

# Connectors, Cables & IO Systems











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Amissiontech is located in Dongguan, a city in the south of China and covers an area of 2500 sqm including an office, R&D center, lab and assembly workshops. For more than 10 years, Amissiontech manufacturing industrial connectors, cable harnesses with UL/CE/ISO certifications offers high-quality and costeffective solutions under AMSONE® brand and has been a trusted partner for industrial connectivity.

Since then, Amissiontech and its sister companies, who focus on PCB manufacturing and Electronic Contract Manufacturing with MES (Manufacturing Execution System) for traceable quality control for mass production, joined forces forming a strategic alliance to consistently deliver high-performance solutions for an increasingly digital and data-driven world.

Combined with a professional management team for supply chain and resources integration, Amissiontech expands to play a role in the fields of industrial automation, infrastructure connectivity and cybersecurity by launching new products, network modules, within the category of I/O systems.

From now on, Amissiontech aims to transform itself from a connector & cable company to a signal transmission solutions provider with a complete product portfolio including connectors, cables, networking products and assemblies. To drive business growth & innovation, we will continuously engineer and manufacture essential technology solutions and make sure all our customers pay reasonable prices and get qualified products and services.

For more information: www.amissiontech.com





















# **IO Link Systems**





- Application-focused design capabilities
- 2 Manufacturer guaranteed quality products
- **Solutions Provider**
- ONE-stop services for industrial connectors and cable assemblies
- 5 Flexible customization solutions for IO systems







# **Connectors**

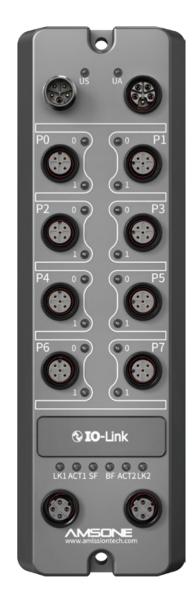
# **Connection type**

	Connection type										
Series	No.of contacts	Protection degree	Voltage	current	EMC	Solder	Dip Solder	SMT	Screw	Crimp	Pre-molded cable
	3,4	IP67	60V	4A	√	√	√	√			√
AM08	5	IP67	30V	3A	√	<b>√</b>	√	✓			√ .
	6,8	IP67	30V	2A	√	~	√	√			√
	2,3	IP67	125V	4A	✓	✓	✓				√
AM09	4 , 5 6 - 8	IP67	125V 125V	3A	√	<b>√</b>	√				<b>√</b>
		IP67		1A		√	√				√
	3 , 4	IP67	250V	4A	√ .	<b>√</b>	<b>√</b>	√	<b>√</b>		<b>√</b>
AM12 A	5 8	IP67 IP67	60V 30V	4A 2A	√ √	√ √	<b>√</b>	✓	✓		√ √
	12,17	IP67	30V	1.5A	<b>√</b>	<b>√</b>	<b>√</b>				<b>√</b>
	4	IP67	250V	4A	√	√	√	√		√	√
AM12 B	5	IP67	60V	4A	√	~	✓	✓			√
AM12 D	4	IP67	250V	4A	√	√	√	√		√	√
AM12 X	8	IP67	60V	0.5A	√	√	√				√
AM12 T	3,4	IP67	63V	12A	√	√	√				√
AM12 S	2+PE, 3+PE	IP67	630V	12A	√	√	√				√
AM12 L	2+PE,3+PE,4+PE,2,3	, 4 IP67	63V	16A	√	√	√				√
AM12 K	2+PE, 3+PE, 4+PE	IP67	630V	12A	✓	✓	~				√
AM12 M	2+PE,3+PE,4+PE,5+F	PE IP67	630V	8A	√	√	√				√
AM12 Y	4+4	IP67	30V	0.5A/6A	√	√	√				√
	3,4,5,6	IP67	250V	5A	√	√	√				√
	5,7,8	IP67	60V	5A	√	<b>√</b>	√				✓
AM16	7	IP67	125V	5A	√ .	<b>√</b>	√				√
	12,14,16,19 24	IP67 IP67	60V 60V	3A	√ √	√ √	√				√ √
				1A		√	√				
AM78	3 ,4 ,5 ,6	IP67	600V	12A	√	√	√				√
SC19	2 , 4	Underwater 450M	500V	16A		<b>√</b>				√,	√
SC16	4 , 8	Underwater 450M	60V	1.5A		√				√	√
IO HDMI	19	IP65	40V	0.5A	√	√					√
IO RJ45	8	IP65	30V	1A	√	√	✓				√
IO USB	4	IP65	30V	1A	√	√	√				√
IO TYPE C	24	IP65	5V	3A	√	✓	√				√
	6	IP67	250V	20A	√	~	√			√	√
	9(3+6)	IP67	300V	8A/20A	<b>√</b>	√	√			√	√
AM23	12,17	IP67	150V	8A	√	✓	✓			✓	✓
	19(3+16)	IP67	150V	8A/10A	√	√	✓			√	√
	2,3,4	IP67	500V	30A	√	√	√				
AM24	9(4+5)	IP67	500V	5A/20A	✓	✓	✓				
	12	IP67	400V	10A	√ .	<b>√</b>	✓				
	19	IP67	300V	5A	√	√	√				



	Category				Locking	g syster	n		(	Certifi	ed
Rear mount	Front mount	Flange mount	Field assembly	Screw	Bayonet	Snap-in	Push-Pull	UL /	CE /	RoHS ,	REACH
<b>√</b>	<b>√</b>		√ .						√	√	√
√ √	√ √		√ √	M8*1					√ √	√ √	√ √
√			√							√	√
✓			✓	M9*0.5						✓	√
√			✓							√	√
<b>√</b>	√		√		<b>√</b>	√ √	✓ ✓	<b>√</b>	<b>√</b>	√	√
√ √	√ √		√ √		√ √	<b>~</b> ✓	<b>√</b>	√ √	√ √	√ √	√ √
√	√		✓		~	√	√	<b>√</b>	<b>√</b>	<b>√</b>	✓
√	√		√					√	<b>√</b>	✓	✓
√	√		√					√	✓	√	✓
√	√		<b>√</b>					√	√ .	√	√ .
√ √	√ √		√ √						√ √	√ √	√ √
<b>√</b>	<b>√</b>								<b>∨</b>	<b>∨</b>	<b>∨</b>
<b>√</b>	<b>→</b>			M12*1				,			
								✓	√	✓	√
√	√								✓	√	✓
√	√								✓	✓	✓
√	√								✓	√	✓
✓	✓		✓					√	✓	✓	✓
√ √	√ √		√ √						√ √	√ √	√ √
√	<b>√</b>		<b>√</b>	M16*0.75				· √	· ✓	<ul><li>✓</li></ul>	√ -√
✓	✓		✓					√	<b>√</b>	✓	✓
√	√			7/8" -16UNF				√	<b>√</b>	√	√
	√					√				√	√
	√					~				✓	✓
		✓					√			√	✓
√	√									<b>√</b>	√
√	√			13/16" -28UNS	;					<b>√</b>	✓
√	√									<b>√</b>	√
√		√	√								
<b>∨</b>		<b>∨</b>	<b>∨</b> √							√ √	√ √
✓		✓	<b>√</b>	M23*1						<b>√</b>	<b>√</b>
√		√	√						_	√	√
√			√		√					√	√
√ √			√ √		√ √					√ •/	√ ~/
<b>∨</b>			<b>∨</b> ✓		✓ ✓					√ √	√ √
					1						

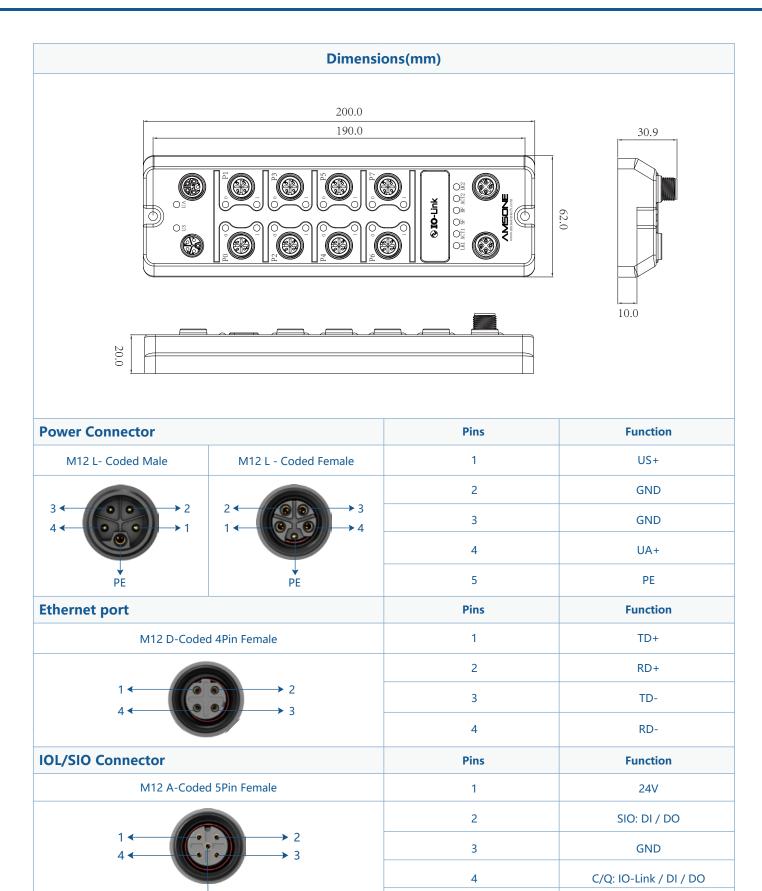
# **IO-Link Master (Single-Protocol)**



Basic Parameters					
Order Coded	ALM-PNA1-010XXX	ALM-ECA1-010XXX			
Ethernet Protocol	Profinet	EtherCAT			
Address Configuration	Ethernet co	onfiguration			
IOL Version	V1	.1			
IOL communication Rates	COM3 (230.4Kbps), COM2 (	38.4Kbps), COM1 (4.8Kbps)			
IOL Port Class	8* Cla	ass A			
IOL Channels	Max 8 channels	(configurable)			
SIO Channels	Max 16 channels DI	/ DO (configurable)			
Digital Output Type	PNP, 2A/	Channel			
Digital Input Type	PN	IP .			
Rated Voltage	24V DC (1	8–30.2V)			
Rated Current	9.	A			
Protection / Diagnosis	Short Circuit Protection				
Locking Mechanism	Threaded				
<b>Housing Material</b>	Me	tal			
Power Connector	IN: M12 L-Coded 5Pin Male OUT: M12 L-Coded 5Pin Female				
Fieldbus Connector	2 * M12 D-Cod	ed 4Pin Female			
IOL/SIO Connector	8 * M12 A-Code	ed 5Pin Female			
Dimensions(L×W×H)	200x62	x30mm			
Weight	≈0.0	6kg			
Er	viromental Paramete	rs			
Protection grade	IP67(Correct connec	tion), Acc.IEC 60529			
Operating temperature	-25 ~	+70°C			
Storage temperature	-40~-	⊦80°C			
IO Tightening torque	0.51	Nm			
Application environment	Acc. IEC	61131			
Vibration testing	IEC 60068-2-64 / IEC 60068-2-6				
Impact testing	IEC 60068-2-27				
Free fall test	IEC 60068-2-32				
EMC	Acc. IEC 610	00-4-2,-3,-4			
Fasteners	2 Mounting holes fi	xed with M4 screws			







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# **IO-Link Master (Multi-Protocol)**



Products ①

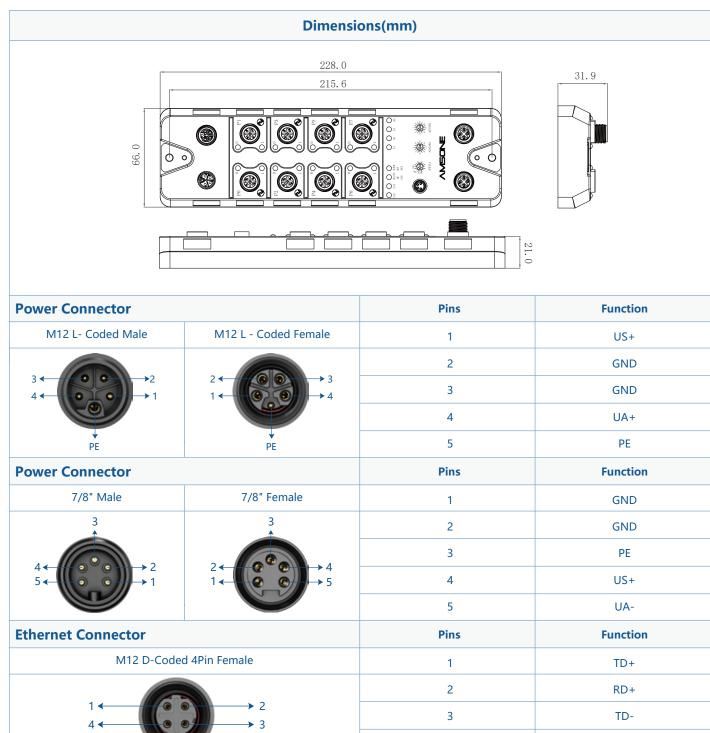


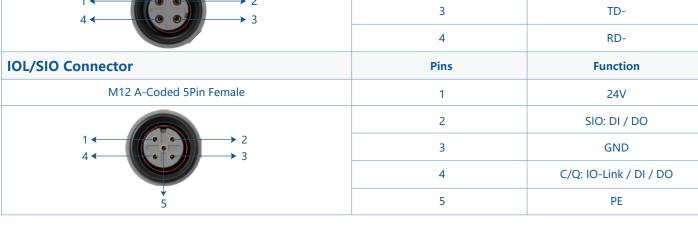
Products 2

Basic Parameters						
Order Coded	ALM-MPA1-030XXX ALM-MPA1-041XXX ALM-MPA1-051XXX					
Ethernet Protocol	P	rofinet / EtherCat / Etherr	net/IP			
Address Configuration		Rotary DIP Switch				
IOL Version		V1.1				
IOL communication Rates	COM3 (230.4	Kbps), COM2 (38.4Kbps),	COM1 (4.8Kbps)			
IOL Port Class		8* Class A				
IOL Channels	N	Max 8 channels (configura	ble)			
SIO Channels	Max 1	6 channels DI / DO (conf	igurable)			
Digital Output Type		PNP, 2A/Channel				
Digital Input Type		PNP				
Rated Voltage		24V DC (18-30.2V)				
Rated Current		10A				
Protection / Diagnosis	Temperature Alarm; Undervoltage Detection; Overvoltage / Short Circuit / Overcurrent Protection					
Locking Mechanism		Threaded				
Housing Material	Metal	Pla	astic			
Power Connector	IN:M12 L-Codedd OUT: M12 L-Codedd	((1))	IN:7/8″5Pin Male OUT:7/8″5Pin Female			
Fieldbus Connector	2	2 * M12 D-Coded 4Pin Fe	male			
IOL/SIO Connector	8	3 * M12 A-Coded 5Pin Fe	male			
Dimensions(L×W×H)		228×66×31.9mm				
Weight		≈0.5kg				
	Enviromental	Parameters				
Protection grade	IP67(0	Correct connection), Acc.II	EC 60529			
Operating temperature		-25 ~ +70°C				
Storage temperature		-40~+80°C				
IO Tightening torque		0.5Nm				
Application environment	Acc. IEC 61131					
Vibration testing	IE	C 60068-2-64 / IEC 60068	3-2-6			
Impact testing	IEC 60068-2-27					
Free fall test	IEC 60068-2-32					
EMC		Acc. IEC 61000-4-2,-3,-	4			
Fasteners	2 Mo	unting holes fixed with M	4 screws			







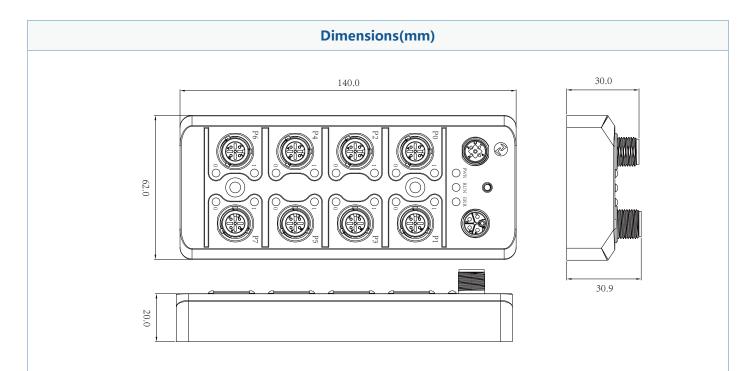


# **IO-Link Device (PNP Hub)**

		В	asic Parameter	S		
Order Coded	ALD-HBP1-310XXX	ALD-HBP2-330XXX	ALD-HBP1-351XXX	ALD-HBP2-364XXX	ALD-HBP1-372XXX	ALD-HBP2-382XX
Products Img.	©		O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O
Digital Input			PI	NP		
Digital Output	PNP, 0.5A/channel	PNP, 2A/channel	PNP, 0.5A/channel	PNP, 2A/channel	PNP, 0.5A/channel	PNP, 2A/channel
Rated Current	4A	12A	4A	12A	4A	12A
Locking Method	Metal	thread	Metal threa	ad / bayonet	Plastic	thread
Housing Material	Ме	etal		Pl	astic	
Rated Voltage			24V DC(1	8~30.2V)		
Communication Protocol			IO-Lin	ık V1.1		
Minimum cycle period			31	ms		
Communication Rate			COM2 (3	88.4Kbps)		
Process Data (PD)			2 Input Byte,	2 Output Byte		
Firmware Upgrade			Supp	orted		
Data Storage (DS)			Supp	orted		
IOL Connector			1*M12 A-Cod	led 5Pin Male		
SIO Signal Connector			8*M12 A-Code	ed 5Pin Female		
Auxiliary Power Connector		1*M12 L-Cod	ed 5Pin (Only provided	d for models with rate	d current >4A)	
Signal Type			Dig	gital		
Channels			16 Channels DI / I	DO (configurable)		
Protection / Diagnosis	Temperature Alarm; Undervoltage Detection; Overvoltage / Short Circuit / Overcurrent Protection					
Dimensions (L x W x H)	140x62x30mm					
Weight	<b>ight</b> ≈ 0.43kg					
Enviromental Parameters						
Protection grade	IP67(Corr	ect connection), Acc.IE	C 60529 Vibrati	on testing	IEC 60068-2-64 /	IEC 60068-2-6
Operating temperat	ture	-25 ~ +70°C	Impact	testing	IEC 60068	3-2-27
Storage temperatur	е	-40~+80°C	Free fa	II test	IEC 60068	3-2-32
IO Tightening torqu	ie	0.5Nm	ЕМС		Acc. IEC 61000	0-4-2,-3,-4
Application environ	ment	Acc. IEC 61131	Fasten	ers	2 Mounting holes fixe	ed with M4 screws







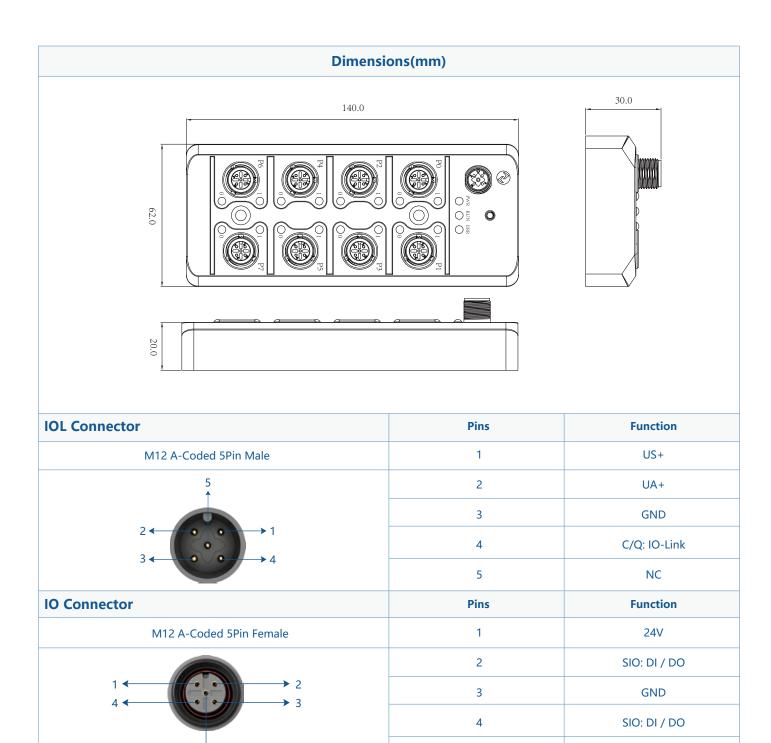


# **IO-Link Device (NPN Hub)**

	Basic	Parameters				
Order Coded	ALD-HBN1-310XXX	ALD-HBN1-354XXX	ALD-HBN1-372XXX			
Products Img.		O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O			
Digital Input		NPN				
Digital Output		NPN, 0.5A/channel				
Rated Current		4A				
Locking Method	Metal thread	Metal thread / bayonet	Plastic thread			
Housing Material	Metal		Plastic			
Rated Voltage		24V DC(18 - 30.2V)				
Communication Protocol		IO-Link V1.1				
Minimum cycle period		3ms				
Communication Rate	COM2(38.4Kbps)					
Process Data (PD)		2 Input Byte、2 Output Byte				
Firmware Upgrade		Supported				
Data Storage (DS)		Supported				
IOL Connector		1*M12 A-Coded 5Pin Male				
SIO Signal Connector		8*M12 A-Coded 5Pin Female				
Auxiliary Power Connector		null				
Signal Type		Digital				
Channels		16 channels DI / DO (configurabl	e)			
Protection / Diagnosis	Tem Overvo	perature Alarm; Undervoltage De ltage / Short Circuit / Overcurrent	tection; Protection			
Dimensions (L x W x H)		140x62x30mm				
Weight		≈ 0.43kg				
,	Envirome	ntal Parameters				
Protection grade	IP67(Correct connection), Acc.IEC 60529	Vibration testing	IEC 60068-2-64 / IEC 60068-2-6			
Operating temperature	-25 ~ +70°C	Impact testing	IEC 60068-2-27			
Storage temperature	-40~+80°C	Free fall test	IEC 60068-2-32			
IO Tightening torque	0.5Nm	ЕМС	Acc. IEC 61000-4-2,-3,-4			
Application environment	Acc. IEC 61131	Fasteners	2 Mounting holes fixed with M4 screws			







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# **Optional locking systems**







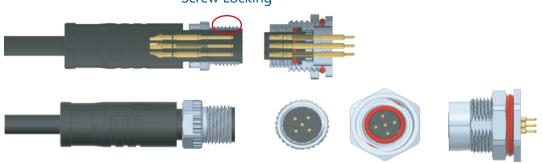




# 1. Screw Locking >>

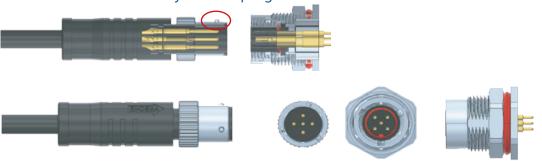
### M12 Connectors, Standard According to IEC 61076-2-101-2012





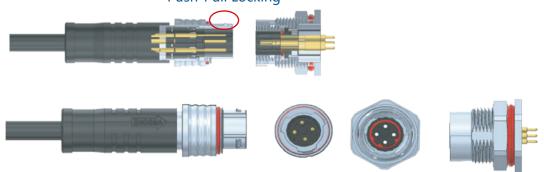
## 2. Bayonet Locking >> M12 Connectors, Standard According to IEC 61076-2-011-2021

**Bayonet Coupling** 



# 3. Push-Pull Locking >> M12 Connectors, Standard According to IEC 61076-2-012-2020

**Push-Pull Locking** 



# **IO Connectors, Cables & Accesseries**

Туре	Order Coded	Description	Images
Cable	AM12M0511A421-010	M12 Pre-Molded Cable,5Pins,A Code,Male/ Female,Straight,Cable Assembly,L=1000mm	
Cable	AM12M0511A141-010	M12 Pre-Molded Cable,5Pins,A Code,Male,Straight/Free end,Cable Assembly,L=1000mm	
Cable	AM12F0511A141-010	M12 Pre-Molded Cable,5Pins,A Code,Female,Straight/Free end,Cable Assembly,L=1000mm	
Cable	AM12M0511A142-010	M12 Pre-Molded Cable,5Pins,A Code,Male,Angled/Free end,Cable Assembly,L=1000mm	
Cable	AM12F0511A142-010	M12 Pre-Molded Cable,5Pins,A Code,Female,Angled/Free end,Cable Assembly,L=1000mm	
Cable	AM12M0411D235-010	M12 Pre-Molded Cable,5Pins,D Code,Male,Straight/Free end,Cable Assembly,L=1000mm	
Cable	AM12M0411D631-010	M12 Pre-Molded Cable,4Pins,D Code,Male,Straight/RJ45 Plug,ProfiNet Cable,L=1000mm	
Cable	AM12M0511L171-010	M12 Pre-Molded Cable,5Pins,L Code,Male,Straight/Free end,Cable Assembly,L=1000mm	And Aller I
Cable	AM12F0511L171-010	M12 Pre-Molded Cable,5Pins,L Code,Female,Straight/Free end,Cable Assembly,L=1000mm	
Connector	AM12M0514A005	M12 Cable Connector,5Pins,Male,A Code,Straight,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	
Connector	AM12F0514A006	M12 Cable Connector,5Pins,Female,A Code,Straight,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	





Туре	Order Coded	Description	Images
Connector	AM12M0514A010	M12 Cable Connector,5Pins,Male,A Code,Angled,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	
Connector	AM12F0514A010	M12 Cable Connector,5Pins,Female,A Code,Angled,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	
Connector	AM12M0514A004	M12 Cable Connector,5Pins,Male,A Code,Straight,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Connector	AM12F0514A005	M12 Cable Connector,5Pins,Female,A Code,Straight,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Connector	AM12M0514A011	M12 Cable Connector,5Pins,Male,A Code,Angled,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Connector	AM12F0514A018	M12 Cable Connector,5Pins,Female,A Code,Angled,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Adapter	AM12Y05MFF000-A01	M12 Y-Splitter 5Pins A Code Male / Female / Female Overmolded Adapter	A SA
Protective Cap	AM12MCAPM001	M12 Male Connector Protective Cap Metal With Chain	
Protective Cap	AM12FCAPM001	M12 Female Connector Protective Cap Metal With Chain	E hu
Protective Cap	AM12MCAPP001	M12 Male Connector Protective Cap Plastic	
Protective Cap	AM12FCAPP001	M12 Female Connector Protective Cap Plastic	



### **Connectors & Cables Main Products**



#### **@** AM08, AM09 & AM12

A, B, D, X, T, S, L, M, K coding
Data series up to 10 Gbps transmission speed
For signal, data and power transmission, Power series up to 16A
IP67 degree of protection



Contacts: 3–8, 12, 14, 16, 19, 24 IP67 degree of protection, shieldable 5G standard (AISG C485 compatible) UL listed under E517859



### **@** AM78

Contacts: 3(2+PE), 4(3+PE), 5(4+PE), 6(5+PE) IP67 degree of protection UL listed under E517859



### Underwater connectors & cables

Contacts: 2, 2+2, 2+6, 8 Underwater 450M Customized connectors & cables



### I/O Connectors

RJ45, USB TYPE-A, USB TYPE-C, HDMI IP65 degree of protection

- Customized connectors & cables
- 2 Application-focused design capabilities
- 3 In-house manufacturer guaranteed quality products
- 4 Flexible customization solutions
- 5 All-in-ONE services for industrial connectors and cable assemblies
- 6 ISO9001 & UL certified manufacturer



Product Description: M8 pre-molded cable connector, male, contacts: 3, 4, solder connection, straight, IP67





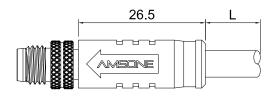






Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-104 Fix screw locking

Male **80MA** 0.2N.M Pre-molded cable

**Solder connection** variable 85444290 China

**Electrical** 

**Rated current** Rated voltage Rated Impulse voltage Insulation resistance **EMC** compliance Degree of protection

**Mechanical operation** Operating temperature **4A** 60V 500V

 $\geq$  100 M $\Omega$ **Optional IP67** 

> 100 mating cycles -25°C ~ 85°C

Cable

Cable type Conductor cross section Wire gauge Jacket **Temprature** Other resistance

**UL Style** 0.34mm<sup>22</sup> **22AWG PVC/TPU** -25°C ~ 85°C **UV** resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable

Wire colour variable Length

Material

Flammability rating **Contact material** Insulation material

Ring nut material Sealing material Molding material

Acc. to UL94V-0 **Brass with Gold plated** 

**Brass with Nickel plated** 

**Silicone PVC/TPU** 

Certificates

No **Number of contacts** Cable specification and length **EMC** compliance Ordering P/N 1 3 AM08M0311AXXX-XXX variable optional 2 4 AM08M0411AXXX-XXX



Product Description: M8 pre-molded cable connector, female, contacts: 3, 4, solder connection, straight, IP67



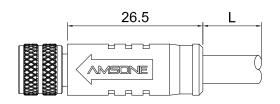






Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory Connection type Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-104 Fix screw locking **Female** 

**80MA** 0.2N.M

Pre-molded cable Solder connection variable

85444290 China

**UL Style** 

**22AWG** 

0.34mm<sup>22</sup>

**Electrical** 

**Rated current** Rated voltage Rated Impulse voltage Insulation resistance **EMC** compliance

**Mechanical operation** Operating temperature

Degree of protection

**4A** 60V 500V ≥ 100 MΩ

**Optional IP67** > 100 mating cycles

-25°C ~ 85°C

Cable

Wire colour

Length

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** Other resistance

**PVC/TPU** -25°C ~ 85°C **UV** resistant (720 h) UL 2556 Premium oil resistance

(jacket) variable variable Material

Flammability rating **Contact material** Insulation material Ring nut material Sealing material Molding material

Acc. to UL94V-0 **Brass with Gold plated** 

**Brass with Nickel plated** 

**Silicone PVC/TPU** 

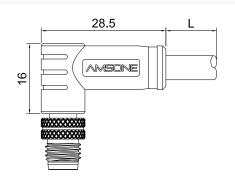
Certificates

No **Number of contacts** Cable specification and length **EMC** compliance Ordering P/N 1 3 AM08F0311AXXX-XXX variable optional 2 4 AM08F0411AXXX-XXX



**Product Description:** M8 pre-molded cable connector, male, contacts: 3, 4, solder connection, right angled, IP67









Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type

Connection type
Cable outlet
Custom tariff number
Country of origin

IEC61076-2-104
Fix screw locking
Male

AM08 A 0.2N.M Pre-mo

Pre-molded cable Solder connection variable

85444290 China **Electrical** 

Rated current4ARated voltage60VRated Impulse voltage500VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC complianceOptionalDegree of protectionIP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type
Conductor cross section
Wire gauge
Jacket
Temprature
Other resistance

UL Style
0.34mm<sup>2</sup>
22AWG
PVC/TPU
-25°C ~ 85°C
UV resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable

Wire colour variable Length variable Material

Flammability rating
Contact material

Insulation material

Ring nut material
Sealing material

Molding material

Acc. to UL94V-0

Brass with Gold plated

PA66

**Brass with Nickel plated** 

Silicone PVC/TPU

Certificates

No Number of contacts Cable specification and length EMC compliance Ordering P/N

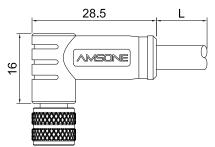
1 3 AM08M0311AXXX-XXX

variable optional AM08M0411AXXX-XXX



Product Description: M8 pre-molded cable connector, female, contacts: 3, 4, solder connection, right angled, IP67





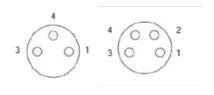


Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory Connection type Cable outlet

IEC61076-2-104 Fix screw locking **Female 80MA** 0.2N.M Pre-molded cable Solder connection

variable Custom tariff number 85444290 **Country of origin** China

**Electrical Rated current 4A** Rated voltage 60V Rated Impulse voltage 500V

 $\geq$  100 M $\Omega$ Insulation resistance **EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** Other resistance

**UL Style** 0.34mm<sup>2<sup>2</sup></sup> **22AWG PVC/TPU** -25°C ~ 85°C **UV** resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable Wire colour variable Length

Material

Flammability rating **Contact material** Insulation material

Ring nut material Sealing material

**Molding material** 

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone **PVC/TPU** 

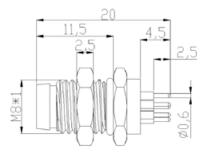
Certificates

No	Number of contacts	Cable specification and length	EMC compliance	Ordering P/N
1	3	variable	optional	AM08F0311AXXX-XXX
2	4	variable	optional	AM08F0411AXXX-XXX



Product Description: M8 panel receptacle, rear mount, male, contacts: 3, 4, PCB dip-solder connection, straight, IP67









Illustration

**Drawings** 

Pin assignment

# **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory

Connection type

Custom tariff number Country of origin

IEC61076-2-104 Fix screw locking

Male **80MA** 

1.0N.M Device connector, rear mount

PCB dip-solder connection 85444290 China

**Electrical** 

**Rated current** Rated voltage

Rated Impulse voltage

**EMC** compliance

Degree of protection

**Mechanical operation** Operating temperature

≥ 100 MΩ Insulation resistance Shieldable **IP67** 

> 100 mating cycles

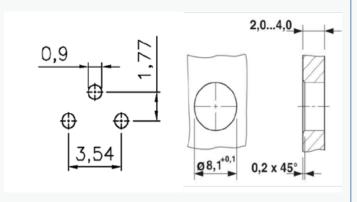
-25°C ~ 85°C

**4A** 

60V

500V

#### Panel cut-out



#### Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Sealing material

Shell material

Certificates

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

**Brass with Nickel plated** 

No **Number of contacts** 

1 3 2 4 Fastening thread

M8\*1.0

Ordering P/N

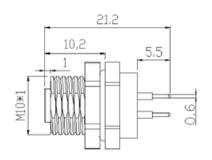
AM08M0322A001

AM08M0422A001



**Product Description:** M8 panel receptacle, rear mount, female, contacts:3, 4, PCB dip-solder connection, straight, IP67





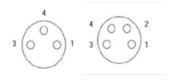


Illustration Drawings Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque

Coding A
Torque 1.0N.M
Catogory Device
rear mo
Connection type PCB dig
connec
Custom tariff number 854442

Country of origin

IEC61076-2-104 Fix screw locking Female AM08 A

1.0N.M
Device connector,
rear mount
PCB dip-solder
connection

85444290 China **Electrical** 

Rated current
Rated voltage

Rated Impulse voltage
Insulation resistance
EMC compliance

Degree of protection
Mechanical operation

Operating temperature

4A

60V 500V

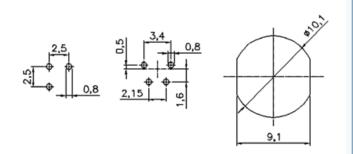
≥ 100 MΩ Shieldable

IP67

> 100 mating cycles

-25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

**Brass with Nickel plated** 

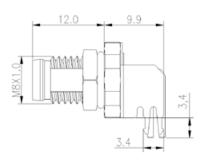
Certificates

No	Number of contacts	Fastening thread	Ordering P/N
1	3	MO+1 O	AM08F0322A001
2	4	M8*1.0	A M 0 8 F 0 4 2 2 A 0 0 1



**Product Description:** M8 panel receptacle, rear mount, male, contacts: 3, 4, PCB dip-solder connection, right angled, shielded, IP67









Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Catogory
Connection type

Custom tariff number Country of origin

IEC61076-2-104
Fix screw locking

Male AM08 A 1.0N.M

Device connector, rear mount PCB dip-solder connection

85444290 China **Electrical** 

Rated current Rated voltage

Rated Impulse voltage Insulation resistance

EMC compliance

Degree of protection Mechanical operation

Mechanical operation
Operating temperature

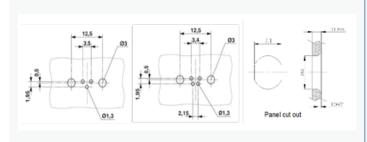
4A 60V 500V ≥ 100 MΩ

Shielded
IP67

> 100 mating cycles

-25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

PA66

**Brass with Nickel plated** 

Silicone

**Brass with Nickel plated** 

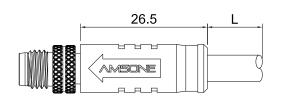
Certificates

No	Number of contacts	Fastening thread	Ordering P/N
1	3	440+1-0	A M O 8 M O 3 2 2 A O O 3
2	4	M8*1.0	AM08M0422A003



Product Description: M8 pre-molded cable connector, male, contacts: 5, solder connection, B code, straight, IP67





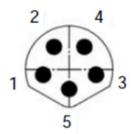


Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender Series Coding

**Torque** Catogory Connection type

Cable outlet Custom tariff number **Country of origin** 

IEC61076-2-104 Fix screw locking

Male **80MA** 0.2N.M Pre-molded cable

Solder connection variable 85444290 China

**UL Style** 

variable

**Electrical** 

**Rated current 3A** Rated voltage 30V Rated Impulse voltage 500V ≥ 100 MΩ Insulation resistance

**EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Length

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** 

0.25mm<sup>2</sup> **24AWG PVC/TPU** -25°C ~ 85°C **UV** resistant Other resistance (720 h) UL 2556 Premium oil resistance

(jacket) Wire colour variable

Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone Molding material **PVC/TPU** 

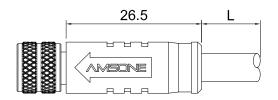
Certificates

No Number of contacts Cable specification and length **EMC** compliance Ordering P/N ī 5 variable optional AM08M0511BXXX-XXX



Product Description: M8 pre-molded cable connector, female, contacts: 5, solder connection, B code, straight, IP67





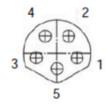


Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender

Series Coding **Torque** 

Catogory Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-104 Fix screw locking

Female **80MA** 0.2N.M

Pre-molded cable **Solder connection** 

variable 85444290 China

**UL Style** 

**24AWG** 

0.25mm<sup>2</sup>

**PVC/TPU** -25°C ~ 85°C

(jacket)

variable

variable

**UV** resistant (720 h) UL 2556

Premium oil resistance

**Electrical** 

**Rated current 3A** 30V Rated voltage Rated Impulse voltage 500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance Optional

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type **Conductor cross section** Wire gauge **Jacket** 

**Temprature** Other resistance

Wire colour Length

Material

Flammability rating

**Contact material** 

Insulation material Ring nut material

Sealing material

**Molding material** 

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone **PVC/TPU** 

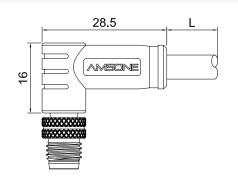
Certificates

Number of contacts Cable specification and length **EMC** compliance Ordering P/N No ī 5 variable optional AM08F0511BXXX-XXX



**Product Description:** M8 pre-molded cable connector, male, contacts: 5, solder connection, B code, right angled, IP67





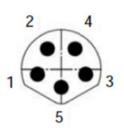


Illustration Drawings

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection tupe

Catogory
Connection type
Cable outlet
Custom tariff nun

Custom tariff number
Country of origin

IEC61076-2-104
Fix screw locking

Male AM08 B 0.2N.M Pre-molded cable

Solder connection variable 85444290 China

**UL Style** 

**24AWG** 

0.25mm<sup>2</sup>

PVC/TPU

(jacket)

variable variable

-25° C ~ 85° C

(720 h) UL 2556

Premium oil resistance

**UV** resistant

**Electrical** 

Rated current 3A

Rated voltage 30V

Rated Impulse voltage 500V

Insulation resistance  $\geqslant 100 \text{ M}\Omega$ EMC compliance Optional

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type
Conductor cross section
Wire gauge
Jacket
Temprature

Jacket Temprature Other resistance

Wire colour Length Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Molding material PVC/TPU

Certificates

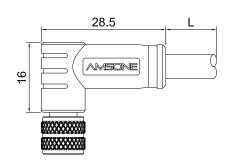
No Number of contacts Cable specification and length EMC compliance Ordering P/N

1 5 variable optional AM08M0511BXXX-XXX



Product Description: M8 pre-molded cable connector, female, contacts: 5, solder connection, B code, right angled, IP67





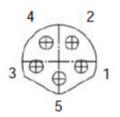


Illustration **Drawings**  Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory

Pre-molded cable Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-104 Fix screw locking

Female **80MA** 0.2N.M

**Solder connection** variable 85444290 China

**Electrical** 

**Rated current 3A** 30V Rated voltage Rated Impulse voltage 500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance Optional

Degree of protection **IP67 Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type **UL Style Conductor cross section** 0.25mm<sup>2</sup> Wire gauge **24AWG Jacket PVC/TPU** -25°C ~ 85°C **Temprature UV** resistant Other resistance

(720 h) UL 2556 Premium oil resistance

(jacket) variable

Wire colour Length variable Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material **Silicone Molding material PVC/TPU** 

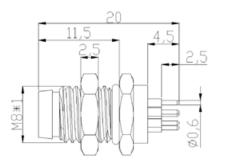
Certificates

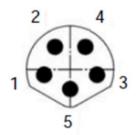
Number of contacts Cable specification and length **EMC** compliance Ordering P/N No ī 5 variable optional AM08F0511BXXX-XXX



**Product Description:** M8 panel receptacle,rear mount, male, contacts: 5, PCB dip-solder connection, B code, straight, IP67







Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type
Custom tariff number
Country of origin

IEC61076-2-104
Fix screw locking

Male AM08 B 1.0N.M

Device connector,

rear mount

PCB dip-solder connection

85444290 Ching **Electrical** 

Rated current
Rated voltage

Rated Impulse voltage

Insulation resistance EMC compliance

Degree of protection

Mechanical operation

> 100 mating cycles

**3A** 

30V

500V

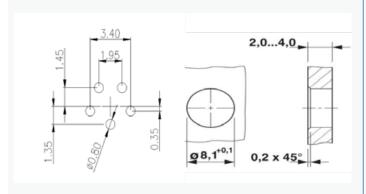
**IP67** 

≥ 100 MΩ

**Shieldable** 

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



#### Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Jann Hat Materia

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

**Brass with Nickel** 

plated

Certificates

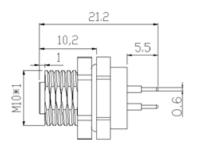
No Number of contacts Fastening thread Ordering P/N

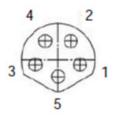
1 5 M8\*1.0 AM08M0522B001



Product Description: M8 panel receptacle, rear mount, female, contacts: 5, PCB dip-solder connection, B code, straight, IP67







Illustration

**Drawings** 

Pin assignment

**Brass with Gold plated** 

# **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** 

Catogory Connection type

Custom tariff number Country of origin

IEC61076-2-104 Fix screw locking **Female 80MA** 1.0N.M

Device connector, rear mount PCB dip-solder connection 85444290

China

**Electrical** 

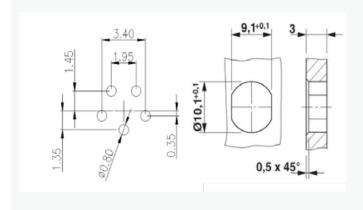
**Rated current 3A 30V** Rated voltage Rated Impulse voltage 500V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance Shieldable Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

**Contact material** 

Flammability rating Acc. to UL94V-0

Insulation material **PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

Shell material **Brass with Nickel plated** 

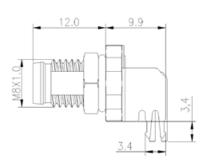
Certificates

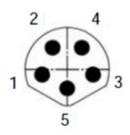
No **Number of contacts** Fastening thread Ordering P/N 1 5 M8\*1.0 AM08F0522B001



**Product Description:** M8 panel receptacle, rear mount, male, contacts: 5, PCB dip-solder connection, B code, right straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Custom tariff number Country of origin

IEC61076-2-104 Fix screw locking Male

Male AM08 B 1.0N.M

Device connector, rear mount

PCB dip-solder connection 85444290 China **Electrical** 

Rated current Rated voltage

Insulation resistance

**EMC** compliance

Rated Impulse voltage

Degree of protection

Mechanical operation
Operating temperature

3A

30V

500V ≥ 100 MΩ

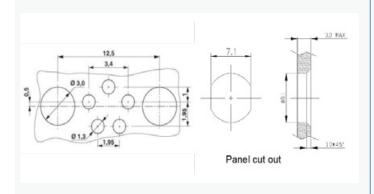
Shieldable

IP67

> 100 mating cycles

-25°C ~ 85°C

#### Panel cut-out



#### Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Jann Hat Materia

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

**Brass with Nickel plated** 

Certificates

No Number of contacts Fastening thread Ordering P/N

1 5B M8\*1.0 AM08M0522B003



**Product Description:** M8 pre-molded cable connector, male, contacts: 6, 8,

solder connection, straight, IP67



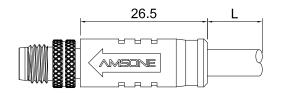






Illustration Drawings Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding

Coding
Torque
Catogory
Connection type
Cable outlet

Custom tariff number Country of origin IEC61076-2-104
Fix screw locking

Male AM08 A 0.2N.M

Pre-molded cable Solder connection

variable 85444290 China **Electrical** 

Rated current 2A

Rated voltage 30V

Rated Impulse voltage 500V

Insulation resistance  $\geqslant 100 \text{ M}\Omega$ EMC compliance Optional

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type UL Style Conductor cross section 0.25mm $^2$  Wire gauge 24AWG PVC/TPU Temprature -25° C  $\sim$  85° C UV resistant (720 h) UL 2556

Premium oil resistance

(jacket) variable

Wire colour variable Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Molding material PVC/TPU

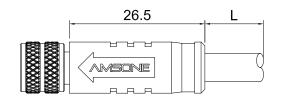
Certificates

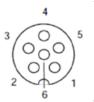
No	Number of contacts	Cable specification and length	EMC compliance	Ordering P/N
1	6	variable	optional	AM08M0611AXXX-XXX
2	8			AM08M0811AXXX-XXX



Product Description: M8 pre-molded cable connector, female, contacts: 6, 8, solder connection, straight, IP67







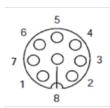


Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory **Connection type** Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-104 Fix screw locking **Female** 

**80MA** 0.2N.M Pre-molded cable

**Solder connection** variable 85444290 China

**Electrical** 

**Rated current** 2A 30V Rated voltage Rated Impulse voltage 500V ≥ 100 MΩ Insulation resistance

**EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Cable type **UL Style Conductor cross section** 0.25mm<sup>2</sup> **24AWG** Wire gauge PVC/TPU **Jacket Temprature** -25° C ~ 85° C **UV** resistant Other resistance

(720 h) UL 2556

Premium oil resistance

(jacket) variable

Wire colour variable Length

Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Ring nut material Brass with Nickel plated

Sealing material **Silicone Molding material PVC/TPU** 

Certificates

No	Number of contacts	Cable specification and length	EMC compliance	Ordering P/N
1	6	variable	optional	AM08F0611AXXX-XXX
2	8			AM08F0811AXXX-XXX



Product Description: M8 pre-molded cable connector, male, contacts: 6, 8, solder connection, right angled, IP67



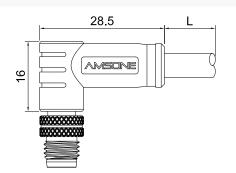






Illustration **Drawings**  Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-104 Fix screw locking

Male **80MA** 0.2N.M

Pre-molded cable **Solder connection** 

variable 85444290 China

Electrical

**Rated current 2**A Rated voltage **30V** Rated Impulse voltage 500V ≥ 100 MΩ Insulation resistance **EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type Conductor cross section Wire gauge Jacket **Temprature** Other resistance

**UL Style** 0.25mm<sup>2</sup> **24AWG PVC/TPU** -25°C ~ 85°C **UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket) variable

Wire colour variable Length

Material

Flammability rating

**Contact material Brass with Gold plated** 

Acc. to UL94V-0

**Insulation material PA66** 

Ring nut material **Brass with Nickel plated** 

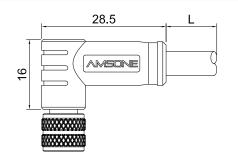
Sealing material Silicone **Molding material PVC/TPU** 

No	Number of contacts	Cable specification and length	EMC compliance	Ordering P/N
1	6	variable	optional	AM08M0611AXXX-XXX
2	8	variable		AM08M0811AXXX-XXX



Product Description: M8 pre-molded cable connector, female, contacts: 6, 8, solder connection, right angled, IP67





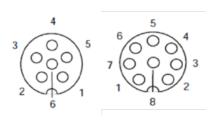


Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory **Connection type** Cable outlet

Custom tariff number

**Country of origin** 

IEC61076-2-104 Fix screw locking **Female 80MA** 0.2N.M Pre-molded cable

Solder connection variable 85444290 China

**Electrical Rated current** 2A 30V Rated voltage Rated Impulse voltage 500V Insulation resistance

≥ 100 MΩ **EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Wire colour

Length

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** Other resistance

**UL Style** 0.25mm<sup>2</sup> 24AWG **PVC/TPU** -25°C ~ 85°C **UV** resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable variable Material

Flammability rating

**Contact material** 

**Insulation material** Ring nut material

Sealing material

**Molding material** 

Acc. to UL94V-0

**Brass with Gold plated PA66** 

**Brass with Nickel plated** 

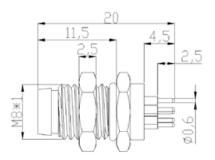
**Silicone PVC/TPU** 

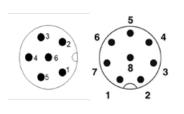
No	Number of contacts	Cable specification and length	EMC compliance	Ordering P/N
1	6	variable	optional	AM08F0611AXXX-XXX
2	8	variable		AM08F0811AXXX-XXX



Product Description: M8 panel receptacle, rear mount, male, contacts: 6, 8, PCB dip-solder connection, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Fix screw locking Male **80MA** 1.0N.M rear mount

Custom tariff number Country of origin

Device connector, PCB dip-solder connection 85444290 China

IEC61076-2-104

Electrical

**Rated current 2**A 30V Rated voltage Rated Impulse voltage 500V **Insulation resistance** ≥ 100 MΩ **EMC** compliance Shieldable Degree of protection **IP67** 

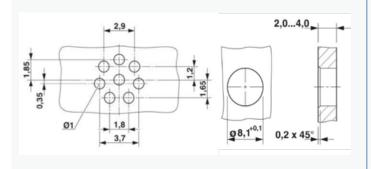
**Mechanical operation** 

> 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

Connection type



#### Material

Flammability rating Acc. to UL94V-0 **Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

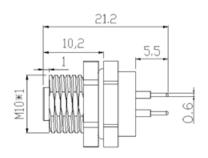
Shell material **Brass with Nickel plated** 

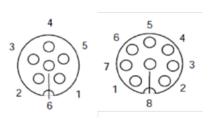
No	Number of contacts	Fastening thread	Ordering P/N
1	6	M8*1.0	A M O 8 M O 6 2 2 A O O 1
2	8	MO 1.0	A M O 8 M O 8 2 2 A O O 1



Product Description: M8 panel receptacle, rear mount, female, contacts: 6, 8, PCB dip-solder connection, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** 

Connection type

**Female 80MA** 1.0N.M Catogory rear mount

**Custom tariff number Country of origin** 

IEC61076-2-104 Fix screw locking

Device connector,

PCB dip-solder connection

85444290 China

**Electrical** 

**Rated current** Rated voltage

Rated Impulse voltage Insulation resistance **EMC** compliance

Degree of protection

**Mechanical operation** 

Operating temperature

2A

30V 500V

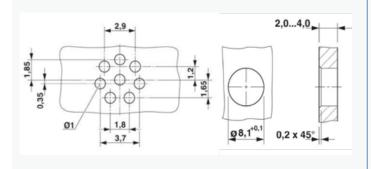
≥ 100 MΩ Shieldable

**IP67** 

> 100 mating cycles

-25°C ~ 85°C

#### Panel cut-out



#### Material

Flammability rating

Contact material

**Insulation material** 

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

Brass with Nickel plated

Silicone

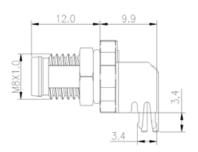
**Brass with Nickel plated** 

No	Number of contacts	Fastening thread	Ordering P/N
1	6	*****	A M O 8 F O 6 2 2 A O O 1
2	8	M8*1.0	A M O 8 F O 8 2 2 A O O 1



**Product Description:** M8 panel receptacle, rear mount, male, contacts: 6, 8, PCB dip-solder connection, right angled, shielded, IP67





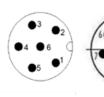


Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** IEC61076-2-104 Locking system Fix screw locking Gender Male **80MA Series** Coding **Torque** 1.0N.M

Device connector, Catogory rear mount Connection type PCB dip-solder

connection Custom tariff number 85444290 China Country of origin

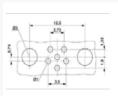
Electrical

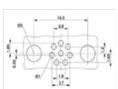
**Rated current 2**A 30V Rated voltage Rated Impulse voltage 500V **Insulation resistance** ≥ 100 MΩ **EMC** compliance **Shielded** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out







Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

**Brass with Nickel plated** Shell material

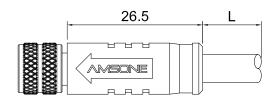
No	Number of contacts	Fastening thread	Ordering P/N
1	6	M8*1.0	A M O 8 M O 6 2 2 A O O 3
2	8	M6"1.0	A M O 8 M O 8 2 2 A O O 3





Product Description: M9 pre-molded cable connector, female, contacts: 2, 3, solder connection, straight, IP67





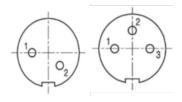


Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Fix screw locking

Gender Female **AM09 Series** Coding **Torque** 0.3N.M Pre-molded cable

Catogory Connection type

Cable outlet Custom tariff number Country of origin

Electrical

**Rated current 4A** 125V Rated voltage Rated Impulse voltage 1500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** 

> 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Cable type **UL Style** Conductor cross section 0.25mm<sup>2</sup> **24AWG** Wire gauge **PVC/TPU** Jacket -25°C ~ 85°C **Temprature** Other resistance

**UV** resistant (720 h) UL 2556

Premium oil resistance

**Solder connection** 

variable

China

85444290

(jacket) variable

Wire colour variable Length

Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone **Molding material PVC/TPU** 

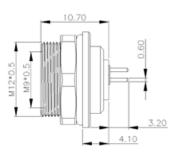
Certificates

**Number of contacts** Cable specification and length Ordering P/N No 2 AM09F0211A001 1 variable 2 3 AM09F0311A001



**Product Description:** M9 panel receptacle, rear mount, female, contacts: 2, 3, PCB dip-solder connection, straight, IP67





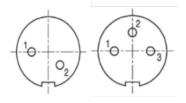


Illustration Drawings Pin assignment

### Technical data

General Standard Locking system

Locking system
Gender
Female
Series
AM09
Coding
A
Torque
Fix screw locking
Female
AM09
A
1.5N.M

Catogory Device connector,

rear mount
PCB dip-solder
connection
85444290
China

ElectricalRated current4ARated voltage125VRated Impulse voltage1500VInsulation resistance $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

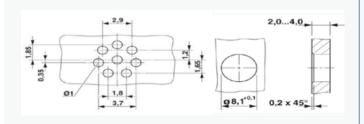
Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out

**Country of origin** 

Connection type

**Custom tariff number** 



#### Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Ordering P/N
1	2	M9*0.5	A M O 9 F O 2 2 2 A O O 1
2	3		A M 0 9 F 0 3 2 2 A 0 0 1



**Product Description:** M9 pre-molded cable connector, female, contacts: 4, 5, solder connection, straight, IP67



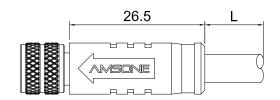






Illustration Drawings Pin assignment

### **Technical data**

General Standard Locking system

Locking system Fix screw locking
Gender Female
Series AM09

Coding A
Torque 0.3N.M

Catogory Pre-molded cable Connection type Solder connection

Cable outlet variable
Custom tariff number 85444290
Country of origin China

Electrical Rated current

Rated voltage125VRated Impulse voltage1500VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC complianceOptionalDegree of protectionIP67

Mechanical operation > 100 mating cycles

**3A** 

Operating temperature −25°C ~ 85°C

Cable

Cable typeUL StyleConductor cross section $0.25 \text{mm}^2$ Wire gauge24 AWGJacketPVC/TPUTemprature $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Other resistanceUV resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable

Wire colour variable Length variable Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

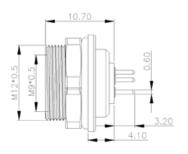
Molding material PVC/TPU

No	Number of contacts	Cable specification and length	Ordering P/N
1	4	inblo	AM09F0411A001
2	5	variable	AM09F0511A001



**Product Description:** M9 panel receptacle, rear mount, female, contacts: 4, 5, PCB dip-solder connection, straight, IP67





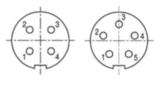


Illustration Drawings Pin assignment

## **Technical data**

General Standard Locking system

Gender Female
Series AM09
Coding A
Torque 1.5N.M

Catogory Device connector,

rear mount PCB dip-solder connection 85444290 China

Fix screw locking

Custom tariff number Country of origin Electrical

Rated current 3A

Rated voltage 125V

Rated Impulse voltage 1500V

Insulation resistance  $\geqslant$  100 M $\Omega$ 

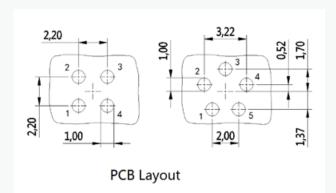
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature −25°C ~ 85°C

#### Panel cut-out

Connection type



Material

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

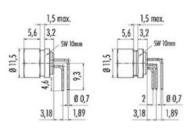
Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Ordering P/N
1	4	M9*0.5	A M O 9 F O 4 2 2 A O O 1
2	5		A M O 9 F O 5 2 2 A O O 1



**Product Description:** M9 panel receptacle, rear mount, female, contacts: 4, 5, PCB dip-solder connection, right angled, IP67





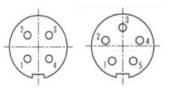


Illustration Drawings Pin assignment

### **Technical data**

General Standard Locking system Gender

Gender Female
Series AM09
Coding A
Torque 1.5N.M
Catogory Device of

Catogory Device connector,

rear mount PCB dip-solder connection 85444290 China

Fix screw locking

Degree of protection IP67

Mechanical operation > 100 mating cycles

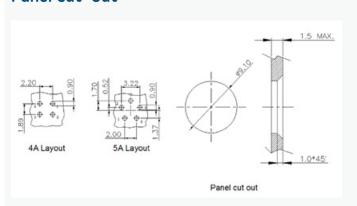
Operating temperature −25°C ~ 85°C

#### Panel cut-out

Country of origin

Connection type

Custom tariff number



#### Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

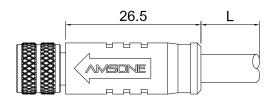
Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Ordering P/N
1	4	M9*0.5	A M 0 9 F 0 4 2 2 A 2 0 1
2	5		A M 0 9 F 0 5 2 2 A 2 0 1



**Product Description:** M9 pre-molded cable connector, female, contacts: 6, 7, 8, solder connection, straight, IP67





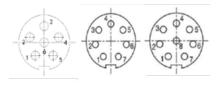


Illustration Drawings Pin assignment

### **Technical data**

General
Standard /
Locking system Fix screw locking
Gender Female

Gender Female
Series AM09
Coding A
Torque 0.3N.M

Catogory Pre-molded cable Connection type Solder connection

Cable outlet variable
Custom tariff number 85444290
Country of origin China

**Electrical** 

Rated current1ARated voltage125VRated Impulse voltage1000VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC complianceOptionalDegree of protectionIP67

Mechanical operation > 100 mating cycles

Operating temperature −25°C ~ 85°C

Cable

Cable type UL Style Conductor cross section  $0.14 \text{mm}^{2^2}$  Wire gauge 26 AWG Jacket PVC/TPU Temprature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$  Other resistance UV resistant

(720 h) UL 2556

Duantima ail mariat

Premium oil resistance

(jacket)

Wire colour variable Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

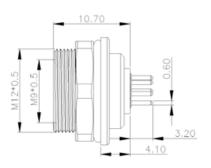
Molding material PVC/TPU

No	Number of contacts	Cable specification and length	Ordering P/N
1	6		AM09F0611A001
2	7	variable	AM09F0711A001
3	8		AM09F0811A001



**Product Description:** M9 panel receptacle, rear mount, female,contacts: 6, 7, 8, PCB dip-solder connection, straight, IP67





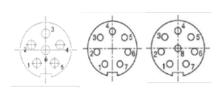


Illustration Drawings Pin assignment

## **Technical data**

General
Standard /
Locking system Fix screw locking
Gender Female

Gender Female
Series AM09
Coding A
Torque 1.5N.M

Catogory Device connector,

rear mount PCB dip-solder connection 85444290 China

Connection type PCB conr
Custom tariff number 8544

Country of origin

**Electrical** 

Rated current 1A Rated voltage 125V Rated Impulse voltage 1000V Insulation resistance  $\geqslant$  100 M $\Omega$ 

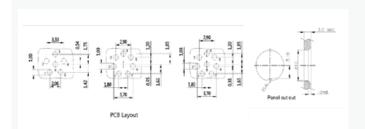
EMC compliance /

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Ordering P/N
1	6		AM09F0622A001
2	7	M9*0.5	AM09F0722A001
3	8		AM09F0822A001
3	8		A M O 9 F O 8 2 2 A





Product Description: M12 pre-molded cable connector, male, contacts: 3,4,

solder connection, A code, straight, IP67



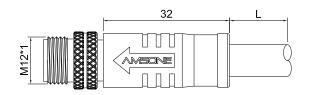






Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory

Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking

Male AM12 0.4N.M

Pre-molded cable **Solder connection** variable

85444290 China

Electrical

**Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance Optional Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type Conductor cross section Wire gauge Jacket **Temprature** Other resistance

0.34mm<sup>22</sup> **22AWG PVC/TPU** -25°C ~ 85°C **UV** resistant (720 h) UL 2556 Premium oil resistance

**UL Style** 

(jacket)

Wire colour variable variable Length

Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material **Silicone Molding material PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N 1 3 AM12M0311AXXX-XXX variable optional AM12M0411AXXX-XXX



Product Description: M12 pre-molded cable connector, female, contacts: 3,4, solder connection, A code, straight, IP67



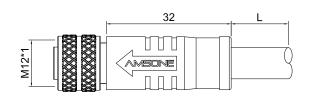






Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory Connection type Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking **Female** 

**AM12** 0.4N.M Pre-molded cable

Solder connection variable

85444290 China

**UL Style** 

Electrical

**Rated current** Rated voltage Rated Impulse voltage Insulation resistance **EMC** compliance

Degree of protection **Mechanical operation** Operating temperature **4A** 250V 2500V ≥ 100 MΩ **Optional IP67** 

> 100 mating cycles -25°C ~ 85°C

Cable

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** Other resistance

0.34mm<sup>2</sup> 22AWG **PVC/TPU** -25°C ~ 85°C **UV** resistant (720 h) UL 2556 Premium oil resistance

(jacket) Wire colour variable variable Length

Material

Flammability rating

**Contact material** Insulation material

Ring nut material

Sealing material **Molding material**  Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone **PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N 1 3

2 4 variable

optional

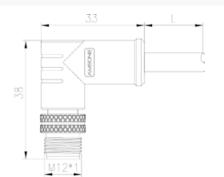
AM12F0311AXXX-XXX

AM12F0411AXXX-XXX



Product Description: M12 pre-molded cable connector, male, contacts: 3,4, solder connection, A code, right angled, IP67









Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory Connection type

Cable outlet Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking Male AM12

0.4N.M Pre-molded cable

Solder connection variable 85444290 China

Electrical

**Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance Optional

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Wire colour

Length

Cable type **UL Style** 0.34mm<sup>2</sup> **Conductor cross section** Wire gauge **22AWG Jacket PVC/TPU Temprature** -25°C ~85°C Other resistance **UV** resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable variable

Certificates

Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material **Silicone Molding material PVC/TPU** 

No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N

1 AM12M0311AXXX-XXX variable optional AM12M0411AXXX-XXX



**Product Description:** M12 pre-molded cable connector, female, contacts: 3,4, solder connection, A code, right angled, IP67



Illustration







3 PIN

Drawings Pin assignment

	Techni	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-101 Fix screw locking Female AM12 A 0.4N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	4A 250V 2500V ≥ 100 MΩ Optional IP67 > 100 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour Length	UL Style 0.34mm² 22AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material Certificates	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contact  1 3 2 4	cs Cable specification and	d ending EMC compliance	Ordering P/N AM12F0311AXXX-XXX AM12F0411AXXX-XXX



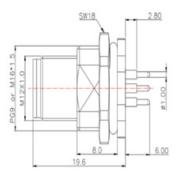
Product Description: M12 panel receptacle, rear mount, male, contacts: 3,4, PCB dip-solder connection, A code, straight, IP67

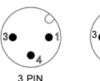
IEC61076-2-101

Male

Fix screw locking









Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

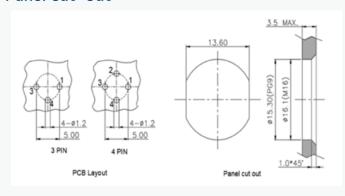
**AM12** 2.0N.M Device connector, rear mount Connection type PCB dip-solder connection Custom tariff number 85444290 Country of origin China

Electrical **Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating **Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

**Brass with Nickel plated** Shell material

No Number of contacts Faste		Fastening thread	Ordering P/N
1	3	B.C.O.	A M 1 2 M 0 3 2 2 A 0 0 1
2	4	PG9	A M 1 2 M O 4 2 2 A O O 1
3	3	M16*1.5	A M 1 2 M 0 3 2 2 A 0 0 2
4	4		A M 1 2 M O 4 2 2 A O O 2



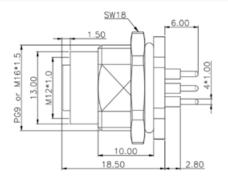
Product Description: M12 panel receptacle, rear mount, female, contacts: 3,4, PCB dip-solder connection, A code, straight, IP67

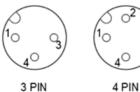
IEC61076-2-101

China

Fix screw locking









Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

**Female AM12** Α 2.0N.M Device connector, rear mount Connection type PCB dip-solder connection Custom tariff number 85444290

Electrical **Rated current** Rated voltage **Rated Impulse voltage** Insulation resistance

**EMC** compliance Degree of protection **Mechanical operation** 

Operating temperature

**4A** 250V 2500V  $\geq$  100 M $\Omega$ 

1

**IP67** 

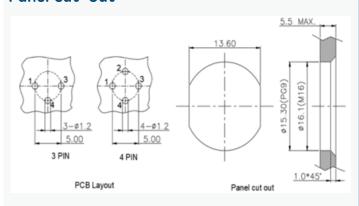
> 100 mating cycles

-25°C ~ 85°C

Acc. to UL94V-0

#### Panel cut-out

**Country of origin** 



#### Material

Flammability rating **Contact material** Insulation material Jam nut material Sealing material Shell material

**PA66** Brass with Nickel plated

**Brass with Gold plated** 

Silicone

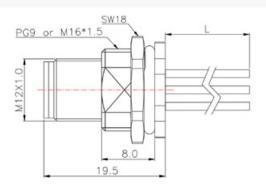
**Brass with Nickel plated** 

No Num	nber of contacts	Fastening thread	Ordering P/N
1	3	B.C.0	A M 1 2 F 0 3 2 2 A 0 0 1
2	4	P G 9	A M 1 2 F 0 4 2 2 A 0 0 1
3	3	M16*1.5	A M 1 2 F 0 3 2 2 A 0 0 2
4	4		AM12F0422A003



Product Description: M12 panel receptacle, rear mount, male, contacts: 3,4, solder connection for wires, A code, straight, IP67









Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Connection type

**AM12** Device connector,

**Applicable** wire

Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking

Male 2.0N.M

> rear mount Solder connection for

wires

0.34mm<sup>22</sup> / 22AWG

85444290 China

Electrical

**Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance

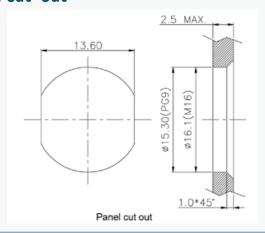
Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

1

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

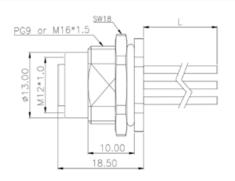
**Brass with Nickel plated** 

No Number of contacts		Fastening thread	Wire insulation	Ordering P/N
1	3	DC0		AM12M0322AXXX-XXX
2	4	PG9	optional	AM12M0422AXXX-XXX
3	3	441741 5	optional	AM12M0322AXXX-XXX
4	4	M16*1.5		AM12M0422AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, female, contacts:3,4, solder connection for wires, A code, straight, IP67









4 PIN

Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Torque 2./
Catogory De re
Connection type So

Applicable wire Custom tariff number Country of origin IEC61076-2-101 Fix screw locking Female

AM12 A 2.0N.M

Device connector, rear mount Solder connection for

wires 0.34mm<sup>2</sup> / 22AWG

85444290 China Electrical

Rated current 4/2
Rated voltage 25
Rated Impulse voltage 25
Insulation resistance ≥

EMC compliance

Degree of protection

Mechanical operation

Operating temperature

4A 250V 2500V

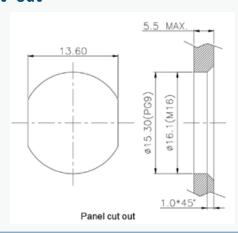
> ≥ 100 MΩ /

IP67

> 100 mating cycles

-25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

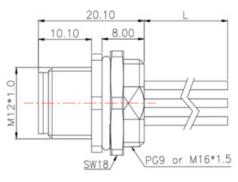
Shell material Brass with Nickel plated

No Number of contacts		Fastening thread	Wire insulation	Ordering P/N
1	3	PG9		AM12F0322AXXX-XXX
2	4	PG9	optional	AM12F0422AXXX-XXX
3	3	AA1/+1 F	optional	AM12F0322AXXX-XXX
4	4	M16*1.5		AM12F0422AXXX-XXX



Product Description: M12 panel receptacle, front mount, male, contacts: 3,4, solder connection for wires, A code, straight, IP67









Illustration

**Drawings** 

Pin assignment

# Technical data

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type

**AM12** 2.0N.M Device connector, front mount Solder connection for wires 0.34mm<sup>2</sup> / 22AWG

**Applicable** wire Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking

Male

85444290 China

Electrical

**Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ 

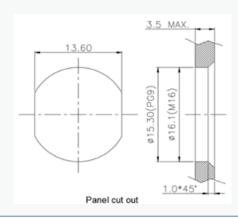
**EMC** compliance 1

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating

**Brass with Gold plated Contact material** 

Acc. to UL94V-0

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

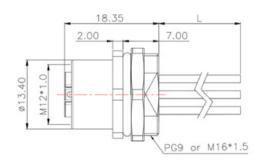
Shell material **Brass with Nickel plated** 

No Number of contacts		Fastening thread	Wire insulation	Ordering P/N
1	3	DC0		AM12M0322AXXX-XXX
2	4	PG9	optional	AM12M0422AXXX-XXX
3	3	443743 5	optional	AM12M0322AXXX-XXX
4	4	M16*1.5		AM12M0422AXXX-XXX



Product Description: M12 panel receptacle, front mount, female, contacts: 3,4, solder connection for wires, A code, straight, IP67









Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Connection type

**Applicable** wire

Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking **Female** 

**AM12** Α 2.0N.M

Device connector, front mount Solder connection for

wires

China

 $0.34 \text{mm}^{\frac{2}{2}} / 22 \text{AWG}$ 85444290

Electrical

**Rated current** Rated voltage Rated Impulse voltage

Insulation resistance

**EMC** compliance

Degree of protection **Mechanical operation** 

Operating temperature

**4A** 

250V 2500V

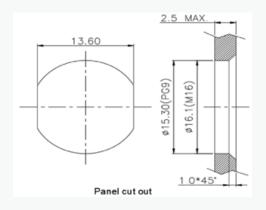
 $\geq$  100 M $\Omega$ 

/ **IP67** 

> 100 mating cycles

-25°C ~ 85°C

#### Panel cut-out



#### Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

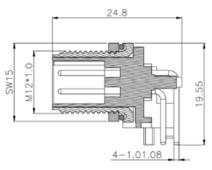
**Brass with Nickel plated** 

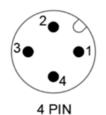
No Number of contacts		er of contacts	Fastening thread	Wire insulation	Ordering P/N
	1	3	DC0		AM12F0322AXXX-XXX
	2	4	PG9	optional	AM12F0422AXXX-XXX
	3	3		optional	AM12F0322AXXX-XXX
	4	4	M16*1.5		AM12F0422AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts: 4, PCB dip-solder connection, A code, right angled, IP67







**Drawings** 

Pin assignment

### **Technical data**

General
Standard IEC61076-2-101
Locking system Fix screw locking
Gender Male
Series AM12
Coding A
Torque 2.0N.M
Catogory Device connector

Catogory

Connection type

Custom tariff number

Country of origin

Device connector,
rear mount

PCB dip-solder
connection
85444290
China

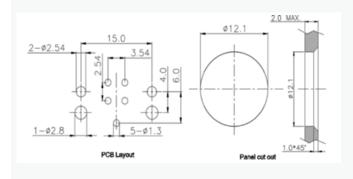
ElectricalRated current4ARated voltage250VRated Impulse voltage2500VInsulation resistance $\geqslant 100 \text{ M}\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

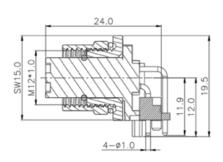
Certificates

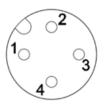
No Number of contacts Fastening thread Ordering P/N
1 4 M12\*1.0 AM12M0422A003



Product Description: M12 panel receptacle, rear mount, female, contacts: 4, PCB dip-solder connection, A code, right angled, IP67







4 PIN

Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

**Female** AM12 Α 2.0N.M **Connection type** 

Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking

Device connector, rear mount PCB dip-solder connection 85444290 China

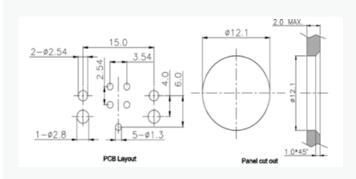
Electrical **Rated current 4A** Rated voltage 250V Rated Impulse voltage 2500V  $\geq$  100 M $\Omega$ 

**EMC** compliance / Degree of protection **IP67** 

Insulation resistance

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

#### Panel cut-out



#### Material

Flammability rating Acc. to UL94V-0 **Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

No Number of contacts

1 4 Fastening thread M12\*1.0

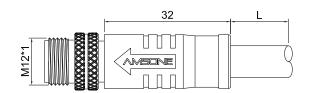
Ordering P/N AM12F0422A005



Product Description: M12 pre-molded cable connector, male, contacts: 5,

solder connection, A code, straight, IP67





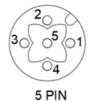


Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory

Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking Male

AM12 0.4N.M Pre-molded cable

**Solder connection** variable 85444290 China

Electrical

**Rated current 4A** 60V Rated voltage Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance **EMC** compliance Optional Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Cable type **Conductor cross section** Wire gauge **Jacket Temprature** Other resistance

Wire colour Length

**UL Style** 

0.34mm<sup>2</sup> **22AWG PVC/TPU** -25°C ~ 85°C **UV** resistant

(720 h) UL 2556

(jacket)

variable variable Material

Flammability rating

**Contact material** Insulation material

Ring nut material Sealing material

Premium oil resistance **Molding material** 

Certificates

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

**PVC/TPU** 

No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N

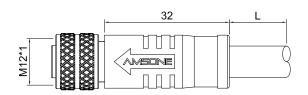
1 5 variable AM12M0511AXXX-XXX optional



Product Description: M12 pre-molded cable connector, female, contacts: 5,

solder connection, A code, straight, IP67







5 PIN

Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type

Cable outlet Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking Female

AM12 Α 0.4N.M

Pre-molded cable Solder connection

variable 85444290 China

Electrical

**Rated current 4A** 60V Rated voltage Rated Impulse voltage 1500V Insulation resistance ≥ 100 MΩ **EMC** compliance **Optional** 

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** Other resistance

**UL Style** 0.34mm<sup>2</sup> 22AWG **PVC/TPU** -25°C ~ 85°C **UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket) variable variable Material

Flammability rating

**Contact material Brass with Gold plated** 

Acc. to UL94V-0

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone Molding material **PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending

**EMC** compliance

Ordering P/N

5

Wire colour

Length

1

variable

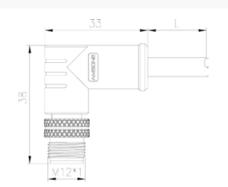
optional

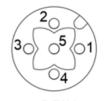
AM12F0511AXXX-XXX



Product Description: M12 pre-molded cable connector, male, contacts: 5, solder connection, A code, right angled, IP67







5 PIN

Illustration **Drawings**  Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** Catogory Connection type

Cable outlet Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking Male

AM12 0.4N.M Pre-molded cable

**Solder connection** variable

85444290 China

Electrical

**Rated current 4A** 60V Rated voltage Rated Impulse voltage 1500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance Optional Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Wire colour

Length

Cable tupe **UL Style** 0.34mm<sup>2</sup> Conductor cross section 22AWG Wire gauge **Jacket PVC/TPU** -25°C ~ 85°C **Temprature** Other resistance **UV** resistant

(720 h) UL 2556 Premium oil resistance

> (iacket) variable variable

Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone **Molding material PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending

**EMC** compliance

Ordering P/N

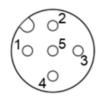
1 5 variable optional AM12M0511AXXX-XXX



**Product Description:** M12 pre-molded cable connector, female, contacts: 5, solder connection, A code, right angled, IP67







5 PIN

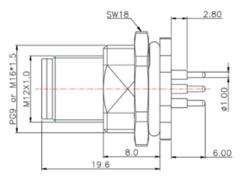
Illustration Drawings Pin assignment

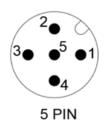
	Techn	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-101 Fix screw locking Female AM12 A 0.4N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	4A 60V 1500V ≥ 100 MΩ Optional IP67 > 100 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour Length	UL Style 0.34mm²² 22AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts	Cable specification and	d ending EMC complian	ce Ordering P/N
1 5	variable	optional	AM12F0511AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts: 5, PCB dip-solder connection, A code, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Fix screw locking
Male
AM12
A
2.0N.M
Device connector,

rear mount
PCB dip-solder
connection
85444290
China

IEC61076-2-101

ElectricalRated current4ARated voltage60VRated Impulse voltage1500VInsulation resistance $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

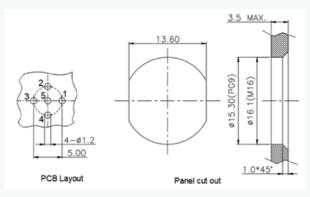
Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out

Country of origin

Connection type

Custom tariff number



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

No N	Number of contacts	Fastening thread	Ordering P/N
1	5	PG9	A M 1 2 M 0 5 2 2 A 0 0 1
2	5	M16*1.5	A M 1 2 M 0 5 2 2 A 0 0 2



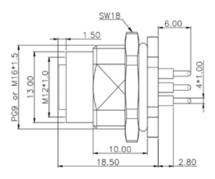
Product Description: M12 panel receptacle, rear mount, female, contacts: 5, PCB dip-solder connection, A code, straight, IP67

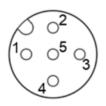
IEC61076-2-101

**Female** 

Fix screw locking







5 PIN

Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

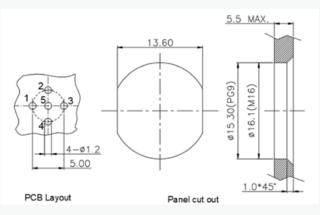
**AM12** Α 2.0N.M Device connector, rear mount Connection type PCB dip-solder connection Custom tariff number 85444290 **Country of origin** China

Electrical **Rated current 4A** Rated voltage 60V **Rated Impulse voltage** 1500V  $\geq$  100 M $\Omega$ Insulation resistance

**EMC** compliance / Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material Brass with Nickel plated

Sealing material Silicone

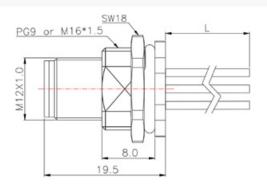
Shell material **Brass with Nickel plated** 

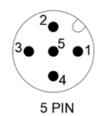
No	Number of contacts	Fastening thread	Ordering P/N
1	5	P G 9	A M 1 2 F 0 5 2 2 A 0 0 1
2	5	M16*1.5	A M 1 2 F 0 5 2 2 A 0 0 3



**Product Description:** M12 panel receptacle, rear mount, male, contacts: 5, solder connection for wires, A code, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Fix screw locking Male AM12 A 2.0N.M Device connector, rear mount

IEC61076-2-101

Solder connection for

wires

0.34mm<sup>2</sup> / 22AWG

Custom tariff number 85444290 Country of origin China **Electrical** 

Rated current 4A

Rated voltage 60V

Rated Impulse voltage 1500V

Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

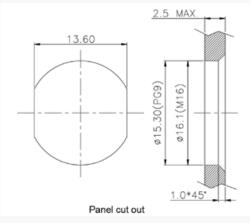
Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out

Connection type

**Applicable** wire



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

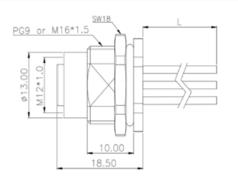
Shell material Brass with Nickel plated

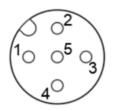
No Nu	umber of contacts	Fastening thread	Wire insulation	Ordering P/N
1	5	PG9		AM12M0522AXXX-XXX
			optional	
2	5	M16*1.5		AM12M0522AXXX-XXX



Product Description: M12 panel receptacle, rear mount, female, contacts: 5, solder connection for wires, A code, straight, IP67







5 PIN

Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Device connector, Connection type

**Applicable** wire

Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking **Female** 

AM12 Α 2.0N.M

rear mount Solder connection for

wires

0.34mm<sup>2</sup> / 22AWG 85444290

China

Electrical

**Rated current 4A** Rated voltage 60V Rated Impulse voltage 1500V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance

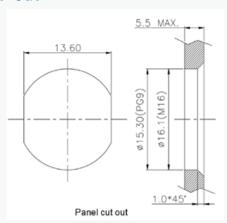
Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

/

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Jam nut material Brass with Nickel plated

Sealing material Silicone

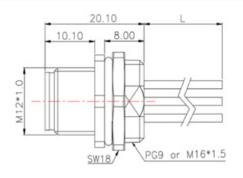
Shell material **Brass with Nickel plated** 

No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1	5	PG9		AM12F0522AXXX-XXX
			optional	
2	5	M16*1.5		AM12F0522AXXX-XXX



Product Description: M12 panel receptacle, front mount, male, contacts:5, solder connection for wires, A code, straight, IP67





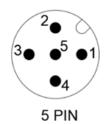


Illustration **Drawings**  Pin assignment

# Technical data

General **Standard** IEC61076-2-101 Locking system Fix screw locking Gender Male **AM12 Series** Coding **Torque** Catogory Connection type

2.0N.M Device connector, front mount Solder connection for wires 0.34mm<sup>2</sup> / 22AWG

Custom tariff number 85444290 Country of origin China

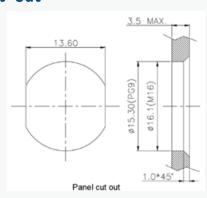
Electrical **Rated current 4A** 60V Rated voltage Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

#### Panel cut-out

**Applicable** wire



#### Material

Flammability rating Acc. to UL94V-0 **Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

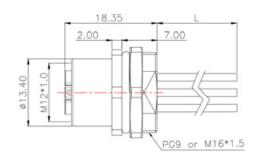
**Brass with Nickel plated** Shell material

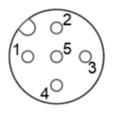
N	o Number of contacts	Fastening thread	Wire insulation	Ordering P/N
	5	PG9		AM12M0522AXXX-XXX
2	2 5	M16*1.5	optional	AM12M0522AXXX-XXX



**Product Description:** M12 panel receptacle, front mount, female, contacts:5, solder connection for wires, A code, straight, IP67







5 PIN

Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Applicable wire Custom tariff number Country of origin IEC61076-2-101 Fix screw locking Female

Female AM12 A 2.0N.M

Device connector, front mount

Solder connection for wires

0.34mm<sup>2</sup> / 22AWG 85444290 China Electrical

Rated current
Rated voltage
Rated Impulse voltage

Insulation resistance EMC compliance

Degree of protection

Mechanical operation
Operating temperature

4A 60V

1500V ≥ 100 MΩ

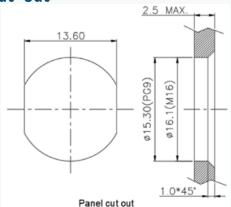
1

IP67

> 100 mating cycles

-25°C ~ 85°C

Panel cut-out



Material

Flammability rating

Contact material

Insulation material

Jam nut material
Sealing material

Shell material

Prace with Co

Acc. to UL94V-0

Brass with Gold plated

PA66

**Brass with Nickel plated** 

Silicone

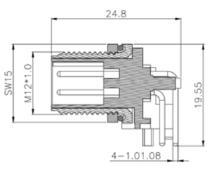
**Brass with Nickel plated** 

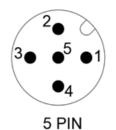
No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1	5	PG9	optional	AM12F0522AXXX-XXX
2	5	M16*1.5		AM12F0522AXXX-XXX



Product Description: M12 panel receptacle, rear mount, male, contacts: 5, PCB dip-solder connection, A code, right angled, IP67







Illustration

**Drawings** 

Pin assignment

**Brass with Gold plated** 

# **Technical data**

General **Standard** IEC61076-2-101 Locking system Fix screw locking Gender Male **AM12 Series** Coding **Torque** 2.0N.M Device connector, Catogory

rear mount Connection type PCB dip-solder connection **Custom tariff number** 85444290 China Country of origin

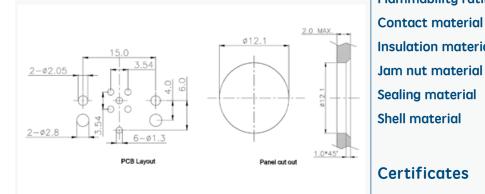
Electrical **Rated current 4**A Rated voltage 60V Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating

Insulation material **PA66** 

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material **Brass with Nickel plated** 

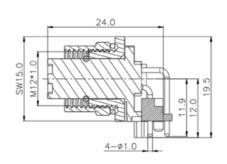
Certificates

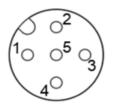
No **Number of contacts** Fastening thread Ordering P/N 1 5 M12\*1.0 AM12M0522A007



Product Description: M12 panel receptacle, rear mount, female, contacts: 5, PCB dip-solder connection, A code, right angled, IP67







5 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

IEC61076-2-101 Fix screw locking **Female** AM12 Α 2.0N.M

**Connection type** Custom tariff number **Country of origin** 

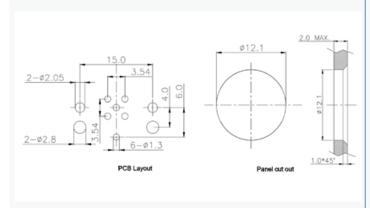
Device connector, rear mount PCB dip-solder connection 85444290 China

Electrical **Rated current 4A** Rated voltage 60V Rated Impulse voltage 1500V  $\geq$  100 M $\Omega$ Insulation resistance

**EMC** compliance / Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

**Brass with Gold plated** Contact material

Insulation material **PA66** 

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

No **Number of contacts** 1

5

Fastening thread M12\*1.0

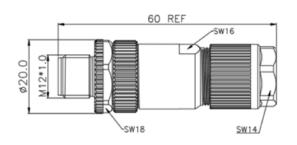
Ordering P/N AM12F0522A007



Product Description: M12 cable connector, male, contacts: 4, 5, field assembly type,

screw connection, A code, straight, IP67









Illustration

**Drawings** 

Pin assignment

# **Technical data**

General **Standard** IEC61076-2-101 Locking system Fix screw locking Gender Male **AM12 Series** Coding **Torque** Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin

0.5N.M Field assembly **Screws connection 22AWG** OD4~8mm 85444290 China

Electrical **Rated current** Rated voltage Rated Impulse voltage Insulation resistance **EMC** compliance Degree of protection

**Mechanical operation** Operating temperature 4Pin 5Pin **4A 4A** 250V 60V 2500V | 1500V  $\geq$  100 M $\Omega$ Shieldable **IP67** > 100 mating cycles

-25°C ~ 85°C

Material

Flammability rating Acc. to UL94V-0

Contact material **Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material **Silicone** 

Shell material **Brass with Nickel plated** 

No	Number of contacts	Suitable cable diameter	Ordering P/N
1	4	Ø 4 – 6 m m	A M 1 2 M 0 4 1 4 A 0 0 3
2	4	Ø 6 – 8 m m	A M 1 2 M O 4 1 4 A O O 1
3	5	Ø 4 – 6 m m	A M 1 2 M 0 5 1 4 A 0 0 6
4	5	Ø 6 – 8 m m	A M 1 2 M 0 5 1 4 A 0 0 4



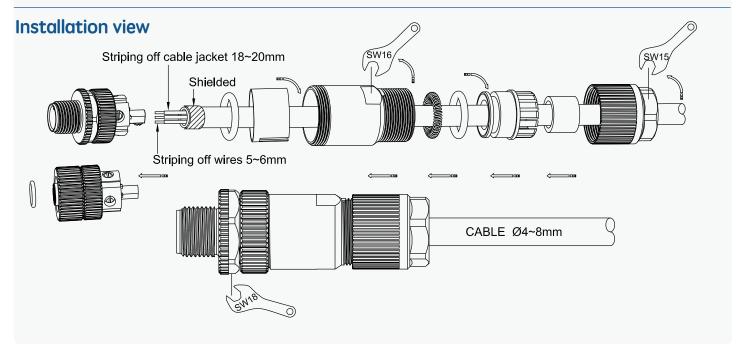


# Connector part drawing

# **Assembly instructions**

### **Installation steps**

- 1. Strip off the cable jacket: 18~20mm.
- 2. Install the connector parts on the cable in sequence.
- 3. Reserve the shield 5mm, fold it back to the cable jacket, and wrap it with copper foil. (If the cable has a shielded)
- 4. Strip off the conductor insulation: 5~6mm.
- 5. Insert the wire into the terminal hole according to the color corresponding to the pins and locking it with screws.
- 6. Insert the insulated sleeve into the shell body.
- 7. Use the corresponding wrench to locking connector and shell body.
- 8 Installation spring, O-ring, cable clamp, seal.
- 9. Use a wrench to lock the lock nut with the shell body.

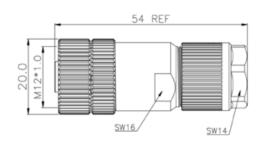




Product Description: M12 cable connector, female, contacts: 4, 5, field assembly type,

screw connection, A code, straight, IP67









4 PIN

5 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General **Standard** IEC61076-2-101 Locking system Fix screw locking Gender **Female AM12 Series** Coding **Torque** 0.5N.M Catogory Field assembly Connection type **Screws connection** Wire gauge(max.) **22AWG** Cable outlet OD4~8mm Custom tariff number 85444290

China

Electrical 4Pin 5Pin **Rated current 4A 4A** Rated voltage 250V 60V 2500V | Rated Impulse voltage 1500V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance Shieldable Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles **Operating temperature** -25°C ~ 85°C

Material

Country of origin

Flammability rating Acc. to UL94V-0

Contact material **Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material **Silicone** 

Shell material **Brass with Nickel plated** 

No	Number of contacts	Suitable cable diameter	Ordering P/N
1	4	Ø 4 – 6 m m	AM12F0414A003
2	4	Ø 6 – 8 m m	A M 1 2 F 0 4 1 4 A 0 0 1
3	5	Ø 4 – 6 m m	A M 1 2 F 0 5 1 4 A 0 0 7
4	5	Ø 6 – 8 m m	A M 1 2 F 0 5 1 4 A 0 0 5



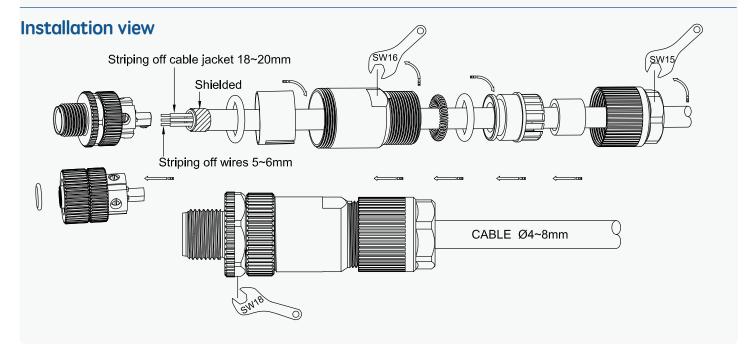


### **Connector part drawing**

# **Assembly instructions**

### **Installation steps**

- 1. Strip off the cable jacket: 18~20mm.
- 2. Install the connector parts on the cable in sequence.
- 3. Reserve the shield 5mm, fold it back to the cable jacket, and wrap it with copper foil. (If the cable has a shielded)
- 4. Strip off the conductor insulation: 5~6mm.
- 5. Insert the wire into the terminal hole according to the color corresponding to the pins and locking it with screws.
- 6. Insert the insulated sleeve into the shell body.
- 7. Use the corresponding wrench to locking connector and shell body.
- 8 Installation spring, O-ring, cable clamp, seal.
- 9. Use a wrench to lock the lock nut with the shell body.

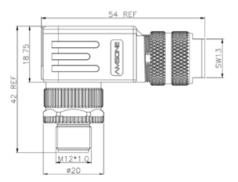


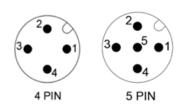


Product Description: M12 cable connector, male, contacts: 4, 5, field assembly type,

screw connection, A code, right angled, IP67







Illustration

**Drawings** 

Pin assignment

# **Technical data**

General **Standard** IEC61076-2-101 Locking system Fix screw locking Gender Male **AM12 Series** Coding 0.5N.M **Torque** Field assembly Catogory Connection type **Screws connection** Wire gauge(max.) **22AWG** Cable outlet OD4~8mm Custom tariff number 85444290 Country of origin

China

Electrical 4Pin 5Pin **Rated current 4A 4A** Rated voltage 250V 60V Rated Impulse voltage 2500V | 1500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance Shieldable Degree of protection **IP67 Mechanical operation** > 100 mating cycles

**Operating temperature** -25°C ~ 85°C

Material

Flammability rating Acc. to UL94V-0

Contact material **Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

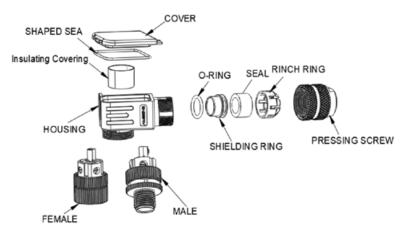
Sealing material **Silicone** 

Shell material **Brass with Nickel plated** 

N	Number of contacts	Suitable cable diameter	Ordering P/N
1	4	Ø 4 – 6 m m	A M 1 2 M 0 4 3 4 A 0 0 6
2	4	Ø 6 – 8 m m	A M 12 M 0 4 1 4 A 0 0 5
3	5	Ø 4 – 6 m m	A M 1 2 M 0 5 1 4 A 0 1 1
4	5	Ø 6 – 8 m m	A M 12 M 0 5 1 4 A 0 1 2







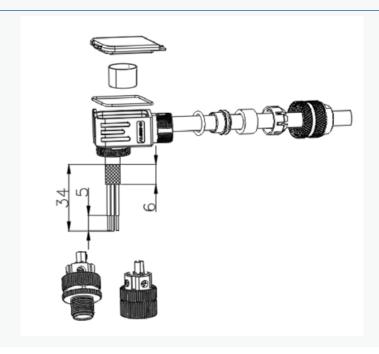
**Connector part drawing** 

# **Assembly instructions**

### **Installation steps**

- 1.Strip the external sheath: 34mm.
- 2.Strip the conductor insulation: 5mm.
- 3.Leave 6MM for braid and cut off the excess.
- 4. Shiled is folded and wrapped in copper foil
- 5.push the part onto the cable in sequence.
- 6.Insert the conductor of the cable into the terminal hole and lock the screw.
- 7. Assemble the remaining parts and lock with wrench.

### **Installation** view

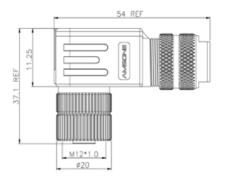


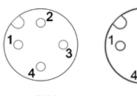


Product Description: M12 cable connector, female, contacts: 4, 5, field assembly type,

screw connection, A code, right angled, IP67







4 PIN

5 PIN

Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** IEC61076-2-101 Locking system Fix screw locking Gender **Female Series** AM12 Coding **Torque** 0.5N.M Catogory Field assembly Connection type Wire gauge(max.) Cable outlet

**Screws connection 22AWG** OD4~8mm Custom tariff number 85444290 Country of origin China

Electrical 4Pin 5Pin **Rated current 4A 4A** Rated voltage 250V 60V Rated Impulse voltage 2500V | 1500V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance Shieldable Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

**Operating temperature** -25°C ~ 85°C

Material

Flammability rating Acc. to UL94V-0

Contact material **Brass with Gold plated** 

**Insulation material PA66** 

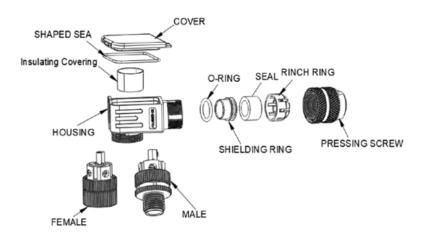
Jam nut material **Brass with Nickel plated** 

Sealing material **Silicone** 

Shell material **Brass with Nickel plated** 

No	Number of contacts	Suitable cable diameter	Ordering P/N
1	4	Ø 4 – 6 m m	AM12F0414A006
2	4	Ø 6 – 8 m m	A M 1 2 F 0 4 1 4 A 0 0 7
3	5	Ø 4 – 6 m m	A M 1 2 F 0 5 3 4 A 0 0 7
4	5	Ø 6 – 8 m m	A M 1 2 F 0 5 3 4 A 0 0 8





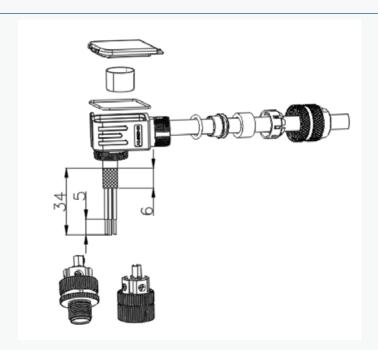
### **Connector part drawing**

# Assembly instructions

### **Installation steps**

- 1.Strip the external sheath: 34mm.
- 2.Strip the conductor insulation: 5mm.
- 3.Leave 6MM for braid and cut off the excess.
- 4. Shiled is folded and wrapped in copper foil
- 5.push the part onto the cable in sequence.
- 6.Insert the conductor of the cable into the terminal hole and lock the screw.
- 7. Assemble the remaining parts and lock with wrench.

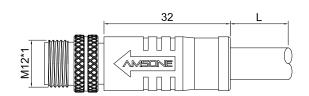
### **Installation** view

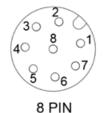




**Product Description:** M12 pre-molded cable connector, male, contacts: 8, solder connection, A code, straight, IP67







01111

Illustration Drawings Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding

Coding A
Torque 0.4N
Catogory PreConnection type Solo

Cable outlet
Custom tariff number
Country of origin

IEC61076-2-101
Fix screw locking

Male AM12 A 0.4N.M

Pre-molded cable Solder connection variable

85444290 China **Electrical** 

 $\begin{array}{lll} \mbox{Rated current} & 2\mbox{A} \\ \mbox{Rated voltage} & 30\mbox{V} \\ \mbox{Rated Impulse voltage} & 800\mbox{V} \\ \mbox{Insulation resistance} & \geqslant 100\mbox{ M}\Omega \\ \mbox{EMC compliance} & \mbox{Optional} \end{array}$ 

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type UL Style
Conductor cross section 0.25mm $^2$ Wire gauge 24AWG
Jacket PVC/TPU
Temprature -25°C ~ 85°C
Other resistance UV resistant

(720 h) UL 2556

Premium oil resistance

(jacket)

Wire colour variable Length variable Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Molding material PVC/TPU

Certificates

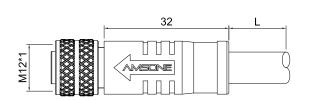
No Number of contacts Cable specification and ending EMC compliance Ordering P/N

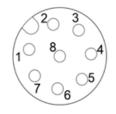
1 8 variable optional AM12M0811AXXX-XXX



Product Description: M12 pre-molded cable connector, female, contacts: 8, solder connection, A code, straight, IP67







8 PIN

Illustration **Drawings** Pin assignment

# **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking Female

AM12 Α 0.4N.M

Pre-molded cable Solder connection variable

85444290 China

Electrical

**Rated current** Rated voltage Rated Impulse voltage

Insulation resistance **EMC** compliance Degree of protection

**Mechanical operation** Operating temperature 2A

30V 800V

≥ 100 MΩ **Optional IP67** 

> 100 mating cycles -25°C ~ 85°C

Cable

Cable type **UL Style Conductor cross section** 0.25mm<sup>2</sup> 24AWG Wire gauge **PVC/TPU** Jacket **Temprature** -25°C ~ 85°C Other resistance **UV** resistant

(720 h) UL 2556

Premium oil resistance

(iacket)

Wire colour variable Length variable

Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone **Molding material PVC/TPU** 

Certificates

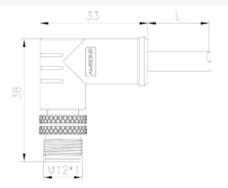
No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N

1 8 variable AM12F0811AXXX-XXX optional



**Product Description:** M12 pre-molded cable connector, male, contacts: 8, solder connection, A code, right angled, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type

Catogory
Connection type
Cable outlet
Custom tariff number
Country of origin

IEC61076-2-101 Fix screw locking Male AM12

0.4N.M Pre-molded cable Solder connection

variable 85444290 China **Electrical** 

Rated current2ARated voltage30VRated Impulse voltage800VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC complianceOptional

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type UL Style
Conductor cross section 0.25mm $^2$ Wire gauge 24AWG
Jacket PVC/TPU
Temprature -25°C ~ 85°C
Other resistance UV resistant

(720 h) UL 2556

Premium oil resistance

(jacket)

Wire colour variable Length variable Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Molding material PVC/TPU

Certificates

No Number of contacts Cable specification and ending EMC compliance Ordering P/N

1 8 variable optional AM12M0811AXXX-XXX

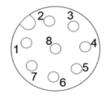


Product Description: M12 pre-molded cable connector, female, contacts: 8,

solder connection, A code, right angled, IP67







8 PIN

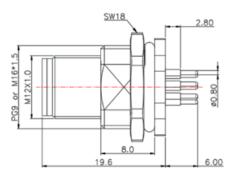
Pin assignment Illustration **Drawings** 

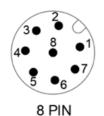
	Techni	cal data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-101 Fix screw locking Female AM12 A 0.4N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	2A 30V 800V ≥ 100 MΩ Optional IP67 > 100 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.25mm <sup>2</sup> 24AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material Certificates	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts	Cable specification and	l ending EMC compliance	e Ordering P/N
1 8	variable	optional	AM12F0811AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts: 8, PCB dip-solder connection, A code, straight, IP67







Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Custom tariff number

IEC61076-2-101
Fix screw locking
Male
AM12
A
2.0N.M
Device connector,
rear mount
PCB dip-solder
connection
85444290

China

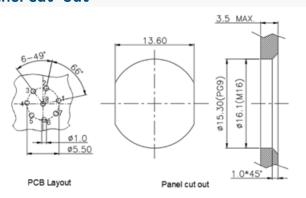
Electrical2ARated current2ARated voltage30VRated Impulse voltage800VInsulation resistance $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67
Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out

Country of origin



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Ordering P/N
1	8	P G 9	A M 1 2 M 0 8 2 2 A 0 0 1
2	8	M16*1.5	A M 1 2 M 0 8 2 2 A 0 0 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts: 8, PCB dip-solder connection, A code, straight, IP67

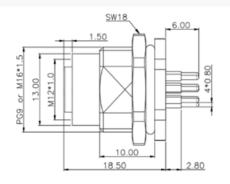
IEC61076-2-101

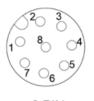
**Female** 

AM12

Fix screw locking







8 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Coding
Torque
2.0N.M
Catogory
Device connector,
rear mount
Connection type
PCB dip-solder
connection
Custom tariff number
85444290
Country of origin
China

Electrical Rated current

Rated voltage 30V Rated Impulse voltage 800V

Insulation resistance  $\geqslant$  100 M $\Omega$ 

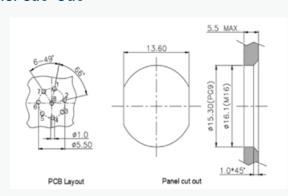
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

2A

Operating temperature −25°C ~ 85°C

### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

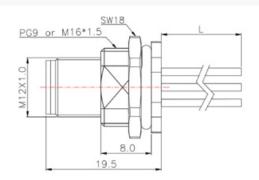
Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Ordering P/N
1	8	P G 9	A M 1 2 F 0 8 2 2 A 0 0 1
2	8	M16*1.5	A M 1 2 F 0 8 2 2 A 0 0 2



**Product Description:** M12 panel receptacle, rear mount, male, contacts: 8, solder connection for wires, A code, straight, IP67





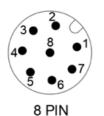


Illustration Drawings Pin assignment

# **Technical data**

General
Standard IEC6107
Locking system Fix scre
Gender Male
Series AM12
Coding A
Torque 2.0N.M
Catogory Device of rear motors.

Applicable wire
Custom tariff number
Country of origin

IEC61076-2-101
Fix screw locking

Device connector, rear mount

Solder connection for wires

0.25mm<sup>2</sup> / 24AWG

85444290 China **Electrical** 

Rated current 2A

Rated voltage 30V

Rated Impulse voltage 800V

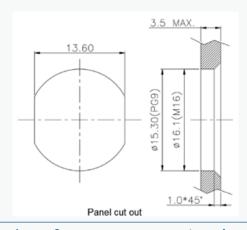
Insulation resistance  $\geqslant 100 \text{ M}\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

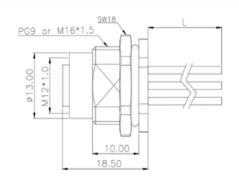
Shell material Brass with Nickel plated

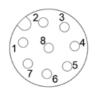
No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1	8	PG9		AM12M0822AXXX-XXX
2	8	M16*1.5	optional	AM12M0822AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, female, contacts: 8, solder connection for wires, A code, straight, IP67







8 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Applicable wire Custom tariff number Country of origin IEC61076-2-101 Fix screw locking Female

AM12 A 2.0N.M

Device connector, rear mount

Solder connection for wires

0.25mm<sup>2</sup> / 24AWG

85444290 China Electrical

Rated current 2A Rated voltage 30V Rated Impulse voltage 800V

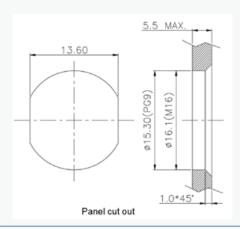
Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

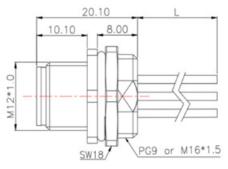
No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1	8	PG9	optional	AM12F0822AXXX-XXX
2	8	M16*1.5	optional	AM12F0822AXXX-XXX

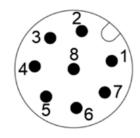


**Product Description:** M12 panel receptacle, front mount, male, contacts: 8, solder connection for wires, A code, straight, IP67



Illustration





Drawings

8 PIN
Pin assignment

# Technical data

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type

2.0N.M
Device connector,
front mount
Solder connection for
wires
0.25mm<sup>2</sup> / 24AWG
85444290

IEC61076-2-101

Male

**AM12** 

China

Fix screw locking

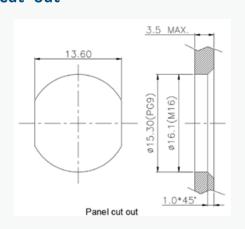
EMC compliance /
Degree of protection IP67
Mechanical operation > 100 mating cycles

Operating temperature -25°C ~ 85°C

Panel cut-out

Country of origin

Applicable wire Custom tariff number



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

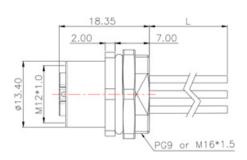
Shell material Brass with Nickel plated

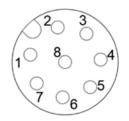
No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1	8	PG9	optional	AM12M0822AXXX-XXX
2	8	M16*1.5	·	AM12M0822AXXX-XXX



**Product Description:** M12 panel receptacle, front mount, female, contacts: 8, solder connection for wires, A code, straight, IP67







8 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Applicable wire Custom tariff number Country of origin IEC61076-2-101 Fix screw locking Female

AM12 A 2.0N.M

Device connector, front mount Solder connection for

wires

0.25mm<sup>2</sup> / 24AWG

85444290 China **Electrical** 

Rated current 2A Rated voltage 30V Rated Impulse voltage 800V

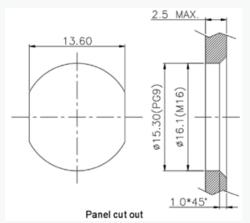
Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

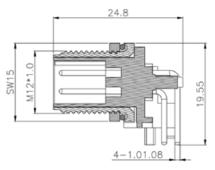
Shell material Brass with Nickel plated

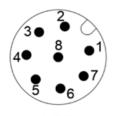
No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1	8	PG9	ontional	AM12F0822AXXX-XXX
2	8	M16*1.5	optional	AM12F0822AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts: 8, PCB dip-solder connection, A code, right angled, IP67







8 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard IEC61076-2-101
Locking system Fix screw locking
Gender Male
Series AM12
Coding A
Torque 2.0N.M
Catogory Device connector

Catogory
Device connector,
rear mount

Connection type
PCB dip-solder
connection

Custom tariff number
S5444290
Country of origin
China

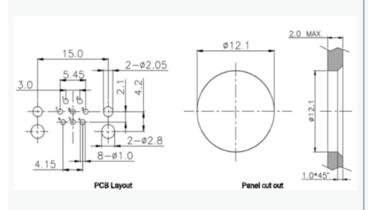
Electrical
Rated current 2A
Rated voltage 30V
Rated Impulse voltage 800V
Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

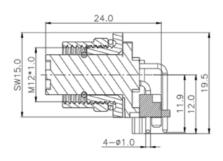
No Number of contacts Fastening thread Ordering P/N
1 8 M12\*1.0 AM12M0822A005

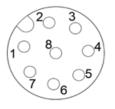


**Product Description:** M12 panel receptacle, rear mount, female, contacts: 8, PCB dip-solder connection, A code, right angled, IP67

IEC61076-2-101







8 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

g system
Fix screw locking
Female
AM12
A
2.0N.M
Device connector,
rear mount

Connection type PCB dip-solder connection
Custom tariff number 85444290
Country of origin China

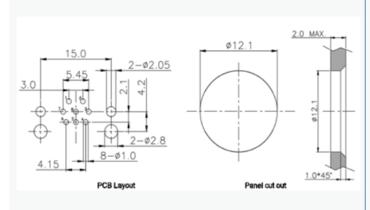
Electrical
Rated current 2A
Rated voltage 30V
Rated Impulse voltage 800V
Insulation resistance  $\geqslant$  100 MΩ

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

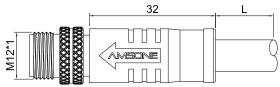
No Number of contacts Fastening thread Ordering P/N
1 8 M12\*1.0 AM12F0822A005



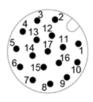
Product Description: M12 pre-molded cable connector, male, contacts: 12, 17,

solder connection, A code, straight, IP67









12 PIN

17 PIN

Illustration Drawings Pin assignment

# Technical data

Electrical General **Standard** IEC61076-2-101 **Rated current** 1.5A Locking system Fix screw locking 30V Rated voltage Male Gender Rated Impulse voltage 800V AM12 Series ≥ 100 MΩ Coding Insulation resistance **Torque** 0.4N.M **EMC** compliance Optional Pre-molded cable Catogory Degree of protection **IP67** Connection type Solder connection Cable outlet variable **Mechanical operation** > 100 mating cycles 85444290 Custom tariff number Operating temperature -25°C ~ 85°C Country of origin China Material

Cable Cable type **UL Style** Flammability rating Acc. to UL94V-0 0.14mm<sup>2</sup> **Conductor cross section Contact material** Brass with Gold plated Wire gauge 26AWG Insulation material **PA66 Jacket** PVC/TPU Ring nut material **Brass with Nickel plated Temprature** -25°C ~ 85°C Other resistance **UV** resistant Sealing material **Silicone** (720 h) UL 2556 Molding material **PVC/TPU** Premium oil resistance (jacket)

variable

variable

No Number of contacts Cable specification and ending EMC compliance Ordering P/N

1 12
2 variable optional AM12M1211AXXX-XXX
AM12M1711AXXX-XXX

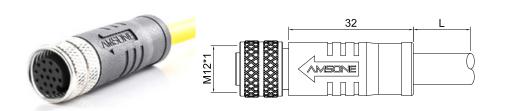
Certificates

Wire colour

Length



**Product Description:** M12 pre-molded cable connector, female, contacts: 12, 17, solder connection, A code, straight, IP67







12 PIN

**17 PIN** 

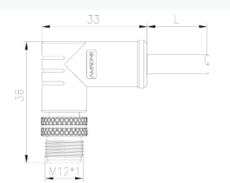
Illustration Drawings Pin assignment

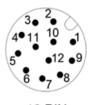
		9	<b>9</b>
	Techni	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-101 Fix screw locking Female AM12 A 0.4N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	1.5A 30V 800V ≥ 100 MΩ Optional IP67 > 100 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.14mm² 26AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material Certificates	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts  1 12 2 17	Cable specification an	d ending EMC complianc	e Ordering P/N  AM12F1211AXXX-XXX  AM12F1711AXXX-XXX

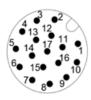


Product Description: M12 pre-molded cable connector, male, contacts:12,17, solder connection, A code, right angled, IP67









**12 PIN** 

**17 PIN** 

Illustration **Drawings**  Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** 0.4N.M Catogory

Connection type Cable outlet variable Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking Male AM12

Pre-molded cable Solder connection

85444290 China

Electrical

**Rated current** 1.5A 30V Rated voltage Rated Impulse voltage 800V ≥ 100 MΩ Insulation resistance **EMC** compliance Optional

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type **UL Style** 0.14mm<sup>2</sup> **Conductor cross section** Wire gauge 26AWG **Jacket PVC/TPU Temprature** -25°C ~ 85°C Other resistance **UV** resistant

(720 h) UL 2556

Premium oil resistance

(jacket) Wire colour variable variable Length

Material

Flammability rating Acc. to UL94V-0

**Contact material** Brass with Gold plated

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone Molding material **PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N

1 12 AM12M1211AXXX-XXX variable optional 2 17 AM12M1711AXXX-XXX



**Product Description:** M12 pre-molded cable connector, female, contacts:12,17, solder connection, A code, right angled, IP67









**12 PIN** 

**17 PIN** 

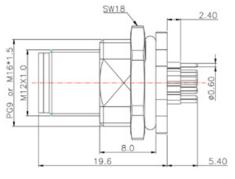
Illustration Drawings Pin assignment

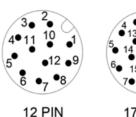
Country of origin  China  Operating temperature  -25°C ~ 85°C  Cable  Cable type Conductor cross section Wire gauge Jacket PVC/TPU Temprature  -25°C ~ 85°C  Operating temperature  -25°C ~ 85°C  Operating temperature  -25°C ~ 85°C  Contact material Brass with Gold plate Insulation material Brass with Nickel plate Ring nut material Brass with Nickel plate Sealing material Silicone (720 h) UL 2556 Premium oil resistance (jacket) Wire colour Length  No Number of contacts  Cable specification and ending  EMC compliance  Ordering P/				
Standard Locking system Gender Gender Female Series       Fix screw locking Female AM12       Rated current Rated voltage Rated voltage Rated Impulse voltage Rated Voltage Rated Impulse Volta		Techni	cal data	
Cable type Conductor cross section  O.14mm  Contact material  Cont	Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number	Fix screw locking Female AM12 A 0.4N.M Pre-molded cable Solder connection variable 85444290	Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation	30V 800V ≥ 100 MΩ Optional IP67 > 100 mating cycles
	Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour	0.14mm <sup>2</sup> 26AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable	Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material	Brass with Gold plated PA66 Brass with Nickel plated Silicone
variable optional	1 12	•		Ordering P/N  AM12F1211AXXX-XXX  AM12F1711AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts:12,17, pcb dip-solder connection for wires, A code, straight, IP67







12 PIN

17 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard IEC61076-2-101
Locking system Fix screw locking
Gender Male
Series AM12
Coding A
Torque 2.0N.M
Catogory Device connector, rear mount

rear mount
PCB dip-solder
connection
85444290
China

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

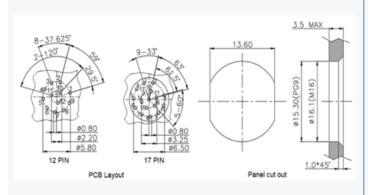
Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out

Country of origin

Connection type

Custom tariff number



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated Insulation material PA66

diation material PAGG

Jam nut material Brass with Nickel plated

Sealing material Silicone

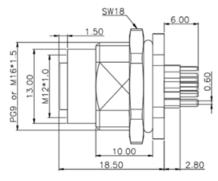
Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Ordering P/N
1	12	PG 9	A M 1 2 M 1 2 2 2 A 0 0 1
2	17	PGY	A M 1 2 M 1 7 2 2 A 0 0 1
3	12	M16*1.5	A M 1 2 M 1 2 2 2 A 0 0 2
4	17	MIO 1.5	A M 1 2 M 1 7 2 2 A 0 0 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts:12,17, pcb dip-solder connection for wires, A code, straight, IP67









17 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard IEC
Locking system Fix
Gender Fen
Series AM
Coding A
Torque 2.0
Catogory Dev

Connection type

Custom tariff number

Country of origin

IEC61076-2-101 Fix screw locking Female AM12

2.0N.M
Device connector,
rear mount
PCB dip-solder

connection 85444290 China Electrical

Rated current 1.5A
Rated voltage 30V
Rated Impulse voltage 800V

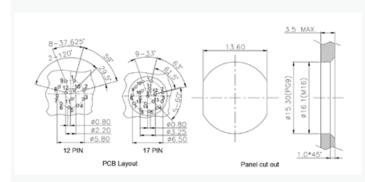
Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature −25°C ~ 85°C

### Panel cut-out



### Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

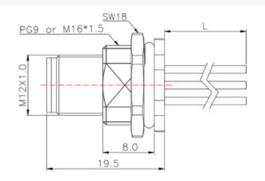
Shell material Brass with Nickel plated

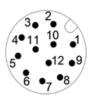
1     12       2     17       3     12       4     17   AM12F1222A002 AM12F1722A002	No N	umber of contacts	Fastening thread	Ordering P/N
2 17 AM12F1722A001 3 12 M16*1.5	1	12	P.C.O.	A M 1 2 F 1 2 2 2 A 0 0 1
M16*1.5	2	17	PG9	A M 1 2 F 1 7 2 2 A 0 0 1
	3	12	AA 1 6 * 1 . E	A M 1 2 F 1 2 2 2 A 0 0 2
	4	17	M10 1.5	A M 1 2 F 1 7 2 2 A 0 0 2

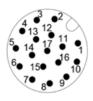


Product Description: M12 panel receptacle, rear mount, male, contacts:12,17, solder connection for wires, A code, straight, IP67









12 PIN

**17 PIN** 

Illustration **Drawings** 

Pin assignment

# **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type

AM12 2.0N.M Device connector, rear mount Solder connection for wires

**Applicable** wire Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking

Male

0.14mm<sup>2</sup> / 26AWG

85444290 China

Electrical

**Rated current** 1.5A 30V Rated voltage Rated Impulse voltage **V008** Insulation resistance  $\geq$  100 M $\Omega$ 

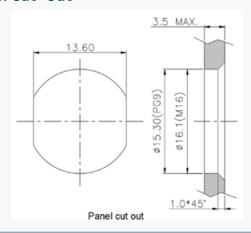
**EMC** compliance 1

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



### Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

Shell material **Brass with Nickel plated** 

Certificates

#### No Number of contacts Fastening thread Wire insulation Ordering P/N 1 12 AM12M1222AXXX-XXX PG9 2 17 optional M16\*1.5 3 12

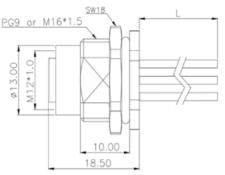
17

AM12M1722AXXX-XXX AM12M1222AXXX-XXX AM12M1722AXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, female, contacts:12,17, solder connection for wires, A code, straight, IP67









**12 PIN** 

17 PIN

Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Applicable wire Custom tariff number Country of origin IEC61076-2-101 Fix screw locking Female

Female AM12 A 2.0N.M

Device connector, rear mount

Solder connection for

wires

0.14mm<sup>2</sup> / 26AWG

85444290 China **Electrical** 

Rated current 1.5A
Rated voltage 30V
Rated Impulse voltage 800V

Insulation resistance  $\geqslant$  100 M $\Omega$ 

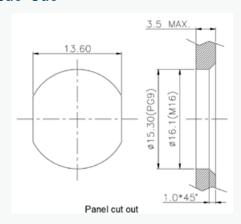
EMC compliance

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



#### Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

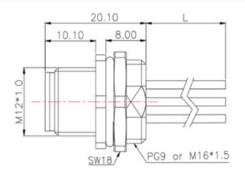
Shell material Brass with Nickel plated

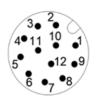
No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
		_		
1	12	PG9 M16*1.5		AM12F1222AXXX-XXX
2	17		optional	AM12F1722AXXX-XXX
3	12			AM12F1222AXXX-XXX
4	17			AM12F1722AXXX-XXX

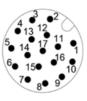


Product Description: M12 panel receptacle, front mount, male, contacts:12,17, solder connection for wires, A code, straight, IP67









12 PIN

**17 PIN** 

Illustration Pin assignment **Drawings** 

# **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type

Male **AM12** 2.0N.M front mount

**Applicable** wire Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking Device connector, Solder connection for

0.14mm<sup>2</sup> / 26AWG 85444290 China

wires

Electrical **Rated current** 

Rated voltage Rated Impulse voltage

**EMC** compliance

Insulation resistance

Degree of protection **Mechanical operation** 

Operating temperature

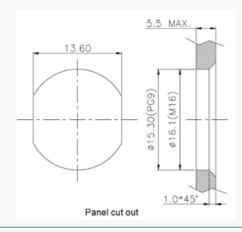
1.5A 30V 800V ≥ 100 MΩ

1

**IP67** > 100 mating cycles

-25°C ~ 85°C

### Panel cut-out



Material

Flammability rating

**Contact material** 

**Insulation material** 

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

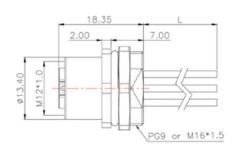
**Brass with Nickel plated** 

No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1 2 3 4	12 17 12 17	PG9 M16*1.5	optional	AM12M1222AXXX-XXX AM12M1722AXXX-XXX AM12M1222AXXX-XXX AM12M1722AXXX-XXX



**Product Description:** M12 panel receptacle, front mount, female, contacts:12,17, solder connection for wires, A code, straight, IP67









12 PIN

**17 PIN** 

Illustration Drawings Pin assignment

# **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type

IEC61076-2-101
Fix screw locking
Female
AM12
A
2.0N.M
Device connector,
front mount
Solder connection for wires
0.14mm² / 26AWG
85444290
China

ElectricalRated current1.5ARated voltage30VRated Impulse voltage800VInsulation resistance $\geqslant$  100 M $\Omega$ EMC compliance/

Degree of protection IP67

Mechanical operation > 100 mating cycles

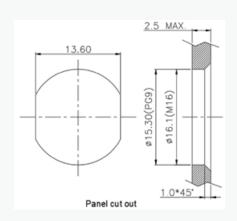
Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out

**Country of origin** 

**Applicable** wire

Custom tariff number



**Material** 

Flammability rating Acc. to UL94V–0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

No	Number of contacts	Fastening thread	Wire insulation	Ordering P/N
1 2 3 4	12 17 12 17	PG9 M16*1.5	optional	AM12F1222AXXX-XXX AM12F1722AXXX-XXX AM12F1222AXXX-XXX AM12F1722AXXX-XXX

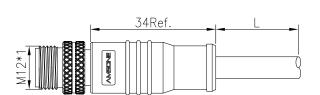






Product Description: M12 pre-molded cable connector, male, contacts:4, solder connection, B code, straight, IP67





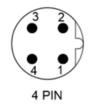


Illustration **Drawings** Pin assignment

# **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** 

Catogory Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking

Male AM12 0.4N.M

Pre-molded cable **Solder connection** variable

85444290 China

Electrical

**Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance Optional Degree of protection **IP67** 

**Mechanical operation** 

Operating temperature

> 100 mating cycles

-25°C ~ 85°C

Cable

Wire colour

Length

Cable type **UL Style** Conductor cross section 0.34mm<sup>2</sup> **22AWG** Wire gauge **PVC/TPU Jacket** -25°C ~ 85°C **Temprature** Other resistance

**UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket)

variable variable Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone Molding material **PVC/TPU** 

Certificates

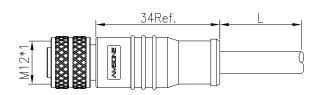
No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N 1 4 variable optional AM12M0411BXXX-XXX



Product Description: M12 pre-molded cable connector, female, contacts:4,

solder connection, B code, straight, IP67





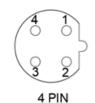


Illustration **Drawings** Pin assignment

# Technical data

General Standard Locking system Gender Series Coding **Torque** Catogory

Connection type Cable outlet Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking

**Female AM12** 0.4N.M Pre-molded cable

Solder connection variable 85444290 China

**UL Style** 

 $0.34 \text{mm}^2$ 

Electrical

**Rated current** Rated voltage Rated Impulse voltage Insulation resistance **EMC** compliance

Degree of protection **Mechanical operation** Operating temperature **4A** 250V 2500V ≥ 100 MΩ **Optional IP67** > 100 mating cycles

-25°C ~ 85°C

Cable

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** Other resistance

22AWG **PVC/TPU** -25°C ~ 85°C **UV** resistant (720 h) UL 2556 Premium oil resistance

(jacket) Wire colour variable Length variable Material

Flammability rating

**Contact material** 

Insulation material

Ring nut material

Sealing material **Molding material**  Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

**Silicone PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending

**EMC** compliance

Ordering P/N

4

1

variable

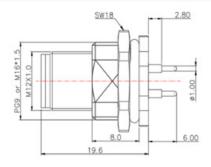
optional

AM12F0411BXXX-XXX



Product Description: M12 panel receptacle, rear mount, male, contacts:4, PCB dip-solder connection, B code, straight, IP67





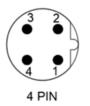


Illustration **Drawings** 

Male

AM12

IEC61076-2-101

Fix screw locking

Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

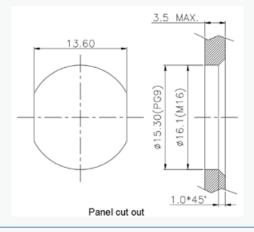
2.0N.M Device connector, rear mount Connection type PCB dip-solder connection **Custom tariff number** 85444290 Country of origin China

Electrical **Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating **Contact material Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

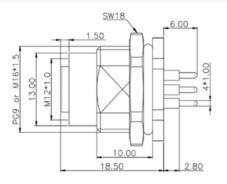
Shell material **Brass with Nickel plated** 

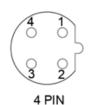
No N	lumber of contacts	Fastening thread	Ordering P/N
1	4	P G 9	A M 1 2 M 0 4 2 2 B 0 0 1
2	4	M16*1.5	A M 1 2 M 0 4 2 2 B 0 0 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts:4, PCB dip-solder connection, B code, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

**Custom tariff number** 

IEC61076-2-101
Fix screw locking
Female
AM12
B
2.0N.M
Device connector

Device connector, rear mount PCB dip-solder connection 85444290 China Electrical
Rated current
4A
Rated voltage
250V
Rated Impulse voltage
2500V
Insulation resistance  $\geqslant$  100 M $\Omega$ 

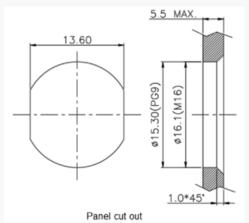
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out

Country of origin



#### Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

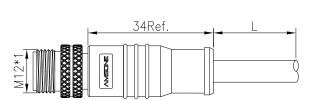
Shell material Brass with Nickel plated

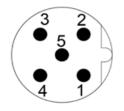
No	Number of contacts	Fastening thread	Ordering P/N
1	4	P G 9	A M 1 2 F 0 4 2 2 B 0 0 1
2	4	M16*1.5	A M 1 2 F 0 4 2 2 B 0 0 2



**Product Description:** M12 pre-molded cable connector, male, contacts:5, solder connection, B code, straight, IP67







5 PIN

Illustration Drawings Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series

Series
Coding
Torque
Catogory
Connection tune

Connection type
Cable outlet
Custom tariff num

Custom tariff number Country of origin IEC61076-2-101
Fix screw locking

Male AM12 B 0.4N.M

Pre-molded cable Solder connection variable

85444290 China **Electrical** 

Rated current4ARated voltage60VRated Impulse voltage1500VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC complianceOptionalDegree of protectionIP67

Mechanical operation > 1

> 100 mating cycles -25°C ~ 85°C

Acc. to UL94V-0

Cable

Cable type
Conductor cross section
Wire gauge
Jacket
Temprature
Other resistance

ther resistance

Wire colour Length UL Style

0.34mm<sup>2</sup>
22AWG
PVC/TPU
-25°C ~ 85°C
UV resistant

(720 h) UL 2556

Premium oil resistance (jacket)

variable variable

Material

Flammability rating

Operating temperature

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Molding material PVC/TPU

Certificates

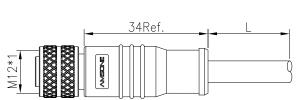
No Number of contacts Cable specification and ending EMC compliance Ordering P/N

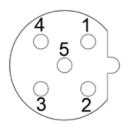
1 5 variable optional AM12M0511BXXX1-XXX



Product Description: M12 pre-molded cable connector, female, contacts:5, solder connection, B code, straight, IP67







5 PIN

Illustration **Drawings** Pin assignment

### **Technical data**

General Standard Locking system Gender Series Coding **Torque** Catogory

Connection type Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking

**Female AM12** 0.4N.M

Pre-molded cable Solder connection

variable 85444290 China

**UL Style** 

Electrical

**Rated current** Rated voltage Rated Impulse voltage Insulation resistance

**EMC** compliance Degree of protection

**Mechanical operation** Operating temperature **4A** 60V

1500V ≥ 100 MΩ **Optional IP67** 

> 100 mating cycles

-25°C ~ 85°C

Cable

Cable type Conductor cross section Wire gauge Jacket **Temprature** Other resistance

0.34mm<sup>2</sup> 22AWG **PVC/TPU** -25°C ~ 85°C **UV** resistant (720 h) UL 2556 Premium oil resistance

(jacket) Wire colour variable Length variable Material

Flammability rating

**Contact material** 

Insulation material

Ring nut material Sealing material

**Molding material** 

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

**Silicone PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending

variable

**EMC** compliance

Ordering P/N

5

1

optional

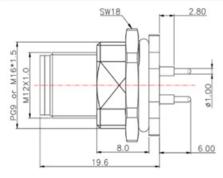
AM12F0511BXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts:5,







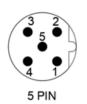


Illustration Drawings

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Fix screw locking Male AM12 B 2.0N.M Device connector, rear mount PCB dip-solder connection 85444290

IEC61076-2-101

ElectricalRated current4ARated voltage60VRated Impulse voltage1500VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC compliance/

EMC compliance /
Degree of protection IP67

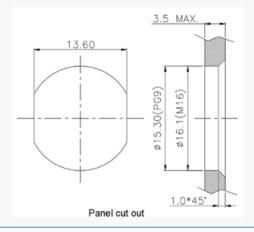
Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Custom tariff number 854442
Country of origin China

#### Panel cut-out

Connection type



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

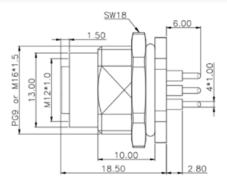
Shell material Brass with Nickel plated

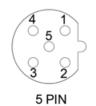
No N	lumber of contacts	Fastening thread	Ordering P/N
1	5	P G 9	A M 1 2 M 0 5 2 2 B 0 0 1
2	5	M16*1.5	A M 1 2 M 0 5 2 2 B 0 0 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts:5, solder connection, B code, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

**Custom tariff number** 

IEC61076-2-101
Fix screw locking
Female
AM12
B
2.0N.M
Device connector,

rear mount
PCB dip-solder
connection
85444290
China

ElectricalRated current4ARated voltage60VRated Impulse voltage1500VInsulation resistance $\geqslant$  100 M $\Omega$ 

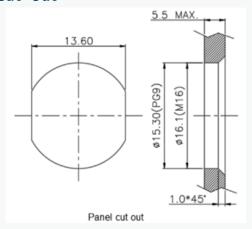
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out

Country of origin



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

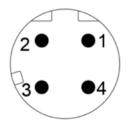
No N	umber of contacts	Fastening thread	Ordering P/N
1	5	P G 9	A M 1 2 F 0 5 2 2 B 0 0 1
2	5	M16*1.5	A M 1 2 F 0 5 2 2 B 0 0 2



**Product Description:** M12 pre-molded cable connector, male, contacts:4, solder connection, D code, straight, IP67







4 PIN

Illustration Drawings Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Catogory Connection type Cable outlet Custom tariff nun

Custom tariff number Country of origin IEC61076-2-101
Fix screw locking

Male AM12 D 0.4N.M Pre-mo

Pre-molded cable Solder connection variable

85444290 China **Electrical** 

Rated current 4A

Rated voltage 250V

Rated Impulse voltage 2500V

Insulation resistance  $\geq 100 \text{ M}\Omega$ EMC compliance Optional

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type UL Style  $0.34 \text{mm}^2$  Conductor cross section  $0.34 \text{mm}^2$  Wire gauge 22 AWG PVC/TPU Temprature  $-25 \,^{\circ}\text{C} \sim 85 \,^{\circ}\text{C}$  Other resistance UV resistant  $(720 \, \text{h})$  UL 255

(720 h) UL 2556
Premium oil resistance

(jacket) variable

Wire colour variable Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Molding material PVC/TPU

Certificates

No Number of contacts Cable specification and ending EMC compliance Ordering P/N

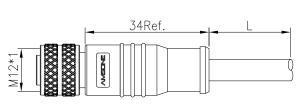
1 4 variable optional AM12M0411DXXX-XXX

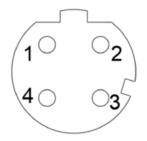


Product Description: M12 pre-molded cable connector, female, contacts:4,

solder connection, D code, straight, IP67







4 PIN Pin assignment

Illustration **Drawings** 

### **Technical data**

General Standard Locking system Gender Series Coding **Torque** Catogory

Connection type Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-101 Fix screw locking

**Female AM12** 0.4N.M

Pre-molded cable Solder connection variable

85444290 China

Electrical

**Rated current** Rated voltage Rated Impulse voltage

Insulation resistance **EMC** compliance Degree of protection

**Mechanical operation** Operating temperature **4A** 250V 2500V

≥ 100 MΩ **Optional IP67** 

> 100 mating cycles -25°C ~ 85°C

Cable

Cable type Conductor cross section Wire gauge Jacket **Temprature** 

4

Other resistance

Wire colour Length

1

**UL Style** 

0.34mm<sup>2</sup> 22AWG **PVC/TPU** -25°C ~ 85°C **UV** resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable variable Material

Flammability rating

**Contact material** 

Insulation material Ring nut material

Sealing material

**Molding material** 

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

**Silicone PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending

variable

**EMC** compliance

optional

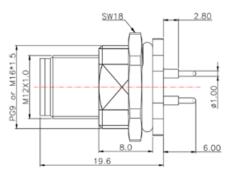
Ordering P/N

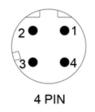
AM12F0411DXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts:4, PCB dip-solder connection, D code, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

IEC61076-2-101
Fix screw locking
Male
AM12
D
2.0N.M
Device connector,

rear mount
PCB dip-solder
connector
85444290
China

ElectricalRated current4ARated voltage250VRated Impulse voltage2500VInsulation resistance $\geqslant$  100 M $\Omega$ FMC compliance/

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

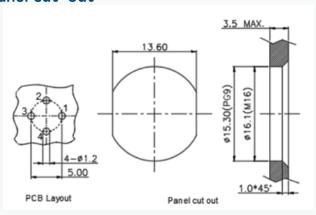
Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out

Country of origin

Connection type

**Custom tariff number** 



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

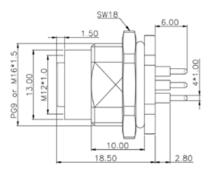
Shell material Brass with Nickel plated

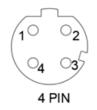
No	Number of contacts	Fastening thread	Ordering P/N
1	4	P G 9	A M 1 2 M 0 4 2 2 D 0 0 1
2	4	M16*1.5	A M 1 2 M O 4 2 2 D O O 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts:4, PCB dip-solder connection, D code, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

**Custom tariff number** 

IEC61076-2-101
Fix screw locking
Female
AM12
D
2.0N.M
Device connector,

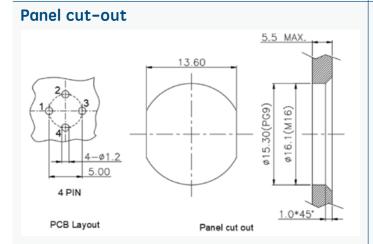
rear mount PCB dip-solder connector 85444290 China Electrical
Rated current
4A
Rated voltage
250V
Rated Impulse voltage
2500V
Insulation resistance  $\geqslant 100 \text{ M}\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Country of origin China



Material
Flammability rating Acc. to UL94V-0
Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

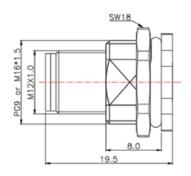
Shell material Brass with Nickel plated

No Number of contact	s Fastening thread	Ordering P/N
1 4	P G 9	A M 1 2 F 0 4 2 2 D 0 0 1
2 4	M16*1.5	A M 1 2 F 0 4 2 2 D 0 0 2



Product Description: M12 panel receptacle, rear mount, male, contacts:4, solder connection for wires, D code, straight, IP67





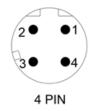


Illustration **Drawings**  Pin assignment

**Brass with Gold plated** 

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

IEC61076-2-101 Fix screw locking Male AM12 2.0N.M rear mount

Solder connection for wires

**Applicable** wire Custom tariff number Country of origin

Device connector,

85444290

China

0.34mm<sup>2</sup> / 22AWG

Electrical **Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ 

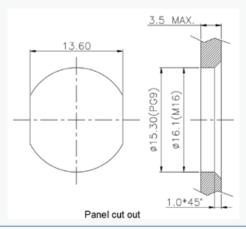
**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

Connection type



Material

**Contact material** 

Acc. to UL94V-0 Flammability rating

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

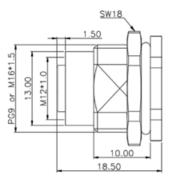
Shell material **Brass with Nickel plated** 

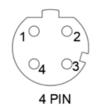
No N	Number of contacts	Fastening thread	Ordering P/N
1	4	PG9	A M 1 2 M 0 4 2 2 D 0 0 9
2	4	M16*1.5	A M 1 2 M 0 4 2 2 D 0 1 0



Product Description: M12 panel receptacle, rear mount, female, contacts:4, solder connection for wires, D code, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General Standard Locking system Gender Series Coding **Torque** Catogory

Connection type

Applicable wire

IEC61076-2-101 **Female AM12** 2.0N.M

rear mount Solder connection for

wires

0.34mm<sup>22</sup>/ 22AWG

Custom tariff number Country of origin

Fix screw locking

Device connector,

85444290 China

Electrical

**Rated current 4**A 250V Rated voltage Rated Impulse voltage 2500V

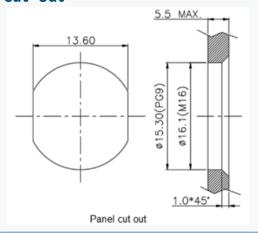
Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material Brass with Nickel plated

Sealing material Silicone

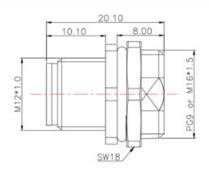
Shell material **Brass with Nickel plated** 

No	Number of contacts	Fastening thread	Ordering P/N
1	4	P G 9	A M 1 2 F 0 4 2 2 D 0 0 6
2	4	M16*1.5	A M 1 2 F 0 4 2 2 D 0 0 7



Product Description: M12 panel receptacle, front mount, male, contacts:4, solder connection for wires, D code, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

AM12

Connection type wires

**Applicable** wire

Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking

Male 2.0N.M

Device connector, front mount

Solder connection for

0.34mm<sup>2</sup> / 22AWG

85444290

China

Electrical

**Rated current 4A** 250V Rated voltage Rated Impulse voltage 2500V ≥ 100 MΩ Insulation resistance

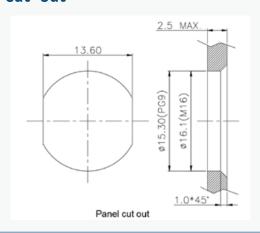
**EMC** compliance 1

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

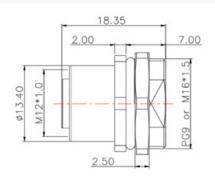
Shell material **Brass with Nickel plated** 

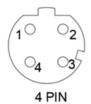
No Nu	umber of contacts	Fastening thread	Ordering P/N
1	4	P G 9	A M 12 M 0 4 2 2 D 0 1 2
2	4	M16*1.5	A M 1 2 M 0 4 2 2 D 0 1 3



Product Description: M12 panel receptacle, front mount, female, contacts:4, solder connection for wires, D code, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General Standard Locking system Gender Series Coding **Torque** Catogory

Connection type

Applicable wire

**Female AM12** 2.0N.M

Device connector, front mount

wires

0.34mm<sup>2</sup> / 22AWG

Custom tariff number Country of origin

IEC61076-2-101 Fix screw locking

Solder connection for

85444290 China

Electrical

**Rated current 4**A 250V Rated voltage

Rated Impulse voltage 2500V Insulation resistance  $\geq$  100 M $\Omega$ 

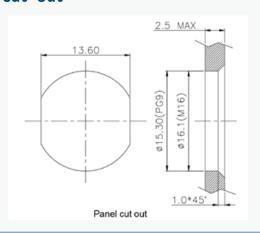
**EMC** compliance

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

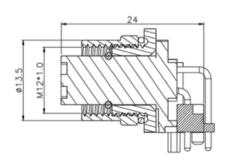
Shell material **Brass with Nickel plated** 

No	Number of contacts	Fastening thread	Ordering P/N
1	4	P G 9	A M 1 2 F 0 4 2 2 D 0 0 4
2	4	M16*1.5	A M 1 2 F 0 4 2 2 D 0 0 7



**Product Description:** M12 panel receptacle, rear mount, female, contacts:4, PCB dip-solder connection, D code, right angled, IP67





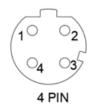


Illustration Drawings Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Custom tariff number

IEC61076-2-101
Fix screw locking
Female
AM12
D
2.0N.M
Device connector,

rear mount
PCB dip-solder
connector
85444290
China

Electrical
Rated current
4A
Rated voltage
250V
Rated Impulse voltage
2500V
Insulation resistance  $\geqslant$  100 M $\Omega$ 

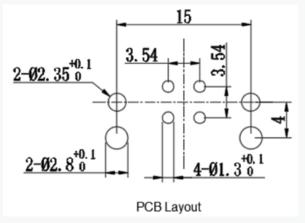
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out

Country of origin



Material

**Contact material** 

Flammability rating Acc. to UL94V-0

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

No Number of contacts

4

Fastening thread

Ordering P/N

**Brass with Gold plated** 

1

M12\*1.0

AM12F0422D005





Product Description: M12 pre-molded cable connector, male, contacts:8, solder connection, X code, straight, IP67



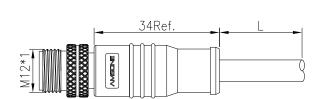




Illustration **Drawings** Pin assignment

### Technical data

General **Standard** Locking system Gender Series Coding **Torque** 

Catogory Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-109 Fix screw locking

Male AM12 0.4N.M

Pre-molded cable **Solder connection** variable

85444290 China

Electrical

**Rated current** 0.5A 60V Rated voltage Rated Impulse voltage 800V ≥ 100 MΩ Insulation resistance **EMC** compliance **Shielded** Degree of protection **IP67** 

**Mechanical operation** 

> 100 mating cycles Operating temperature -25°C ~ 85°C

Cable

Cable type **UL Style** Conductor cross section 0.14mm<sup>2</sup> 26AWG Wire gauge **PVC/TPU Jacket** -25°C ~ 85°C **Temprature** Other resistance **UV** resistant (720 h) UL 2556

Premium oil resistance (jacket)

Wire colour variable Length variable Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone Molding material **PVC/TPU** 

Certificates

No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N 1 8 variable optional AM12M0811XXXX-XXX



Product Description: M12 pre-molded cable connector, male, contacts:8,

solder connection, X code, 360° EMC shieldable, straight, IP67



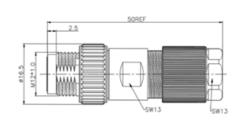




Illustration Drawings Pin assignment

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		u			I.C.	u	u	u	ш	

General **Standard** IEC61076-2-109 Locking system Fix screw locking Male Gender **AM12** Series Coding **Torque** 0.4N.M Field assembly Catogory Connection type **Screws connection** Cable outlet variable Custom tariff number 85444290 **Country of origin** China

ElectricalRated current0.5ARated voltage60VRated Impulse voltage800VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC complianceShieldedDegree of protectionIP67Mechanical operation> 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type UL Style Conductor cross section  $0.14 \text{mm}^{2^2}$  Wire gauge 26 AWG Jacket PVC/TPU Temprature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$  Other resistance UV resistant (720 h) UL 2556

(720 h) UL 2556 Premium oil resistance

(jacket)
Wire colour variable
Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

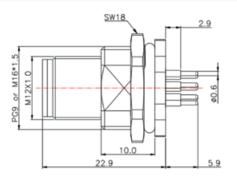
No Number of contacts Cable specification and ending EMC compliance Ordering P/N

1 8 variable shielded AM12M0814X00X-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts:8, PCB dip-solder connection, X code, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

IEC61076-2-109
Fix screw locking
Male
AM12
X
2.0N.M
Device connector,

rear mount
PCB dip-solder
connection
85444290
China

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

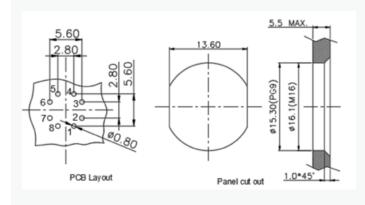
Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out

Country of origin

Connection type

Custom tariff number



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

 No Number of contacts
 Fastening thread
 Ordering P/N

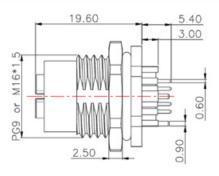
 1
 4
 PG9
 AM12M0822X001

 2
 4
 M16\*1.5
 AM12M0822X002



Product Description: M12 panel receptacle, rear mount, female, contacts:8, PCB dip-solder connection, X code, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** IEC61076-2-109 Locking system Fix screw locking Gender Female Series AM12 Coding X 2.0N.M **Torque** Pre-molded cable Catogory

**Solder connection** Connection type Custom tariff number 85444290 China

Country of origin

Electrical

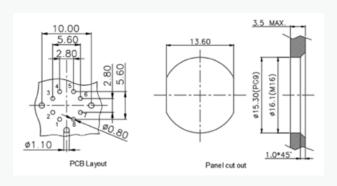
**Rated current** 0.5A 60V Rated voltage Rated Impulse voltage 800V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

Shell material **Brass with Nickel plated** 

No	Number of contacts	Fastening thread	Ordering P/N
1	8	P G 9	A M 1 2 F 0 8 2 2 X 0 0 1
2	8	M16*1.5	A M 1 2 F 0 8 2 2 X 0 0 2



Product Description: M12 panel receptacle, rear mount, female, contacts:8,

PCB dip-solder connection, X code, right angled, IP67



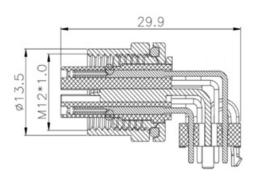




Illustration **Drawings** Pin assignment

# Technical data

General Standard Locking system Gender Series Coding

**Female AM12 Torque** 2.0N.M Catogory

rear mount Connection type PCB dip-solder connection Custom tariff number 85444290

Device connector,

IEC61076-2-109

Fix screw locking

China

Electrical **Rated current** 0.5A 60V Rated voltage Rated Impulse voltage 800V

≥ 100 MΩ Insulation resistance **EMC** compliance

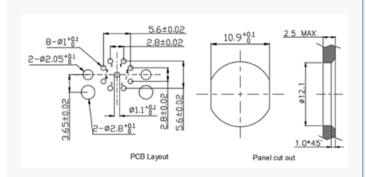
Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

Country of origin



Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material **Brass with Nickel plated** 

Certificates

No Number of contacts Fastening thread Ordering P/N 1 M12\*1.0 AM12F0822X003 8





Product Description: M12 pre-molded cable connector, male, contacts:3,4,

solder connection, T code, straight, IP67



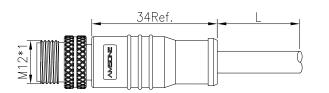






Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender Series Coding **Torque** 

Catogory Connection type Cable outlet

Custom tariff number Country of origin

IEC61076-2-111 Fix screw locking

Male AM12 0.4N.M

Pre-molded cable **Solder connection** 

variable 85444290 China

Electrical

**Rated current** 12A 63V Rated voltage Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance **EMC** compliance Optional Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Wire colour

Length

Cable type **UL Style** Conductor cross section 1.5mm<sup>2</sup> 16AWG Wire gauge **PVC/TPU Jacket** -25°C ~ 85°C **Temprature** Other resistance **UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket) variable variable

Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material **Silicone** Molding material **PVC/TPU** 

No Number of contacts Cable specification and ending **EMC** compliance Ordering P/N 1 4 AM12M0411TXXX-XXX variable optional AM12M0311TXXX-XXX 2 3



**Product Description:** M12 pre-molded cable connector, female, contacts: 3,4,

solder connection, T code, straight, IP67



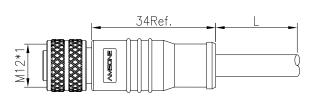






Illustration Drawings Pin assignment

### Technical data

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type
Cable outlet

Connection type
Cable outlet
Custom tariff number
Country of origin

IEC61076-2-111
Fix screw locking

Female AM12 T 0.4N.M

Pre-molded cable Solder connection variable

85444290 China Electrical

Rated current
Rated voltage
Rated Impulse voltage
Insulation resistance
EMC compliance

Degree of protection

Mechanical operation

Operating temperature

> 100 mating cycles

-25°C ~ 85°C

12A

63V

1500V

≥ 100 MΩ

**Optional** 

**IP67** 

Cable

Cable type UL Style Conductor cross section  $1.5 \text{mm}^2$  Wire gauge 16 AWG Jacket PVC/TPU Temprature  $-25 \,^{\circ}\text{C} \sim 85 \,^{\circ}\text{C}$  Other resistance UV resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable variable Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone
Molding material PVC/TPU

No Number of contacts Cable specification and ending

variable

EMC compliance

optional

Ordering P/N
AM12F0411TXXX- XXX

AM12F0311TXXX-XXX

1 4 2 3

Wire colour

Length

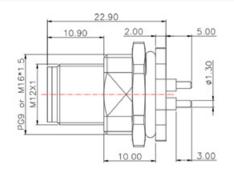
Varia



**Product Description:** M12 panel receptacle, male, contacts: 3,4,

PCB dip-solder connection, T code, straight, IP67





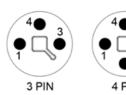


Illustration Drawings Pin assignment

## **Technical data**

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Male
Series AM12
Coding T
Torque 2.0N.M
Catogory Device connector,

rear mount

Connection type

Custom tariff number

Custom tariff number

Country of origin

Custom tariff number

Custom tariff number

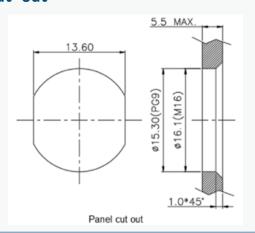
ElectricalRated current12ARated voltage63VRated Impulse voltage1500VInsulation resistance $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

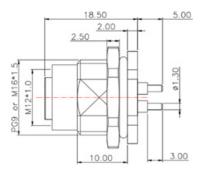
Sealing material Silicone

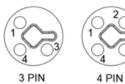
No N	umber of contacts	Fastening thread	Ordering P/N
1	3	PG9	A M 1 2 M 0 3 2 2 T 0 0 1
2	3	M16*1.5	A M 1 2 M 0 3 2 2 T 0 0 2
3	4	P G 9	A M 1 2 M 0 4 2 2 T 0 0 1
4	4	M16*1.5	A M 1 2 M 0 4 2 2 T 0 0 2



**Product Description:** M12 panel receptacle, female, contacts: 3,4, PCB dip-solder connection, T code, straight, IP67







Illustration

**Drawings** 

Pin assignment

-25°C ~ 85°C

## **Technical data**

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Female
Series AM12
Coding T
Torque 2.0N.M
Catogory Device connector rear mount

Device connector, rear mount PCB dip-solder connection 85444290 China ElectricalRated current12ARated voltage63VRated Impulse voltage1500VInsulation resistance $\geqslant$  100 M $\Omega$ EMC compliance/

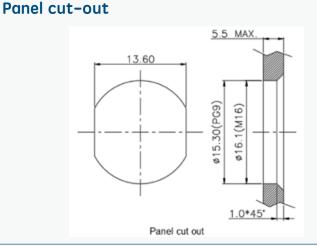
Degree of protection IP67

Mechanical operation > 100 mating cycles

Country of origin

**Custom tariff number** 

Connection type



Material

Operating temperature

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

No	Number of contacts	Fastening thread	Ordering P/N
1	3	P G 9	A M 1 2 F 0 3 2 2 T 0 0 1
2	3	M16*1.5	A M 1 2 F 0 3 2 2 T 0 0 2
3	4	P G 9	A M 1 2 F 0 4 2 2 T 0 0 1
4	4	M16*1.5	A M 1 2 F 0 4 2 2 T 0 0 2



**Product Description:** M12 panel receptacle, male, contacts: 3,4, solder connection for wires, T code, straight, IP67



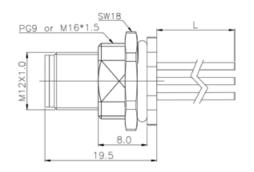






Illustration Drawings

### Pin assignment

## **Technical data**

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Male
Series AM12
Coding T
Torque 2.0N.M
Catogory Device connector, rear mount

Connection type Solder connection for wires

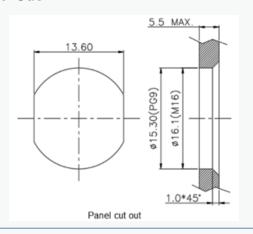
Applicable wire 1.5mm<sup>2</sup> / 16AWG Custom tariff number 85444290 Country of origin China Electrical
Rated current 12A
Rated voltage 63V
Rated Impulse voltage 1500V
Insulation resistance ≥ 100 MΩ

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

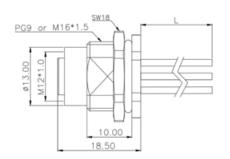
Sealing material Silicone

No	Number of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3	P G 9	AM	12M0322TXXX-XXX
2	3	M16*1.5	optional A M	12M0322TXXX-XXX
3	4	PG9	AM	12M0422TXXX-XXX
4	4	M16*1.5	AM	12M0422TXXX-XXX



**Product Description:** M12 panel receptacle, female, contacts: 3,4, solder connection for wires, T code, straight, IP67









Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Female
Series AM12
Coding T
Torque 2.0N.M
Catogory Device connector, rear mount

Connection type

Solder connection for wires

Applicable wire

1.5mm<sup>2</sup> / 16AWG

Custom tariff number

85444290

ElectricalRated current12ARated voltage63VRated Impulse voltage1500VInsulation resistance $\geqslant$  100 M $\Omega$ 

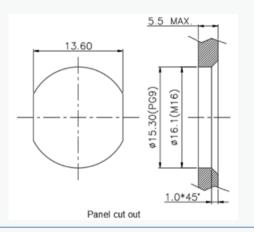
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out

Country of origin



China

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

No	Number of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3	PG9		AM12F0322TXXX-XXX
2	3	M16*1.5	optional	AM12F0322TXXX-XXX
3	4	PG9	Optional	AM12F0422TXXX-XXX
4	4	M16*1.5		AM12F0422TXXX-XXX



Product Description: M12 cable connector, male, contacts: 3, 4, field assembly type,

IEC61076-2-111

Male

Fix screw locking

screw connection, T code, straight, IP67



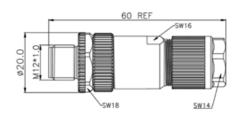






Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

AM12 0.4N.M Field assembly Connection type **Screws connection** Wire gauge(max.) 16AWG

Cable outlet OD6~8mm Custom tariff number 85444290 Country of origin China

Electrical

**Rated current** 12A Rated voltage 63V Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance **EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Material

Flammability rating Acc. to UL94V-0

Contact material **Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material **Silicone** 

Shell material **Brass with Nickel plated**  Certificates

No Number of contacts Suitable cable diameter Ordering P/N 1 3 Ø 6 - 8 m m AM12M0334T001 2 4  $\emptyset$ 6 - 8 m m AM12M0434T001



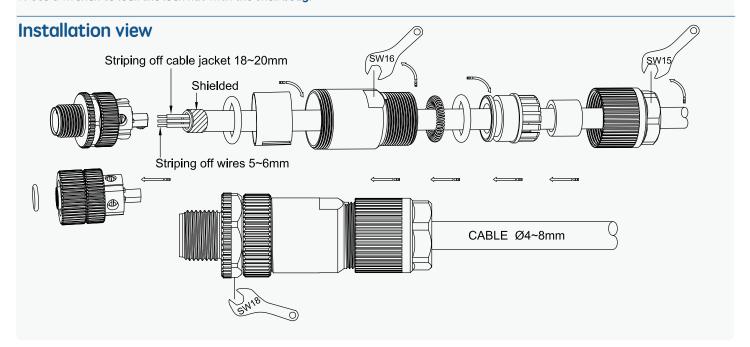


### **Connector part drawing**

## **Assembly instructions**

### **Installation steps**

- 1. Strip off the cable jacket: 18~20mm.
- 2. Install the connector parts on the cable in sequence.
- 3. Reserve the shield 5mm, fold it back to the cable jacket, and wrap it with copper foil. (If the cable has a shielded)
- 4. Strip off the conductor insulation :  $5\sim$ 6mm.
- 5. Insert the wire into the terminal hole according to the color corresponding to the pins and locking it with screws.
- 6. Insert the insulated sleeve into the shell body.
- 7. Use the corresponding wrench to locking connector and shell body.
- 8 Installation spring, O-ring, cable clamp, seal.
- 9. Use a wrench to lock the lock nut with the shell body.





Product Description: M12 cable connector, female, contacts: 3, 4, field assembly type,

screw connection, T code, straight, IP67



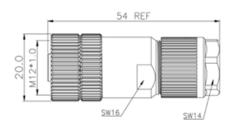






Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type Wire gauge(max.)

Cable outlet Custom tariff number Country of origin

IEC61076-2-111 Fix screw locking

Female AM12 0.4N.M Field assembly **Screws connection** 

16AWG OD6~8mm 85444290 China

Electrical

**Rated current** 12A Rated voltage 63V Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance **EMC** compliance Shieldable **IP67** 

Degree of protection

**Mechanical operation** > 100 mating cycles Operating temperature -25°C ~ 85°C

Material

Flammability rating Acc. to UL94V-0

Contact material **Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material **Silicone** 

Shell material **Brass with Nickel plated**  Certificates

No Number of contacts Suitable cable diameter Ordering P/N 1 3  $\emptyset$ 6 - 8 m m AM12F0334T001 2 AM12F0434T001 4  $\emptyset$ 6 - 8 m m



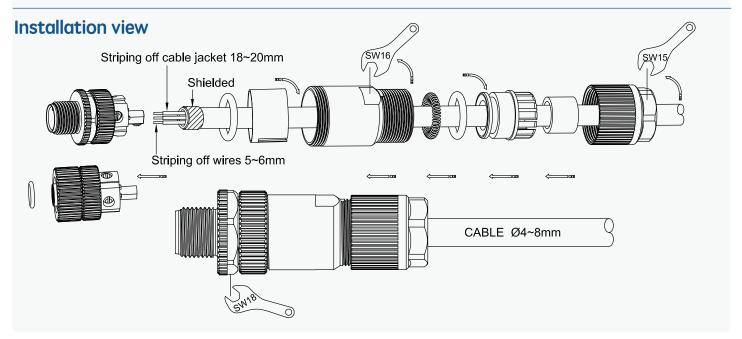


### **Connector part drawing**

# **Assembly instructions**

### **Installation steps**

- 1. Strip off the cable jacket: 18~20mm.
- 2. Install the connector parts on the cable in sequence.
- 3. Reserve the shield 5mm, fold it back to the cable jacket, and wrap it with copper foil. (If the cable has a shielded)
- 4. Strip off the conductor insulation: 5~6mm.
- 5. Insert the wire into the terminal hole according to the color corresponding to the pins and locking it with screws.
- 6. Insert the insulated sleeve into the shell body.
- 7. Use the corresponding wrench to locking connector and shell body.
- 8 Installation spring, O-ring, cable clamp, seal.
- 9. Use a wrench to lock the lock nut with the shell body.





**Product Description:** M12 pre-molded cable connector, male, contacts:3(2+PE), 4(3+PE), solder connection, S code, straight, IP67



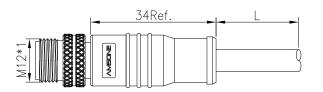






Illustration Drawings Pin assignment

### **Technical data**

General Standard Locking system Gender Series Coding

Coding
Torque
Catogory
Connection type

Cable outlet
Custom tariff number
Country of origin

IEC61076-2-111
Fix screw locking

Male AM12 S 0.4N.M

Pre-molded cable Solder connection variable

85444290 China **Electrical** 

Rated current

Rated voltage

Rated Impulse voltage

Insulation resistance

EMC compliance

Degree of protection

12A

630V

6000V

Insulation resistance  $\geqslant$  100 M $\Omega$ 

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type UL Style
Conductor cross section 1.5mm $^2$ Wire gauge 16AWG
Jacket PVC/TPU
Temprature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Other resistance UV resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable

Wire colour variable
Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Molding material PVC/TPU



**Product Description:** M12 pre-molded cable connector, female, contacts:3(2+PE), 4(3+PE), solder connection, S code, straight, IP67



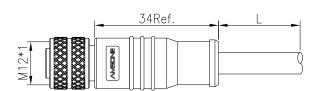






Illustration Drawings Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type

Connection type
Cable outlet
Custom tariff number
Country of origin

IEC61076-2-111
Fix screw locking
Female

Female AM12 S 0.4N.M

Pre-molded cable Solder connection variable

85444290 China **Electrical** 

Rated current

Rated voltage

Rated Impulse voltage

Insulation resistance

EMC compliance

Degree of protection

12A

630V

6000V

Insulation resistance  $\geqslant 100 \text{ M}\Omega$ 

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type UL Style
Conductor cross section 1.5mm $^2$ Wire gauge 16AWG
Jacket PVC/TPU
Temprature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Other resistance UV resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable

Wire colour variable Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

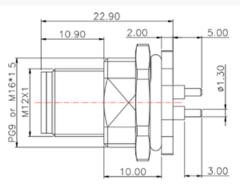
Molding material PVC/TPU

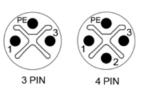
No	Number of contacts	Cable specification and ending	EMC compliance	Ordering P/N
1	3			AM12F0411SXXX-XXX
2	4	variable	optional	AM12F0311SXXX-XXX
3	5			AM12F0311SXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts:3(2+PE),4(3+PE), PCB dip-solder connection, S code, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

**Custom tariff number** 

Fix screw locking Male AM12 S 2.0N.M Devide connector,

rear mount PCB dip-solder connection 85444290 China

IEC61076-2-111

ElectricalRated current12ARated voltage630VRated Impulse voltage6000VInsulation resistance $\geqslant$  100 M $\Omega$ 

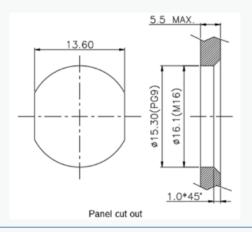
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out

Country of origin



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

No	Number of contacts	Fastening thread	Ordering P/N
1	3(2+PE)	P G 9	A M 1 2 M 0 3 2 2 S 0 0 1
2	3(2+PE)	M16*1.5	A M 1 2 M 0 3 2 2 S 0 0 2
3	4(3+PE)	P G 9	A M 1 2 M 0 4 2 2 S 0 0 1
4	4(3+PE)	M16*1.5	A M 1 2 M 0 4 2 2 S 0 0 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts:3(2+PE),4(3+PE), PCB dip-solder connection, S code, straight, IP67



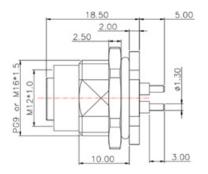




Illustration Drawings Pin assignment

### Technical data

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Female
Series AM12
Coding S
Torque 2.0N.M
Catogory Devide connector,

rear mount

Connection type

Custom tariff number

Country of origin

PCB dip-solder connection

85444290

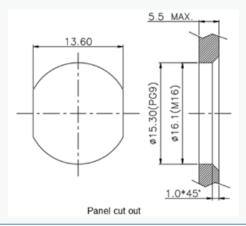
China

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

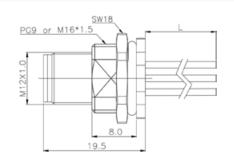
Sealing material Silicone

No	Number of contacts	Fastening thread	Ordering P/N
1	3(2+PE)	P G 9	A M 1 2 F 0 3 2 2 S 0 0 1
2	3(2+PE)	M16*1.5	A M 1 2 F 0 3 2 2 S 0 0 2
3	4(3+PE)	P G 9	A M 1 2 F 0 4 2 2 S 0 0 1
4	4(3+PE)	M16*1.5	A M 1 2 F 0 4 2 2 S 0 0 2



Product Description: M12 panel receptacle, rear mount, male, contacts: 3,4, solder connection for wires, S code, straight, IP67









Illustration

**Drawings** 

Pin assignment

# **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

2.0N.M Devide connector,

Connection type wires

Custom tariff number Country of origin

IEC61076-2-111 Fix screw locking

Male AM12

> rear mount Solder connection for

1.5mm<sup>2</sup> / 16AWG

85444290 China

Electrical

**Rated current** 12A 630V Rated voltage Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance

**EMC** compliance

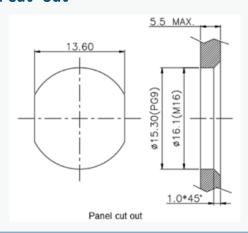
Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

**Applicable** wire



Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

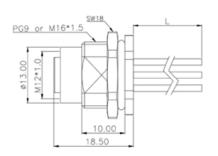
Sealing material Silicone

No Number	of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3	PG9	Α	M12M0322SXXX-XXX
2	3	M16*1.5	UL1015 or variable	M12M0322SXXX-XXX
3	4	PG9	A A	M12M0422SXXX-XXX
4	4	M16*1.5	A	M12M0422SXXX-XXX



Product Description: M12 panel receptacle, rear mount, female, contacts:3,4, solder connection for wires, S code, straight, IP67









Illustration

**Drawings** 

Pin assignment

### Technical data

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

IEC61076-2-111 Fix screw locking **Female AM12** 2.0N.M

Devide connector, rear mount

Solder connection for

wires

1.5mm<sup>2</sup> / 16AWG

Custom tariff number 85444290 Country of origin China

Electrical

**Rated current** 12A 630V Rated voltage Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1

Degree of protection **IP67** 

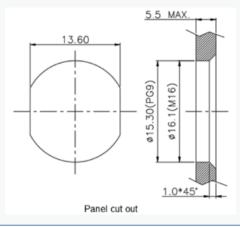
**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

### Panel cut-out

Connection type

**Applicable wire** 



#### Material

Flammability rating Acc. to UL94V-0

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

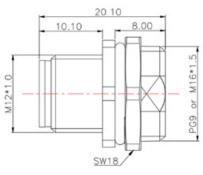
**Brass with Nickel plated** Shell material

Νο Νι	ımber of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3	PG9		AM12F0322SXXX-XXX
2	3	M16*1.5	UL1015 or variable	AM12F0322SXXX-XXX
3	4	PG9	Octors of variable	AM12F0422SXXX-XXX
4	4	M16*1.5		AM12F0422SXXX-XXX



Product Description: M12 panel receptacle, front mount, male, contacts: 3,4, solder connection for wires, S code, straight, IP67





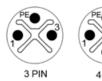


Illustration **Drawings**  Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** 

**AM12** Catogory

Connection type

**Applicable** wire Custom tariff number Country of origin

IEC61076-2-111 Fix screw locking

Male 2.0N.M

Devide connector, front mount

Solder connection for

wires

1.5mm<sup>2</sup> / 16AWG

85444290 China

Electrical

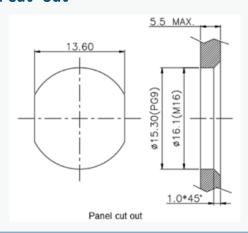
**Rated current** 12A 630V Rated voltage Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance

**EMC** compliance

Degree of protection **IP67 Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

**Brass with Gold plated Contact material** 

1

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

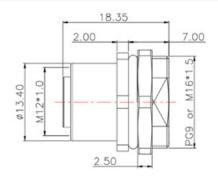
Sealing material Silicone

No Number of contacts		Fastening thread	Ordering P/N	
1	3(2+PE)	P G 9	A M 1 2 M 0 3 2 2 S 0 0 5	
2	3(2+PE)	M16*1.5	A M 1 2 M O 3 2 2 S O O 6	
3	4(3+PE)	P G 9	A M 1 2 M 0 4 2 3 S 0 0 5	
4	4(3+PE)	M16*1.5	A M 1 2 M 0 4 2 3 S 0 0 6	



**Product Description:** M12 panel receptacle, front mount, female, contacts:3,4, solder connection for wires, S code, straight, IP67









Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

IEC61076-2-111
Fix screw locking
Female
AM12
S
2.0N.M
Devide connector,
front mount

front mount
Solder connection for

wires

Applicable wire 1.5mm<sup>2</sup> / 16AWG Custom tariff number 85444290 Country of origin China Electrical Rated current

Rated voltage 630V
Rated Impulse voltage 6000V
Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /

Degree of protection IP67

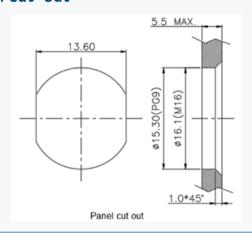
Mechanical operation > 100 mating cycles

12A

Operating temperature −25°C ~ 85°C

#### Panel cut-out

Connection type



#### Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

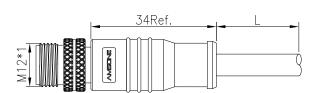
Sealing material Silicone

No Number of contacts		Fastening thread	Ordering P/N	
1	3(2+PE)	P G 9	AM12F0322S005	
2	3(2+PE)	M16*1.5	AM12F0322S006	
3	4(3+PE)	P G 9	AM12F0422S005	
4	4(3+PE)	M16*1.5	AM12F0422S006	



Product Description: M12 pre-molded cable connector, male, contacts:3,4,5, solder connection, L code, straight, IP67





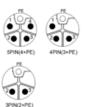


Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** 

Pre-molded cable Catogory Connection type Cable outlet variable

Custom tariff number **Country of origin** 

IEC61076-2-111 Fix screw locking Male

AM12 0.4N.M

**Solder connection** 

85444290 China

Electrical

**Rated current** 16A Rated voltage 63V Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance **EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type **UL Style** Conductor cross section 1.5mm<sup>2</sup> 16AWG Wire gauge Jacket **PVC/TPU** -25°C ~ 85°C **Temprature** Other resistance **UV** resistant

(720 h) UL 2556 Premium oil resistance

(jacket)

Wire colour variable Length variable Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone **Molding material PVC/TPU** 

No	Number of contacts	Cable specification and ending	EMC compliance	Ordering P/N
1	3(2+PE)			AM12M0311LXXX-XXX
2	4(3+PE)	variable	optional	AM12M0411LXXX-XXX
3	5(4+PE)			AM12M0511LXXX-XXX



Product Description: M12 pre-molded cable connector, female, contacts:3,4,5, solder connection, L code, straight, IP67



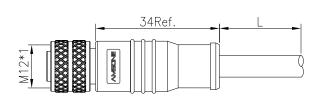




Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** 

Catogory Connection type Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-111 Fix screw locking

**Female** AM12 0.4N.M

Pre-molded cable solder connection variable

85444290 China

Electrical

**Rated current** 16A Rated voltage 63V Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance **EMC** compliance Optional Degree of protection **IP67** 

**Mechanical operation** Operating temperature

> 100 mating cycles -25°C ~ 85°C

Cable

Cable type **UL Style** Conductor cross section 1.5mm2 16AWG Wire gauge Jacket **PVC/TPU** -25°C ~ 85°C **Temprature** Other resistance **UV** resistant

(720 h) UL 2556

Premium oil resistance

(jacket)

Wire colour variable Length variable Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Ring nut material Brass with Nickel plated

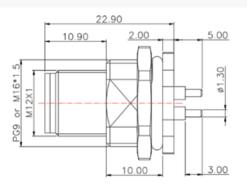
Sealing material **Silicone Molding material PVC/TPU** 

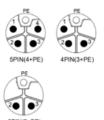
No Nu	mber of contacts	Cable specification and ending	EMC compliance	Ordering P/N
1	3(2+PE)			AM12F0311LXXX-XXX
2	4(3+PE)	variable	optional	AM12F0411LXXX-XXX
3	5(4+PE)			AM12F0511LXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, male, contacts:3,4,5, PCB dip-solder connection, L code, straight, IP67







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Male
Series AM12
Coding L
Torque 2.0N.M
Catogory Device connector, rear mount

rear mount

Connection type

Custom tariff number

Country of origin

PCB dip-solder
connection

85444290

China

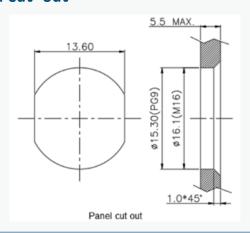
ElectricalRated current16ARated voltage63VRated Impulse voltage1500VInsulation resistance $\geqslant 100 \text{ M}\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Nickel plated

Certificates

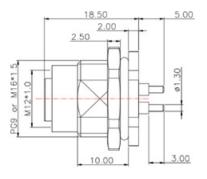
No	Number of contacts	Fastening thread	Ordering P/N
1	3(2+PE)	PG9	A M 1 2 M O 3 2 2 L O O 1
2	3(2+PE)	M16*1.5	A M 1 2 M O 3 2 2 L O O 2
3	4(3+PE)	P G 9	A M 1 2 M O 4 2 2 L O O 1
4	4(3+PE)	M16*1.5	A M 1 2 M O 4 2 2 L O O 2
5	5(4+PE)	P G 9	A M 1 2 M 0 5 2 2 L 0 0 1
6	5(4+PE)	M16*1.5	A M 1 2 M 0 5 2 2 L 0 0 2



Product Description: M12 panel receptacle, rear mount, female, contacts:3,4,5,

PCB dip-solder connection, L code, straight, IP67





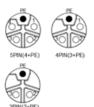


Illustration **Drawings** Pin assignment

# **Technical data**

General **Standard** IEC61076-2-111 Locking system Fix screw locking Gender **Female Series AM12** Coding **Torque** 2.0N.M Catogory Device connector, rear mount

Connection type Solder connection for wires

**Custom tariff number** 85444290 **Country of origin** China

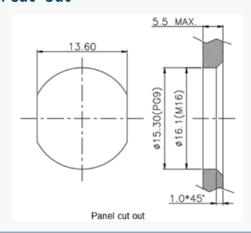
Electrical **Rated current** 16A 63V Rated voltage Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance **EMC** compliance /

Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

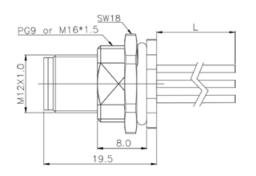
Sealing material Silicone

No	Number of contacts	Fastening thread	Ordering P/N
1	3(2+PE)	PG9	A M 1 2 F 0 3 2 2 L 0 0 1
2	3(2+PE)	M16*1.5	A M 1 2 F 0 3 2 2 L 0 0 2
3	4(3+PE)	PG9	AM12F0422L001
4	4(3+PE)	M16*1.5	A M 1 2 F 0 4 2 2 L 0 0 2
5	5(4+PE)	PG9	A M 1 2 F 0 5 2 2 L 0 0 1
6	5(4+PE)	M16*1.5	A M 1 2 F 0 5 2 2 L 0 0 2



Product Description: M12 panel receptacle, rear mount, male, contacts:3,4,5, solder connection for wires, L code, straight, IP67











Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type

Male AM12 2.0N.M Device connector, rear mount

**Applicable wire** Custom tariff number Country of origin

IEC61076-2-111 Fix screw locking

Solder connection for

wires

1.5mm<sup>2</sup> / 16AWG

85444290 China

Electrical

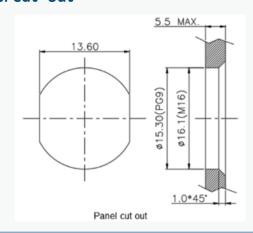
**Rated current** 16A Rated voltage 63V Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

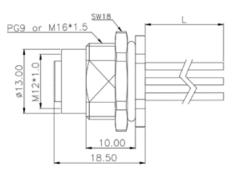
Sealing material Silicone

No	Number of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3(2+PE)	PG9		AM12M0322LXXX-XXX
2	3(2+PE)	M16*1.5		AM12M0322LXXX-XXX
3	4(3+PE)	PG9	UL1015 or variable	AM12M0422LXXX-XXX
4	4(3+PE)	M16*1.5	OLIVIS OF VARIABLE	AM12M0422LXXX-XXX
5	5(4+PE)	PG9		AM12M0522LXXX-XXX
6	5(4+PE)	M16*1.5		AM12M0522LXXX-XXX



**Product Description:** M12 panel receptacle, rear mount, female, contacts:3,4,5, solder connection connection for wires, L code, straight, IP67











Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** IEC61076-2-111 Locking system Fix screw locking Gender **Female Series AM12** Coding **Torque** 2.0N.M Device connector, Catogory rear mount Connection type Solder connection for

wires
Applicable wire 1.5mm<sup>22</sup> / 16AWG
Custom tariff number 85444290
Country of origin China

Electrical
Rated current 16A
Rated voltage 63V
Rated Impulse voltage 1500V

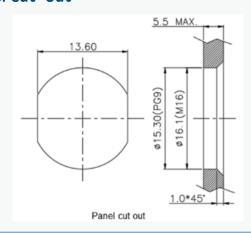
Insulation resistance  $\geqslant 100 \text{ M}\Omega$  EMC compliance /

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

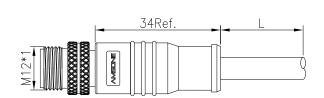
Sealing material Silicone

No	Number of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3(2+PE)	PG9		AM12F0322LXXX-XXX
2	3(2+PE)	M16*1.5		AM12F0322LXXX-XXX
3	4(3+PE)	PG9	UL1015 or variable	AM12F0422LXXX-XXX
4	4(3+PE)	M16*1.5	OLIVIS OF VARIABLE	AM12F0422LXXX-XXX
5	5(4+PE)	PG9		AM12F0522LXXX-XXX
6	5(4+PE)	M16*1.5		AM12F0522LXXX-XXX



**Product Description:** M12 pre-molded cable connector, male, contacts:3,4,5, solder connection, K code, straight, IP67





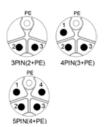


Illustration Drawings Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Catogory
Connection type
Cable outlet
Custom tariff nur

Custom tariff number Country of origin IEC61076-2-111
Fix screw locking

Male AM12 K 0.4N.M

Pre-molded cable Solder connection variable

85444290 China **Electrical** 

Rated current12ARated voltage630VRated Impulse voltage6000VInsulation resistance $\geq 100 \text{ M}\Omega$ EMC complianceOptionalDegree of protectionIP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Wire colour

Length

Cable type UL Style
Conductor cross section 1.5mm $^2$ Wire gauge 16AWG
Jacket PVC/TPU
Temprature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Other resistance UV resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable variable Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone
Molding material PVC/TPU

No	Number of contacts	Cable specification and ending	EMC compliance	Ordering P/N
1	3(2+PE)			AM12M0311KXXX-XXX

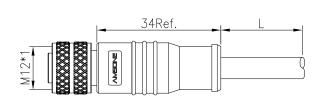
2 4(3+PE) variable optional AM12M0411KXXX-XXX

3 5(4+PE) AM12M0511KXXX-XXX



**Product Description:** M12 pre-molded cable connector, female, contacts:3,4,5, solder connection, K code, straight, IP67





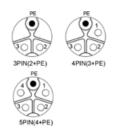


Illustration Drawings Pin assignment

### **Technical data**

General
Standard IEC6107
Locking system Fix scre
Gender Female
Series AM12
Coding K
Torque 0.4N.M
Catogory Pre-mo
Connection type Solder of

Cable outlet variable
Custom tariff number 85444290
Country of origin China

Pre-molded cable
Solder connection
variable

Degree of protection
Mechanical operation

IP67

Mechanical operation
> 100 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type UL Style
Conductor cross section 1.5mm $^{2}$ Wire gauge 16AWG
Jacket PVC/TPU
Temprature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Other resistance UV resistant

(720 h) UL 2556 Premium oil resistance

Wire colour variable
Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

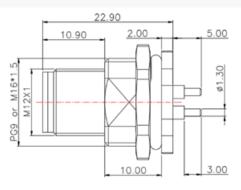
Molding material PVC/TPU

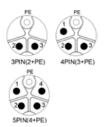
No	Number of contacts	Cable specification and ending	EMC compliance	Ordering P/N
1	3(2+PE)			AM12F0311KXXX-XXX
2	4(3+PE)	Customizable	optional	AM12F0411KXXX-XXX
3	5(4+PE)			AM12F0511KXXX-XXX



Product Description: M12 panel receptacle, rear mount, male, contacts: 3,4,5, PCB dip-solderconnection, K code, straight, IP67







Illustration

**Drawings** 

Pin assignment

# **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

AM12

Connection type

**Custom tariff number** Country of origin

IEC61076-2-111 Fix screw locking

Male 2.0N.M

Device connector, rear mount PCB dip-solder

connection 85444290 China

Electrical

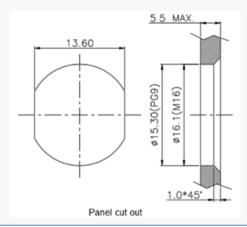
**Rated current** 12A 630V Rated voltage Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

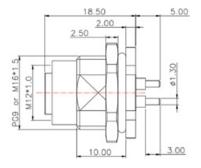
Sealing material Silicone

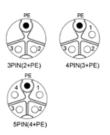
No	Number of contacts	Fastening thread	Ordering P/N
1	3(2+PE)	P G 9	A M 1 2 M O 3 2 2 K O O 1
2	3(2+PE)	M16*1.5	A M 1 2 M 0 3 2 2 K 0 0 2
3	4(3+PE)	P G 9	A M 1 2 M 0 4 2 2 K 0 0 1
4	4(3+PE)	M16*1.5	A M 1 2 M O 4 2 2 K O O 2
5	5(4+PE)	P G 9	A M 1 2 M 0 5 2 2 K 0 0 1
6	5(4+PE)	M16*1.5	A M 1 2 M 0 5 2 2 K 0 0 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts:3,4,5, PCB dip-solder connection, K code, straight, IP67







Illustration

**Drawings** 

Pin assignment

# **Technical data**

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Female
Series AM12
Coding K
Torque 2.0N.M
Catogory Device connector,

rear mount

Connection type
PCB dip-solder
connection

Custom tariff number
Country of origin
Country of origin

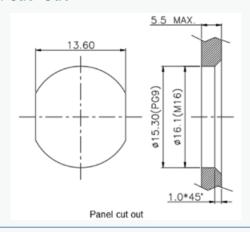
ElectricalRated current12ARated voltage630VRated Impulse voltage6000VInsulation resistance $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

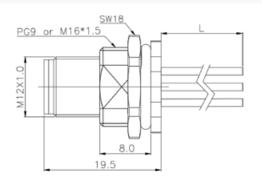
Sealing material Silicone

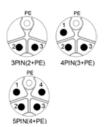
No	Number of contacts	Fastening thread	Ordering P/N
1	3(2+PE)	PG9	AM12F0322K001
2	3(2+PE)	M16*1.5	AM12F0322K002
3	4(3+PE)	P G 9	A M 1 2 F 0 4 2 2 K 0 0 1
4	4(3+PE)	M16 * 1.5	A M 1 2 F 0 4 2 2 K 0 0 2
5	5(4+PE)	P G 9	A M 1 2 F 0 5 2 2 K 0 0 1
6	5(4+PE)	M16*1.5	A M 1 2 F 0 5 2 2 K 0 0 2



Product Description: M12 panel receptacle, rear mount, male, contacts: 3,4,5, solder connection for wires, K code, straight, IP67







Illustration

**Drawings** 

Pin assignment

# Technical data

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Connection type

**Applicable** wire

Male AM12 2.0N.M Device connector,

rear mount

wires

1.5mm<sup>2</sup><sup>2</sup>/ 16AWG 85444290

Custom tariff number Country of origin

IEC61076-2-111 Fix screw locking

Solder connection for

China

Electrical

**Rated current** 12A 630V Rated voltage Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance

**EMC** compliance

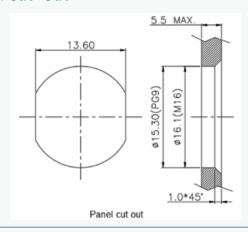
Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

1

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

Shell material **Brass with Nickel plated** 

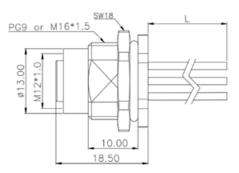
Certificates

No Number of contacts		Fastening thread	Wire specification and ending	Ordering P/N
1	3(2+PE)	P G 9		AM12M0322K17X-XXX
2	3(2+PE)	M16*1.5		AM12M0322K17X-XXX
3	4(3+PE)	PG9	UL1015 or variable	AM12M0422K17X-XXX
4	4(3+PE)	M16*1.5	Octors of variable	AM12M0422K17X-XXX
5	5(4+PE)	PG9		AM12M0522K17X-XXX
6	5(4+PE)	M16*1.5		AM12M0522K17X-XXX



**Product Description:** M12 panel receptacle, rear mount, female, contacts:3,4,5, solder connection for wires, K code, straight, IP67





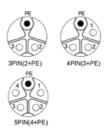


Illustration Drawings Pin assignment

### **Technical data**

General
Standard IEC61076-2-111
Locking system Fix screw locking
Gender Female
Series AM12
Coding K
Torque 2.0N.M
Catogory Device connector, rear mount

Connection type

Solder connection for wires

Applicable wire

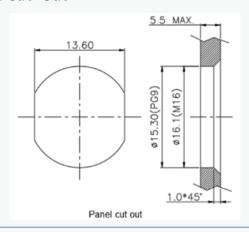
1.5mm<sup>2</sup> / 16AWG

Custom tariff number 85444290 Country of origin China EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

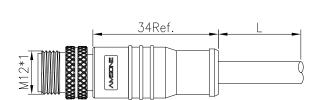
Sealing material Silicone

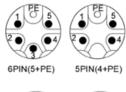
No Number of contacts		Fastening thread	Wire specification and ending	Ordering P/N
1	3(2+PE)	P G 9		AM12F0322K17X-XXX
2	3(2+PE)	M16*1.5		AM12F0322K17X-XXX
3	4(3+PE)	PG9	UL1015 or variable	AM12F0422K17X-XXX
4	4(3+PE)	M16*1.5	OLIVIS OF VALIABLE	AM12F0422K17X-XXX
5	5(4+PE)	PG9		AM12F0522K17X-XXX
6	5(4+PE)	M16*1.5		AM12F0522K17X-XXX

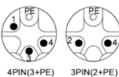


Product Description: M12 pre-molded cable connector, male, contacts: 3,4,5,6, solder connection, M code, straight, IP67









Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type

Cable outlet Custom tariff number **Country of origin** 

IEC61076-2-111 Fix screw locking Male

AM12 0.4N.M Pre-molded cable

**Solder connection** variable 85444290 China

Electrical

**Rated current 8A** 630V Rated voltage Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance **EMC** compliance **Optional** Degree of protection **IP67** 

**Mechanical operation** 

Operating temperature

> 100 mating cycles -25°C ~ 85°C

Cable

Cable type **UL Style** Conductor cross section 1.5mm<sup>22</sup> 16AWG Wire gauge Jacket **PVC/TPU** -25°C ~ 85°C **Temprature** Other resistance **UV** resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable

Wire colour Length variable Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Ring nut material **Brass with Nickel plated** 

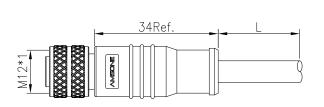
Sealing material Silicone **Molding material PVC/TPU** 

No 1	Number of contacts 3(2+PE)	Cable specification and ending	EMC compliance	Ordering P/N AM12M0311MXXX-XXX
2	4(3+PE)			AM12M0411MXXX-XXX
3	5(4+PE)	variable	optional	AM12M0511MXXX-XXX
4	6(5+PE)			AM12M0611MXXX-XXX



**Product Description:** M12 pre-molded cable connector, female, contacts:3,4,5,6, solder connection, M code, straight, IP67





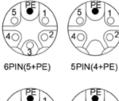






Illustration Drawings

### Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type
Cable outlet

IEC61076-2-111
Fix screw locking
Female
AM12
M
0.4N.M
Pre-molded cable
Solder connection

Cable outlet variable
Custom tariff number 85444290
Country of origin China

ElectricalRated current8ARated voltage630VRated Impulse voltage6000VInsulation resistance $\geqslant$  100 M $\Omega$ EMC complianceOptional

Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature −25°C ~ 85°C

Cable

Cable type UL Style Conductor cross section  $1.5 \text{mm}^{22}$  Wire gauge 16 AWG Jacket PVC/TPU Temprature  $-25 \,^{\circ}\text{C} \sim 85 \,^{\circ}\text{C}$  Other resistance UV resistant (720 h) UL 2556

(720 h) UL 2556
Premium oil resistance

Wire colour variable
Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

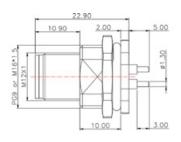
Molding material PVC/TPU

No 1	Number of contacts 3(2+PE)	Cable specification and ending	EMC compliance	Ordering P/N AM12F0311MXXX-XXX
2	4(3+PE)			AM12F0411MXXX-XXX
3	5(4+PE)	variable	optional	AM12F0511MXXX-XXX
4	6(5+PE)			AM12F0611MXXX-XXX



Product Description: M12 panel receptacle, rear mount, male, contacts: 3,4,5,6, PCB dip-solder connection, M code, straight, IP67









5PIN(4+PE)





Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender Male **Series** Coding **Torque** Catogory

**Custom tariff number** Country of origin

IEC61076-2-111 Fix screw locking

**AM12** 2.0N.M Device connector, rear mount

PCB dip-solder connection 85444290 China

Electrical

**Rated current 8A** 630V Rated voltage Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance

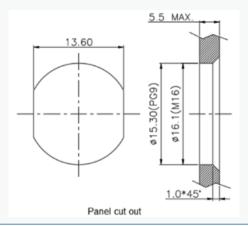
**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

Connection type



Material

Acc. to UL94V-0 Flammability rating

**Brass with Gold plated Contact material** 

**Insulation material PA66** 

Jam nut material **Brass with Nickel plated** 

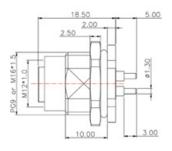
Sealing material Silicone

No	Number of contacts	Fastening thread	Ordering P/N
1	3(2+PE)	PG9	A M 1 2 M 0 3 2 2 M 0 0 1
2	3(2+PE)	M16*1.5	A M 1 2 M O 3 2 2 M O O 2
3	4(3+PE)	P G 9	A M 1 2 M 0 4 2 2 M 0 0 1
4	4(3+PE)	M16*1.5	A M 1 2 M O 4 2 2 M O O 2
5	5(4+PE)	P G 9	A M 1 2 M 0 5 2 2 M 0 0 1
6	5(4+PE)	M16*1.5	A M 1 2 M 0 5 2 2 M 0 0 2
7	6(5+PE)	P G 9	A M 1 2 M 0 6 2 2 M 0 0 1
8	6(5+PE)	M16*1.5	A M 1 2 M 0 6 2 2 M 0 0 2



**Product Description:** M12 panel receptacle, rear mount, female, contacts:3,4,5,6, PCB dip-solder connection, M code, straight, IP67









6PIN(5+PE)

5PIN(4+PE)





Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** IEC61076-2-111 Locking system Fix screw locking Gender **Female Series AM12** Coding **Torque** 2.0N.M Catogory Device connector, rear mount **Connection type** PCB dip-solder

Custom tariff number 85444290
Country of origin China

Electrical

Rated current 8A

Rated voltage 630V

Rated Impulse voltage 6000V

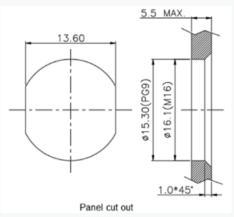
Insulation resistance ≥ 100 MΩ

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature −25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

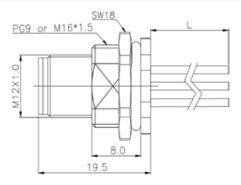
No No	umber of contacts	Fastening thread
1	3(2+PE)	PG9
2	3(2+PE)	M16*1.5
3	4(3+PE)	PG9
4	4(3+PE)	M16*1.5
5	5(4+PE)	PG9
6	5(4+PE)	M16*1.5
7	6(5+PE)	PG9
8	6(5+PE)	M16*1.5

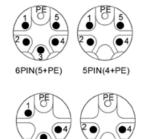
Ordering P/N					
A M 1 2 F O 3 2 2 M O O 1					
A M 1 2 F O 3 2 2 M O O 2					
A M 1 2 F O 4 2 2 M O O 1					
A M 1 2 F O 4 2 2 M O O 2					
A M 1 2 F O 5 2 2 M O O 1					
A M 1 2 F O 5 2 2 M O O 2					
A M 1 2 F O 6 2 2 M O O 1					
A M 1 2 F O 6 2 2 M O O 2					



**Product Description:** M12 panel receptacle, rear mount, male, contacts:3,4,5,6, solder connection for wires, M code, straight, IP67







Illustration

**Drawings** 

Pin assignment

3PIN(2+PE)

4PIN(3+PE)

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

IEC61076-2-111
Fix screw locking
Male
AM12
M
2.0N.M
Device connector,
rear mount

Solder connection for wires

Applicable wire 1.5mm2<sup>2</sup> / 16AWG
Custom tariff number 85444290
Country of origin China

Electrical
Rated current 8A
Rated voltage 630V

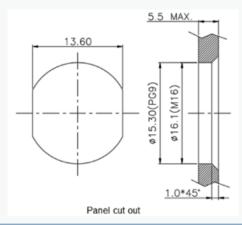
Rated Impulse voltage 6000V
Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

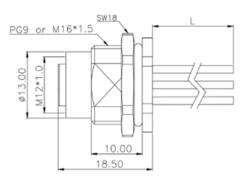
Sealing material Silicone

No	Number of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3(2+PE)	PĞ9		AM12M0322M17X-XXX
2	3(2+PE)	M16*1.5		AM12M0322M17X-XXX
3	4(3+PE)	PG9		AM12M0422M17X-XXX
4	4(3+PE)	M16*1.5	UL1015 or variable	AM12M0422M17X-XXX
5	5(4+PE)	PG9	Octors of variable	AM12M0522M17X-XXX
6	5(4+PE)	M16*1.5		AM12M0522M17X-XXX
7	6(5+PE)	PG9		AM12M0622M17X-XXX
8	6(5+PE)	M16*1.5		AM12M0622M17X-XXX



### Product Description: M12 panel receptacle, rear mount, female, contacts:3,4,5,6, solder connection for wires, M code, straight, IP67









6PIN(5+PE)

5PIN(4+PE)

4PIN(3+PE)



Illustration

**Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

**Female AM12** 2.0N.M Device connector, rear mount Solder connection for

China

IEC61076-2-111

Fix screw locking

wires 1.5mm<sup>2</sup><sup>2</sup>/ 16AWG **Applicable** wire 85444290

Custom tariff number **Country of origin** 

Electrical

**Rated current 8**A Rated voltage 630V Rated Impulse voltage 6000V ≥ 100 MΩ Insulation resistance

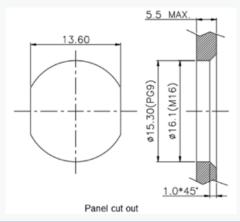
**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 100 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

Connection type



Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

**Insulation material PA66** 

Jam nut material Brass with Nickel plated

Sealing material **Silicone** 

No	Number of contacts	Fastening thread	Wire specification and ending	Ordering P/N
1	3(2+PE)	PĞ9		AM12F0322M17X-XXX
2	3(2+PE)	M16*1.5		AM12F0322M17X-XXX
3	4(3+PE)	PG9		AM12F0422M17X-XXX
4	4(3+PE)	M16*1.5	UL1015 or variable	AM12F0422M17X-XXX
5	5(4+PE)	PG9	Octors of variable	AM12F0522M17X-XXX
6	5(4+PE)	M16*1.5		AM12F0522M17X-XXX
7	6(5+PE)	PG9		AM12F0622M17X-XXX
8	6(5+PE)	M16*1.5		AM12F0622M17X-XXX







**Product Description:** M16 pre-molded cable connector, male, contacts:3,4,5,6, solder connection, straight, IP67, shieldable, UL certified



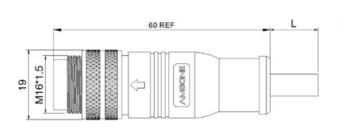










Illustration Drawings Pin assignment

	Techni	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.75mm <sup>2</sup> 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts 1 3A 2 4A 3 5A 4 6A	•	ation and length	Ordering P/N AM16M0311AXXX-XXX AM16M0411AXXX-XXX AM16M0511AXXX-XXX AM16M0611AXXX-XXX



**Product Description:** M16 pre-molded cable connector, female, contact:3,4,5,6, solder connection, straight, IP67, shieldable, UL certified



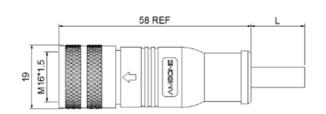










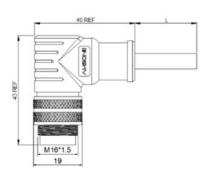
Illustration Drawings Pin assignment

•		5.0	95	· ··· designment
		Techni	ical data	
Gender Series Coding Torque Catogo Connec Cable o Custom	rd   system     ry   tion type	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour Length		UL Style 0.75mm <sup>2</sup> 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
1 3A 2 4A		iable	Ordering P/N AM16F0311AXXX-XXX AM16F0411AXXX-XXX AM16F0511AXXX-XXX	



**Product Description:** M16 pre-molded cable connector, male, contacts:3,4,5,6, solder connection, right angled, IP67, shieldable, UL certified













AM16M0511AXXX-XXX

AM16M0611AXXX-XXX

Illustration Drawings Pin assignment

	Techni	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour Length	UL Style 0.75mm <sup>2</sup> 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts 1 3A 2 4A 3 5A		ation and length	Ordering P/N AM16M0311AXXX-XXX AM16M0411AXXX-XXX

5A

6A

3

4



**Product Description:** M16 pre-molded cable connector, female, contacts:3,4,5,6, solder connection, right angled, IP67, shieldable, UL certified



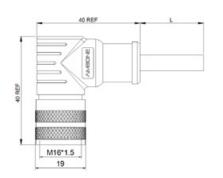










Illustration Drawings Pin assignment

	Techn	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.75mm <sup>2</sup> 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
1 3A		ation and length	Ordering P/N AM16F0311AXXX-XXX AM16F0411AXXX-XXX AM16F0511AXXX-XXX



Product Description: M16 panel receptacle, rear mount, male, contacts:3,4,5,6, PCB dip-solder connection, straight, IP67, UL certified



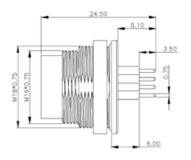










Illustration **Drawings** 

Pin assignment

### **Technical data**

General **Standard** Locking system Gender Male **Series** Coding **Torque** Catogory

**Custom tariff number** Country of origin

IEC61076-2-106 Fix screw locking

AM<sub>16</sub> 3N.M

Device connector, rear mount PCB dip-solder

connection 85444290 China

Electrical

**Rated current 5A** Rated voltage 250V Rated Impulse voltage 1500V Insulation resistance  $\geq$  100 M $\Omega$ 

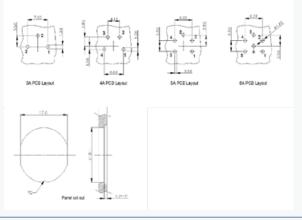
**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

Connection type



Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material Silicone

Shell material Zinc alloy with Nickel

plated

Certificates

UL c Rus

No Number of contacts		Fastening thread	Ordering P/N
1	3A		A M 1 6 M O 3 2 2 A O O 1
2	4A	M10+0 75	A M 1 6 M O 4 2 2 A O O 1
3	5A	M18*0.75	A M 1 6 M O 5 2 2 A O O 1
4	6A		A M 1 6 M O 6 2 2 A O O 1



Product Description: M16 panel receptacle, rear mount, female, contacts:3,4,5,6, PCB dip-solder connection, straight, IP67, UL certified



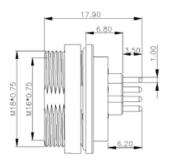










Illustration **Drawings** Pin assignment

# **Technical data**

General **Standard** IEC61076-2-106 Locking system Fix screw locking Gender **Female** Series **AM16** Coding **Torque** 3N.M Device connector, Catogory rear mount Connection type PCB dip-solder connection **Custom tariff number** 

85444290 China

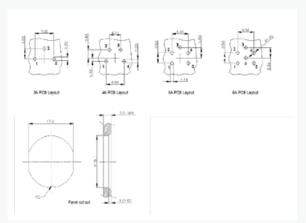
Electrical **Rated current** 5A Rated voltage 250V Rated Impulse voltage 1500V ≥ 100 MΩ Insulation resistance

**EMC** compliance 1 Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles Operating temperature -25°C ~ 85°C

Panel cut-out

Country of origin



Material

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material **Silicone** 

Shell material Zinc alloy with Nickel

plated

Certificates

UL c **PU**°us

No Number of contacts		Fastening thread	Ordering P/N
1	3A		A M 1 6 F O 3 2 2 A O O 1
2	4A	AA10+0.75	A M 1 6 F 0 4 2 2 A 0 0 1
3	5A	M18*0.75	A M 1 6 F 0 5 2 2 A 0 0 1
4	6A		A M 1 6 F 0 6 2 2 A 0 0 1



**Product Description:** M16 cable connector, male, contacts:3,4,5,6,field assembly type, solder connection, straight, IP67, UL certified



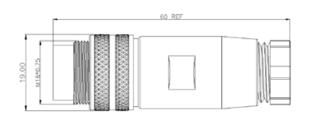






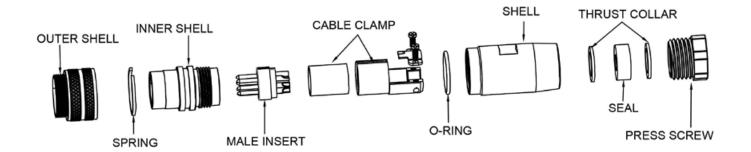




Illustration Drawings Pin assignment

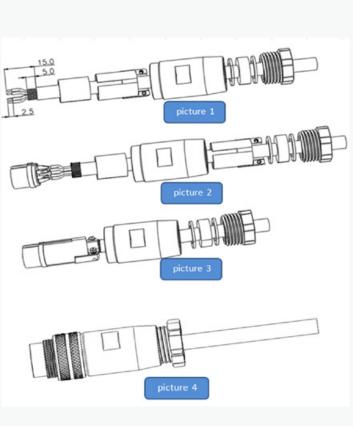
			· ··· assignment
	Tech	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Field assembly Solder connection 0.75mm² / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy with Nickel plated
1 3A		ariable	Ordering P/N A M 1 6 M 0 3 1 4 A 0 0 1 A M 1 6 M 0 4 1 4 A 0 0 1 A M 1 6 M 0 5 1 4 A 0 0 1 A M 1 6 M 0 6 1 4 A 0 0 1





### **Connector part drawing**

# **Assembly instructions**



### **Installation steps**

- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation:2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, female, contacts:3,4,5,6,field assembly type, solder connection, straight,IP67,UL certified



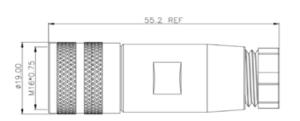






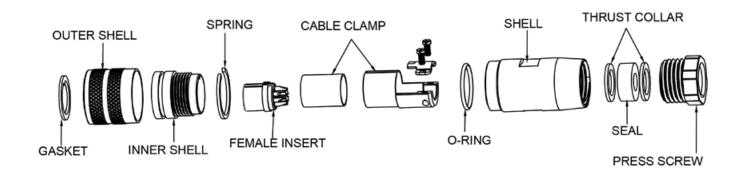




Illustration Drawings Pin assignment

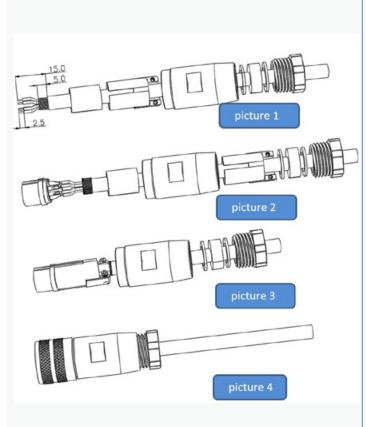
Technical data				
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Field assembly Solder connection 0.75mm <sup>2</sup> / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C	
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated	
No Number of contact 1 3A 2 4A 3 5A 4 6A	•	cation and length	Ordering P/N A M 1 6 F 0 3 1 4 A 0 0 1 A M 1 6 F 0 5 1 4 A 0 0 1 A M 1 6 F 0 6 1 4 A 0 0 1	





### **Connector part drawing**

# **Assembly instructions**



### **Installation steps**

- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation: 2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, male, contacts:3,4,5,6,field assembly type, solder connection,right angled,IP67,UL certified



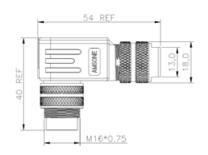






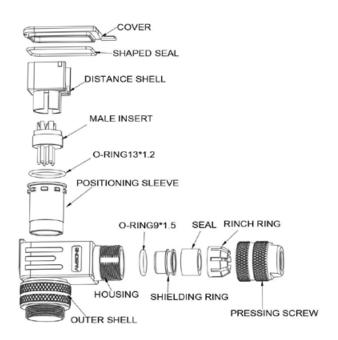




Illustration Drawings Pin assignment

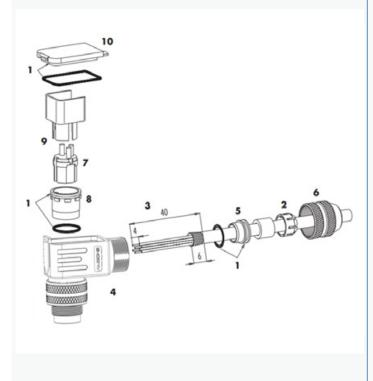
Technical data				
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Field assembly Solder connection 0.75mm <sup>2</sup> / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C	
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy with Nickel plated	
No Number of contacts 1 3A 2 4A 3 5A 4 6A	•	cation and length	Ordering P/N A M 1 6 M 0 3 1 4 A 0 0 2 A M 1 6 M 0 4 1 4 A 0 0 2 A M 1 6 M 0 5 1 4 A 0 0 2 A M 1 6 M 0 6 1 4 A 0 0 2	





**Connector part drawing** 

# **Assembly instructions**



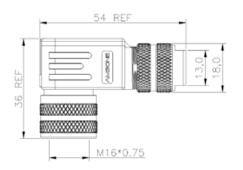
### **Installation steps**

- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



**Product Description:** M16 cable connector, female, contacts:3,4,5,6,field assembly type, solder connection,right angled,IP67,UL certified













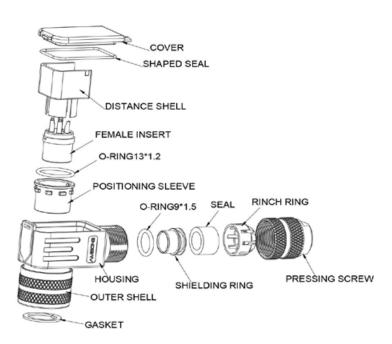
Illustration

**Drawings** 

Pin assignment

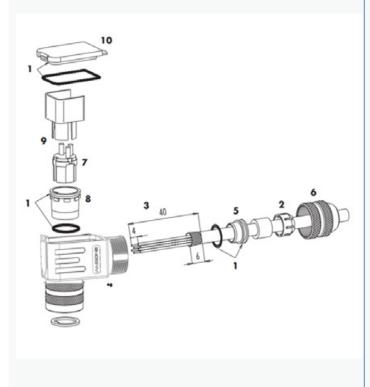
Technical data				
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Field assembly Solder connection 0.75mm½ / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C	
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy with Nickel plated	
No Number of contacts 1 3A 2 4A 3 5A 4 6A		ication and length	Ordering P/N A M 1 6 F 0 3 1 4 A 0 0 2 A M 1 6 F 0 4 1 4 A 0 0 2 A M 1 6 F 0 5 1 4 A 0 0 2 A M 1 6 F 0 6 1 4 A 0 0 2	





**Connector part drawing** 

# **Assembly instructions**

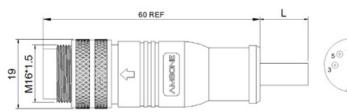


- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



**Product Description:** M16 pre-molded cable connector, male, contacts:5,7,8, solder connection, straight, IP67, shieldable, UL certified







Technical data			
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A/B 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.75mm <sup>2</sup> 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts 1 5B 2 7B 3 8A		iable	Ordering P/N AM16M0511BXXX-XXX AM16M0711BXXX-XXX AM16M0811AXXX-XXX



**Product Description:**M16 pre-molded cable connector, female, contacts:5,7,8, solder connection, straight, IP67, shieldable, UL certified



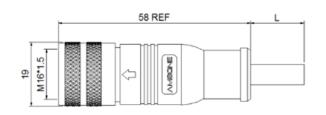








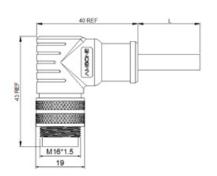
Illustration	Drawings	Pin assignment
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	Techni	cal data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance	UL Style 0.75mm² 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
Length No Number of contacts 1 5B 2 7B 3 8A		ation and length	Ordering P/N AM16F0511BXXX-XXX AM16F0711BXXX-XXX AM16F0811AXXX-XXX



**Product Description:** M16 pre-molded cable connector, male, contacts:5,7,8, solder connection, right angled, IP67, shieldable, UL certified









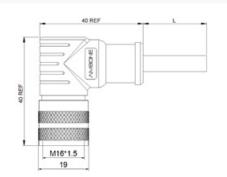


Technical data				
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A/B 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C	
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance	UL Style 0.75mm <sup>2</sup> 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU	
Length No Number of contacts 1 5B 2 7B 3 8A		ation and length	Ordering P/N AM16M0511BXXX-XXX AM16M0711BXXX-XXX AM16M0811AXXX-XXX	



**Product Description:** M16 pre-molded cable connector, female, contacts:5,7,8, solder connection, right angled, IP67, shieldable, UL certified









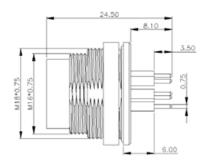


	Techni	cal data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance	UL Style 0.75mm² 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
Length No Number of contacts 1 5B 2 7B 3 8A		ition and length	Ordering P/N AM16F0511BXXX-XXX AM16F0711BXXX-XXX AM16F0811AXXX-XXX



**Product Description:** M16 panel receptacle, rear mount, male, contacts:5,7,8, PCB dip-solderconnection, straight, IP67, UL certified









 $\geq$  100 M $\Omega$ 



Illustration Drawings

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Country of origin

**Custom tariff number** 

Fix screw locking
Male
AM16
A/B
3N.M
Device connector,
rear mount
PCB dip-solder
connection
85444290

China

IEC61076-2-106

Electrical

Insulation resistance

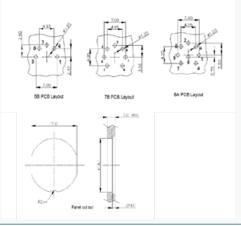
Rated current 5A
Rated voltage 60V
Rated Impulse voltage 800V

EMC compliance /
Degree of protection IP67

Mechanical operation > 500 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Zinc alloy with Nickel

plated

Certificates

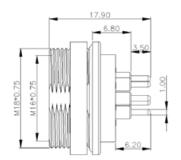
UL c Nus

No Nui	mber of contacts	Cable specification and length	Ordering P/N
1	5B		AM16M0522B001
2	7B	M18*0.75	AM16M0722B001
3	8A		AM16M0822A001



Product Description: M16 panel receptacle, rear mount, female, contacts:5,7,8, PCB dip-solder connection, straight, IP67, UL certified







5A

60V

800V

≥ 100 MΩ





Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender Series **Coding Torque** 

Connection type

AM16 A/B 3N.M Catogory

**Custom tariff number** Country of origin

IEC61076-2-106 Fix screw locking **Female** Device connector, rear mount PCB dip-solder

connection

85444290

China

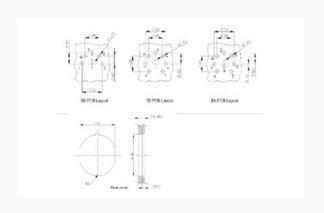
Electrical **Rated current** Rated voltage Rated Impulse voltage Insulation resistance

**EMC** compliance Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Jam nut material **Brass with Nickel plated** 

Sealing material **Silicone** 

Shell material Zinc alloy with Nickel

plated

Certificates

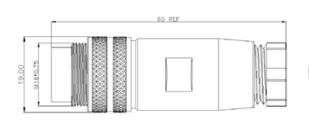
UL c SN°us

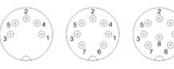
No Nu	ımber of contacts	Cable specification and length	Ordering P/N
1	5B		A M 1 6 F 0 5 2 2 B 0 0 1
2	7B	M18*0.75	A M 1 6 F 0 7 2 2 B 0 0 1
3	8 <b>A</b>		A M 1 6 F 0 8 2 2 A 0 0 2



**Product Description:** M16 cable connector, male, contacts:5,7,8,field assembly type, solder connection, straight, IP67,UL certified

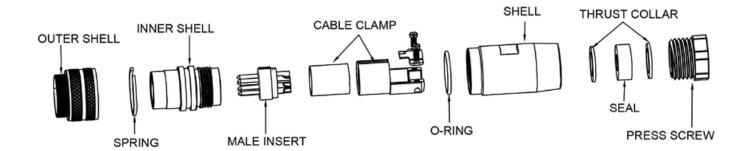






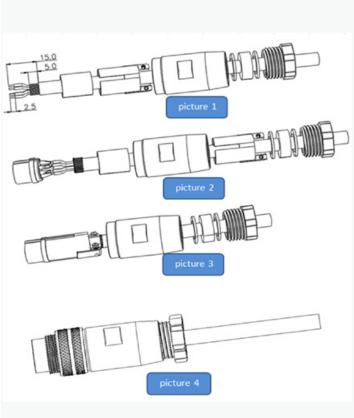
	Techi	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A/B 0.6N.M Field assembly Solder connection 0.75mm <sup>2</sup> / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 60V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated
No Number of contacts 1 5B 2 7B 3 8A	·	cation and length	Ordering P/N A M 1 6 M 0 5 1 4 B 0 0 1 A M 1 6 M 0 7 1 4 B 0 0 1 A M 1 6 M 0 8 1 4 A 0 0 1





### **Connector part drawing**

# **Assembly instructions**

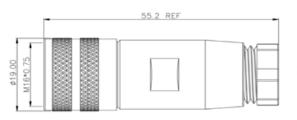


- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation:2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, female, contacts:5,7,8,field assembly type, solder connection, straight, IP67, UL certified





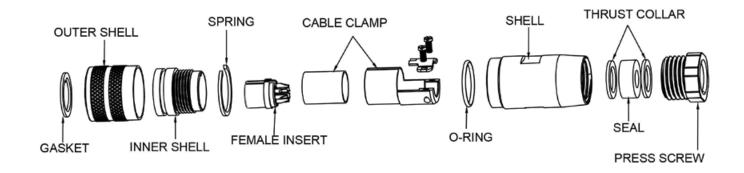






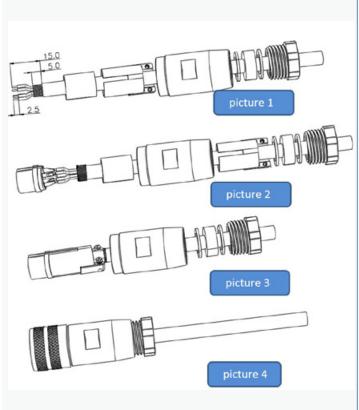
	Tech	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Field assembly Solder connection 0.75mm² / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 60V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25 ° C ~ 85 ° C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated
No Number of contacts	Cable specifi	Certificates UL cation and length	Ordering P/N AM16F0514B001
2 7B 3 8A	V	ariable	AM16F0714B001 AM16F0814A001





### **Connector part drawing**

# **Assembly instructions**

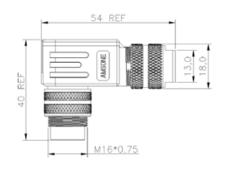


- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation: 2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, male, contacts:5,7,8,field assembly type, solder connection, right angled, IP67, UL certified











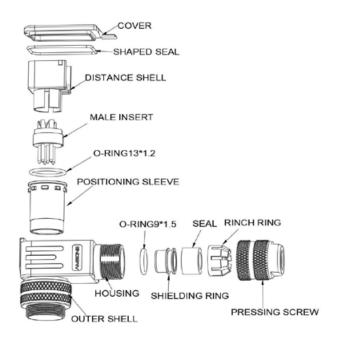
Illustration

**Drawings** 

Pin assignment

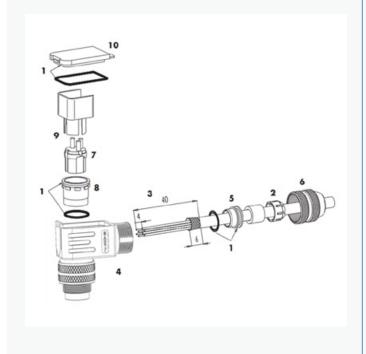
		Techr	nical data	
Wire gau Cable ou Custom	d system y ion type ige(max.)	IEC61076-2-106 Fix screw locking Male AM16 A/B 0.6N.M Field assembly Solder connection 0.75mm <sup>22</sup> / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 250V 1500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
			Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy with Nickel plated
No Num	ber of contacts 5B	Cable specific	cation and length	Ordering P/N AM16M0514B002
2	7B		ariable	AM16M0714B002
3	8A	VC	ariubie	AM16M0814A002





**Connector part drawing** 

# **Assembly instructions**

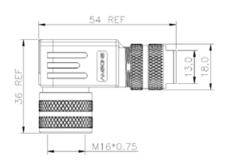


- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



**Product Description:** M16 cable connector, female, contacts:5,7,8,field assembly type,solder connection, right angled, IP67, UL certified





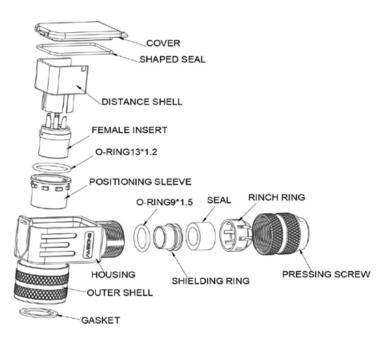






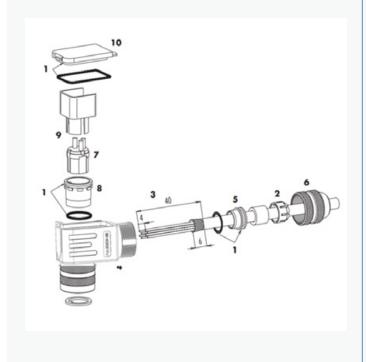
	Tech	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Field assembly Solder connection 0.75mm <sup>2</sup> / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 60V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy with Nickel plated
No Number of contacts 1 5B 2 7B 3 8A	•	cation and length	Ordering P/N AM16F0514B002 AM16F0714B002 AM16F0814A002





**Connector part drawing** 

# **Assembly instructions**

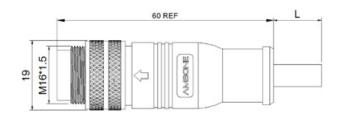


- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



Product Description: M16 pre-molded cable connector, male, contacts:7, solder connection, straight, IP67, shieldable, UL certified





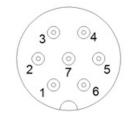


Illustration **Drawings** Pin assignment

Table			
Iec			data
	JUU	Cui	autu

General **Standard** IEC61076-2-106 Locking system Fix screw locking Male Gender AM<sub>16</sub> Series Coding **Torque** 0.6N.M Pre-molded cable Catogory Connection type **Solder connection** 

Cable outlet variable 85444290 Custom tariff number Country of origin China

Electrical **Rated current 5A** 125V Rated voltage Rated Impulse voltage 800V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance Shieldable Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

Operating temperature -25°C ~ 85°C

Cable Cable type

Length

**UL Style** 0.75mm<sup>2</sup> **Conductor cross section 18AWG** Wire gauge **Jacket PVC/TPU** 

-25°C ~ 85°C **Temprature** Other resistance **UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket) Wire colour variable variable Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone **Molding material PVC/TPU** 

Certificates

UL c Rus

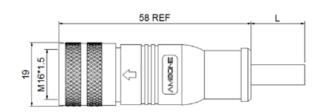
No Number of contacts Cable specification and length Ordering P/N ī **7**A variable AM16M0711AXXX-XXX



Product Description: M16 pre-molded cable connector, female, contacts:7,

solder connection, straight, IP67, shieldable, UL certified





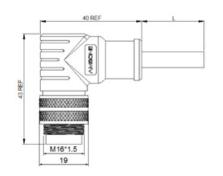


mastration	Did	Willigs	i iii assigiiiiieit		
Technical data					
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 125V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C		
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.75mm <sup>2</sup> 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU		
No Number of contacts		tion and length	Ordering P/N		
1 7A	vari	able	AM16F0711AXXX-XX		



Product Description: M16 pre-molded cable connector, male, contacts:7, solder connection, right angled, IP67, shieldable, UL certified





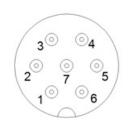


Illustration **Drawings** Pin assignment

Tec	hni	ical	do	ata

General **Standard** IEC61076-2-106 Locking system Fix screw locking Male Gender AM<sub>16</sub> Series Coding **Torque** 0.6N.M Pre-molded cable Catogory

Connection type **Solder connection** variable 85444290

Cable outlet Custom tariff number Country of origin China Electrical **Rated current** 5A 125V Rated voltage Rated Impulse voltage 800V Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance Shieldable Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

Operating temperature -25°C ~ 85°C

Cable **UL Style** Cable type 0.75mm<sup>2</sup> **Conductor cross section 18AWG** Wire gauge **Jacket PVC/TPU** 

-25°C ~ 85°C **Temprature** Other resistance **UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket) Wire colour variable Length variable Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material Silicone **Molding material PVC/TPU** 

Certificates

UL c Rus

No Number of contacts Cable specification and length Ordering P/N 1 **7A** variable AM16M0711AXXX-XXX



**Product Description:** M16 pre-molded cable connector, female, contacts:7,

solder connection, right angled, IP67, shieldable, UL certified



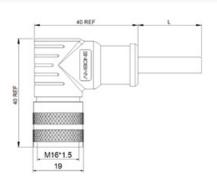




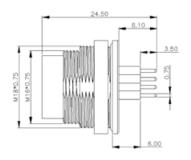
Illustration Pin assignment **Drawings** 

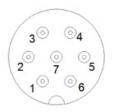
	Techni	cal data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 125V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour Length	UL Style 0.75mm² 18AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts	Cable specifica	tion and length	Ordering P/N
1 7A	vari	able	AM16F0711AXXX-XX



Product Description: M16 panel receptacle, rear mount, male, contacts:7, PCB dip-solder connection, straight, IP67, UL certified







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** Locking system Gender Series **Coding Torque** 

Connection type

Catogory

Wire gauge (max.) Cable outlet

**Custom tariff number** Country of origin

IEC61076-2-106 Fix screw locking

Male **AM16** 3N.M

Device connector, rear mount PCB dip-solder connection

85444290 China

Electrical

**Rated current** Rated voltage

Rated Impulse voltage Insulation resistance

**EMC** compliance

Degree of protection **Mechanical operation** 

Operating temperature

**5A** 

125V **V008** 

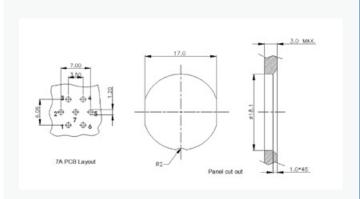
 $\geq$  100 M $\Omega$ 

**IP67** 

> 500 mating cycles

-25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating

**Contact material** 

Insulation material

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**Brass with Nickel plated** 

Silicone

Zinc alloy with Nickel

plated

Certificates

UL

c Rus

No Number of contacts

1

**7A** 

Fastening thread M18\*0.75

Ordering P/N A M 1 6 M O 7 2 2 A O O 1

**Missiontech** 



Product Description: M16 panel receptacle, rear mount, female, contacts:7, PCB dip-solder connection, straight, IP67, UL certified



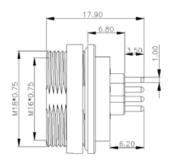




Illustration **Drawings** 

Pin assignment

### **Technical data**

General Standard Locking system Gender **Series** Coding **Torque** Catogory

**Connection type** Wire gauge (max.)

Cable outlet **Custom tariff number Country of origin** 

IEC61076-2-106 Fix screw locking **Female AM16** 

**3N.M** Device connector, rear mount PCB dip-solder connection

85444290 China

**Electrical Rated current** Rated voltage

Rated Impulse voltage 800V Insulation resistance ≥ 100 MΩ

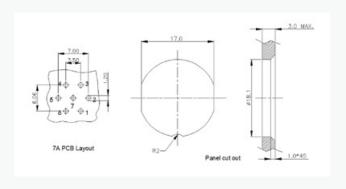
**EMC** compliance

Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out



#### Material

Flammability rating **Contact material** 

Insulation material

Jam nut material

Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**5A** 

125V

**Brass with Nickel plated** 

**Silicone** 

Zinc alloy with Nickel

plated

Certificates

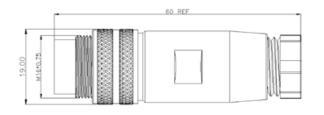
UL c AL us

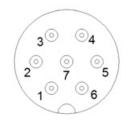
No Number of contacts Fastening thread Ordering P/N 1 **7A** M18\*0.75 AM16F0722A001



**Product Description:** M16 cable connector, male, contacts:7, field assembly type, solder connection, straight, IP67, UL certified

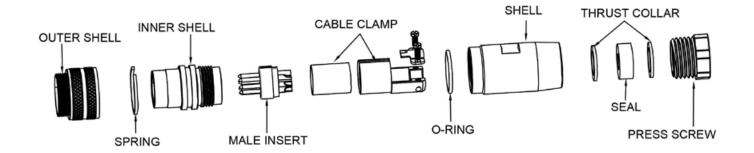






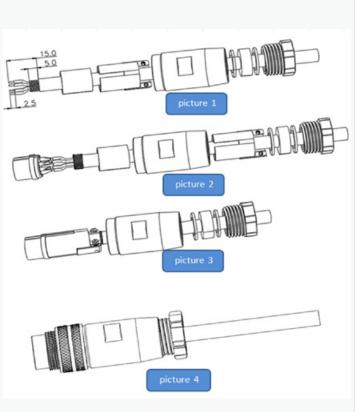
	Techr	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Field assembly Solder connection 0.75mm² / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 125V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated
		Certificates UL	c <b>-N</b> °us
No Number of contacts	Fasten	ing thread	Ordering P/N
1 7A	VO	ıriable	A M 1 6 M 0 7 1 4 A 0 0 1





### **Connector part drawing**

# **Assembly instructions**

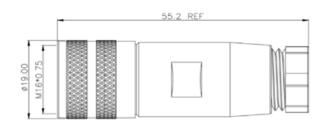


- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation:2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, female, contacts:7, field assembly type, solder connection, straight, IP67, UL certified

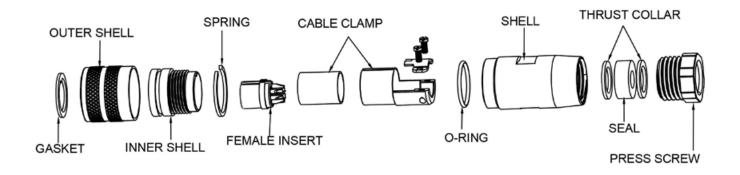






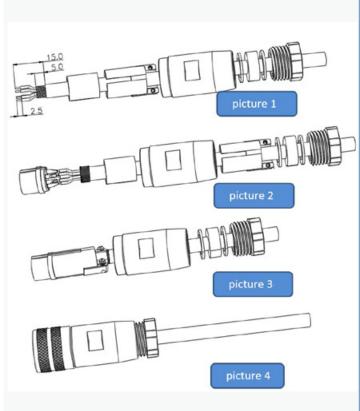
			· · · · · · · · · · · · · · · · · · ·
	Tech	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Field assembly Solder connection 0.75mm <sup>2</sup> / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 125V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated
		Certificates UL	c <b>FN</b> °us
No Number of contacts	Cable specifi	cation and length	Ordering P/N
1 7A	V	ariable	A M 1 6 F 0 7 1 4 A 0 0





### **Connector part drawing**

# **Assembly instructions**

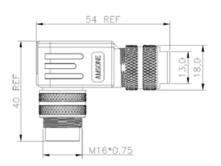


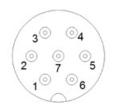
- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation: 2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, male, contacts:7, field assembly type, solder connection, right angled, IP67, UL certified

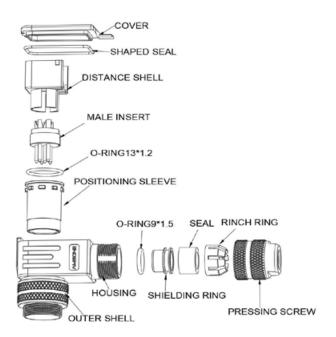






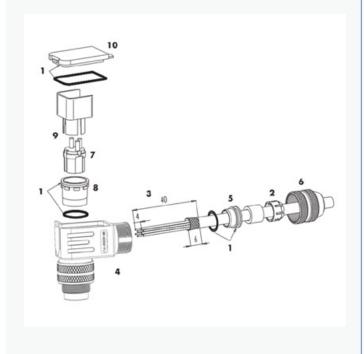
	Tech	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Field assembly Solder connection 0.75mm² / 18AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	5A 125V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy with Nickel plated
No Number of contacts	Cable specifi	 cation and length	Ordering P/N
1 7A	•	ariable	A M 16 M 0 7 1 4 A 0 0 3





**Connector part drawing** 

# **Assembly instructions**

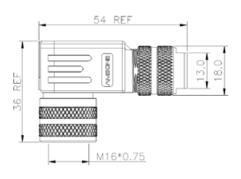


- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



Product Description: M16 cable connector, female, contacts:7, field assembly type, solder connection, right angled, IP67,UL certified







Illustration

**Drawings** 

Pin assignment

#### **Technical data** General Electrical **Standard** IEC61076-2-106 **Rated current** 5A Locking system Fix screw locking Rated voltage 125V Female Gender Rated Impulse voltage **V008 Series** AM<sub>16</sub> ≥ 100 MΩ Coding Insulation resistance **Torque** 0.6N.M **EMC** compliance **Shielded** Field assembly Catogory Degree of protection **IP67 Solder connection** Connection type Wire gauge(max.) 0.75mm<sup>2</sup> / 18AWG **Mechanical operation** > 500 mating cycles Cable outlet 6~8mm Operating temperature -25°C ~ 85°C **Custom tariff number** 85444290 China Country of origin Material Acc. to UL94V-0 Flammability rating **Contact material Brass with Gold plated Insulation material PA66** Ring nut material **Brass with Nickel plated** Sealing material Silicone Shell material Zinc alloy with Nickel plated

No Number of contacts Cable specification and length 1

Ordering P/N AM16M0714A002

c Rus

**7A** 

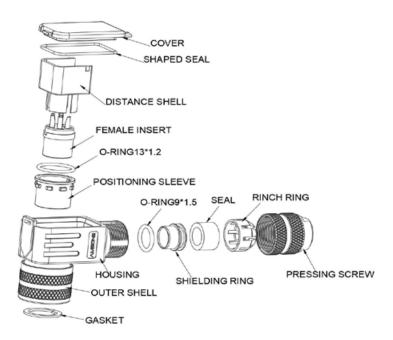
variable

Certificates

UL

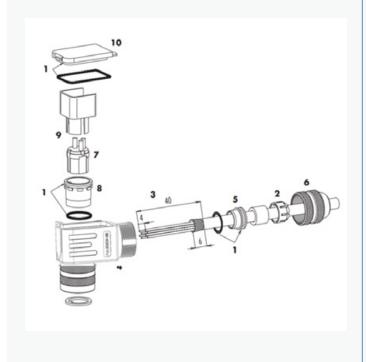






**Connector part drawing** 

# **Assembly instructions**



- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



**Product Description:** M16 pre-molded cable connector, male, contacts:12,14,16,19, solder connection, straight, IP67, shieldable, UL certified



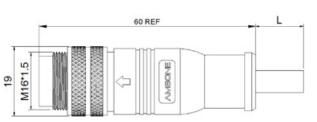










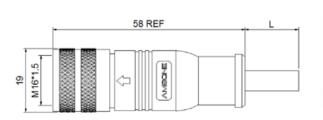
Illustration	Drawings	Pin assignment
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Technical data				
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A/B 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	3A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C	
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.25mm²² 24AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU	
No Number of contacts  1 12A 2 14A 3 14B 4 16A 5 19A	Cable specifica	tion and length	Ordering P/N  AM16M1211AXXX-XXX  AM16M1411AXXX-XXX  AM16M1411BXXX-XXX  AM16M1611AXXX-XXX  AM16M1911AXXX-XXX	



**Product Description:** M16 pre-molded cable connector, female, contacts:12,14,16,19, solder connection, straight, IP67, shieldable, UL certified













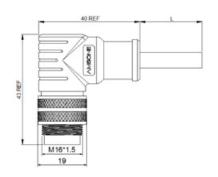


Technical data				
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Pre-molded cable Solder connection 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	3A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C	
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 0.25mm <sup>2</sup> 24AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU	
No Number of contacts  1	Cable specifico	ition and length	Ordering P/N  AM16F1211AXXX-XXX  AM16F1411AXXX-XXX  AM16F1411BXXX-XXX  AM16F1611AXXX-XXX  AM16F1911AXXX-XXX	



**Product Description:** M16 pre-molded cable connector, male, contacts:12,14,16,19, solder connection, right angled, IP67, shieldable, UL certified















AM16M1911AXXX-XXX

Illustration Drawings Pin assignment

Technical data				
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A/B 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	3A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C	
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance	UL Style 0.25mm² 24AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU	
Length No Number of contacts  1 12A 2 14A 3 14B 4 16A		ition and length	Ordering P/N  AM16M1211AXXX-XXX  AM16M1411AXXX-XXX  AM16M1411BXXX-XXX  AM16M1611AXXX-XXX	

19A

3

4

5

14B

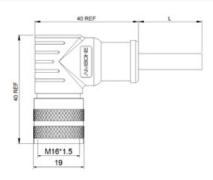
16A

19A



**Product Description:** M16 pre-molded cable connector, female, contacts:12,14,16,19, solder connection, right angled, IP67, shieldable, UL certified















AM16F1411BXXX-XXX

AM16F1611AXXX-XXX

AM16F1911AXXX-XXX

Illustration Drawings Pin assignment

Technical data			
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Pre-molded cable Solder connection variable 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	3A 60V 800V ≥ 100 MΩ Shieldable IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour Length	UL Style 0.25mm² 24AWG PVC/TPU -25°C ~ 85°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone PVC/TPU
No Number of contacts  1 12A 2 14A	Cable specifica	ition and length	Ordering P/N AM16F1211AXXX-XXX

variable



**Product Description:** M16 panel receptacle, rear mount, male, contacts:12,14,16,19, PCB dip-solder connection, straight, IP67, UL certified



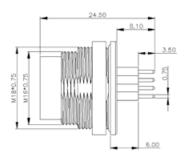












Illustration Drawings Pin assignment

### **Technical data**

General **Standard** IEC61076-2-106 Locking system Fix screw locking Gender Male **Series** AM<sub>16</sub> Coding A/B **Torque** 3N.M Device connector, Catogory rear mount Connection type

Connection type PCB dip-solder connection
Custom tariff number 85444290
Country of origin China

Electrical
Rated current 3A
Rated voltage 60V
Rated Impulse voltage 800V
Insulation resistance  $\geqslant$  100 M $\Omega$ 

Insulation resistance ≥ 100

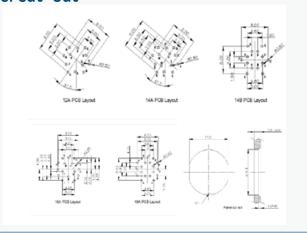
EMC compliance /

Degree of protection IP67

Mechanical operation > 500 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Zinc alloy with Nickel

plated

Certificates

UL c**R**us

No Number of contacts		Fastening thread	Ordering P/N
1	12A		A M 1 6 M 1 2 2 2 A 0 0 1
2	14A		A M 1 6 M 1 4 2 2 A 0 0 1
3	14B	M18*0.75	A M 1 6 M 1 4 2 2 B 0 0 1
4	16A		A M 1 6 M 1 6 2 2 A 0 0 1
5	19A		A M 1 6 M 1 9 2 2 A 0 0 1



Product Description: M16 panel receptacle, rear mount, female, contacts:12,14,16,19, PCB connection, straight, IP67, UL certified



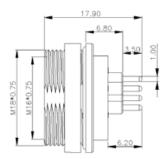












Illustration **Drawings** Pin assignment

### **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory **Connection type** 

**Custom tariff number** 

IEC61076-2-106 Fix screw locking **Female AM16** A/B 3N.M Device connector, rear mount PCB dip-solder connection 85444290 China

Electrical **Rated current 3A** 60V Rated voltage Rated Impulse voltage 800V ≥ 100 MΩ Insulation resistance

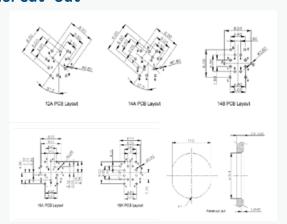
**EMC** compliance Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

Operating temperature -25°C ~ 85°C

#### Panel cut-out

Country of origin



Material Flammability rating **Contact material** Jam nut material

**Insulation material** Sealing material Shell material

Acc. to UL94V-0 **Brass with Gold plated PA66 Brass with Nickel plated** Silicone

Zinc alloy with Nickel

plated

Certificates

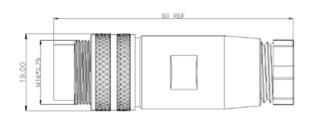
UL c Rus

No Number of contacts		Fastening thread	Ordering P/N
1	12A		A M 1 6 F 1 2 2 2 A 0 0 1
2	14A		A M 1 6 F 1 4 2 2 A 0 0 1
3	14B	M18*0.75	A M 1 6 F 1 4 2 2 B 0 0 1
4	16A		A M 1 6 F 1 6 2 2 A 0 0 1
5	19A		A M 1 6 F 1 9 2 2 A 0 0 1



**Product Description:** M16 cable connector, male, contacts:12,14,16,19,field assembly type, solder connection, straight, IP67, UL certified









AM16M1914A001





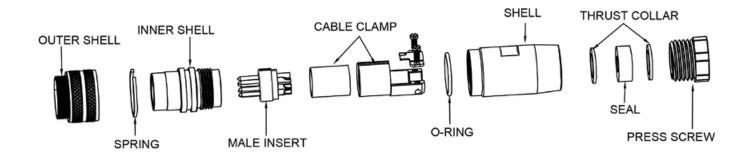


Illustration Drawings Pin assignment

	Techi	nical data		
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A/B 0.6N.M Field assembly Solder connection 0.25mm <sup>2</sup> / 24AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	3A 60V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C	
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated	
		Certificates	c <b>FN</b> °us	
No Number of contacts  1		cation and length	Ordering P/N A M 1 6 M 1 2 1 4 A 0 0 1 A M 1 6 M 1 4 1 4 A 0 0 1 A M 1 6 M 1 4 1 4 B 0 0 1 A M 1 6 M 1 6 1 4 A 0 0 1	

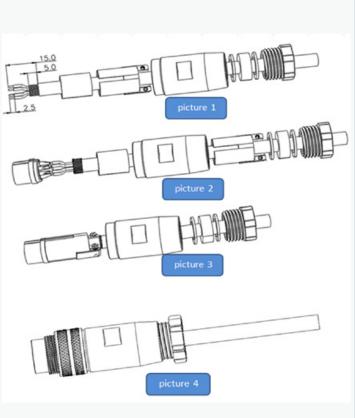
19A





#### **Connector part drawing**

### **Assembly instructions**

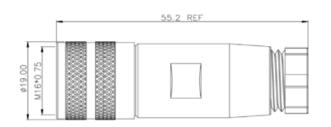


- 1. Strip the external sheath:15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation: 2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, female, contacts:12,14,16,19, field assembly type, solder connection, straight, IP67, UL certified











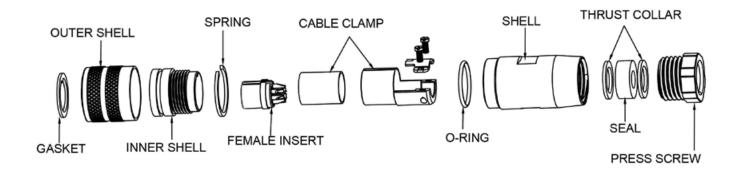




### Illustration Drawings Pin assignment

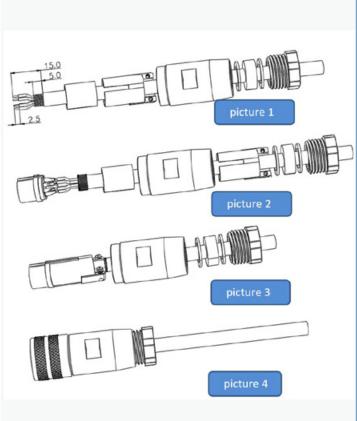
	Techr	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Field assembly Solder connection 0.25mm² / 24AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	3A 60V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated
No Number of contact  1 12A 2 14A 3 14B 4 16A 5 19A		cation and length	Ordering P/N  A M 1 6 F 1 2 1 4 A 0 0 1  A M 1 6 F 1 4 1 4 A 0 0 1  A M 1 6 F 1 4 1 4 B 0 0 1  A M 1 6 F 1 6 1 4 A 0 0 1  A M 1 6 F 1 9 1 4 A 0 0 1





#### **Connector part drawing**

### **Assembly instructions**



- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation: 2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, male, contacts:12,14,16,19, field assembly type, solder connection, right angled, IP67, UL certified



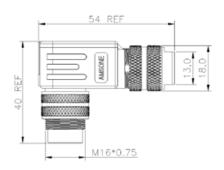












Illustration Drawings

Pin assignment

# Technical data

General **Standard** IEC61076-2-106 Locking system Fix screw locking Gender Male **Series** AM<sub>16</sub> Coding A/B **Torque** 0.6N.M Catogory Field assembly **Solder connection** Connection type Wire gauge(max.) 0.25mm<sup>2</sup> / 24AWG Cable outlet 6~8mm Custom tariff number 85444290 China Country of origin

ElectricalRated current3ARated voltage60VRated Impulse voltage800VInsulation resistance $\geqslant 100 \text{ M}\Omega$ EMC complianceShielded

Degree of protection IP67

Mechanical operation > 500 mating cycles

Operating temperature −25°C ~ 85°C

**Material** 

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Shell material Zinc alloy with Nickel

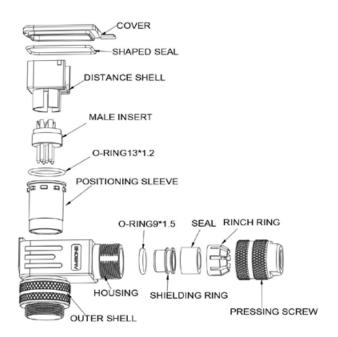
plated

Certificates

UL c Su'us

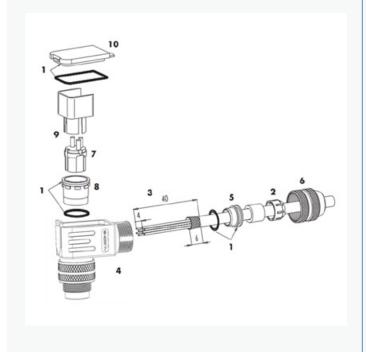
No Number of contacts		Cable specification and length	Ordering P/N
1	12A		AM16M1214A002
2	14A		AM16M1414A002
3	14B	variable	AM16M1414B002
4	16A		AM16M1614A002
5	19A		AM16M1914A002





**Connector part drawing** 

### **Assembly instructions**



- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



**Product Description:** M16 cable connector, female, contacts:12,14,16,19, field assembly type, solder connection, right angled, IP67, UL certified



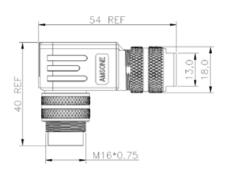










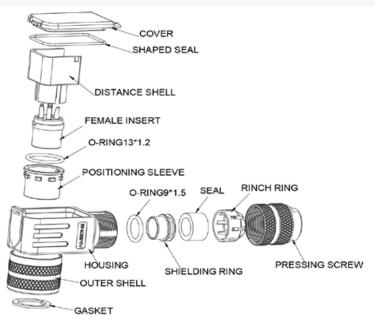


Illustration Drawings Pin assignment

	Techi	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A/B 0.6N.M Field assembly Solder connection 0.25mm <sup>2</sup> / 24AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	3A 60V 800V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material Certificates UL	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy with Nickel plated
No Number of contacts  1 12A 2 14A 3 14B 4 16A 5 19A	·	cation and length	Ordering P/N  AM16F1214A002  AM16F1414A002  AM16F1614A002  AM16F1914A002

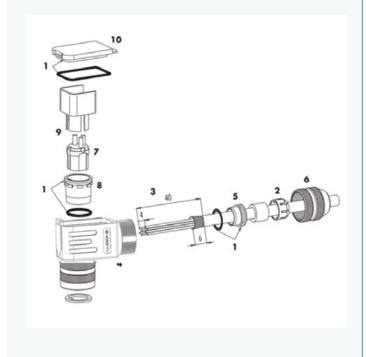


**Product Description:** M16 cable connector, female, contacts:12,14,16,19, field assembly type, solder connection, right angled, IP67, UL certified



**Connector part drawing** 

### **Assembly instructions**



- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



Product Description: M16 pre-molded cable connector, male, contacts:24, solder connection, straight, IP67, shieldable, UL certified



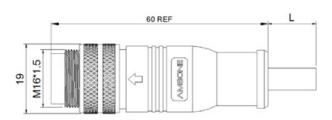




Illustration **Drawings** Pin assignment

#### **Technical data**

General **Standard** IEC61076-2-106 Locking system Fix screw locking Male Gender AM<sub>16</sub> Series Coding **Torque** 0.6N.M Pre-molded cable Catogory Connection type **Solder connection** Cable outlet variable

Custom tariff number 85444290 **Country of origin** China

Electrical **Rated current 1A** 60V Rated voltage Rated Impulse voltage 500V Insulation resistance  $\geq$  100 M $\Omega$ Shieldable **EMC** compliance

Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

-25°C ~ 85°C **Operating temperature** 

Cable

Wire colour

Length

Cable type **UL Style** Conductor cross section 0.14mm<sup>2</sup> 26AWG Wire gauge **PVC/TPU** Jacket -25°C ~ 85°C **Temprature** Other resistance **UV** resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable variable

Material

Flammability rating Acc. to UL94V-0

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material **Silicone Molding material PVC/TPU** 

Certificates

UL c Rus

No Number of contacts Cable specification and length Ordering P/N

1 24A variable AM16M2411AXXX-XXX



Product Description: M16 pre-molded cable connector, female, contacts:24, solder connection, straight, IP67, shieldable, UL certified



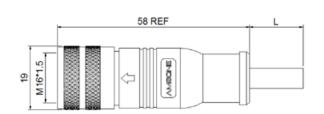




Illustration **Drawings** Pin assignment

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General Standard Locking system Gender **Series** Coding **Torque** Catogory Connection type Cable outlet

Custom tariff number **Country of origin** 

IEC61076-2-106 Fix screw locking Female

**AM16** 0.6N.M Pre-molded cable

Solder connection variable 85444290 China

Electrical **Rated current 1A** 60V Rated voltage Rated Impulse voltage 500V

Insulation resistance ≥ 100 MΩ Shieldable **EMC** compliance Degree of protection **IP67** 

**Mechanical operation** > 500 mating cycles

Operating temperature -25°C ~ 85°C

Cable

Cable type **Conductor cross section** Wire gauge Jacket **Temprature** Other resistance

Wire colour Length

**UL Style** 0.14mm<sup>2</sup> 26AWG

**PVC/TPU** -25°C ~ 85°C **UV** resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable variable Material

Acc. to UL94V-0 Flammability rating

**Contact material Brass with Gold plated** 

Insulation material **PA66** 

Ring nut material **Brass with Nickel plated** 

Sealing material **Silicone Molding material PVC/TPU** 

Certificates

UL c Rus

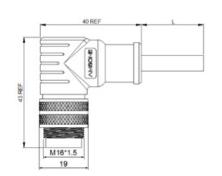
No Number of contacts Cable specification and length Ordering P/N

1 24A variable AM16F2411AXXX-XXX



Product Description: M16 pre-molded cable connector, male, contacts:24, solder connection, right angled, IP67, shieldable, UL certified





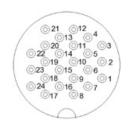


Illustration **Drawings** Pin assignment

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General Electrical **Standard** IEC61076-2-106 **Rated current 1A** Locking system Fix screw locking 60V Rated voltage Male Gender Rated Impulse voltage 500V AM<sub>16</sub> Series Coding Insulation resistance  $\geq$  100 M $\Omega$ 0.6N.M **Torque** Shieldable **EMC** compliance Pre-molded cable Catogory Degree of protection **IP67** Connection type **Solder connection** Cable outlet variable **Mechanical operation** > 500 mating cycles Custom tariff number 85444290 -25°C ~ 85°C **Operating temperature** Country of origin China Cable Material Cable type **UL Style** Flammability rating Acc. to UL94V-0 **Conductor cross section** 0.14mm<sup>2</sup> **Contact material Brass with Gold plated** Wire gauge 26AWG Insulation material **PA66 Jacket** PVC/TPU Ring nut material **Brass with Nickel plated Temprature** -25°C ~ 85°C Other resistance **UV** resistant Sealing material **Silicone** (720 h) UL 2556 **Molding material PVC/TPU** Premium oil resistance (jacket) Wire colour variable Certificates

No Number of contacts Cable specification and length Ordering P/N

variable

1 24A variable AM16M2411AXXX-XXX

UL

c Rus

Length



**Product Description:** M16 pre-molded cable connector, female, contacts:24, solder connection, right angled, IP67, shieldable, UL certified



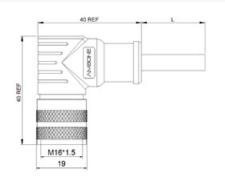




Illustration Drawings Pin assignment

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General Standard IEC61076-2-106 Locking system Fix screw locking Female Gender **AM16** Series Coding **Torque** 0.6N.M Pre-molded cable Catogory Connection type Solder connection Cable outlet variable Custom tariff number 85444290 **Country of origin** China

Electrical
Rated current
1A
Rated voltage
60V
Rated Impulse voltage
1500V
Insulation resistance
EMC compliance
Degree of protection

Shieldable
1P67

Mechanical operation > 500 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable
Cable type
Conductor cross section
Wire gauge
Jacket
Temprature
Other resistance

UL Style
0.14mm $^2$ 26AWG
PVC/TPU
-25°C ~ 85°C
UV resistant
(720 h) UL 2556

(720 h) UL 2556
Premium oil resistance

(jacket)
Wire colour variable
Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone
Molding material PVC/TPU

Certificates

UL c 🗫 us

No Number of contacts

Cable specification and length

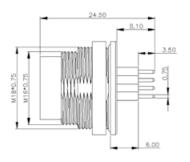
Ordering P/N

1 24A variable AM16F2411AXXX-XXX



**Product Description:** M16 panel receptacle, rear mount, male, contacts:24, PCB dip-solder connection, straight, IP67, UL certified





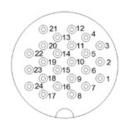


Illustration Drawings

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Connection type

Country of origin

**Custom tariff number** 

Male
AM16
A
3N.M
Device connector,
rear mount
PCB dip-solder
connection
85444290

China

IEC61076-2-106

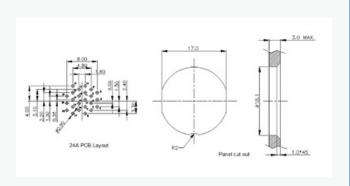
Fix screw locking

EMC compliance /
Degree of protection IP67

Mechanical operation > 500 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Zinc alloy nickel plating

Certificates

UL cRI'us

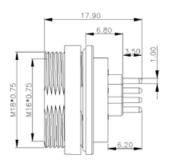
No Number of contacts Fastening thread Ordering P/N

1 24A M18\*0.75 A M16 M 2 4 2 2 A 0 0 1



**Product Description:** M16 panel receptacle, rear mount, female, contacts: 24, PCB dip-solder connection, straight, IP67, UL certified







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Torque 3N.M
Catogory Device connection type PCB dip-sol connection

Custom tariff number Country of origin

IEC61076-2-106
Fix screw locking
Female
AM16
A
3N.M
Device connector,

PCB dip-solder connection 85444290 China Electrical

Rated current 1A
Rated voltage 60V
Rated Impulse voltage 500V

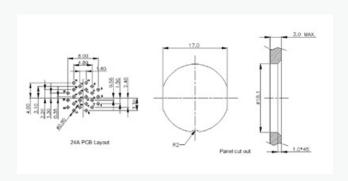
Insulation resistance  $\geqslant$  100 M $\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 500 mating cycles

Operating temperature −25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Zinc alloy nickel plating

Certificates

UL c Su'us

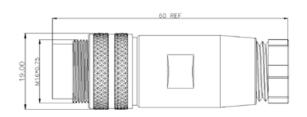
No Number of contacts Fastening thread Ordering P/N

1 24A M18\*0.75 A M 1 6 F 2 4 2 2 A 0 0 1



**Product Description:** M16 cable connector, male, contacts:24,field assembly type, solder connection, straight, IP67, UL certified





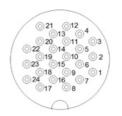
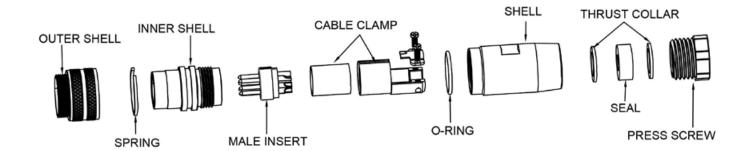


Illustration Drawings Pin assignment

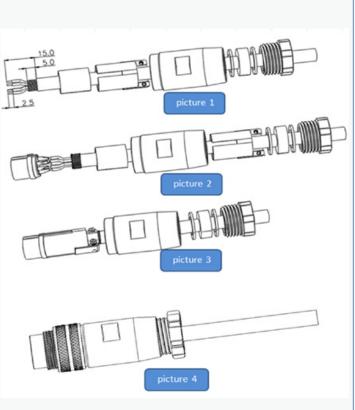
	Techi	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Field assembly Solder connection 0.14mm² / 26AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature  Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material  Certificates  UL	1A 60V 500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C  Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated
No Number of contacts	Cable specific	cation and length	Ordering P/N
1 24A	VC	ariable	A M 1 6 M 2 4 1 4 A 0 0





#### **Connector part drawing**

### **Assembly instructions**



- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation: 2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, female, contacts:24,field assembly type, solder connection, straight, IP67, UL certified



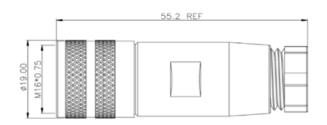
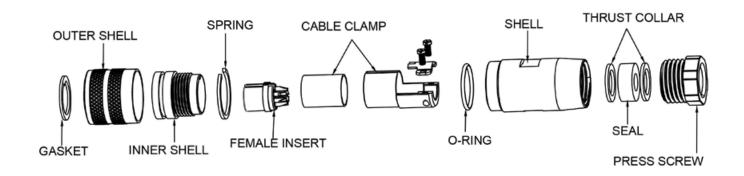




Illustration Drawings Pin assignment

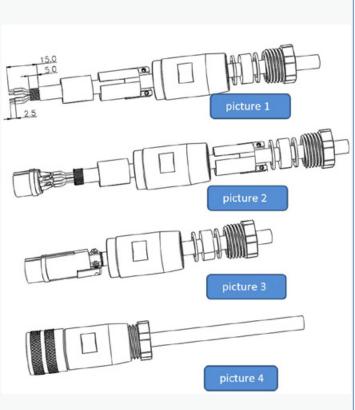
	Tech	nical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Female AM16 A 0.6N.M Field assembly Solder connection 0.14mm² / 26AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature  Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material  Certificates  UL	1A 600V 500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C  Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Brass with Nickel plated
No Number of contacts	Cable specific	cation and length	Ordering P/N
1 24A	VC	A M 1 6 F 2 4 1 4 A 0 0	





#### **Connector part drawing**

### **Assembly instructions**



- 1. Strip the external sheath :15mm.
- 2. Leave 5mm for braid and cut off the excess.
- 3. Strip the conductor insulation: 2.5mm.
- 4.push the part onto the cable in sequence(as shown picture 1).
- 5.Solder the conductors to the contacts and unbraid the braided screen and push it back.(as shown picture2).
- 6.Assemble the cable clip and insert, and lock the screw to fix the cable (as shown picture 3).
- 7.Put the insert into the shell and assemble other parts (as shown picture 4)



**Product Description:** M16 cable connector, male, contacts:24, field assembly type, solder connection, right angled, IP67, UL certified



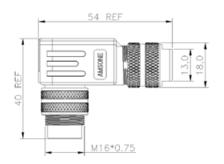


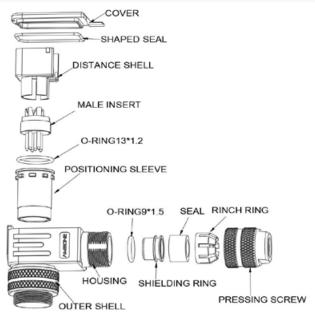


Illustration Drawings Pin assignment

	Techi	nical data		
General Standard Locking system Gender Series Coding Torque Catogory Connection type Wire gauge(max.) Cable outlet Custom tariff number Country of origin	IEC61076-2-106 Fix screw locking Male AM16 A 0.6N.M Field assembly Solder connection 0.14mm² / 26AWG 6~8mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	1A 60V 500V ≥ 100 MΩ Shielded IP67 > 500 mating cycles -25°C ~ 85°C	
		Material Flammability rating Contact material Insulation material Ring nut material Sealing material Shell material	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone Zinc alloy Nickel plating	
		Certificates	c <b>'N</b> 'us	
No Number of contacts	Cable specifi	cation and length	Ordering P/N	
1 24A	vo	A M 1 6 M 2 4 1 4 A 0 0 2		

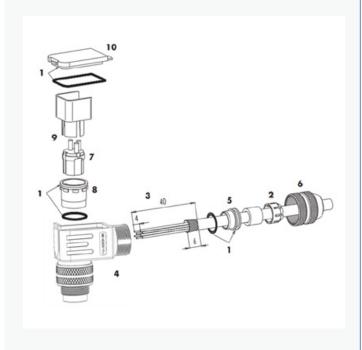


**Product Description:** M16 cable connector, male, contacts:24, field assembly type, solder connection, right angled, IP67, UL certified



**Connector part drawing** 

### **Assembly instructions**



- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).



**Product Description:** M16 cable connector, female, contacts:24, field assembly type, solder connection, right angled, IP67



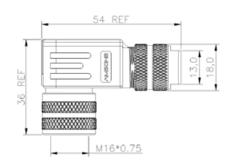




Illustration Drawings

Pin assignment

## Technical data

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type
Wire gauge(max.)
Cable outlet
Custom tariff number

Country of origin

Fix screw locking
Female
AM16
A
0.6N.M
Field assembly
Solder connection
0.14mm² / 26AWG
6~8mm
85444290
China

IEC61076-2-106

ElectricalRated current1ARated voltage60VRated Impulse voltage500VInsulation resistance $\geqslant$  100 M $\Omega$ EMC complianceShieldedDegree of protectionIP67

Mechanical operation > 500 mating cycles Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

**Material** 

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Ring nut material Brass with Nickel plated

Sealing material Silicone

Shell material Zinc alloy Nickel plating

Certificates

UL c**RI**°us

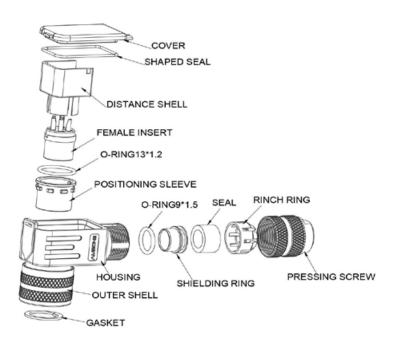
No Number of contacts

Cable specification and length

Ordering P/N

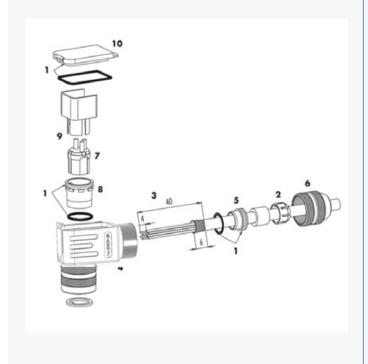
1 24A variable A M 1 6 F 2 4 1 4 A 0 0 2





**Connector part drawing** 

### **Assembly instructions**



- 1. Assemble sealing rings (3x).
- 2. Bead cable parts.
- 3. Dismantle cable and shielding braid.
- 4. Push single wires through housing.
- 5. Mount shielding ring and pinch ring.
- 6. Slightly fix pressing screw.
- 7. Solder wires to insert.
- 8. Mount positioning sleeve in angled position.
- 9. Put in insert and distance sleeve.
- 10. Mount lid.
- 11. Fix pressing screw (approx. 10-20 Nm).

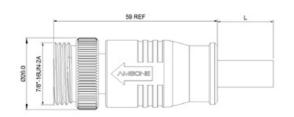






**Product Description:** 7/8" Pre-molded cable connector, male, contacts:3,4,5, solder connection, straight, IP67, UL certified





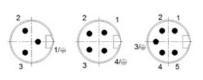


Illustration Drawings Pin assignment

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General **Standard** Locking system Fix screw locking Gender Male **AM78 Series** Coding **Torque** 1.0N.M Pre-molded cable Catogory Solder connection Connection type Cable outlet 9~12mm

Cable outlet 9~12mm
Custom tariff number 85444290
Country of origin China

ElectricalRated current12ARated voltage600VRated Impulse voltage4000VInsulation resistance $\geq$  100 M $\Omega$ EMC complianceUnshieldableDegree of protectionIP67

Mechanical operation > 100 mating cycles

Operating temperature  $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable
Cable type
Conductor cross section
Wire gauge
Jacket
Temprature
Other resistance

UL Style
1.5mm²
16AWG
PVC/TPU
-40°C ~ 105°C
UV resistant
(720 h) UL 2556
Premium oil resistance

(jacket)
Wire colour variable
Length variable

Material
Flammability rating Acc. to UL94V-0
Contact material Brass with Gold plated

Insulation material TPU
Ring nut material Aluminum, Anodizing Black

Sealing material /

Molding material PVC/TPU

Certificates

UL c**N**us

No Nu	imber of contacts	Cable specification and length	Ordering P/N		
1	3		AM78M0311AXXX-XXX		
2	4	variable	AM78M0411AXXX-XXX		
3	5		AM78M0511AXXX-XXX		



**Product Description:** 7/8" Pre-molded cable connector, female, contacts: 3,4,5, solder connection, straight, IP67, UL certified



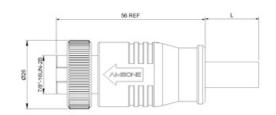




Illustration Drawings

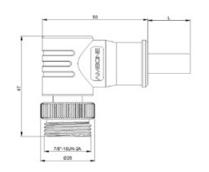
Pin assignment

	Techni	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	/ Fix screw locking Female AM78 A 1.0N.M Pre-molded cable Solder connection 9~12mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	12A 600V 4000V ≥ 100 MΩ Unshieldable IP67 > 100 mating cycles -40°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 1.5mm <sup>2</sup> 16AWG PVC/TPU -40°C ~ 105°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated TPU Aluminum, Anodizing Black / PVC/TPU
No Number of contacts 1 3 2 4 3 5	Cable specification and length  variable		Ordering P/N AM78F0311AXXX-XXX AM78F0411AXXX-XXX AM78F0511AXXX-XXX



**Product Description:** 7/8" Pre-molded cable connector, male, contacts:3,4,5, solder connection, right angled, IP67, UL certified





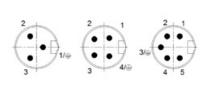


Illustration Drawings Pin assignment

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General
Standard /
Locking system Fix screw locking
Gender Male
Series AM78
Coding A
Torque 1.0N.M

Catogory Pre-molded cable
Connection type Solder connection

Cable outlet 9~12mm
Custom tariff number 85444290
Country of origin China

ElectricalRated current12ARated voltage600VRated Impulse voltage4000VInsulation resistance $\geqslant$  100 M $\Omega$ EMC complianceUnshieldableDegree of protectionIP67

Mechanical operation > 100 mating cycles

Operating temperature −40°C ~ 85°C

Cable

Cable type UL Style Conductor cross section 1.5mm $^2$  Wire gauge 16AWG PVC/TPU Temprature  $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ 

Other resistance

UV resistant
(720 h) UL 2556

Premium oil resistance

Wire colour variable Length variable

Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material TPU

Ring nut material Aluminum, Anodizing Black

Sealing material /

Molding material PVC/TPU

Certificates

UL c**91**° us

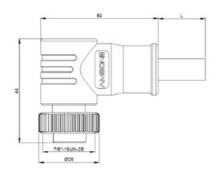
No Nu	mber of contacts	Cable specification and length	Ordering P/N
1	3		AM78M0311AXXX-XXX
2	4	variable	AM78M0411AXXX-XXX
3	5		AM78M0511AXXX-XXX



AM78F0511AXXX-XXX

**Product Description:** 7/8" Pre-molded cable connector, female, contacts:3,4,5, solder connection, right angled, IP67, UL certified





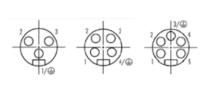


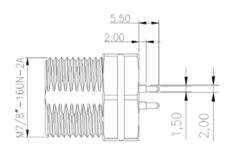
Illustration Drawings Pin assignment

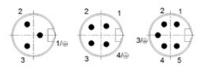
	Techni	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	/ Fix screw locking Female AM78 A 1.0N.M Pre-molded cable Solder connection 9~12mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	12A 600V 4000V ≥ 100 MΩ Unshieldable IP67 > 100 mating cycles -40°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	UL Style 1.5mm <sup>2</sup> 16AWG PVC/TPU -40°C ~ 105°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Ring nut material Sealing material Molding material  Certificates UL	Acc. to UL94V-0 Brass with Gold plated TPU Aluminum, Anodizing Black / PVC/TPU
No Number of contacts 1 3 2 4	·	ition and length	Ordering P/N AM78F0311AXXX-XXX AM78F0411AXXX-XXX



**Product Description:** 7/8" Panel receptacle, rear mount,male, contacts:3,4,5, PCB dip-solder connection, straight, IP67, UL certified







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard /
Locking system Fix screw locking
Gender Male
Series AM78
Coding A
Torque 1.2N.M

Catogory Device connector,

rear mount
PCB dip-solder
connection
85444290

Custom tariff number 85444
Country of origin China

Electrical

Rated current 12A
Rated voltage 600V
Rated Impulse voltage 2500V
Insulation resistance  $\geqslant$  100 M $\Omega$ 

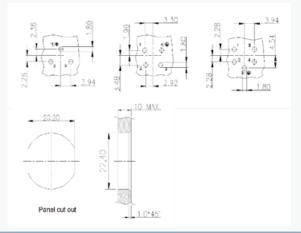
EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out

Connection type



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material TPU

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Gold plated

Certificates

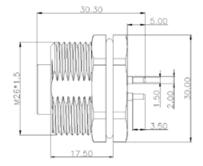
UL c Su'us

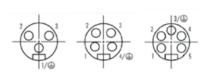
No	Number of contacts	Fastening thread	Ordering P/N
1	3		A M 7 8 M 0 3 2 2 A 0 0 1
2	4	M7/8"-16UN-2A	A M 7 8 M 0 4 2 2 A 0 0 1
3	5		A M 7 8 M 0 5 2 2 A 0 0 1



**Product Description:** 7/8" Panel receptacle, rear mount, female, contacts:3,4,5, PCB dip-solder connection, straight, IP67, UL certified







Illustration

**Drawings** 

Pin assignment

### **Technical data**

General
Standard
Locking system
Gender
Female
Series
AM78
Coding
A
Torque
Catogory
Device connector, rear mount
Connection type

// Catogord
// Catogory
// Catogord
// Catogo

Connection type PCB dip-solder connection
Custom tariff number 85444290
Country of origin China

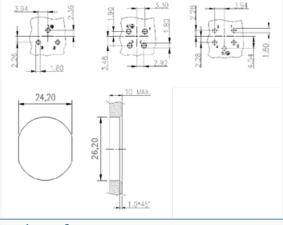
ElectricalRated current12ARated voltage600VRated Impulse voltage2500VInsulation resistance $\geqslant 100 \text{ M}\Omega$ 

EMC compliance /
Degree of protection IP67

Mechanical operation > 100 mating cycles

Operating temperature  $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material TPU

Jam nut material Brass with Nickel plated

Sealing material Silicone

Shell material Brass with Gold plated

Certificates

UL c Nus

No N	umber of contacts	Fastening thread	Ordering P/N
1	3		A M 7 8 F 0 3 2 2 A 0 0 1
2	4	M7/8"-16UN-2B	A M 7 8 F 0 4 2 2 A 0 0 1
3	5		A M 7 8 F 0 5 2 2 A 0 0 1







1+1PIN,2+2PIN Watertight connector, hybrid, **Product Description:** Degree of protection: 450M(Water depth)



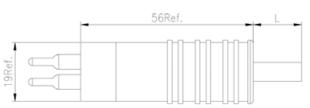






Illustration **Drawings** Pin assignment

#### Technical data

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Connection type Cable outlet Custom tariff number Country of origin

**Hybrid SC19** Pre-molded cable

**Solder connection** 6.5mm 85444290 China

Electrical **Rated current** 15A 300V Rated voltage 1000V Rated Impulse voltage Insulation resistance  $\geq$  100 M $\Omega$ 

**EMC** compliance Degree of protection

**Mechanical operation** Operating temperature 450M(Water depth) > 100 mating cycles

-10°C  $\sim 60$ °C

1

Cable

Cable type variable Conductor cross section 0.5mm<sup>22</sup> **20AWG** Wire gauge **TPU** Jacket

-40°C ~ 90°C **Temprature** Other resistance **UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket) variable

variable

Material

Flammability rating

**Contact material** 

Insulation material

Jam nut material Sealing material Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**EPDM** /

Certificates

No Number of contacts

1+1 2 2+2

Wire colour

Length

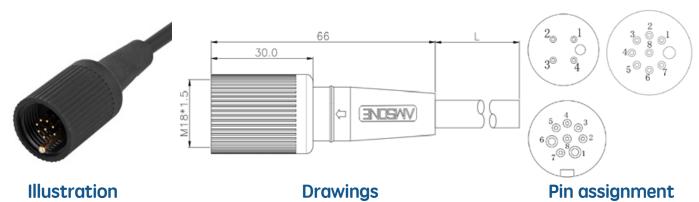
Cable specification and length

variable

Ordering P/N SC19H0211SXX1-XXX SC19H0411SXX1-XXX



**Product Description:** 4+1PIN,8+1PIN,2+6PIN Watertight connector, male, Degree of protection:450M(Water depth)

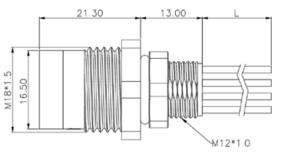


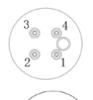
	2.3	99	
	Techni	cal data	
General Standard Locking system Gender Series Coding Torque Catogory	/ Fix screw locking Male SC16 / / Pre-molded cable	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection	1.5A 60V 300V ≥ 100 MΩ / 450M(Water depth)
Connection type Cable outlet Custom tariff number Country of origin  Solder connection 6.35mm 85444290 China	6.35mm 85444290	Mechanical operation Operating temperature	> 100 mating cycles -10°C ~ 60°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance Wire colour Length	variable 0.34mm <sup>22</sup> 22AWG TPU -40°C ~ 90°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Jam nut material Sealing material Shell material Certificates	Acc. to UL94V-0 Brass with Gold plated EPDM PA / PA
No Number of contacts 1 4 2 8	Cable specification and length  variable		Ordering P/N SC16M0411AXXX-XXX SC16M0811AXXX-XXX
3 8			SC16M0811CXXX-XX



4+1PIN,8+1PIN,2+6PIN Watertight connector, female, **Product Description:** Degree of protection: 450M(Water depth)







30005 2<sup>©</sup> 0 0 6 10 0 7



Illustration **Drawings** 

Pin assignment

#### Technical data

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory Connection type Cable outlet Custom tariff number

Fix screw locking **Female SC16** Pre-molded cable **Solder connection** 85444290 China

Electrical **Rated current** 1.5A 60V Rated voltage Rated Impulse voltage 300V Insulation resistance  $\geq$  100 M $\Omega$ **EMC** compliance

Degree of protection **Mechanical operation** Operating temperature 480M(Water depth) > 100 mating cycles

-10°C  $\sim 60$ °C

Cable Cable type

Wire colour

Length

Conductor cross section Wire gauge Jacket **Temprature** Other resistance

Country of origin

variable 0.34mm<sup>22</sup> **22AWG PVC/TPU** -10°C ~ 80°C **UV** resistant

(720 h) UL 2556 Premium oil resistance

(jacket) variable variable Material

Flammability rating **Contact material** 

Insulation material Jam nut material

Sealing material Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

**EPDM** PA Silicone

PA

Certificates

No Number of contacts 1 2 8 3 8

Cable specification and length Ordering P/N SC16F0413AXX1-XXX SC16F0813AXX1-XXX variable SC16F0813CXX1-XXX





**Product Description:** Push-pull, HDMI 2.0 male, pre-molded patch cable, with removable carrie fit, 360° EMC shieldable, IP65 waterproof

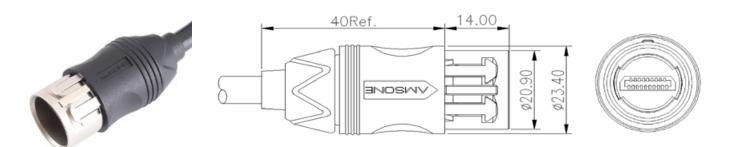


Illustration Drawings Pin assignment

•	l data
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General
Standard HDMI2.0
Locking system Push-pull
Gender Male
Series CIO
Coding A
Torque /

Catogory Pre-molded cable Connection type Solder connection

Cable outlet 7.3mm
Custom tariff number 85444290
Country of origin China

Electrical
Rated current 0.5A
Rated voltage 40V

Rated Impulse voltage 300V
Insulation resistance  $\geq$  100 M $\Omega$ 

EMC compliance 360° shieldable

Degree of protection IP65

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

Cable

Cable type UL Style
Conductor cross section 0.08mm $^{2}$ Wire gauge 28AWG
Jacket PVC/TPE
Temprature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Other resistance UV resistant

(720 h) UL 2556

Premium oil resistance

(jacket) variable

Wire colour variable Length variable Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material LCP

Shell material Zinc die casting

Sealing material /
Molding material PVC

Certificates

No Number of contacts

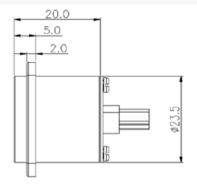
Cable specification and length variable

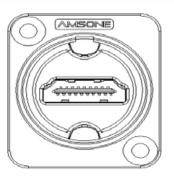
Ordering P/N
CIOHM2011AXXX-XXX



**Product Description:** Push-pull, HDMI 2.0 female, assemble, with removable carrie fit, 360° EMC shieldable, IP65 waterproof







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard HDMI2.0
Locking system Socket
Gender Female
Series CIO
Coding A
Torque /
Catogory Assemble
Connection type /
Cable outlet /

Custom tariff number 85444290
Country of origin China

Electrical Rated current

Rated voltage 40V Rated Impulse voltage 300V

Insulation resistance  $\geq$  100 M $\Omega$ 

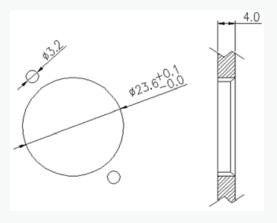
EMC compliance 360° shieldable

Degree of protection IP65

Mechanical operation > 100 mating cycles

Operating temperature −25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating

Contact material

**Insulation material** 

Shell material

Sealing material

Molding material

Acc. to UL94V-0

**Brass with Gold plated** 

LCP

0.5A

Zinc die casting

/ PVC

Certificates

No Number of contacts

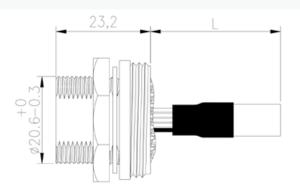
Cable specification and length variable

Ordering P/N CIOHM2022A001



Product Description: RJ45 jack, female, thread connector, panel rear mount, with cable, shieldable, IP65 waterproof







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding **Torque** Catogory

Connection type Cable outlet Custom tariff number **Country of origin** 

**RJ45** Fix screw locking Female **AIO** 

Pre-molded cable Solder connection 6.0mm

85444290 China

Electrical

**Rated current** Rated voltage Rated Impulse voltage Insulation resistance **EMC** compliance

Degree of protection **Mechanical operation** 

Operating temperature

1.5A 40V

> 300V ≥ 100 MΩ shieldable

**IP65** > 100 mating cycles

-25°C ~ 85°C

Cable

Cable type **UL Style** Conductor cross section 0.24mm<sup>2</sup> **24AWG** Wire gauge **PVC** Jacket -20°C ~ 80°C **Temprature** 

Other resistance **UV** resistant (720 h) UL 2556

Premium oil resistance (jacket) Wire colour variable variable Length

Material

Flammability rating

**Contact material** 

**Insulation material** Jam nut material Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

PA PA **EPDM** PA

Certificates

No Number of contacts

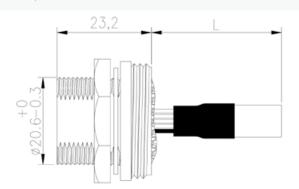
Cable specification and length variable

Ordering P/N AIORF4532AXXX-XXX



**Product Description:** USB A type, female, thread connector, panel rear mount, with cable, shieldable, IP65 waterproof







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory

Torque
Catogory
Connection type
Cable outlet
Custom tariff number
Country of origin

USB Fix s

Fix screw locking Female

AIO / /

Pre-molded cable Solder connection

4.5mm 85444290 China **Electrical** 

Rated current
Rated voltage
Rated Impulse voltage
Insulation resistance

EMC compliance

Degree of protection

Mechanical operation
Operating temperature

1.5A

30V 300V

≥ 100 MΩ shieldable

IP65

> 100 mating cycles -25 ° C ~ 85 ° C

Cable

Cable type
Conductor cross section
Wire gauge
Jacket
Temprature

Temprature Other resistance

Wire colour Length UL Style 0.24mm<sup>2</sup> 24AWG

PVC -20°C ~ 80°C UV resistant (720 h) UL 2556

Premium oil resistance

(jacket) variable variable Material Flammabili

Flammability rating
Contact material

Insulation material

Jam nut material Sealing material

Shell material

Acc. to UL94V-0

**Brass with Gold plated** 

PA PA

EPDM PA

Certificates

No Number of contacts
1 4

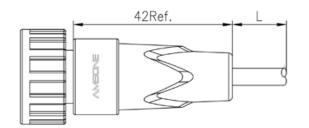
Cable specification and length variable

Ordering P/N
AIOUF2032AXXX-XXX



Product Description: USB TYPE-C, male connector, pre-molded patch cable, with thread, shieldable, IP65 waterproof





**B12 B**1 A12

A1

Illustration **Drawings** Pin assignment

## **Technical data**

General **Standard** Locking system Gender **Series** Coding

**Torque** Catogory Connection type Cable outlet Custom tariff number **Country of origin** 

TYPE-C Fix screw locking Female **AIO** 

Pre-molded cable Solder connection 4.5mm

85444290 China

Electrical

**Rated current** Rated voltage Rated Impulse voltage Insulation resistance

**EMC** compliance Degree of protection **Mechanical operation** 

Operating temperature

**3A 5V** 300V ≥ 100 MΩ

shieldable **IP65** 

> 100 mating cycles

Acc. to UL94V-0

PA

PA

PA

**EPDM** 

**Brass with Gold plated** 

-25°C ~ 85°C

Cable

Cable type Conductor cross section Wire gauge Jacket **Temprature** Other resistance

Wire colour

Length

**UL Style** 0.35mm<sup>2</sup> **22AWG PVC/TPE** -20°C ~ 80°C **UV** resistant (720 h) UL 2556

Premium oil resistance

(jacket) variable

variable

Material

Flammability rating

**Contact material** 

**Insulation material** Jam nut material Sealing material

Shell material

Certificates

No Number of contacts 24

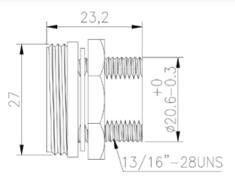
Cable specification and length variable

Ordering P/N AIOUM2411AXXX-XXX



**Product Description:** USB TYPE-C, female connector, with thread, panel rear mount, shieldable, IP65 waterproof





A1 B12
A12 B1

Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard
Locking system
Gender
Series
Coding
Torque
Catogory
Connection type

Cable outlet
Custom tariff number
Country of origin

TYPE-C
Fix screw locking
Female
AIO
/
/
Pre-molded cable

PCB dip-solder connection / 85444290

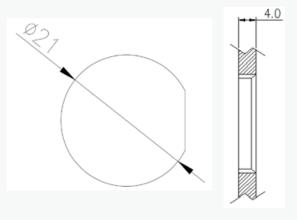
China

EMC compliance shieldable
Degree of protection IP65

Mechanical operation > 100 mating cycles

Operating temperature  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ 

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA

Jam nut material PA

Sealing material EPDM

Shell material PA

Certificates

No Number of contacts
1 24

Cable specification and length variable

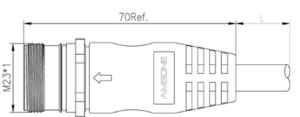
Ordering P/N
AIOTF3032AXXX-XXX

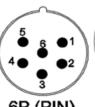


M23 pre-molded cable connector, male, contacts: 6,19(16+3), **Product Description:** 

solder connection, straight, IP67









6P (PIN) **19P PIN** 

Illustration **Drawings** Pin assignment

## Technical data

General **Standard** Locking system Fix screw locking Gender **Series** Coding **Torque** Catogory Connection type Cable outlet Custom tariff number **Country of origin** 

Male **AM23** 0.6N.M Pre-molded cable **Solder connection** 9~13mm 85444290 China

Electrical **Rated current** Rated voltage Rated Impulse voltage Insulation resistance **EMC** compliance

**Mechanical operation** Operating temperature

Degree of protection

6P 19P 20A **8**A 250V 150V 2500V | 1500V  $\geq$  100 M $\Omega$ **Optional** 

> 500 mating cycles -25°C ~ 85°C

Cable

Cable type Conductor cross section Wire gauge

Jacket

**Temprature** Other resistance

Wire colour Length

variable

0.35~2.5mm<sup>2</sup> 22AWG~14AWG

**TPU** 

 $-25^{\circ}C \sim 80^{\circ}C$ **UV** resistant

(720 h) UL 2556 Premium oil resistance

(jacket)

variable variable Material

Flammability rating

**Contact material** 

Insulation material

Jam nut material

Sealing material **Molding material**  Acc. to UL94V-0

**Brass with Gold plated** 

**PA66** 

**IP67** 

**Brass with Nickel plated** 

Silicone

**TPU** 

Certificates

No Number of contacts 6

2 19 Cable specification and length

variable

Ordering P/N AM23M0611AXXX-XXX AM23M1911AXXX-XXX



Product Description: M23 pre-molded cable connector, female, contacts: 6,19(16+3), solder connection, straight, IP67









6P (SOCKET)

19P SOCKET

Illustration Pin assignment **Drawings** 

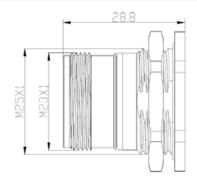
	Techn	ical data	
General Standard Locking system Gender Series Coding Torque Catogory Connection type Cable outlet Custom tariff number Country of origin	/ Fix screw locking Female AM23 A 0.6N.M Pre-molded cable Solder connection 6~13mm 85444290 China	Electrical Rated current Rated voltage Rated Impulse voltage Insulation resistance EMC compliance Degree of protection Mechanical operation Operating temperature	6P   19P 20A   8A 250V   150V 2500V   1500V ≥ 100 MΩ Optional IP67 > 500 mating cycles -25°C ~ 85°C
Cable Cable type Conductor cross section Wire gauge Jacket Temprature Other resistance  Wire colour Length	variable 0.35~2.5mm <sup>2</sup> 22AWG~14AWG TPU -25°C ~ 80°C UV resistant (720 h) UL 2556 Premium oil resistance (jacket) variable variable	Material Flammability rating Contact material Insulation material Jam nut material Sealing material Molding material Certificates	Acc. to UL94V-0 Brass with Gold plated PA66 Brass with Nickel plated Silicone TPU
No Number of contacts 1 6 2 19	· · · · · · · · · · · · · · · · · · ·	ication and length	Ordering P/N AM23F0611AXXX-XXX AM23F1911AXXX-XXX

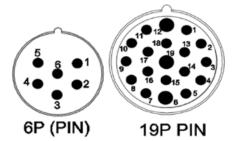
NO I	Number of contacts	Cable specification and length	Ordering P/N
1	6	variable	AM23F0611AXXX-XXX
2	19	74114210	AM23F1911AXXX-XXX



**Product Description:** M23 panel receptacle, rear mount, male, contacts:6,19(16+3) solder connection for wires, straight, IP67







Illustration

**Drawings** 

Pin assignment

## **Technical data**

General
Standard /
Locking system Fix
Gender Mc
Series AA
Coding A
Torque 0.6
Catogory De
Connection type So

Cable outlet Custom tariff number Country of origin Fix screw locking

Male AM23 A 0.6Nm

Device connector, front mount Solder connection

/

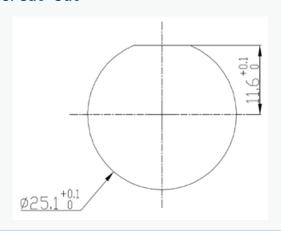
85444290 China Electrical6P|19PRated current20A|8ARated voltage250V|150VRated Impulse voltage2500V|1500V

 $\begin{array}{ll} \mbox{Insulation resistance} & \geqslant 100 \ \mbox{M}\Omega \\ \mbox{EMC compliance} & \mbox{Optional} \\ \mbox{Degree of protection} & \mbox{IP67} \end{array}$ 

Mechanical operation > 500 mating cycles

Operating temperature −25°C ~ 85°C

#### Panel cut-out



Material

Flammability rating Acc. to UL94V-0

Contact material Brass with Gold plated

Insulation material PA66

Jam nut material Brass with Nickel plated

Sealing material NBR

Shell material Brass with Nickel plated

Certificates

No Number of contacts

2 19

Fastening thread

/

Ordering P/N AM23M0622A001 AM23M1922A001







## **Custom Wire Harness and Cable Assembly**

Whatever type of connection you need, Amissiontech offers flexible manufacturing and best technical solutions for your applications, from prototyping to series production, from diverse connectors to individual cables, which means highly available, durable and efficient and makes us a specialist in custom designing and production.

#### Features

- > Good knowledge in industrial connectivity
- > Electromechanical design, Prototype, and Test supports
- > Mold design and manufacture
- > Internal and External over molded solution
- > Plastic injection and CNC-turnery
- > High quality, Cost-effective and Accurate delivery
- > UL/CE/RoHS Certified

#### Products and Services Category

- > Industrial wire harness and cable assemblies
- > Standard or customized power cords
- > Temperature sensor cable
- > Audio, Video cable and RF coaxial cable
- > Standard or customized solutions

#### Technology and Capabilities

#### 1.Connector Manufacturing

2D or 3D drawings for engineering analysis.

Development for toolings and early design in evaluation.

Plastic injection,machining,finishing process in house for housings and terminals.

Manually assembly, full automatic and half-automatic assembly for connectors.

#### 2. Cable Preparation

Trimmings, stripping, tin coating, shielding, twisting.

#### 3.Contacting

Crimping, soldering, crimp-soldering, pressing, screwing, gluing.

#### 4. Final Assembly

Bolting, binding, shrinking, extruding, strain relief molding, inner and outer molding.

#### 5. Mechanical and Electrical test

Pull force, cross section and vibration test, aging/ bending/salt spray test, electric and visual test.

#### 6.Labeling and Packing









#### IMPORTANT USER INFORMATION

Binding for the applications of connectors are the requirements of the equipment specifications of the users.

We reserve the right to change the design due to improvements in quality, further development or production requirements.

All technical data mentioned in this catalogue are related to connectors, meaning connecting devices which in normal use (when under load) shall not be inserted or withdrawn.

The connectors are developed and designed for the use in the field of equipment, control and electrical appliances. Whether they also can be used in other applications has to be checked by the user.

When mounting electrical conductive socket housings, they have to be integrated into the protection measures.

The wires to be connected shall be stripped only so far that distances to conductive parts are not shortened. When wires are soldered, it has to be beared in mind that no single strands stick out and no short circuit can occur.

All dimensions in this catalogue are in mm.

#### For connectors with strain relief the following minimum parameters are valid:

cab	le	Ф:		Recommended tightening	ng to	rque of the pressing screw 1)
2	-	3	min. 20N	30	-	40cNm
3	-	4	min. 30N	30	-	40cNm
4	-	5	min. 40N	80	-	100cNm
5	-	6	min. 50N	80	-	100cNm
6	-	7	min. 60N	80	-	100cNm
7	-	8	min. 70N	80	-	100cNm
8	-	12	min. 80N	100	-	140cNm
12	-	14	min. 120N	100	-	140cNm

These are guidelines. Depending on the cable type, material and thickness of the cable jacket, different tightening torques may be necessary. This must be checked in each individual case.

#### Connectors

Connectors are components which are not to be engaged or disengaged in normal use (under live).

Plug and socket devices

Plug and socket devices are components which in normal use (under live or load) may be engaged or disengaged when live or under load. According to DIN EN 61984 (VDE 0627).

Connection type

**Screw connection** 

A screw connection is a detachable electrical connection between a conductor and a screw clamp. Screw clamps are designed acc. to DIN EN 60999–1/VDE 0609–1.

The chart below shows the screw size and the required clamping and testing torque.

Screw size		M2.5	M3	M3.5
Torque (cNm)	Cap screw	40	50	60
	Headless screw	20	25	40

#### Solder connection

Besides the soldering of single wires with solder irons or soldering machines, the method of wave soldering or infra-red vapor phase soldering has gained great impor- tance for connectors for printed boards or flexible wiring.

We recommend the following soldering parameters

hand-soldering: soldering bold temperature max. 370°C/max. 4s

dip soldering: soldering bath temperature max. 270°C/max. 4s

alternative dip soldering: soldering bath temperature max. 260°C/max. 10s

When wires are soldered, it has to be watched that no single strands stick out which could lead to a short circuit and that no large solder joints occur which would reduce the clearance and creepage distances unfavourably. Testing and valuation of solder joints and the relevant components is regulated in IEC 60068–2.

Crimp connection

A crimp connection is a non-detachable electrical connection between a conductor and a crimp contact produced with the crimp technology. The requirements for crimp connections are defined in IEC 60352-2. An important point for the quality of a crimp connection is the achieved tensile strength of the termination. Since easy to measure, the tensile strength is a practible means for quality control purposes. The diagram below shows the required minimum tensile strength depending on the wire size.

#### Degree of protection (IP-Code)

For safety reasons, connectors have to be protected from outside influences like dust, foreign objects, direct contact, moisture and water. This protection is provided on industrial connectors by their housings with their latching devices and sealed cable entries. The degree of protection can be selected depending on the type of intended use and is valid for AMSONE connectors when mated and locked. The standard IEC 60529 has specified and divided the degree of protection into several classes. The degree of protection is indicated in the following way:

Code letters (International Protection)	IP 6 7
lst character (degree of protection against access to hazardous parts and against solid foreign objects)	
2nd character	
(degree of protection against ingress of water)	

## The following charts give an overview about all protection degrees.

1st character	Definition	Remark	2nd character	Definition	Remark
0	Non-protected		0	Non-protected	
1	Protected against access to hazardous parts with the back of a hand. Protected against solid foreign objects of Ø ≥ 50 mm		1	Protected against water drops	
2	Protected against access to hazardous parts with a finger. Protected against solid foreign objects of Ø ≥ 12.5mm		2	Protected against water drops when enclosure tilted up to 15°	
3	Protected against access to hazardous parts with a wire. Protected against solid foreign objects Ø ≥ 2.5mm		3	Protected against spraying water	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects
4	Protected against access to hazardous parts with a wire. Protected against solid foreign objects Ø ≥ 12.5mm		4	Protected against splashing water	Water splashed against the dis- closure from any direction shall hav no harmful effects
5	Protected against access to hazardous parts with a wire. Dust-protected	Intrusion of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the device or to impair safety	5	Protected against water jets	
6	Protected against access to hazardous parts with a wire. Dust-protected	No intrusion of dust	6	Protected against powerful water jets	
			7	Protected against the effects of temporary immersion in water	Intrusion of water quantities causing harmful effects shall not be possil when the enclosur is temporarily immersed in water for 30 min. in 1 m depth
			8	Protected against the effects of continuos immersion in water	Intrusion of water quantities causing harmful effects shall not be possif when the enclosur is continuously immersed in water under conditions which shall be agrounded but which are mor severe than for numeral 7
	watertight: 450M depth ra		9K2	Protected against water during high pressure/stream cleaning	A strong water jet splashed with high pressure and high temperature against the disclosure from an direction shall have no harm-ful effer Test conditions: 100 bar water pressure, 80°C wa delivery rate 15L/min., distance to housing 10 cm, test-duration 30 per postion, (angle 0° 30° 60° 90°) on a rotating table turning at 5 revolutions per

### **Electrotechnical informatio**

#### **Current carrying capacity**

"The current carrying capacity of a connector denotes the current that can be carried con tinuously and simultaneously through all its contacts.It is determined by testing following the standard IEC 60512-5-2"

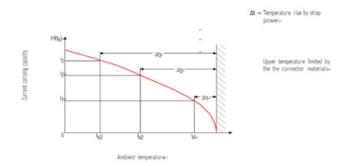
"The upper limit temperature results from the thermal properties of the contact and insulating materials. The sum of the ambient temperature and the temperature created by the current flow may not exceed the upper limit temperature of the connector.."

This means, that the current carrying capacity is no fixed value but decreases with increasing ambient temperatures. This relation between current, the caused temperature rise and ambient temperature of the connector is depicted in a curve, the so-called derating curve. As one can see, the current carrying capacity decreases with increasing ambient temperature.

On the other hand, very often not all contacts are loaded simultaneously with the whole rated current, so that some single contacts can carry a higher current than that according to the derating curve.

These currents have to be determined by testing.

#### **Derating curve**



#### General user information

Shielding, Electromagnetic compatibility (EMC)

"Since the issue of the German law about electromagnetic compatibility of equipment, more attention is paid to EMI within the concerned equipment.

The equipment has to be designed in such a way that"

1. the generation of electromagnetic interference is limited to such extend that the determined operation of this equipment is not hampered,

2. the equipment has a reasonable resistance against electromagnetic interference so that the determined operation is not hampered. To satisfy the requirements of the equipment manufacturers, more and more connectors with shielding properties are applied where shielded cables can be connected. In use are conductive housings to which the cable shield can be terminated.

In case of circular connectors, it should be watched that the cable shield is carefully connected to the connector shield.A circumferencially (360°) contact is optimal in this case. Good shielding values (and very often sufficient for practical use) are also achieved when the shielding braid is firmly connected to the conductive housing.

Not sufficient are fully plastic connectors without metal sleeves with no possibility to terminate the cable shield. Furthermore, it is important that during mating a secure electrical connection between plug and socket housing is achieved and that the panel mounted connector part has a good metallic connection with the chassis wall.

"The shielding attenuation is stated in decibel (db) and depends on the frequency.

Good shieldings have a high attenuation, which over a large frequency band (MHz) does not decrease too heavilu."

"Information about used materials"

Two material groups are used to manufacture the connectors described in this catalogue:

- > Metals for contacts and housings
- > Plastic material for inserts and housings.

Materials for contacts

The properties of contacts are defined to a large extent by the used materials. Decisive features are:

- > strength and spring properties
- > electrical conductivitu
- > max. operating temperature

"Considering these points, AMSONE Connector is using proven copper alloys for the manufacture of contacts; for pin contacts brass (CuZn), for socket contacts phosphor bronce (CuSn). Brass combines good strength with good conductivity and temperature stability. Phosphor bronce offers next to a good conductivity very good spring capabilities and a high temperature performance."

Materials for metal housings

Depending on the application, the metal housings are produced from either brass, zinc die cast or an aluminium allou. For circular housing parts, mainly brass is used due to its good machine ability and strength. For angled housings and parts with minor finishing work, zinc die cast or an aluminium allou is used.

Plastic material for inserts

The inserts of AMSONE connectors are manufactured primarily from PA, a plastic material with a temperature stability of up to 120 °C and special properties for high grade moulded parts. The material has very good chemical and electrical properties and very good dimensional stability.

Surface finishes

"In order to protect contacts and housings from aggressive environments and to improve the conductivity, the surfaces are treated accordingly. At AMSONE, contacts are gold plated. For applications in the mA-range at very low voltages, These platings improve the conductivity and are very corrosion proof, which also improve the electrical properties and in addition, it increases the corrosionproofness. Housings are anodised or covered with a plating of either nickel or chromium for anti corrosion and decorative reasons. Material for sealings

To achieve the required protection class, all Binder circular connectors are equipped with sealing rings of an elastomeric material. Depending on the final use, AMSONE has selected Chloroprene Rubber, or Fluor silicon Rubbe.

Plastic material for housings

Plastic housings are primarily manufactured from PA (Polyamide). This well proven material (internationally known under the name Nylon) is very tough, non abrasive, resistant against solvents, oils and greases and can be used at temperatures up to 120°C.

Characteristics	Standard		Remark		
Shell protection	IEC 60529, ISO	20653 (IP69K)	Value in mated condition. Test is performed without electrical lo		
Mechanical operation	IEC 60512-9-1				
Upper temperature	IEC 60512-6		Test condition is 168		
Lower temperature	IEC 60512-6		Test condition is 2 hr		
Test voltage	IEC 60664-1		Highest value of an in without a breakdown		
Rated impulse voltage	IEC 60664-1		Derived from overvol rated voltage.	tage cate gory and	
Pollution degree	IEC 60664-1				
Current carrying capacity	IEC 60512-5-2				
Rated current			Related to an ambier +40°C (104°F).	t temperature of	
Contact resitance	IEC 60512-2-1		Resistance between a contact socket in madefined length.		
It has to be noted that all technical data represent	initial values				
American Wire Gauges	AWG	Wire composition (mm	) Wire (mm)	Wire gauge(mm²)	
	30	1*0.25	0.25	0.05	
		7*0.10	0.36	0.06	
	28	1*0.32	0.32	0.08	
	20	7*0.127	0.38	0.09	
		1*0.40	0.41	0.13	
	26	7*0.16 19*0.10	0.48 0.51	0.14 0.16	
		1*0.51	0.51	0.21	
Since various areas of industry are also using wires according to the American Wire Gauge	24	7*0.20 19*0.127	0.61 0.61	0.23 0.24	
(AWG), the following comparison chart is		1*0.64	0.64	0.33	
included to allow a cross reference between AWG	22	7*0.254	0.76	0.36	
and metric wire sizes (mm <sup>2</sup> ).  It has to be noted that wires of the same AWG		19*0.16	0.79	0.38	
number but with differ ent composition have		7*0.32	0.97	0.56	
slightly different mm <sup>2</sup> !	20	19*0.20 26*0.16	0.95 0.92	0.60 0.53	
	18	19*0.254 41*0.16	1.28 1.18	0.96 0.83	
	16	26*0.254	1.5	1.32	
	14	41*0.254	1.86	2.08	
	12	65*0.254	2.4	3.3	
	10	105*0.254	2.95	6.32	



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