



Signal Electronics Connectors



Your Reliable Partner in Connectivity !

About us

Company

Signal Electronics was established in 2009. We are leading industrial connectors and cables company with product development and manufacturing capabilities. We offer customized connectors design expertise and manufacturing services to meet our customers' needs.

Products

- Circular connectors such as M5, M8, M9, M12, M16, M23, M40, 7/8", Mini-Din, MIL-C-5015, D38999, etc. (Include A, B, C, D, X, S, T, L, E, F, M, Y, P... -Coding)
- Cable harness assembly
- Customized connectors and cables
- One-stop solution

Quality

- We are ISO9001 and ISO14001 certified company
- Our products conforms to international testing standards; including CE, cUL, TUV, RoHS, REACH, IP68, IP69K, (NMEA2000)

Service

- Dedicated project manager for your project from start to finish
- Fast quote within 24 hours
- Expedited samples submission to help you win over your competitors
- We have proven product quality and dependable services as recognized by our customers throughout North America and EU.

Partnership

Our goal is to work with and earn our customer's trust, starting with a single project and mature into a long-term partnership; especially with OEM/ODM customers.

If you have any questions, please feel free to contact us through sales@sz-signal.com or call +86-755-29886112. We are here to assist you!

公司简介

公司概况

深圳市盛格纳电子有限公司（注册商标SIGNAL，以下简称盛格纳）是一家专业的连接器和线束制造商。盛格纳专注于工业领域的连接器研发制造和线束组装加工，并提供客制化解决方案。盛格纳成立于2009年，拥有12000平方米的标准工业厂房，拥有一支300余人的研发、制造、销售团队，模具车间、注塑车间、五金车间、连接器装配车间、线束加工车间，以及按行业国际标准建设的实验室，并已荣获多项技术专利，是国家高新技术企业。

体系认证

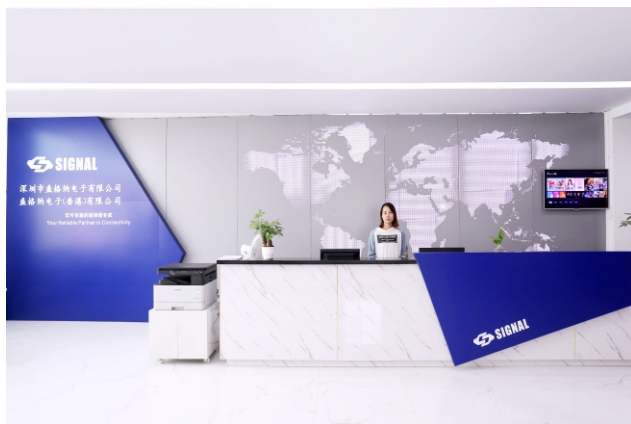
盛格纳推行先进的企业管理体系，建立了完善的ISO 9001:2015国际质量认证体系和ISO 14001:2015环境管理体系认证，拥有知识产权管理体系GB/T29490-2013及工业化和信息化融合管理体系GB/T 23001-2017，并于2021年正式导入IATF 16949:2016质量管理体系。产品材料完全符合RoHS和REACH环保要求，产品先后通过了CE、UL和TUV等安规认证，产品防护等级高达IP67/IP68/IP69K等标准。

经营范围

盛格纳主要经营产品有：圆形防水连接器，射频同轴连接器，推拉自锁连接器，军工连接器D38999系列等。其中，圆形M系列防水连接器种类丰富：M5/M8/M9/M12/M16/M23/7/8"系列；现场总线/工业以太网：Ethernet/EtherCAT/PROFINET/PROFIBUS/DeviceNet/CANopen/CC-link系列；IO-Link：分线盒/现场安装连接器/分配器/预铸线束。其功能不但在于信号传输和电源供应，也涉及网络互联和数据传输等连接应用。目前已广泛应用于工业自动化，汽车电子及制造，机器人，轨道交通，军工，医疗，船舶等领域。公司产品持续十年保持70%以上出口率，累计已服务全球60多个国家和地区。

公司理念

盛格纳始终坚持“技术创新、科学管理、追求高效、顾客满意”的核心价值观，坚持与客户和供应商建立长期合作、互惠双赢的合作伙伴关系。盛格纳致力于成为您可信赖的连接器和连接线专家，成为世界连接器行业的知名品牌！



认证 CERTIFICATION



贯标出质量，认证树形象

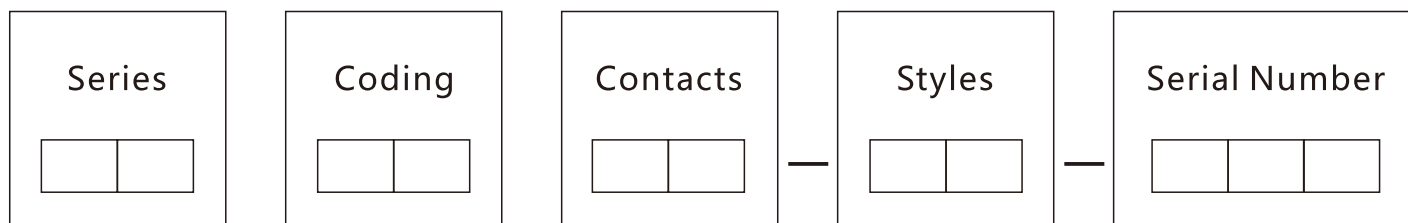


ISO9001 ISO14001 IP68 IP69K RoHS REACH CE

PRODUCT SERIES

○ M5 series	0501~0514
○ M8 series	0801~0878
○ M9 series	0901~0909
○ M12 series	1201~12300
○ M16 series	1601~1608
○ M23 series	2301~2325
○ 7/8" series	7801~7817
○ Distribution boxes series	BOX01~BOX21
○ NMEA 2000	N001~N011
○ D-Sub	D001~D019
○ USB	U001~U013
○ RF	RF001~RF129
○ Push-pull	P001~P018

Order Number



1. Series

M5=05 , M8=08 , M9=09 , M12=12 , M16=16 , M23=23 , M40=40 , 5/8"=58 , 7/8"=78 ,
D-Sub=91 , Distribution Box=92 , Others=94...

Remark :

Others include: RJ45, DC Plug, etc.

2. Coding

00=N/A , 01=A, 02=B, 03=C, 04=D, 05=S, 06=T, 07=X, 08=Y, 09=P, 10=L, E=11, F=12,
K=13, M=14 ...

3. Contacts

02=2Pins , 03=3Pins , 04=4Pins , 05=5Pins , 06=6Pins , 07=7Pins , 08=8Pins ,
09=9Pins , 12=12Pins...

4. Styles

01=Male Field Installable ,	02=Female Field Installable ,
03=Male Panel Mount ,	04=Female Panel Mount ,
05=Male Molding Cable ,	06=Female Molding Cable ,
07=RJ45 Male Plug ,	08=RJ45 Female plug ,
20=Male Connector for Molding ,	21=Female Connector for Molding ,
30=Male Splitter ,	31=Female Splitter ,
10=Adaptor ,	
00=Housing to Housing/Terminal, or N/A	

Remark:

55=Male to Male Molding Cable , 56=Male to Female Molding Cable ,
66=Female to Female Molding Cable ,
57=Male Molding Cable to RJ45 Male , 58=Male Molding Cable to RJ45 Female
67=Female Molding Cable to RJ45 Male , 68=Female Molding Cable to RJ45 Female
....

5. Serial Number

001 , 002, 003...

Remark:

The Serial Number shows all the characters that are not covered in "Codings, Contacts, Styles".

Default Serial Number:

For Field Installable Style PG7=001/021 PG9=002/022

For Terminal Resistor = 009

Examples : 080205-04-001

The First Group : Connector Series

0	8
---	---

M8

The Second Group : Codings

0	2
---	---

B-coding

The Third Group : Contacts

0	5
---	---

5 Pins

The Fourth Group : Styles

0	4
---	---

Female Panel Mount

The Fifth Group : Serial Number

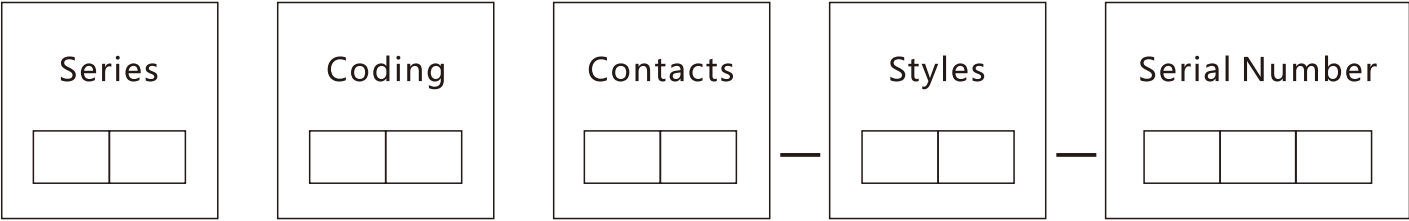
0	0	1
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Rear Panel Mount Solder Type
(M8*1.0) --Get from the catalogue

M8 B-coding 5Pins Female Panel Mount
Rear Panel Mount, Solder Type (M8*1.0)

0	8	0	2	0	5	—	0	4	—	0	0	1
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产品料号（订货号）编码原则



1. 连接器系列:两位数字

M5=05 , M8=08 , M9=09 , M12=12 , M16=16 , M23=23 , M40=40 , 5/8"=58 , 7/8"=78 , 分线盒=92 , 其他=94...

补充：这里其它包含 RJ45对RJ45, DC头 , 卡侬头

2. Coding:两位数字

00=N/A , 01=A, 02=B, 03=C, 04=D, 05=S, 06=T, 07=X, 08=Y, 09=P, 10=L, E=11, F=12, K=13, M=14 ...

3. 芯数：两位数字

02=2芯 , 03=3芯 , 04=4芯 , 05=5芯 , 06=6芯 , 07=7芯 , 08=8芯 , 09=9芯 , 12=12芯...

4. 款型：两位数字

- | | |
|--------------|--------------|
| 01=公头装配式 , | 02=母头装配式 , |
| 03=公头面板式 , | 04=母头面板式 , |
| 05=公头成型线 , | 06=母头成型线 , |
| 07=RJ45公头 | 08=RJ45母头 , |
| 20=公头焊线成型式 , | 21=母头焊线成型式 , |
| 30=公分支线 , | 31=母分支线 , |
| 10=转接头 , | |

组合同样适用：

- | | | |
|------------------|----------------|-------------|
| 55=公对公成型线 , | 56=公对母成型线 , | 66=母对母成型线 , |
| 57=公头成型式对RJ45公 , | 58=公头成型式对RJ45母 | |
| 67=母头成型式对RJ45公 , | 68=母头成型式对RJ45母 | |

补充：00=Housing to Housing/Terminal,或者其它

5. 流水码:三位数字

001 , 002,003...

约定1：装配式标准产品 PG7=001/021 PG9=002/022

约定2：堵头流水码 009

范例：080205-04-001

第一组数字：连接器系列

0	8
---	---

M8

第二组数字：连接器系列

0	2
---	---

B-coding

第三组数字：芯数

0	5
---	---

5 Pins

第四组数字：款型

0	4
---	---

母头面板式

第五组数字：流水码

0	0	1
---	---	---

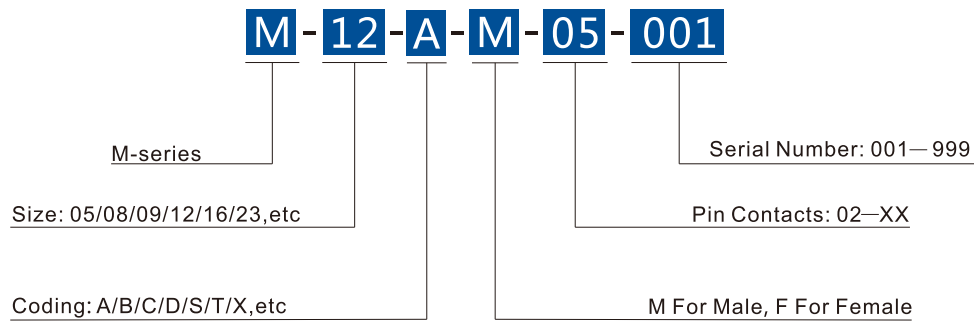
流水码第001号产品，具体型号以编辑为准

最后组合就是我们所需要的连接器料号，即订货号

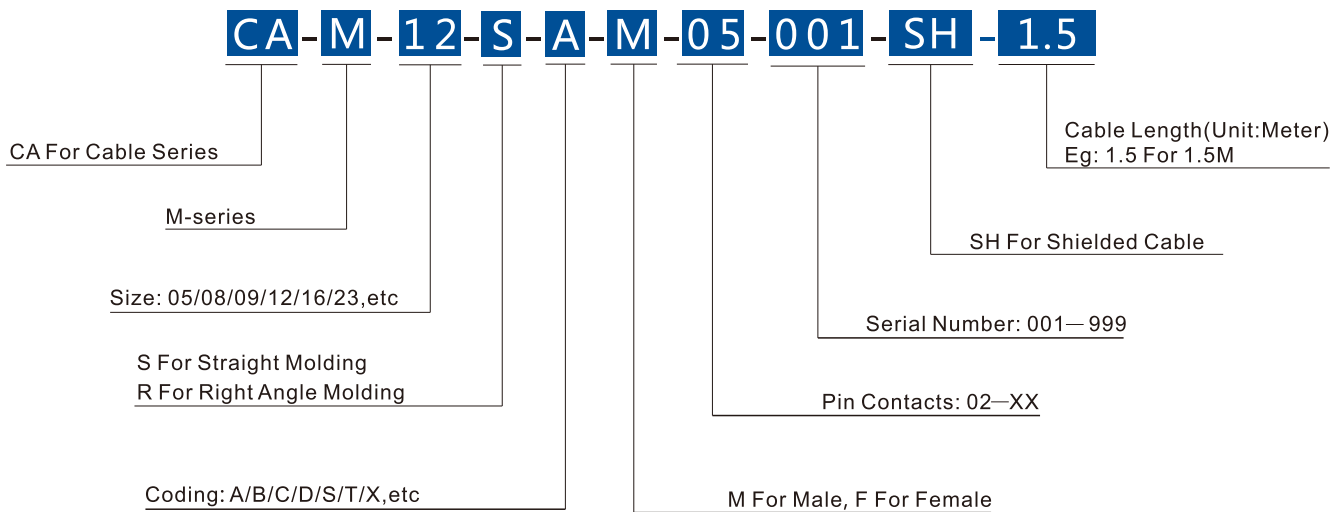
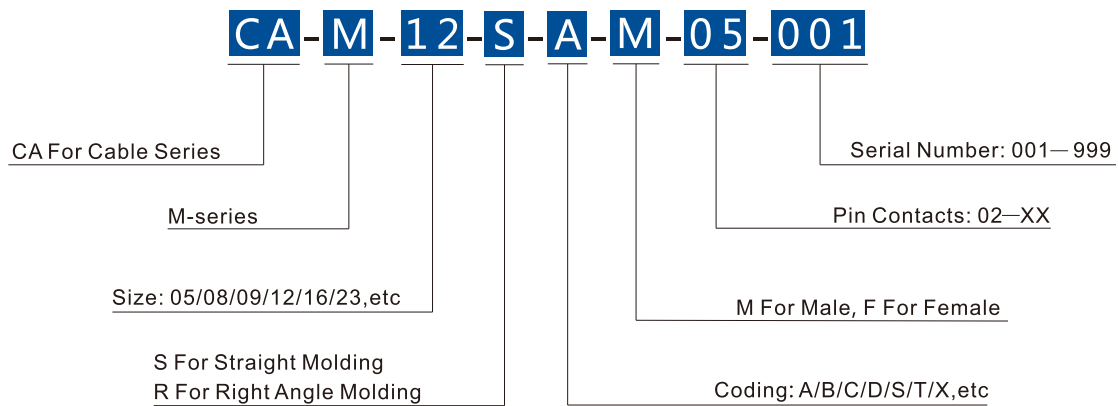
0	8	0	2	0	5	—	0	4	—	0	0	1
---	---	---	---	---	---	---	---	---	---	---	---	---

连接器命名规则 Connector Naming Rules

1. Circular M-series Connector

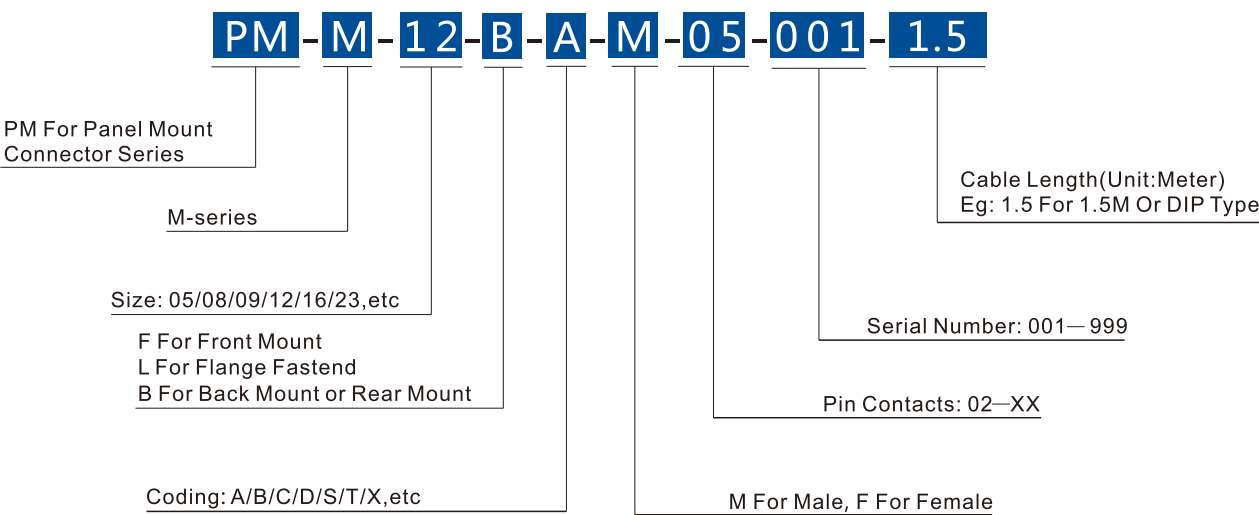


2. Circular M-series Cable

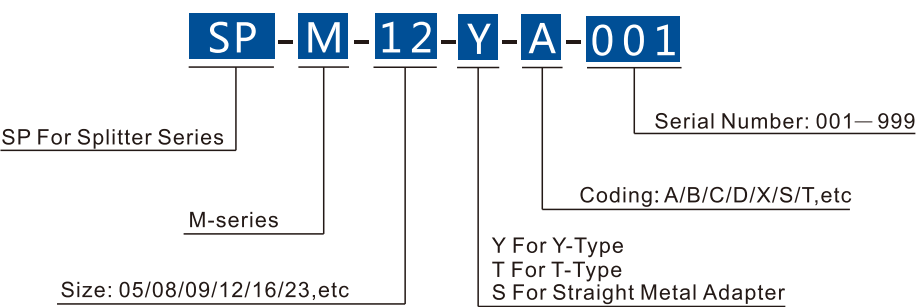


连接器命名规则 Connector Naming Rules

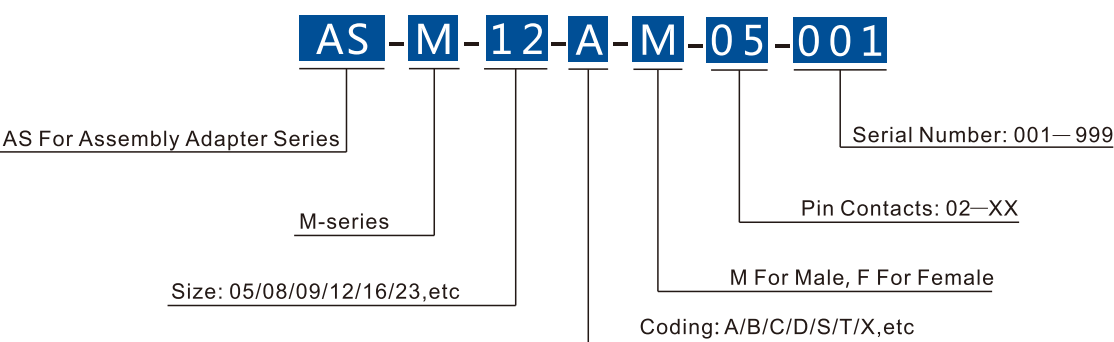
3. Circular M-series Panel Mount Connector



4. Circular M-series Panel Splitter



5. Circular M-series Assembly Adapter



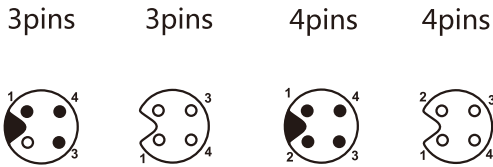
Contact layout and wire colors

针脚分布和芯线颜色

Signal / 信号

M5 device connector/M5设备连接器

Contact layout/针脚分布

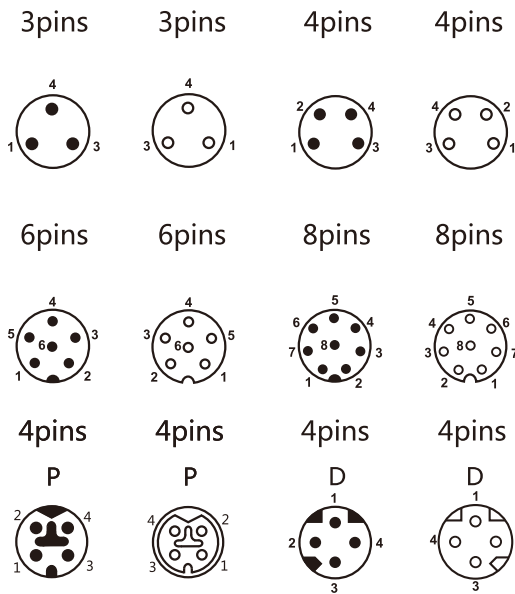


Wire colors/线芯颜色

Pin	Wire colors/线芯颜色			
	3pins		4pins	
1	BN		BN	
2	—		WH	
3	BU		BU	
4	BK		BK	

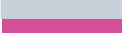
M8 device connector/M8设备连接器

Contact layout/针脚分布



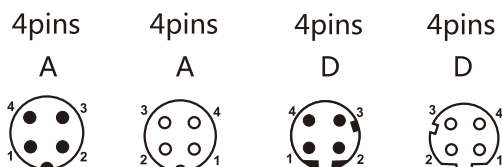
Wire colors/线芯颜色

Pin	Wire colors/线芯颜色			
	3pins		4pins	
1	BN		BN	
2	—		WH	
3	BU		BU	
4	BK		BK	

Pin	Wire colors/线芯颜色			
	6pins		8pins	
1	BN		WH	
2	WH		BN	
3	BU		GN	
4	BK		YE	
5	GY		GY	
6	PK		PK	
7	—		BU	
8	—		RD	

M12 device connector/M12设备连接器

Contact layout/针脚分布



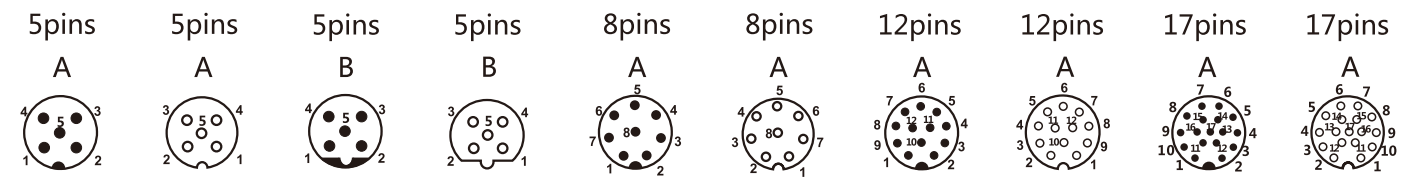
Wire colors/线芯颜色

Pin	Wire colors/线芯颜色			
	4pins A-coded		4pins D-coded	
1	BN		YE	
2	WH		WH	
3	BU		OG	
4	BK		BU	

Signal/信号

M12 device connector/M12设备连接器

Contact layout/针脚分布



Wire colors/线芯颜色

Pin	Wire colors/线芯颜色			
	5pins A		5pins B	
1	BN		BN	
2	WH		WH	
3	BU		BU	
4	BK		BK	
	GY		GY	

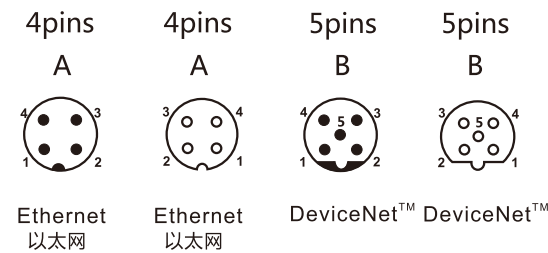
Pin	Wire colors/线芯颜色			
	8pins		12pins	
1	WH		BN	
2	BN		BU	
3	GN		WH	
4	YE		GN	
5	GY		PK	
6	PK		YE	
7	BU		BK	
8	RD		GY	
9	—		RD	
10	—		VT	
11	—		GY/PK	
12	—		RD/BU	

Pin	Wire colors/线芯颜色	
	17pins	
1	BN	
2	BU	
3	WH	
4	GN	
5	PK	
6	YE	
7	BK	
8	GY	
9	RD	
10	VT	
11	GY/PK	
12	RD/BU	
13	WH/GN	
14	BN/GN	
15	WH/YE	
16	YE/BN	
17	WH/GY	

Data/数据

M12 device connector/M12设备连接器

Contact layout/针脚分布



CANopen/Devicenet, 5pins B-coded

Pin	Wire colors/线芯颜色	Signal/信号 DeviceNet
1	Shield/屏蔽	Drain
2	RD	V+
3	WH	CAN_H
4	BK	V-
5	BU	CAN_L

Contact layout/针脚分布 : Ethernet/以太网 , 4pins A-coded

Pin	Wire colors/线芯颜色	Signal/信号 Ethernet/以太网
1	YE	TD+
2	OG	TD-
3	WH	RD+
4	BU	RD-

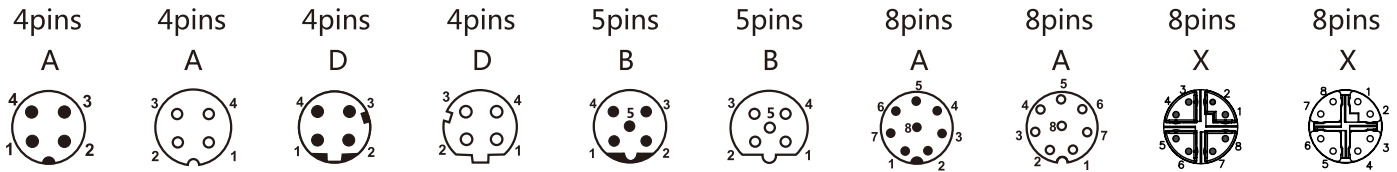
Contact layout and wire colors

针脚分布和线芯颜色

Data / 数据

M12 device connector/M12设备连接器

Contact layout/针脚分布



Wire colors/线芯颜色

PROFIBUS, 5pins , B-coded

Pin	Wire colors 线芯颜色	Signal/信号 PROFIBUS
1	—	—
2	GN	A cable/电缆
3	—	—
4	RD	B cable/电缆
5	Filler wire/填充线	—

shield on housing/屏蔽外壳

CANopen, 5pins , A-coded

Pin	Wire colors 线芯颜色	Signal/信号 CANopen
1	Shield/屏蔽	Drain
2	RD	V+
3	BK	V-
4	WH	CAN_H
5	BU	CAN_L

shield on housing/屏蔽外壳

CANopen, 5pins , A-coded

Pin	Wire colors 线芯颜色	Signal/信号 DeviceNET
1	Shield/屏蔽	Drain
2	RD	V+
3	BK	V-
4	WH	CAN_H
5	BU	CAN_L

shield on housing/屏蔽外壳

INTERBUS, 5pins , B-coded

Pin	Wire colors 线芯颜色	Signal 信号
1	YE	DO
2	GN	DO
3	GY	DI
4	PK	DI
5	BN	COM
—	WH	NC

shield on housing/屏蔽外壳

Ethernet/以太网, 4pins , D-coded

Pin	Wire colors 线芯颜色	Signal/信号 Ethernet/以太网
1	WH/OG	TD+
2	WH/GN	RD+
3	OG	TD-
4	GN	RD-

shield on housing/屏蔽外壳

PROFINET, EtherCAT, Sercos
4pins , D-coded

Pin	Wire colors 线芯颜色	Signal 信号
1	YE	TD+
2	WH	RD+
3	OG	TD-
4	BU	RD-

SFC-Interface/接口 , 4pins , A-coded

Pin	Wire colors 线芯颜色	Signal 信号
1	BU	DO
2	WH	DO
3	BN	DI
4	BK	DI

CC-Link , 4pins , A-coded

Pin	Wire colors 线芯颜色	Signal 信号
1	Shield/屏蔽	SLD
2	WH	DS
3	YE	DG
4	BU	DA

PROFINET, EtherCAT, Sercos
4pins, D-coded

Pin	Wire colors 线芯颜色	Signal 信号
1	BU	DATA-
2	OG	DATA+
3		屏蔽
4		

Data/ 数据

M12 device connector/M12设备连接器

Wire colors/线芯颜色

Ethernet/以太网, 8pins , A-coded

Pin	Wire colors 线芯颜色	Signal/信号 Ethernet/以太网
1	WH/BU	D3-
2	WH/BN	D4+
3	BN	D4-
4	OG	D1-
5	WH/GN	D2+
6	WH/OG	D1+
7	BU	D3+
8	GN	D2-

Ethernet/以太网, 8pins , X-coded

Pin	Wire colors 线芯颜色	Signal/信号 Ethernet/以太网
1	WH/OG	D1+
2	OG	D1-
3	WH/GN	D2+
4	GN	D2-
5	WH/BN	D4+
6	BN	D4-
7	WH/BU	D3+
8	BU	D3-

Varan, 8pins , X-coded

Pin	Wire colors 线芯颜色	Signal 信号
1	n. c.	
2	OG	TD-
3	WH/OG	TD+
4	n. c.	
5	WH/GN	RD+
6	BU	
7	BN	
8	GN	RD-

Power/ 电源

M12 device connector/M12设备连接器

Contact layout/针脚分布

2+PE

S



2+PE

S



3+PE

S



3+PE

S



4pin

T



4pin

T



4+FE

L



4+FE

L



4+FE

E



4+FE

E



4pin

F



4pin

F



4+PE

K



4+PE

K



5+PE

M



5+PE

M



Wire colors/线芯颜色

2+PE , S-coded

Pin	Wire colors/线芯颜色
1	BK1
3	BK2
PE	GN/YE

4pin , T-coded

Pin	Wire colors/线芯颜色
1	BN
2	WH
3	BU
4	BK

4+FE , E-coded

Pin	Wire colors/线芯颜色
1	BN
2	WH
3	BU
4	BK
FE	GY

4+PE , K-coded

Pin	Wire colors/线芯颜色
1	BN
2	WH
3	BU
4	BK
PE	GN/YE

3+PE , S-coded

Pin	Wire colors/线芯颜色
1	BK1
2	BK2
3	BK3
PE	GN/YE

4+FE , L-coded

Pin	Wire colors/线芯颜色
1	BN
2	WH
3	BU
4	BK
FE	GY

4pin , F-coded

Pin	Wire colors/线芯颜色
1	BN
2	WH
3	BU
4	BK

5+PE , M-coded

Pin	Wire colors/线芯颜色
1	BN
2	WH
3	BU
4	BK
5	GY
PE	GN/YE