04-001M-00	M12 R-Female B Code to M12 R-Female B Code 4Pos Cable 4C Black L=0.1M	4		PVC	Unshielded
APMS-1DR8B1R8B04-001M-00					Shielded
APMU-1DR8B2R8B04-001M-00				PUR	Unshielded
APMS-1DR8B2R8B04-001M-00					Shielded
APMU-1DR8C1R8C05-001M-00	M12 R-Female C Code to M12 R-Female C Code 5Pos Cable 5C Black L=0.1M	5	PVC	Unshielded	
APMS-1DR8C1R8C05-001M-00				Shielded	
APMU-1DR8C2R8C05-001M-00			PUR	Unshielded	
APMS-1DR8C2R8C05-001M-00				Shielded	
APMU-1DR8D1R8D04-001M-00	M12 R-Female D Code to M12 R-Female D Code 4Pos Cable 4C Black L=0.1M	4	PVC	Unshielded	
APMS-1DR8D1R8D04-001M-00				Shielded	
APMU-1DR8D2R8D04-001M-00			PUR	Unshielded	
APMS-1DR8D2R8D04-001M-00				Shielded	

M12 Series A/B/C/D Coded Definition

M12 A-coded cable assemblies are designed for applications such as sensors, robotics & production machinery & equipment, where extreme temperatures and harsh environments are likely to be encountered. These cable assemblies are also ideal for non-industrial applications where compact, robust and reliable connections are required to withstand rigorous environmental elements.

The new A and B-coded M12 cable assemblies comply with Profibus, DeviceNet and CC-link protocols, offering multiple options for a variety of needs that makes TE an one-stop shop. They have 360-degree shielding against EMI for complete protection for signal and data transmission, and are rated IP67 for resistance to dust and water. The assemblies are overmolded in either PVC or halogen-free polyurethane (PUR) cables,suitable for drag chain applications or torsional stress,depending on customer performance requirements.

FPIC Connectivity offers M12 data cable assemblies with D-code interfaces that support Ethernet protocols as part of its package of Industrial Ethernet and Fieldbus solutions. The Cat5e cable jackets vary between PVC, PUR and TPE offer a unique solution toward satisfying the stringent needs of motion systems supporting both flexing and stationary industrial Ethernet requirements.

FPIC's portfolio is further complemented with overmolded M12 D-code to RJ45 configurations which are key components to an overall Industrial Ethernet application and designed for connection within control cabinets, machinery and in-the-field operations. This makes it the one-stop shop for M8/M12 cable assemblies for Industrial Network communications.FPIC has enriched its already large offering in Fieldbus connectivity solutions (based on Profibus, DeviceNet, CanOpen and CC-link) with Industrial Ethernet protocols such as Profinet, EtherCAT, Ethernet/IP and SERCOS-III.

FPIC Connectivity offers M12 data cable assemblies with D-code interfaces that support Ethernet protocols as part of its package of Industrial Ethernet and Fieldbus solutions. The Cat5e cable jackets vary between PVC, PUR and TPE offer a unique solution toward satisfying the stringent needs of motion systems supporting both flexing and stationary industrial Ethernet requirements.

FPIC's portfolio is further complemented with overmolded M12 D-code to RJ45 configurations which are key components to an overall Industrial Ethernet application and designed for connection within control cabinets, machinery and in-the-field operations.

M12 Series A/B/C/D Coded Definition

Material

- Contact: Brass, Gold Flash Plating
- Nut: Brass, Nickel Plating Shielded or Unshielded Versions
- O-Ring: Silicon Rubber
- Housing: PA
- Over-Molding: PVC or TPU
- Over-Molding Color: Black or Gray
- Key Options:A or B or C or D Coded
- M12 Positions:
- A Coded: 2,3,4,5,6,8,12,17 Poles
- B Coded: 4,5 Poles
- B Coded: 4,5 Poles
- C Coded: 2+PE,3+PE,4+PE,5+PE Poles
- D Coded: 4 Poles
- M12 Single or Double Ended Cable Assembly
- Cable Length Options:Custom

Cable Specification

Cable Jacket: PVC or PUR
Cable Assembly:
Shielded or Unshielded Versions
Jacket Color: Black or Gray
Conductor:
<2A 26AWG/28AWG
2A<4A 24AWG/26AWG
≥4A 22AWG/24AWG

Mechanical

Durability:100 Cycles
Degree of Protection: IP67
Temperature Range:
-PVC:
Fixed: -40°C to +80°C
Flexible: -20°C to +80°C
-PUR:
Fixed: -40°C to +80°C
Flexible: -20°C to +80°C

Electrical

Voltage Rating:
• 250V (≤4 Poles)
• 60V (5 Poles)
• 30V (>5 Poles)
Current Rating:
• 2 – 5Poles: 4A
• 6 – 8Poles: 2A
• 12 – 17Poles: 1.5A
Insulation Resistance: 100MΩ Min

M12 Series S/T/K/L/M Coding Electrical Parameters

Interface Code Type	Pins	Male	Rated Current	Rated Voltage	Max. Conductor Size		Female
					AWG	mm²	
S	2		12A	630V	16AWG	1.3	
	2+PE		12A	630V	16AWG	1.3	
	3+PE		12A	630V	16AWG	1.3	
T	2		12A	60V	16AWG	1.3	
	2+PE		12A	60V	16AWG	1.3	
	3+PE		12A	60V	16AWG	1.3	
K	2		16A	630V	16AWG	1.3	
	2+PE		16A	630V	16AWG	1.3	
	3+PE		16A	630V	16AWG	1.3	
	4+PE		16A	630V	16AWG	1.3	

Interface Code Type	Pins	Male	Rated Current	Rated Voltage	Max. Conductor Size		Female
					AWG	mm²	
L	2		16A	63V	16AWG	1.3	
	2+PE		16A	63V	16AWG	1.3	
	3		16A	63V	16AWG	1.3	
	3+PE		16A	63V	16AWG	1.3	
	4		16A	63V	16AWG	1.3	
M	2		8A	630V	18AWG	0.75	
	2+PE		8A	630V	18AWG	0.75	
	3+PE		8A	630V	18AWG	0.75	
	4+PE		8A	630V	18AWG	0.75	
	5+PE		8A	630V	18AWG	0.75	

M12 Series S/T/K/L/M Coding Cable Color Definition

From Poles	Wire Core Color		To Poles
	2 Poles+PE S-Code		
1	BK 1		
2	BK 2		
PE	GR/YE		PE

From Poles	Wire Core Color		To Poles	
	5 Poles+PE M-Code			
1	BK 1			1
2	BK 2			2
3	BK 3			3
4	BK 4			4
5	BK 5			5
PE	GR/YE			PE

From Poles	Wire Core Color		To Poles	
	3 Poles+PE S-Code			
1	BK 1			1
2	BK 2			2
3	BK 3			3
PE	GR/YE			PE

From Poles	Wire Core Color		To Poles
	4 Poles T-Code		
1	BR		1
2	WH		2
3	BU		3
4	BK		4

From Poles	Wire Core Color		To Poles
	4 Poles+PE L-Code		
1	BR		1
2	WH		2
3	BU		3
4	BK		4
PE	GY		PE

From Poles	Wire Core Color		To Poles	
	4 Poles+PE K-Code			
1	BK 1			1
2	BK 2			2
3	BK 3			3
4	BK 4			4
PE	GR/YE			PE

M12 Series Single Ended Connector S/T/K/L/M Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1SS7S1NNN03-001M-00	M12 S-Male S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1SS7S1NNN03-001M-00					Shielded
APMU-1SS7S2NNN03-001M-00				PUR	Unshielded
APMS-1SS7S2NNN03-001M-00					Shielded
APMU-1SS7T1NNN04-001M-00	M12 S-Male T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1SS7T1NNN04-001M-00					Shielded
APMU-1SS7T2NNN04-001M-00				PUR	Unshielded
APMS-1SS7T2NNN04-001M-00					Shielded
APMU-1SS7K1NNN05-001M-00	M12 S-Male K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1SS7K1NNN05-001M-00					Shielded
APMU-1SS7K2NNN05-001M-00				PUR	Unshielded
APMS-1SS7K2NNN05-001M-00					Shielded
APMU-1SS7L1NNN03-001M-01	M12 S-Male L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1SS7L1NNN03-001M-01					Shielded
APMU-1SS7L2NNN03-001M-01				PUR	Unshielded
APMS-1SS7L2NNN03-001M-01					Shielded
APMU-1SS7M1NNN04-001M-00	M12 S-Male M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1SS7M1NNN04-001M-00				Shielded	
APMU-1SS7M2NNN04-001M-00			PUR	Unshielded	
APMS-1SS7M2NNN04-001M-00				Shielded	
APMU-1SR7S1NNN03-001M-00	M12 R-Male S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1SR7S1NNN03-001M-00					Shielded
APMU-1SR7S2NNN03-001M-00				PUR	Unshielded
APMS-1SR7S2NNN03-001M-00					Shielded
APMU-1SR7T1NNN04-001M-00	M12 R-Male T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1SR7T1NNN04-001M-00					Shielded
APMU-1SR7T2NNN04-001M-00				PUR	Unshielded
APMS-1SR7T2NNN04-001M-00					Shielded
APMU-1SR7K1NNN05-001M-00	M12 R-Male K Code 5Pos Cable 5C Black L=0.1M	4+PE	PVC	Unshielded	
APMS-1SR7K1NNN05-001M-00				Shielded	
APMU-1SR7K2NNN05-001M-00			PUR	Unshielded	
APMS-1SR7K2NNN05-001M-00				Shielded	
APMU-1SR7L1NNN03-001M-01	M12 R-Male L Code 3Pos Cable 3C Black L=0.1M	2+PE	PVC	Unshielded	
APMS-1SR7L1NNN03-001M-01				Shielded	
APMU-1SR7L2NNN03-001M-01			PUR	Unshielded	
APMS-1SR7L2NNN03-001M-01				Shielded	
APMU-1SR7M1NNN04-001M-00	M12 R-Male M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1SR7M1NNN04-001M-00				Shielded	
APMU-1SR7M2NNN04-001M-00			PUR	Unshielded	
APMS-1SR7M2NNN04-001M-00				Shielded	

M12 Series Single Ended Connector S/T/K/L/M Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1SS8S1NNN03-001M-00	M12 S-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1SS8S1NNN03-001M-00					Shielded
APMU-1SS8S2NNN03-001M-00				PUR	Unshielded
APMS-1SS8S2NNN03-001M-00					Shielded
APMU-1SS8T1NNN04-001M-00	M12 S-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1SS8T1NNN04-001M-00					Shielded
APMU-1SS8T2NNN04-001M-00				PUR	Unshielded
APMS-1SS8T2NNN04-001M-00					Shielded
APMU-1SS8K1NNN05-001M-00	M12 S-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1SS8K1NNN05-001M-00					Shielded
APMU-1SS8K2NNN05-001M-00				PUR	Unshielded
APMS-1SS8K2NNN05-001M-00					Shielded
APMU-1SS8L1NNN03-001M-01	M12 S-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1SS8L1NNN03-001M-01					Shielded
APMU-1SS8L2NNN03-001M-01				PUR	Unshielded
APMS-1SS8L2NNN03-001M-01					Shielded
APMU-1SS8M1NNN04-001M-00	M12 S-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1SS8M1NNN04-001M-00				Shielded	
APMU-1SS8M2NNN04-001M-00			PUR	Unshielded	
APMS-1SS8M2NNN04-001M-00				Shielded	
APMU-1SR8S1NNN03-001M-00	M12 R-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1SR8S1NNN03-001M-00					Shielded
APMU-1SR8S2NNN03-001M-00				PUR	Unshielded
APMS-1SR8S2NNN03-001M-00					Shielded
APMU-1SR8T1NNN04-001M-00	M12 R-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1SR8T1NNN04-001M-00					Shielded
APMU-1SR8T2NNN04-001M-00				PUR	Unshielded
APMS-1SR8T2NNN04-001M-00					Shielded
APMU-1SR8K1NNN05-001M-00	M12 R-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1SR8K1NNN05-001M-00					Shielded
APMU-1SR8K2NNN05-001M-00				PUR	Unshielded
APMS-1SR8K2NNN05-001M-00					Shielded
APMU-1SR8L1NNN03-001M-01	M12 R-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1SR8L1NNN03-001M-01					Shielded
APMU-1SR8L2NNN03-001M-01				PUR	Unshielded
APMS-1SR8L2NNN03-001M-01					Shielded
APMU-1SR8M1NNN04-001M-00	M12 R-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1SR8M1NNN04-001M-00				Shielded	
APMU-1SR8M2NNN04-001M-00			PUR	Unshielded	
APMS-1SR8M2NNN04-001M-00				Shielded	

M12 Series Both Ended Connector S/T/K/L/M Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS7S1S7S03-001M-00	M12 S-Male S Code to M12 S-Male S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7S1S7S03-001M-00					Shielded
APMU-1DS7S2S7S03-001M-00				PUR	Unshielded
APMS-1DS7S2S7S03-001M-00					Shielded
APMU-1DS7T1S7T04-001M-00	M12 S-Male T Code to M12 S-Male T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DS7T1S7T04-001M-00					Shielded
APMU-1DS7T2S7T04-001M-00				PUR	Unshielded
APMS-1DS7T2S7T04-001M-00					Shielded
APMU-1DS7K1S7K05-001M-00	M12 S-Male K Code to M12 S-Male K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DS7K1S7K05-001M-00					Shielded
APMU-1DS7K2S7K05-001M-00				PUR	Unshielded
APMS-1DS7K2S7K05-001M-00					Shielded
APMU-1DS7L1S7L03-001M-01	M12 S-Male L Code to M12 S-Male L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7L1S7L03-001M-01					Shielded
APMU-1DS7L2S7L03-001M-01				PUR	Unshielded
APMS-1DS7L2S7L03-001M-01					Shielded
APMU-1DS7M1S7M04-001M-00	M12 S-Male M Code to M12 S-Male M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1DS7M1S7M04-001M-00				Shielded	
APMU-1DS7M2S7M04-001M-00			PUR	Unshielded	
APMS-1DS7M2S7M04-001M-00				Shielded	
APMU-1DS7S1R7S03-001M-00	M12 S-Male S Code to M12 R-Male S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7S1R7S03-001M-00					Shielded
APMU-1DS7S2R7S03-001M-00				PUR	Unshielded
APMS-1DS7S2R7S03-001M-00					Shielded
APMU-1DS7T1R7T04-001M-00	M12 S-Male T Code to M12 R-Male T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DS7T1R7T04-001M-00					Shielded
APMU-1DS7T2R7T04-001M-00				PUR	Unshielded
APMS-1DS7T2R7T04-001M-00					Shielded
APMU-1DS7K1R7K05-001M-00	M12 S-Male K Code to M12 R-Male K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DS7K1R7K05-001M-00					Shielded
APMU-1DS7K2R7K05-001M-00				PUR	Unshielded
APMS-1DS7K2R7K05-001M-00					Shielded
APMU-1DS7L1R7L03-001M-01	M12 S-Male L Code to M12 R-Male L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7L1R7L03-001M-01					Shielded
APMU-1DS7L2R7L03-001M-01				PUR	Unshielded
APMS-1DS7L2R7L03-001M-01					Shielded
APMU-1DS7M1R7M04-001M-00	M12 S-Male M Code to M12 R-Male M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1DS7M1R7M04-001M-00				Shielded	
APMU-1DS7M2R7M04-001M-00			PUR	Unshielded	
APMS-1DS7M2R7M04-001M-00				Shielded	

M12 Series Both Ended Connector S/T/K/L/M Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS7S1S8S03-001M-00	M12 S-Male S Code to M12 S-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7S1S8S03-001M-00					Shielded
APMU-1DS7S2S8S03-001M-00				PUR	Unshielded
APMS-1DS7S2S8S03-001M-00					Shielded
APMU-1DS7T1S8T04-001M-00	M12 S-Male T Code to M12 S-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DS7T1S8T04-001M-00					Shielded
APMU-1DS7T2S8T04-001M-00				PUR	Unshielded
APMS-1DS7T2S8T04-001M-00					Shielded
APMU-1DS7K1S8K05-001M-00	M12 S-Male K Code to M12 S-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DS7K1S8K05-001M-00					Shielded
APMU-1DS7K2S8K05-001M-00				PUR	Unshielded
APMS-1DS7K2S8K05-001M-00					Shielded
APMU-1DS7L1S8L03-001M-01	M12 S-Male L Code to M12 S-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7L1S8L03-001M-01					Shielded
APMU-1DS7L2S8L03-001M-01				PUR	Unshielded
APMS-1DS7L2S8L03-001M-01					Shielded
APMU-1DS7M1S8M04-001M-00	M12 S-Male M Code to M12 S-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DS7M1S8M04-001M-00					Shielded
APMU-1DS7M2S8M04-001M-00				PUR	Unshielded
APMS-1DS7M2S8M04-001M-00					Shielded
APMU-1DS7S1R8S03-001M-00	M12 S-Male S Code to M12 R-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7S1R8S03-001M-00					Shielded
APMU-1DS7S2R8S03-001M-00				PUR	Unshielded
APMS-1DS7S2R8S03-001M-00					Shielded
APMU-1DS7T1R8T04-001M-00	M12 S-Male T Code to M12 R-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DS7T1R8T04-001M-00					Shielded
APMU-1DS7T2R8T04-001M-00				PUR	Unshielded
APMS-1DS7T2R8T04-001M-00					Shielded
APMU-1DS7K1R8K05-001M-00	M12 S-Male K Code to M12 R-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DS7K1R8K05-001M-00					Shielded
APMU-1DS7K2R8K05-001M-00				PUR	Unshielded
APMS-1DS7K2R8K05-001M-00					Shielded
APMU-1DS7L1R8L03-001M-01	M12 S-Male L Code to M12 R-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS7L1R8L03-001M-01					Shielded
APMU-1DS7L2R8L03-001M-01				PUR	Unshielded
APMS-1DS7L2R8L03-001M-01					Shielded
APMU-1DS7M1R8M04-001M-00	M12 S-Male M Code to M12 R-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DS7M1R8M04-001M-00					Shielded
APMU-1DS7M2R8M04-001M-00				PUR	Unshielded
APMS-1DS7M2R8M04-001M-00					Shielded

M12 Series Both Ended Connector S/T/K/L/M Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DR7S1R7S03-001M-00	M12 R-Male S Code to M12 R-Male S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR7S1R7S03-001M-00					Shielded
APMU-1DR7S2R7S03-001M-00				PUR	Unshielded
APMS-1DR7S2R7S03-001M-00					Shielded
APMU-1DR7T1R7T04-001M-00	M12 R-Male T Code to M12 R-Male T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DR7T1R7T04-001M-00					Shielded
APMU-1DR7T2R7T04-001M-00				PUR	Unshielded
APMS-1DR7T2R7T04-001M-00					Shielded
APMU-1DR7K1R7K05-001M-00	M12 R-Male K Code to M12 R-Male K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DR7K1R7K05-001M-00					Shielded
APMU-1DR7K2R7K05-001M-00				PUR	Unshielded
APMS-1DR7K2R7K05-001M-00					Shielded
APMU-1DR7L1R7L03-001M-01	M12 R-Male L Code to M12 R-Male L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR7L1R7L03-001M-01					Shielded
APMU-1DR7L2R7L03-001M-01				PUR	Unshielded
APMS-1DR7L2R7L03-001M-01					Shielded
APMU-1DR7M1R7M04-001M-00	M12 R-Male M Code to M12 R-Male M Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DR7M1R7M04-001M-00					Shielded
APMU-1DR7M2R7M04-001M-00				PUR	Unshielded
APMS-1DR7M2R7M04-001M-00					Shielded
APMU-1DR7S1S8S03-001M-00	M12 R-Male S Code to M12 S-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR7S1S8S03-001M-00					Shielded
APMU-1DR7S2S8S03-001M-00				PUR	Unshielded
APMS-1DR7S2S8S03-001M-00					Shielded
APMU-1DR7T1S8T04-001M-00	M12 R-Male T Code to M12 S-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DR7T1S8T04-001M-00					Shielded
APMU-1DR7T2S8T04-001M-00				PUR	Unshielded
APMS-1DR7T2S8T04-001M-00					Shielded
APMU-1DR7K1S8K05-001M-00	M12 R-Male K Code to M12 S-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DR7K1S8K05-001M-00					Shielded
APMU-1DR7K2S8K05-001M-00				PUR	Unshielded
APMS-1DR7K2S8K05-001M-00					Shielded
APMU-1DR7L1S8L03-001M-01	M12 R-Male L Code to M12 S-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR7L1S8L03-001M-01					Shielded
APMU-1DR7L2S8L03-001M-01				PUR	Unshielded
APMS-1DR7L2S8L03-001M-01					Shielded
APMU-1DR7M1S8M04-001M-00	M12 R-Male M Code to M12 S-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DR7M1S8M04-001M-00					Shielded
APMU-1DR7M2S8M04-001M-00				PURR	Unshielded
APMS-1DR7M2S8M04-001M-00					Shielded

M12 Series Both Ended Connector S/T/K/L/M Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DR7S1R8S03-001M-00	M12 R-Male S Code to M12 R-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR7S1R8S03-001M-00					Shielded
APMU-1DR7S2R8S03-001M-00				PUR	Unshielded
APMS-1DR7S2R8S03-001M-00					Shielded
APMU-1DR7T1R8T04-001M-00	M12 R-Male T Code to M12 R-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DR7T1R8T04-001M-00					Shielded
APMU-1DR7T2R8T04-001M-00				PUR	Unshielded
APMS-1DR7T2R8T04-001M-00					Shielded
APMU-1DR7K1R8K05-001M-00	M12 R-Male K Code to M12 R-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DR7K1R8K05-001M-00					Shielded
APMU-1DR7K2R8K05-001M-00				PUR	Unshielded
APMS-1DR7K2R8K05-001M-00					Shielded
APMU-1DR7L1R8L03-001M-01	M12 R-Male L Code to M12 R-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR7L1R8L03-001M-01					Shielded
APMU-1DR7L2R8L03-001M-01				PUR	Unshielded
APMS-1DR7L2R8L03-001M-01					Shielded
APMU-1DR7M1R8M04-001M-00	M12 R-Male M Code to M12 R-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DR7M1R8M04-001M-00					Shielded
APMU-1DR7M2R8M04-001M-00				PUR	Unshielded
APMS-1DR7M2R8M04-001M-00					Shielded
APMU-1DS8S1S8S03-001M-00	M12 S-Female S Code to M12 S-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE	PVC	Unshielded	
APMS-1DS8S1S8S03-001M-00				Shielded	
APMU-1DS8S2S8S03-001M-00			PUR	Unshielded	
APMS-1DS8S2S8S03-001M-00				Shielded	
APMU-1DS8T1S8T04-001M-00	M12 S-Female T Code to M12 S-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1DS8T1S8T04-001M-00				Shielded	
APMU-1DS8T2S8T04-001M-00			PUR	Unshielded	
APMS-1DS8T2S8T04-001M-00				Shielded	
APMU-1DS8K1S8K05-001M-00	M12 S-Female K Code to M12 S-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE	PVC	Unshielded	
APMS-1DS8K1S8K05-001M-00				Shielded	
APMU-1DS8K2S8K05-001M-00			PUR	Unshielded	
APMS-1DS8K2S8K05-001M-00				Shielded	
APMU-1DS8L1S8L03-001M-01	M12 S-Female L Code to M12 S-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE	PVC	Unshielded	
APMS-1DS8L1S8L03-001M-01				Shielded	
APMU-1DS8L2S8L03-001M-01			PUR	Unshielded	
APMS-1DS8L2S8L03-001M-01				Shielded	
APMU-1DS8M1S8M04-001M-00	M12 S-Female M Code to M12 S-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1DS8M1S8M04-001M-00				Shielded	
APMU-1DS8M2S8M04-001M-00			PUR	Unshielded	
APMS-1DS8M2S8M04-001M-00				Shielded	

M12 Series Both Ended Connector S/T/K/L/M Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS8S1R8S03-001M-00	M12 S-Female S Code to M12 R-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS8S1R8S03-001M-00					Shielded
APMU-1DS8S2R8S03-001M-00				PUR	Unshielded
APMS-1DS8S2R8S03-001M-00					Shielded
APMU-1DS8T1R8T04-001M-00	M12 S-Female T Code to M12 R-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DS8T1R8T04-001M-00					Shielded
APMU-1DS8T2R8T04-001M-00				PUR	Unshielded
APMS-1DS8T2R8T04-001M-00					Shielded
APMU-1DS8K1R8K05-001M-00	M12 S-Female K Code to M12 R-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DS8K1R8K05-001M-00					Shielded
APMU-1DS8K2R8K05-001M-00				PUR	Unshielded
APMS-1DS8K2R8K05-001M-00					Shielded
APMU-1DS8L1R8L03-001M-01	M12 S-Female L Code to M12 R-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DS8L1R8L03-001M-01					Shielded
APMU-1DS8L2R8L03-001M-01				PUR	Unshielded
APMS-1DS8L2R8L03-001M-01					Shielded
APMU-1DS8M1R8M04-001M-00	M12 S-Female M Code to M12 R-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1DS8M1R8M04-001M-00				Shielded	
APMU-1DS8M2R8M04-001M-00			PUR	Unshielded	
APMS-1DS8M2R8M04-001M-00				Shielded	
APMU-1DR8S1R8S03-001M-00	M12 R-Female S Code to M12 R-Female S Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR8S1R8S03-001M-00					Shielded
APMU-1DR8S2R8S03-001M-00				PUR	Unshielded
APMS-1DR8S2R8S03-001M-00					Shielded
APMU-1DR8T1R8T04-001M-00	M12 R-Female T Code to M12 R-Female T Code 4Pos Cable 4C Black L=0.1M	3+PE		PVC	Unshielded
APMS-1DR8T1R8T04-001M-00					Shielded
APMU-1DR8T2R8T04-001M-00				PUR	Unshielded
APMS-1DR8T2R8T04-001M-00					Shielded
APMU-1DR8K1R8K05-001M-00	M12 R-Female K Code to M12 R-Female K Code 5Pos Cable 5C Black L=0.1M	4+PE		PVC	Unshielded
APMS-1DR8K1R8K05-001M-00					Shielded
APMU-1DR8K2R8K05-001M-00				PUR	Unshielded
APMS-1DR8K2R8K05-001M-00					Shielded
APMU-1DR8L1R8L03-001M-01	M12 R-Female L Code to M12 R-Female L Code 3Pos Cable 3C Black L=0.1M	2+PE		PVC	Unshielded
APMS-1DR8L1R8L03-001M-01					Shielded
APMU-1DR8L2R8L03-001M-01				PUR	Unshielded
APMS-1DR8L2R8L03-001M-01					Shielded
APMU-1DR8M1R8M04-001M-00	M12 R-Female M Code to M12 R-Female M Code 4Pos Cable 4C Black L=0.1M	3+PE	PVC	Unshielded	
APMS-1DR8M1R8M04-001M-00				Shielded	
APMU-1DR8M2R8M04-001M-00			PUR	Unshielded	
APMS-1DR8M2R8M04-001M-00				Shielded	

M12 Series S/T/K/L/M Coded Definition

M12 Power L-code connectors are an extension of the current M12 IEC standard and have been selected by PROFIBUS and PROFINET International as the standard for 24-volt power supply systems used in PROFINET devices. An extension of FPIC's M12 product portfolio, M12 L-code cable assemblies handle up to 16A per pin – the highest in FPIC's M12 family – delivering four times the power of standard M12 connectors while providing reliable and efficient power supply. M12 Power L-coded connectors take up to 40% less space and almost 80% more power than 7/8” connectors traditionally used for high-power connections. The M12 power cable assemblies are available in both male and female connectors and suitable for every purpose with its conductor size from 1.5 mm² up to 2.5 mm² allowing for a more compact build of a high-power solutions for automation devices. FPIC's new M12 Power L-code connectors are IP67 rated, protected from dust and resist temporary submersion in water at depths of up to 1 meter for 30 minutes. The L-coding version is designed for DC power supplies with 63 V DC / 16 A, where a high current and low voltage is required making ideal for Field bus Ethernet I/O boxes, Ethernet systems, Network Devices, Motors and Drives and Valve applications. The power cable assemblies are available through FPIC's China distribution network, which provides customers with short lead-times and fast responses for technical support.

Material

- Contact: Brass, Gold Flash Plating
 - Nut: Brass, Nickel Plating
 - O-Ring: Silicon Rubber
 - Housing: PA
 - Over-Molding: PVC or TPU
 - Over-Molding Color: Black or Gray
- Key Options: S or T or K or L or M Coded
- M12 Positions:
- S or T Coded: 2, 2+PE , 3+PE Poles
- K Coded: 2 ,2+PE , 3+PE,4+PE Poles
- L Coded: 2 ,2+PE ,3, 3+PE,4,4+PE Poles
- M Coded: 2, 2+PE,3+PE,4+PE,5+PE Poles
- M12 Single or Both Ended Cable Assembly
- Cable length Options:Custom

Cable Specification

Cable Jacket: PVC or PUR

Cable Assemblies:

Shielded or Unshielded Versions

Jacket Color: Black or Gray

Conductor:

≥12A: 16AWG/18AWG

8A: 18AWG/20AWG

Mechanical

Durability:100 Cycles

Degree of Protection: IP67

Temperature Range:

-PVC:

Fixed: -40°C to +80°C

Flexible: -20°C to +80°C

-PUR:

Fixed: -40°C to +80°C

Flexible: -20°C to +80°C

Electrical

Voltage Rating:

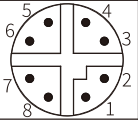
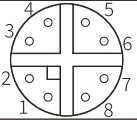
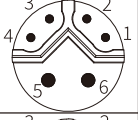
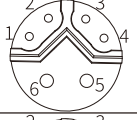
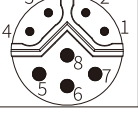
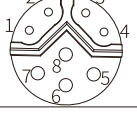
- S or K or M Code: 630V
- T Code: 60V
- L Code: 63V

Current Rating:

- S or T Code: 12A
- K or L Code: 16A
- M Code: 8A

Insulation Resistance: 100MΩ Min

M12 Series X/Y Coding Electrical Parameters

Interface Code Type	Pols	Male	Rated Current	Rated Voltage	Max. Conductor Size		Female
					AWG	mm²	
X	8		0.5A	60V	26-24 AWG	0.14~0.25	
Y	6		0.5/12A	30V	20AWG*2C+ 26AWG*4C	0.14~0.5	
	8		0.5/6A	30V	20AWG*4C+ 26AWG*4C	0.14~0.5	

M12 Series X or Y Coding Cable Color Definition

From Poles	Wire Core Color			To Poles
	8X (8Pins X-Code)			
1	WH/OR			1
2	OR			2
3	WH/GN			3
4	GN			4
5	WH/BU			5
6	BU			6
7	WH/BR			7
8	BR			8

From Poles	Wire Core Color			To Poles
	8Y (8Pins Y-Code)			
1	WH/OR			1
2	OR			2
3	WH/GN			3
4	GN			4
5	BU			5
6	WH			6
7	BR			7
8	BK			8

X-code connection technology is experiencing a significant increase in interest as more companies look for higher network speeds and more reliable, high-quality data transmissions. The 8-pin M12 X-code design is the most recent evolution in the Industrial environment which can handle 10 Gbit/s Ethernet transmission speeds. Category 6A (Cat6A) cables usually consist of standardized twisted pair cables for Ethernet and other network layers. These can handle data rates up to 10 Gbit/s. In order to withstand these high speeds and data output, Cat6A cables have significant shielding and cable twist requirements. The M12 X-code connector is specially developed for these requirements, whereby the channel pairs are separated and the degree of shielding in the connector itself has been increased. The new M12 X-coded cordsets, which are UL certified and have an IP67 rating for dust-tight and waterproof applications ensure efficient, high-quality and reliable connectivity and high integrity signal transmission. FPIC M12 overmolded X-code cordsets series contain male straight and right angle versions that transmit data rates up to 10 Gbit/s according to IEC 61076-2109. Our Cat6A cable jackets vary between PVC, PUR and TPE which offer a unique solution toward satisfying the stringent needs of motion systems supporting both flexing and stationary industrial high speed Ethernet requirements. FPIC's portfolio is further complemented with overmolded M12 X-code to RJ45 cable assemblies which are key components to an overall Industrial Ethernet application and designed for connection within control cabinets, machinery and outdoor applications. This further simplifies the concurrent use of both connector types (M12 & RJ45) within a single system.

M12 Series Single Ended Connector X/Y Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1SS7X1NNN08-001M-00	M12 S-Male X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1SS7X1NNN08-001M-00					Shielded
APMU-1SS7X2NNN08-001M-00				PUR	Unshielded
APMS-1SS7X2NNN08-001M-00					Shielded
APMU-1SS7Y1NNN06-001M-00	M12 S-Male Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1SS7Y1NNN06-001M-00					Shielded
APMU-1SS7Y2NNN06-001M-00				PUR	Unshielded
APMS-1SS7Y2NNN06-001M-00					Shielded
APMU-1SR7X1NNN08-001M-00	M12 R-Male X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1SR7X1NNN08-001M-00					Shielded
APMU-1SR7X2NNN08-001M-00				PUR	Unshielded
APMS-1SR7X2NNN08-001M-00					Shielded
APMU-1SR7Y1NNN06-001M-00	M12 R-Male Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1SR7Y1NNN06-001M-00					Shielded
APMU-1SR7Y2NNN06-001M-00				PUR	Unshielded
APMS-1SR7Y2NNN06-001M-00					Shielded
APMU-1SS8X1NNN08-001M-00	M12 S-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1SS8X1NNN08-001M-00					Shielded
APMU-1SS8X2NNN08-001M-00				PUR	Unshielded
APMS-1SS8X2NNN08-001M-00					Shielded
APMU-1SS8Y1NNN06-001M-00	M12 S-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1SS8Y1NNN06-001M-00					Shielded
APMU-1SS8Y2NNN06-001M-00				PUR	Unshielded
APMS-1SS8Y2NNN06-001M-00					Shielded
APMU-1SR8X1NNN08-001M-00	M12 R-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1SR8X1NNN08-001M-00					Shielded
APMU-1SR8X2NNN08-001M-00				PUR	Unshielded
APMS-1SR8X2NNN08-001M-00					Shielded
APMU-1SR8Y1NNN06-001M-00	M12 R-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1SR8Y1NNN06-001M-00					Shielded
APMU-1SR8Y2NNN06-001M-00				PUR	Unshielded
APMS-1SR8Y2NNN06-001M-00					Shielded

M12 Series Both Ended Connector X/Y Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS7X1S7X08-001M-00	M12 S-Male X Code to M12 S-Male X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DS7X1S7X08-001M-00					Shielded
APMU-1DS7X2S7X08-001M-00				PUR	Unshielded
APMS-1DS7X2S7X08-001M-00					Shielded
APMU-1DS7Y1S7Y06-001M-00	M12 S-Male Y Code to M12 S-Male Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DS7Y1S7Y06-001M-00					Shielded
APMU-1DS7Y2S7Y06-001M-00				PUR	Unshielded
APMS-1DS7Y2S7Y06-001M-00					Shielded
APMU-1DS7X1R7X08-001M-00	M12 S-Male X Code to M12 R-Male X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DS7X1R7X08-001M-00					Shielded
APMU-1DS7X2R7X08-001M-00				PUR	Unshielded
APMS-1DS7X2R7X08-001M-00					Shielded
APMU-1DS7Y1R7Y06-001M-00	M12 S-Male Y Code to M12 R-Male Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DS7Y1R7Y06-001M-00					Shielded
APMU-1DS7Y2R7Y06-001M-00				PUR	Unshielded
APMS-1DS7Y2R7Y06-001M-00					Shielded
APMU-1DS7X1S8X08-001M-00	M12 S-Male X Code to M12 S-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DS7X1S8X08-001M-00					Shielded
APMU-1DS7X2S8X08-001M-00				PUR	Unshielded
APMS-1DS7X2S8X08-001M-00					Shielded
APMU-1DS7Y1S8Y06-001M-00	M12 S-Male Y Code to M12 S-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DS7Y1S8Y06-001M-00					Shielded
APMU-1DS7Y2S8Y06-001M-00				PUR	Unshielded
APMS-1DS7Y2S8Y06-001M-00					Shielded
APMU-1DS7X1R8X08-001M-00	M12 S-Male X Code to M12 R-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DS7X1R8X08-001M-00					Shielded
APMU-1DS7X2R8X08-001M-00				PUR	Unshielded
APMS-1DS7X2R8X08-001M-00					Shielded
APMU-1DS7Y1R8Y06-001M-00	M12 S-Male Y Code to M12 R-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DS7Y1R8Y06-001M-00					Shielded
APMU-1DS7Y2R8Y06-001M-00				PUR	Unshielded
APMS-1DS7Y2R8Y06-001M-00					Shielded

M12 Series Both Ended Connector X/Y Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DR7X1R7X08-001M-00	M12 R-Male X Code to M12 R-Male X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DR7X1R7X08-001M-00					Shielded
APMU-1DR7X2R7X08-001M-00				PUR	Unshielded
APMS-1DR7X2R7X08-001M-00					Shielded
APMU-1DR7Y1R7Y06-001M-00	M12 R-Male Y Code to M12 R-Male Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DR7Y1R7Y06-001M-00					Shielded
APMU-1DR7Y2R7Y06-001M-00				PUR	Unshielded
APMS-1DR7Y2R7Y06-001M-00					Shielded
APMU-1DR7X1S8X08-001M-00	M12 R-Male X Code to M12 S-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DR7X1S8X08-001M-00					Shielded
APMU-1DR7X2S8X08-001M-00				PUR	Unshielded
APMS-1DR7X2S8X08-001M-00					Shielded
APMU-1DR7Y1S8Y06-001M-00	M12 R-Male Y Code to M12 S-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DR7Y1S8Y06-001M-00					Shielded
APMU-1DR7Y2S8Y06-001M-00				PUR	Unshielded
APMS-1DR7Y2S8Y06-001M-00					Shielded
APMU-1DR7X1R8X08-001M-00	M12 R-Male X Code to M12 R-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DR7X1R8X08-001M-00					Shielded
APMU-1DR7X2R8X08-001M-00				PUR	Unshielded
APMS-1DR7X2R8X08-001M-00					Shielded
APMU-1DR7Y1R8Y06-001M-00	M12 R-Male Y Code to M12 R-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DR7Y1R8Y06-001M-00					Shielded
APMU-1DR7Y2R8Y06-001M-00				PUR	Unshielded
APMS-1DR7Y2R8Y06-001M-00					Shielded
APMU-1DS8X1S8X08-001M-00	M12 S-Female X Code to M12 S-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DS8X1S8X08-001M-00					Shielded
APMU-1DS8X2S8X08-001M-00				PUR	Unshielded
APMS-1DS8X2S8X08-001M-00					Shielded
APMU-1DS8Y1S8Y06-001M-00	M12 S-Female Y Code to M12 S-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DS8Y1S8Y06-001M-00					Shielded
APMU-1DS8Y2S8Y06-001M-00				PUR	Unshielded
APMS-1DS8Y2S8Y06-001M-00					Shielded

M12 Series Both Ended Connector X/Y Coding Cable Assembly

Part Number	Part Description	Poles	Type	Cable Material	Shielded/ Unshielded
APMU-1DS8X1R8X08-001M-00	M12 S-Female X Code to M12 R-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DS8X1R8X08-001M-00					Shielded
APMU-1DS8X2R8X08-001M-00				PUR	Unshielded
APMS-1DS8X2R8X08-001M-00					Shielded
APMU-1DS8Y1R8Y06-001M-00	M12 S-Female Y Code to M12 R-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DS8Y1R8Y06-001M-00					Shielded
APMU-1DS8Y2R8Y06-001M-00				PUR	Unshielded
APMS-1DS8Y2R8Y06-001M-00					Shielded
APMU-1DR8X1R8X08-001M-00	M12 R-Female X Code to M12 R-Female X Code 8Pos Cable 8C Black L=0.1M	8		PVC	Unshielded
APMS-1DR8X1R8X08-001M-00					Shielded
APMU-1DR8X2R8X08-001M-00				PUR	Unshielded
APMS-1DR8X2R8X08-001M-00					Shielded
APMU-1DR8Y1R8Y06-001M-00	M12 R-Female Y Code to M12 R-Female Y Code 6Pos Cable 2C+4C Black L=0.1M	6		PVC	Unshielded
APMS-1DR8Y1R8Y06-001M-00					Shielded
APMU-1DR8Y2R8Y06-001M-00				PUR	Unshielded
APMS-1DR8Y2R8Y06-001M-00					Shielded

FEATURES

- Degree of Protection:IP67
- 360 Degrees Shielding
- PUR Cables suitable for Drag Chain Application (up to 3 Million Cycles)
- Tpe Cables Suitable for Drag Chain (up to 1 Million Cycles) and Torsion Applications (up to 3 Million Cycles)
- Oil-resistant for PUR or TPE Cable
- Oil-resistant for PUR or TPE or PVC Cable
- Flame Retardant:
- CM for TPE or PVC Cable
- FT2 for PUR Cable

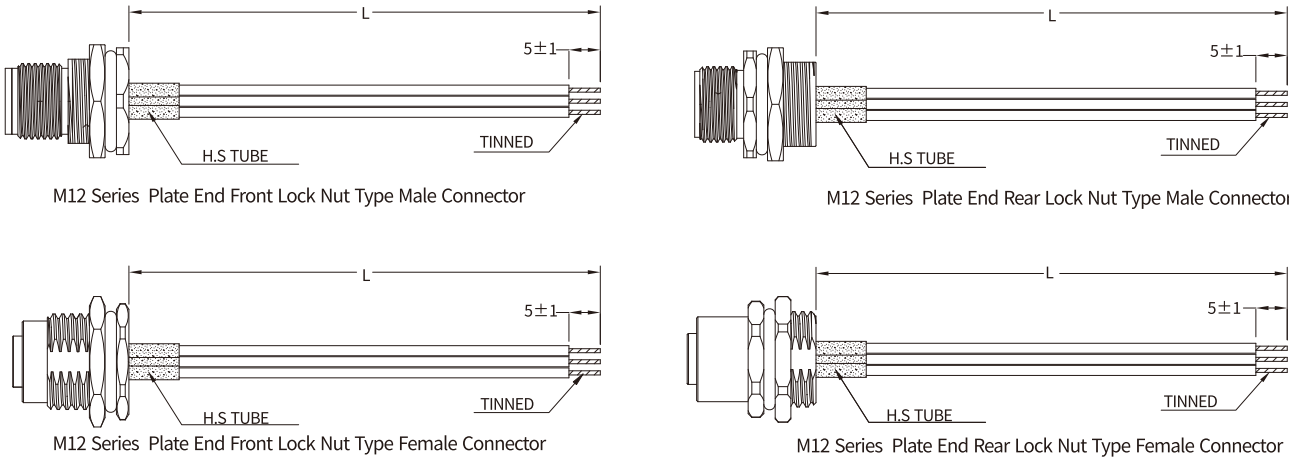
BENEFITS

- Unit Remains Protected or Fully Operational in Most Industrial Applications
- Secured Signal Connections And Data Transmission
- Ensure the Application of Cable Assembly in Flexible Installation Environment
- Ensure the Application of Cable Assembly in Torsion Application Environment
- Oil-resistant for in Oil Industrial Applications
- Application of UV-resistant Environment

ELECTRICAL

- Rated Voltage: 30V
- Rated Current: 0.5A
- Initial Value Contact Resistance:15MΩ Max
- Rated Impulse Voltage: 0.5KV

M12 Series Board Ended Connector Harness Assembly Definition



Material

- Contact: Brass, Gold Flash Plating
- Nut: Brass, Nickel Plating
- O-Ring: Silicon Rubber
- Housing: PA
- Key Options:A or B or C or D or S or T or K or L or M or X or Y Coded

M12 Positions:

- A Code: 2,3,4,5,6,8,12,17 Poles
- B Code: 4,5 Poles
- C Code: 2+PE,3+PE,4+PE,5+PE Poles
- D Code: 4 Poles
- S or T Code: 2, 2+PE,3+PE Poles
- K Code: 2, 2+PE,3+PE,4+PE Poles
- L Code: 2, 2+PE,3,3+PE,4,4+PE Poles
- M Code: 2, 2+PE,3+PE,4+PE,5+PE Poles
- X Code: 8 Poles
- Y Code: 6,8 Poles

Wire Length Options: Custom

Mechanical

- Durability:100 Cycles
- Waterploof: IP67
- Temperature Range:
- PVC Wire:
- Fixed: -40°C to +80°C
- PUR Wire:.
- Fixed: -40°C to +80°C
- PTFE Wire:
- Fixed: -100°C to +200°C

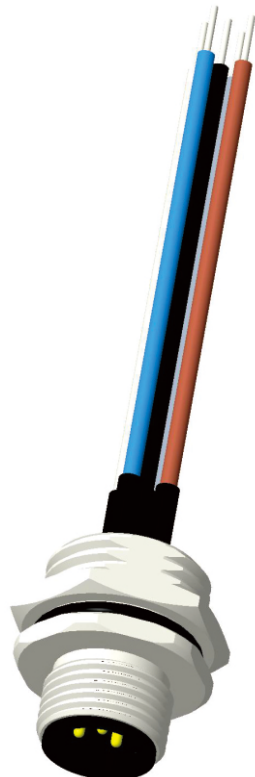
Wire or Cable Specification

- Cable Jacket: PVC or PUR
- Wire Jacket: PVC or PUR or PTFE
- Conductor:
- A Code: 2,3,4,5 Poles or B Code: 4,5 Poles or
- C Code: 2+PE,3+PE,
- 4+PE Poles or D Code: 4 Poles :22AWG/24AWG
- A Code: 6,8, Poles or C Code: 5+PE Poles: 24AWG/26AWG
- A Code: 12,17 Poles: 26AWG/28AWG
- S or T or L Code All Poles: 16AWG/18AWG
- M Code: All Poles: 18AWG/20AWG
- X Code: 8Poles 24-28AWG
- Y Code: 6Poles 20AWG*2C+ 26AWG*4C/
- 22AWG*2C+28AWG*4C
- Y Code: 8Poles 20AWG*4C+ 26AWG*4C/
- 22AWG*4C+28AWG*4C

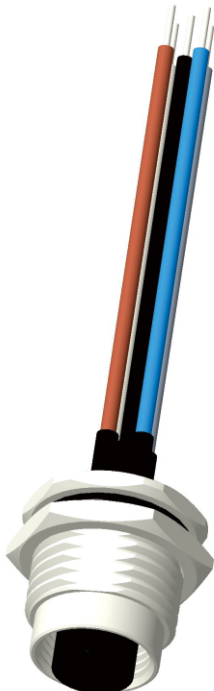
M12 Series Board Ended Connector Harness Assembly

Part Number	Part Description	Poles	Type	Wire Material
APMB-F7A0202AW1-001M-00	M12 Male A Code / Contact Plating Gold 3u" /Front Lock Nut / 2 Pos, Wire 2C L=0.1M	2		PVC
APMB-F7A0202AW2-001M-00				TPU
APMB-F7A0202AW3-001M-00				PTFE
APMB-F7B0204AW1-001M-00	M12 Male B Code / Contact Plating Gold 3u" /Front Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-F7B0204AW2-001M-00				TPU
APMB-F7B0204AW3-001M-00				PTFE
APMB-F7C0203AW1-001M-00	M12 Male C Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	3		PVC
APMB-F7C0203AW2-001M-00				TPU
APMB-F7C0203AW3-001M-00				PTFE
APMB-F7D0204AW1-001M-00	M12 Male D Code / Contact Plating Gold 3u" /Front Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-F7D0204AW2-001M-00				TPU
APMB-F7D0204AW3-001M-00				PTFE
APMB-F7S0203AW1-001M-00	M12 Male S Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F7S0203AW2-001M-00				TPU
APMB-F7S0203AW3-001M-00				PTFE
APMB-F7T0203AW1-001M-00	M12 Male T Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F7T0203AW2-001M-00				TPU
APMB-F7T0203AW3-001M-00				PTFE
APMB-F7K0203AW1-001M-00	M12 Male K Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F7K0203AW2-001M-00				TPU
APMB-F7K0203AW3-001M-00				PTFE
APMB-F7L0203AW1-001M-01	M12 Male L Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F7L0203AW2-001M-01				TPU
APMB-F7L0203AW3-001M-01				PTFE
APMB-F7M0203AW1-001M-01	M12 Male M Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F7M0203AW2-001M-01				TPU
APMB-F7M0203AW3-001M-01				PTFE
APMB-F7X0208AW1-001M-00	M12 Male X Code / Contact Plating Gold 3u" /Front Lock Nut / 8 Pos, Wire 8C L=0.1M	8		PVC
APMB-F7X0208AW2-001M-00				TPU
APMB-F7X0208AW3-001M-00				PTFE
APMB-F7Y0208AW1-001M-00	M12 Male Y Code / Contact Plating Gold 3u" /Front Lock Nut / 8 Pos, Wire 4C+4C L=0.1M	8		PVC
APMB-F7Y0208AW2-001M-00				TPU
APMB-F7Y0208AW3-001M-00				PTFE

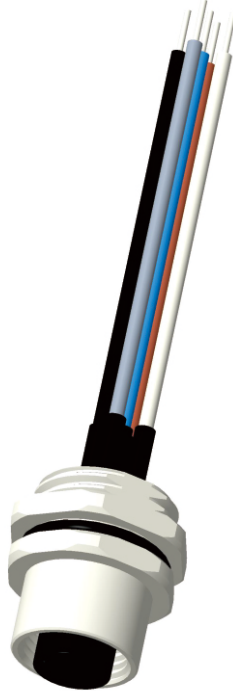
M12 Series Board Ended Connector Harness Assembly

Part Number	Part Description	Poles	Type	Wire Material
APMB-B7A0202AW1-001M-00	M12 Male A Code / Contact Plating Gold 3u" / Rear Lock Nut / 2 Pos, Wire 2C L=0.1M	2		PVC
APMB-B7A0202AW2-001M-00				TPU
APMB-B7A0202AW3-001M-00				PTFE
APMB-B7B0204AW1-001M-00	M12 Male B Code / Contact Plating Gold 3u" / Rear Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-B7B0204AW2-001M-00				TPU
APMB-B7B0204AW3-001M-00				PTFE
APMB-B7C0203AW1-001M-00	M12 Male C Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	3		PVC
APMB-B7C0203AW2-001M-00				TPU
APMB-B7C0203AW3-001M-00				PTFE
APMB-B7D0204AW1-001M-00	M12 Male D Code / Contact Plating Gold 3u" / Rear Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-B7D0204AW2-001M-00				TPU
APMB-B7D0204AW3-001M-00				PTFE
APMB-B7S0203AW1-001M-00	M12 Male S Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B7S0203AW2-001M-00				TPU
APMB-B7S0203AW3-001M-00				PTFE
APMB-B7T0203AW1-001M-00	M12 Male T Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B7T0203AW2-001M-00				TPU
APMB-B7T0203AW3-001M-00				PTFE
APMB-B7K0203AW1-001M-00	M12 Male K Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B7K0203AW2-001M-00				TPU
APMB-B7K0203AW3-001M-00				PTFE
APMB-B7L0203AW1-001M-01	M12 Male L Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B7L0203AW2-001M-01				TPU
APMB-B7L0203AW3-001M-01				PTFE
APMB-B7M0203AW1-001M-01	M12 Male M Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B7M0203AW2-001M-01				TPU
APMB-B7M0203AW3-001M-01				PTFE
APMB-B7X0208AW1-001M-00	M12 Male X Code / Contact Plating Gold 3u" / Rear Lock Nut / 8 Pos, Wire 8C L=0.1M	8		PVC
APMB-B7X0208AW2-001M-00				TPU
APMB-B7X0208AW3-001M-00				PTFE
APMB-B7Y0208AW1-001M-00	M12 Male Y Code / Contact Plating Gold 3u" / Rear Lock Nut / 8 Pos, Wire 4C+4C L=0.1M	8		PVC
APMB-B7Y0208AW2-001M-00				TPU
APMB-B7Y0208AW3-001M-00			PTFE	

M12 Series Board Ended Connector Harness Assembly

Part Number	Part Description	Poles	Type	Wire Material
APMB-F8A0202AW1-001M-00	M12 Female A Code / Contact Plating Gold 3u" /Front Lock Nut / 2 Pos, Wire 2C L=0.1M	2		PVC
APMB-F8A0202AW2-001M-00				TPU
APMB-F8A0202AW3-001M-00				PTFE
APMB-F8B0204AW1-001M-00	M12 Female B Code / Contact Plating Gold 3u" /Front Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-F8B0204AW2-001M-00				TPU
APMB-F8B0204AW3-001M-00				PTFE
APMB-F8C0203AW1-001M-00	M12 Female C Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	3		PVC
APMB-F8C0203AW2-001M-00				TPU
APMB-F8C0203AW3-001M-00				PTFE
APMB-F8D0204AW1-001M-00	M12 Female D Code / Contact Plating Gold 3u" /Front Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-F8D0204AW2-001M-00				TPU
APMB-F8D0204AW3-001M-00				PTFE
APMB-F8S0203AW1-001M-00	M12 Female S Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F8S0203AW2-001M-00				TPU
APMB-F8S0203AW3-001M-00				PTFE
APMB-F8T0203AW1-001M-00	M12 Female T Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F8T0203AW2-001M-00				TPU
APMB-F8T0203AW3-001M-00				PTFE
APMB-F8K0203AW1-001M-00	M12 Female K Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F8K0203AW2-001M-00				TPU
APMB-F8K0203AW3-001M-00				PTFE
APMB-F8L0203AW1-001M-01	M12 Female L Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F8L0203AW2-001M-01				TPU
APMB-F8L0203AW3-001M-01				PTFE
APMB-F8M0203AW1-001M-01	M12 Female M Code / Contact Plating Gold 3u" /Front Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-F8M0203AW2-001M-01				TPU
APMB-F8M0203AW3-001M-01				PTFE
APMB-F8X0208AW1-001M-00	M12 Female X Code / Contact Plating Gold 3u" /Front Lock Nut / 8 Pos, Wire 8C L=0.1M	8		PVC
APMB-F8X0208AW2-001M-00				TPU
APMB-F8X0208AW3-001M-00				PTFE
APMB-F8Y0208AW1-001M-00	M12 Female Y Code / Contact Plating Gold 3u" /Front Lock Nut / 8 Pos, Wire 4C+4C L=0.1M	8		PVC
APMB-F8Y0208AW2-001M-00				TPU
APMB-F8Y0208AW3-001M-00			PTFE	

M12 Series Board Ended Connector Harness Assembly

Part Number	Part Description	Poles	Type	Wire Material
APMB-B8A0202AW1-001M-00	M12 Female A Code/Contact Plating Gold 3u" /Rear Lock Nut / 2 Pos, Wire 2C L=0.1M	2		PVC
APMB-B8A0202AW2-001M-00				TPU
APMB-B8A0202AW3-001M-00				PTFE
APMB-B8B0204AW1-001M-00	M12 Female B Code / Contact Plating Gold 3u" /Rear Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-B8B0204AW2-001M-00				TPU
APMB-B8B0204AW3-001M-00				PTFE
APMB-B8C0203AW1-001M-00	M12 Female C Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	3		PVC
APMB-B8C0203AW2-001M-00				TPU
APMB-B8C0203AW3-001M-00				PTFE
APMB-B8D0204AW1-001M-00	M12 Female D Code / Contact Plating Gold 3u" / Rear Lock Nut / 4 Pos, Wire 4C L=0.1M	4		PVC
APMB-B8D0204AW2-001M-00				TPU
APMB-B8D0204AW3-001M-00				PTFE
APMB-B8S0203AW1-001M-00	M12 Female S Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B8S0203AW2-001M-00				TPU
APMB-B8S0203AW3-001M-00				PTFE
APMB-B8T0203AW1-001M-00	M12 Female T Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B8T0203AW2-001M-00				TPU
APMB-B8T0203AW3-001M-00				PTFE
APMB-B8K0203AW1-001M-00	M12 Female K Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B8K0203AW2-001M-00				TPU
APMB-B8K0203AW3-001M-00				PTFE
APMB-B8L0203AW1-001M-01	M12 Female L Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B8L0203AW2-001M-01				TPU
APMB-B8L0203AW3-001M-01				PTFE
APMB-B8M0203AW1-001M-01	M12 Female M Code / Contact Plating Gold 3u" / Rear Lock Nut / 3 Pos, Wire 3C L=0.1M	2+PE		PVC
APMB-B8M0203AW2-001M-01				TPU
APMB-B8M0203AW3-001M-01				PTFE
APMB-B8X0208AW1-001M-00	M12 Female X Code / Contact Plating Gold 3u" /Rear Lock Nut / 8 Pos, Wire 8C L=0.1M	8		PVC
APMB-B8X0208AW2-001M-00				TPU
APMB-B8X0208AW3-001M-00				PTFE
APMB-B8Y0208AW1-001M-00	M12 Female Y Code / Contact Plating Gold 3u" / Rear Lock Nut / 8 Pos, Wire 4C+4C L=0.1M	8		PVC
APMB-B8Y0208AW2-001M-00				TPU
APMB-B8Y0208AW3-001M-00			PTFE	

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