

## M12 Automation Technology Special Y-Coding

- M12 Y-coding
- 4power+4signal contacts
- 4P ( 0.5mm<sup>2</sup>/20AWG)  
+4S ( 0.25mm<sup>2</sup>/24AWG) wire gauge
- -25°C-85°C temperature range
- 6A/0.5 rated current
- 60V rated voltage
- IP67 degree of protection



## M12 自动化技术特殊连接器Y型



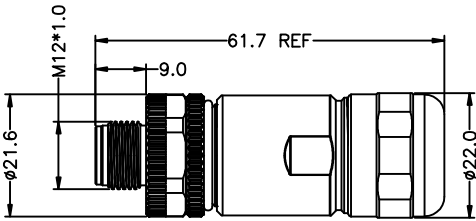
- M12 Y型
- 4电源+4信号
- 4 ( 0.5mm<sup>2</sup>/20AWG)  
+4 ( 0.25mm<sup>2</sup>/24AWG) 线规
- -25°C-85°C温度范围内
- 6A/0.5额定电流
- 60V额定电压
- IP67防护等级

Male assembly connector

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

4power+4signal

Y

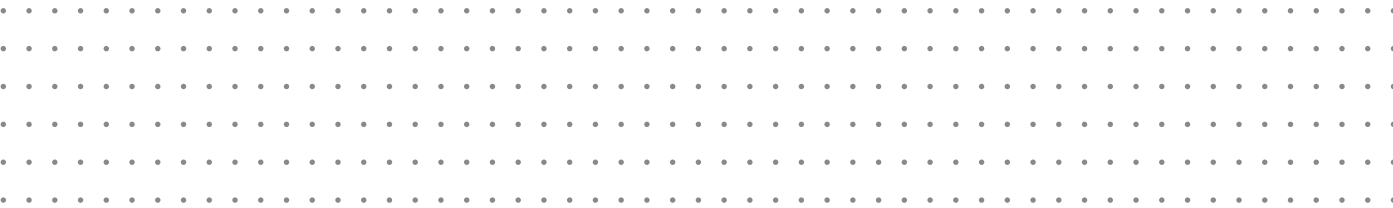


Order Data/订货信息

| Contacts/芯数    | Coding | Order No/订货号  | P/N/料号 |
|----------------|--------|---------------|--------|
| 4power+4signal | Y      | 120808-01-001 | —      |

Specifications/技术参数

| Number of contacts/芯数      | 4power+4signal                         |
|----------------------------|----------------------------------------|
| Termination/接线方式           | crimp/压接                               |
| Wire gauge/线规              | 4P ( 0.5mm²/20AWG)+4S ( 0.25mm²/24AWG) |
| Cable OD/线材直径              | 6~8mm                                  |
| Operating temperature/工作温度 | -25℃~+85℃                              |
| Mechanical operation/插拔次数  | > 100 mating cycles                    |
| Rated voltage/额定电压         | 60V                                    |
| Rated current (40℃)/额定电流   | 6A/0.5A                                |
| Protection degree/防护等级     | IP67/IP68                              |
| Contact resistance/接触电阻    | ≤10mΩ                                  |
| Insulation resistance/绝缘电阻 | ≥100MΩ                                 |
| Pin contact/插针材料           | CuZn                                   |
| Socket contact/插孔材料        | CuSn                                   |
| Contact plating/针孔镀层材料     | Au                                     |





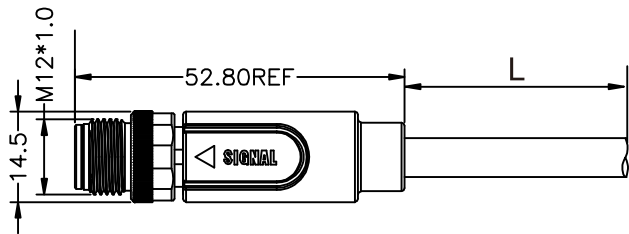
M12 Circular connectors

Male cable

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

4power+4signal

Y

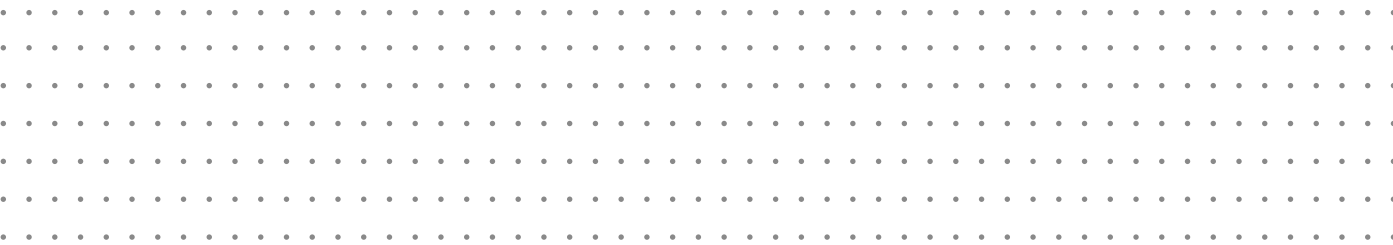


Order Data/订货信息

| Contacts/芯数    | Coding | Order No/订货号  | P/N/料号 |
|----------------|--------|---------------|--------|
| 4power+4signal | Y      | 120808-05-001 | —      |

Specifications/技术参数

| Number of contacts/芯数      | 4power+4signal                                                   |
|----------------------------|------------------------------------------------------------------|
| Termination/接线方式           | moulded on cable/成型线                                             |
| Wire gauge/线规              | 4P ( 0.5mm <sup>2</sup> /20AWG)+4S ( 0.25mm <sup>2</sup> /24AWG) |
| Operating temperature/工作温度 | -25°C ~ +80°C                                                    |
| Mechanical operation/插拔次数  | > 100 mating cycles                                              |
| Rated voltage/额定电压         | 60V                                                              |
| Rated current (40°C)/额定电流  | 6A/0.5A                                                          |
| Protection degree/防护等级     | IP67/IP68                                                        |
| Contact resistance/接触电阻    | ≤5mΩ                                                             |
| Insulation resistance/绝缘电阻 | ≥100MΩ                                                           |
| Pin contact/插针材料           | CuZn                                                             |
| Socket contact/插孔材料        | CuSn                                                             |
| Contact plating/针孔镀层材料     | Au                                                               |

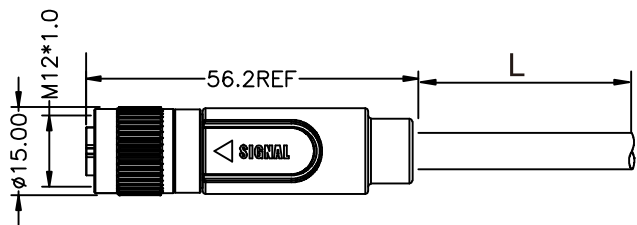


Female cable

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

4power+4signal

Y

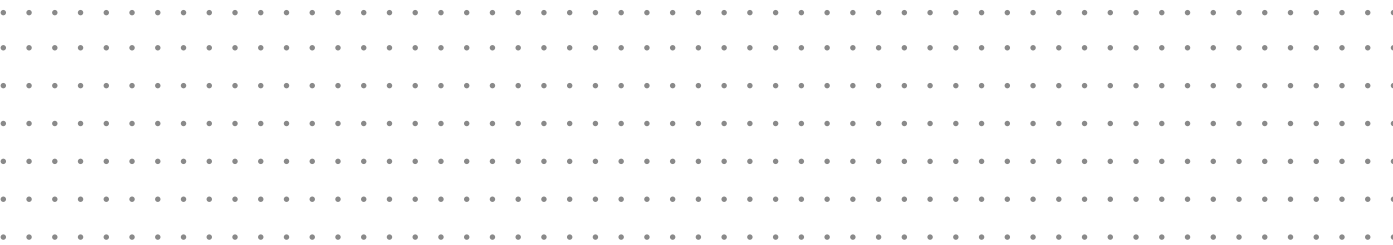


Order Data/订货信息

| Contacts/芯数    | Coding | Order No/订货号  | P/N/料号 |
|----------------|--------|---------------|--------|
| 4power+4signal | Y      | 120808-06-001 | —      |

Specifications/技术参数

| Number of contacts/芯数      | 4power+4signal                         |
|----------------------------|----------------------------------------|
| Termination/接线方式           | moulded on cable/成型线                   |
| Wire gauge/线规              | 4P ( 0.5mm²/20AWG)+4S ( 0.25mm²/24AWG) |
| Operating temperature/工作温度 | -25°C ~ +80°C                          |
| Mechanical operation/插拔次数  | > 100 mating cycles                    |
| Rated voltage/额定电压         | 60V                                    |
| Rated current (40°C)/额定电流  | 6A/0.5A                                |
| Protection degree/防护等级     | IP67/IP68                              |
| Contact resistance/接触电阻    | ≤5mΩ                                   |
| Insulation resistance/绝缘电阻 | ≥100MΩ                                 |
| Pin contact/插针材料           | CuZn                                   |
| Socket contact/插孔材料        | CuSn                                   |
| Contact plating/针孔镀层材料     | Au                                     |

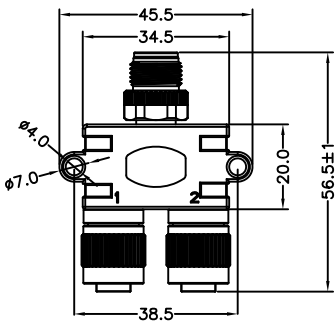


M12 Circular connectors

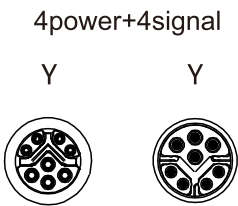
Y-Spiltter

Product figure(Male to Dual Female)

Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Order Data/订货信息

| Contacts/芯数    | Coding | Order No/订货号  | P/N/料号 |
|----------------|--------|---------------|--------|
| 4power+4signal | Y      | 120808-10-001 | —      |

Specifications/技术参数

| Number of contacts/芯数      | 4power+4signal      |
|----------------------------|---------------------|
| Termination/接线方式           | —                   |
| Wire gauge/线规              | —                   |
| Operating temperature/工作温度 | -25°C ~ +80°C       |
| Mechanical operation/插拔次数  | > 100 mating cycles |
| Rated voltage/额定电压         | 60V                 |
| Rated current (40°C)/额定电流  | 6A/0.5A             |
| Protection degree/防护等级     | IP67/IP68           |
| Contact resistance/接触电阻    | ≤5mΩ                |
| Insulation resistance/绝缘电阻 | ≥100MΩ              |
| Pin contact/插针材料           | CuZn                |
| Socket contact/插孔材料        | CuSn                |
| Contact plating/针孔镀层材料     | Au                  |

# M12 4(signal)+4(power)

## M12 Automation Technology Special connector

M12 4(signal)+4(power)  
8 contacts  
-25°C-85°C temperature range  
1.5A+6A rated current  
30V+50V rated voltage  
IP67 degree of protection



## M12 自动化技术特殊连接器



- M12 4(信号)+4(电源)
- 8 芯
- -25°C-85°C温度范围内
- 1.5A+6A额定电流
- 30V+50V额定电压
- IP67防护等级

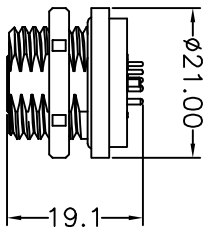
# M12 Circular connectors

## Female panel connector

Product figure (front fastened)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

4+4

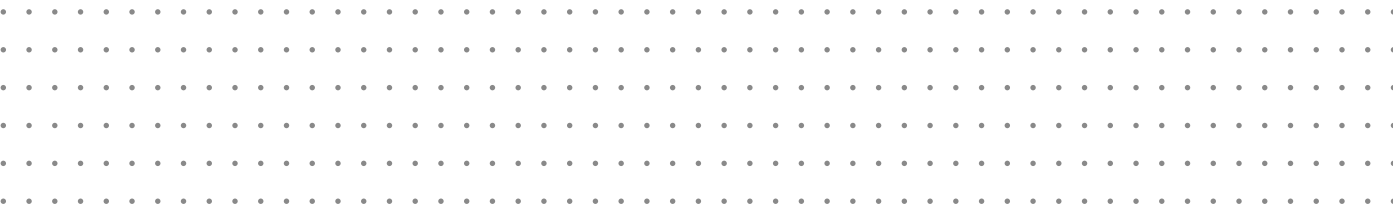


## Order Data/订货信息

| Contacts/芯数 | Order No/订货号  | P/N/料号 |
|-------------|---------------|--------|
| 4+4         | 120044-04-001 | —      |

## Specifications/技术参数

|                            |                     |
|----------------------------|---------------------|
| Number of contacts/芯数      | 4(signal)+4(power)  |
| Termination/接线方式           | PCB                 |
| Operating temperature/工作温度 | -25°C ~ +85°C       |
| Mechanical operation/插拔次数  | > 100 mating cycles |
| Rated voltage/额定电压         | 30V+50V             |
| Rated current (40°C)/额定电流  | 1.5A+6A             |
| Protection degree/防护等级     | IP67/IP68           |
| Contact resistance/接触电阻    | ≤5mΩ                |
| Insulation resistance/绝缘电阻 | ≥100MΩ              |
| Pin contact/插针材料           | CuZn                |
| Socket contact/插孔材料        | CuSn                |
| Contact plating/针孔镀层材料     | Au                  |



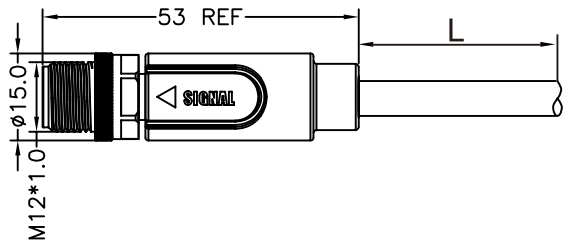
M12 Circular connectors

Male cable

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

4+4

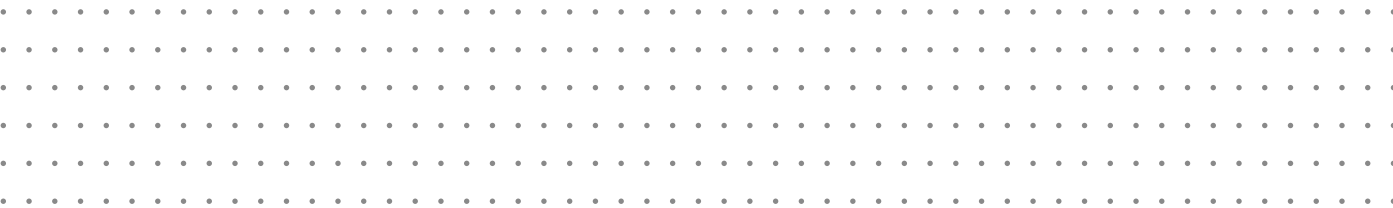


Order Data/订货信息

| Contacts/芯数 | Order No/订货号  | P/N/料号 |
|-------------|---------------|--------|
| 4+4         | 120044-05-001 | —      |

Specifications/技术参数

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| Number of contacts/芯数      | 4(signal)+4(power)                                                        |
| Termination/接线方式           | moulded on cable/成型线                                                      |
| Wire gauge/线规              | 0.5mm <sup>2</sup> *4C+0.14mm <sup>2</sup> *2P+AEB(20AWG*4C+26AWG*2P+AEB) |
| Operating temperature/工作温度 | -25°C ~ +80°C                                                             |
| Mechanical operation/插拔次数  | > 100 mating cycles                                                       |
| Rated voltage/额定电压         | 30V+50V                                                                   |
| Rated current (40°C)/额定电流  | 1.5A+6A                                                                   |
| Protection degree/防护等级     | IP67/IP68                                                                 |
| Contact resistance/接触电阻    | ≤5mΩ                                                                      |
| Insulation resistance/绝缘电阻 | ≥100MΩ                                                                    |
| Pin contact/插针材料           | CuZn                                                                      |
| Socket contact/插孔材料        | CuSn                                                                      |
| Contact plating/针孔镀层材料     | Au                                                                        |



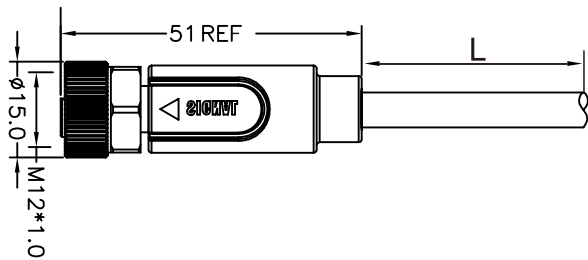
M12 Circular connectors

Female cable

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

4+4

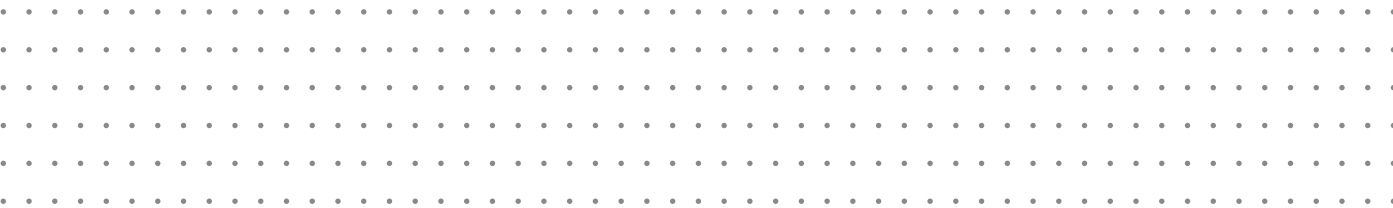


Order Data/订货信息

| Contacts/芯数 | Order No/订货号  | P/N/料号 |
|-------------|---------------|--------|
| 4+4         | 120044-06-001 | —      |

Specifications/技术参数

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| Number of contacts/芯数      | 4(signal)+4(power)                                                        |
| Termination/接线方式           | moulded on cable/成型线                                                      |
| Wire gauge/线规              | 0.5mm <sup>2</sup> *4C+0.14mm <sup>2</sup> *2P+AEB(20AWG*4C+26AWG*2P+AEB) |
| Operating temperature/工作温度 | -25°C ~ +80°C                                                             |
| Mechanical operation/插拔次数  | > 100 mating cycles                                                       |
| Rated voltage/额定电压         | 30V+50V                                                                   |
| Rated current (40°C)/额定电流  | 1.5A+6A                                                                   |
| Protection degree/防护等级     | IP67/IP68                                                                 |
| Contact resistance/接触电阻    | ≤5mΩ                                                                      |
| Insulation resistance/绝缘电阻 | ≥100MΩ                                                                    |
| Pin contact/插针材料           | CuZn                                                                      |
| Socket contact/插孔材料        | CuSn                                                                      |
| Contact plating/针孔镀层材料     | Au                                                                        |



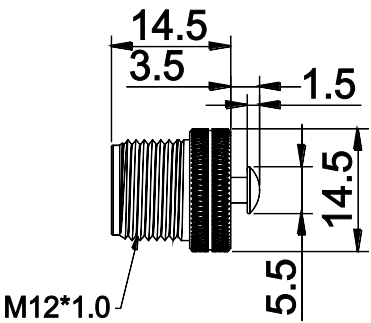
# M12 Circular connectors

## Protection cap for female connector

Product figure



Scale diagram



### Order Data/订货信息

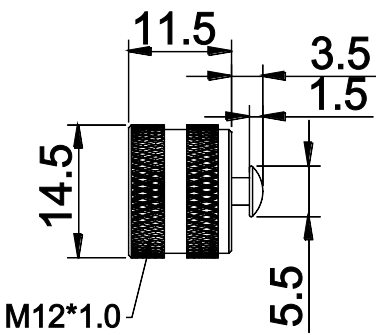
| Order No/订货号  | P/N/料号 |
|---------------|--------|
| 120000-02-001 | CAP01  |

## Protection cap for Male connector

Product figure



Scale diagram



### Order Data/订货信息

| Order No/订货号  | P/N/料号 |
|---------------|--------|
| 120000-01-001 | CAP02  |



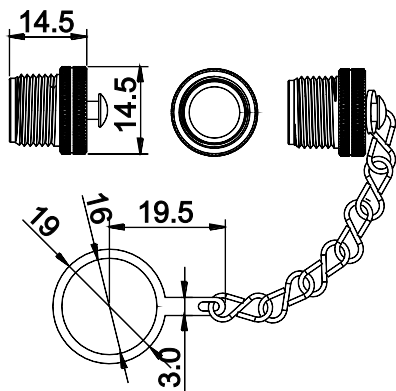
M12 Circular connectors

Protection cap for female connector

Product figure



Scale diagram



Order Data/订货信息

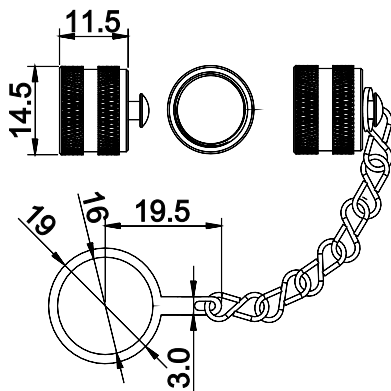
| Order No/订货号  | P/N/料号 |
|---------------|--------|
| 120000-02-002 | CAP03  |

Protection cap for Male connector

Product figure



Scale diagram



Order Data/订货信息

| Order No/订货号  | P/N/料号 |
|---------------|--------|
| 120000-01-002 | CAP04  |

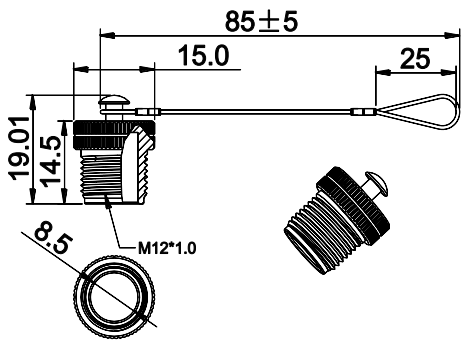
# M12 Circular connectors

## Protection cap for female connector

Product figure



Scale diagram

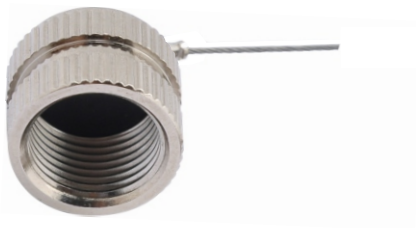


### Order Data/订货信息

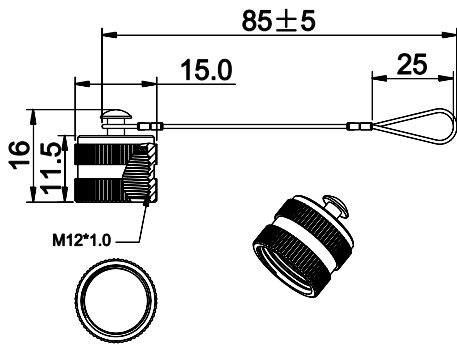
| Order No/订货号  | P/N/料号 |
|---------------|--------|
| 120000-02-003 | CAP05  |

## Protection cap for Male connector

Product figure



Scale diagram



### Order Data/订货信息

| Order No/订货号  | P/N/料号 |
|---------------|--------|
| 120000-01-003 | CAP06  |

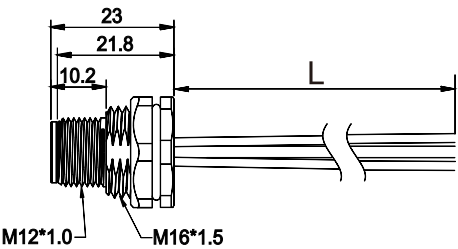
M12 Circular connectors

Male panel connector

Product figure (front fastened)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

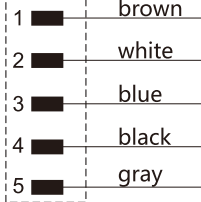
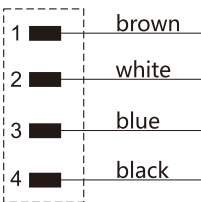
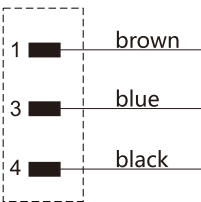


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-911 | 120103-03-921 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-911 | 120104-03-921 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-911 | 120105-03-921 |
| 0.2M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-912 | 120103-03-922 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-912 | 120104-03-922 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-912 | 120105-03-922 |
| 0.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-913 | 120103-03-923 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-913 | 120104-03-923 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-913 | 120105-03-923 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-914 | 120103-03-924 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-914 | 120104-03-924 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-914 | 120105-03-924 |

Specifications/技术参数

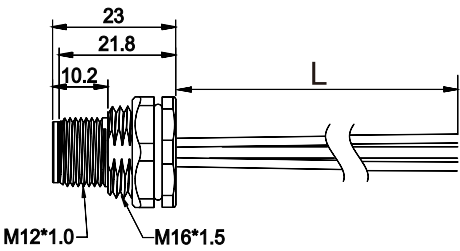
| Number of contacts/芯数      | 3             | 4 | 5   |
|----------------------------|---------------|---|-----|
| Rated voltage/额定电压         | 250V          |   | 60V |
| Rated current (40°C)/额定电流  | 4A            |   |     |
| Protection degree/防护等级     | IP67/IP68     |   |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |   |     |

Male panel connector

Product figure (front fastened)



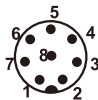
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

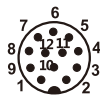
8pins

A

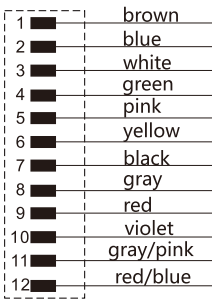
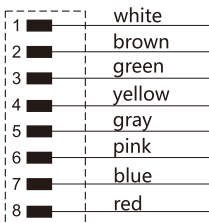


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-911 | 120108-03-921 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-911 | 120112-03-921 |
| 0.2M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-912 | 120108-03-922 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-912 | 120112-03-922 |
| 0.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-913 | 120108-03-923 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-913 | 120112-03-923 |
| 1.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-914 | 120108-03-924 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-914 | 120112-03-924 |

Specifications/技术参数

| Number of contacts/芯数      | 8           | 12   |
|----------------------------|-------------|------|
| Rated voltage/额定电压         | 30V         |      |
| Rated current (40°C)/额定电流  | 2A          | 1.5A |
| Protection degree/防护等级     | IP67/IP68   |      |
| Operating temperature/工作温度 | -25°C~+80°C |      |

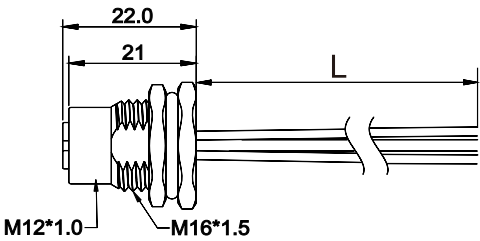
M12 Circular connectors

Female panel connector

Product figure (front fastened)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

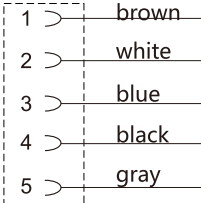
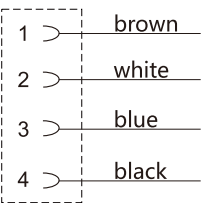
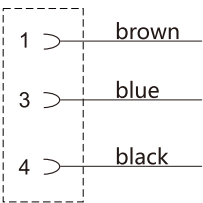


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-911 | 120103-04-921 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-911 | 120104-04-921 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-911 | 120105-04-921 |
| 0.2M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-912 | 120103-04-922 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-912 | 120104-04-922 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-912 | 120105-04-922 |
| 0.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-913 | 120103-04-923 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-913 | 120104-04-923 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-913 | 120105-04-923 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-914 | 120103-04-924 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-914 | 120104-04-924 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-914 | 120105-04-924 |

Specifications/技术参数

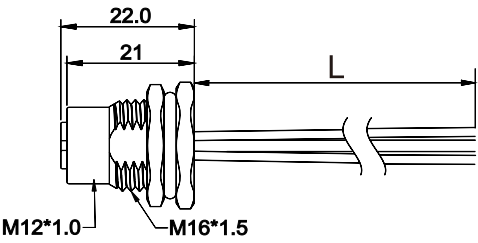
| Number of contacts/芯数      | 3             | 4 | 5   |
|----------------------------|---------------|---|-----|
| Rated voltage/额定电压         | 250V          |   | 60V |
| Rated current (40°C)/额定电流  | 4A            |   |     |
| Protection degree/防护等级     | IP67/IP68     |   |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |   |     |

Female panel connector

Product figure (front fastened)



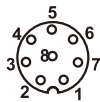
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

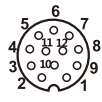
8pins

A

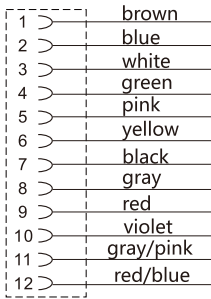
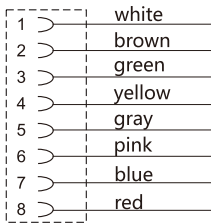


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-911 | 120108-04-921 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-911 | 120112-04-921 |
| 0.2M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-912 | 120108-04-922 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-912 | 120112-04-922 |
| 0.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-913 | 120108-04-923 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-913 | 120112-04-923 |
| 1.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-914 | 120108-04-924 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-914 | 120112-04-924 |

Specifications/技术参数

| Number of contacts/芯数      | 8             | 12   |
|----------------------------|---------------|------|
| Rated voltage/额定电压         | 30V           |      |
| Rated current (40°C)/额定电流  | 2A            | 1.5A |
| Protection degree/防护等级     | IP67/IP68     |      |
| Operating temperature/工作温度 | -25°C ~ +80°C |      |

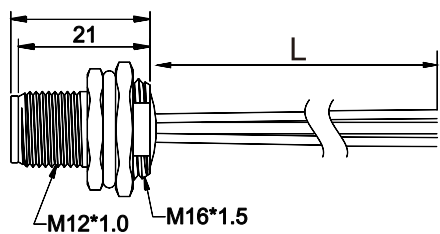
M12 Circular connectors

Male panel connector

Product figure (rear fastened)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

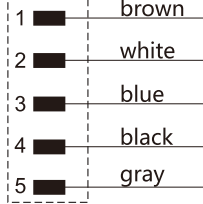
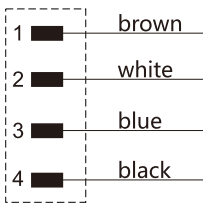
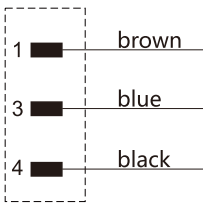


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-811 | 120103-03-821 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-811 | 120104-03-821 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-811 | 120105-03-821 |
| 0.2M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-812 | 120103-03-822 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-812 | 120104-03-822 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-812 | 120105-03-822 |
| 0.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-813 | 120103-03-823 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-813 | 120104-03-823 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-813 | 120105-03-823 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-03-814 | 120103-03-824 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-03-814 | 120104-03-824 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-814 | 120105-03-824 |

Specifications/技术参数

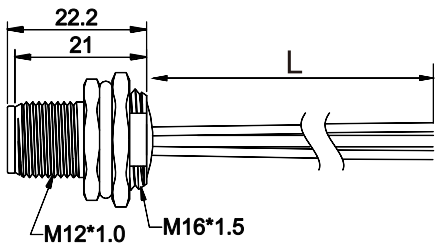
| Number of contacts/芯数      | 3             | 4 | 5   |
|----------------------------|---------------|---|-----|
| Rated voltage/额定电压         | 250V          |   | 60V |
| Rated current (40°C)/额定电流  | 4A            |   |     |
| Protection degree/防护等级     | IP67/IP68     |   |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |   |     |

Male panel connector

Product figure (rear fastened)



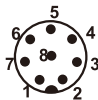
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

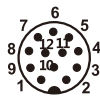
8pins

A

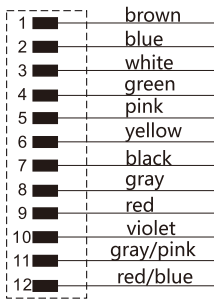
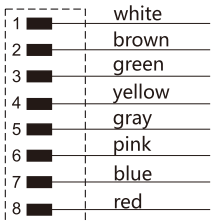


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-811 | 120108-03-821 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-811 | 120112-03-821 |
| 0.2M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-812 | 120108-03-822 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-812 | 120112-03-822 |
| 0.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-813 | 120108-03-823 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-813 | 120112-03-823 |
| 1.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-03-814 | 120108-03-824 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-03-814 | 120112-03-824 |

Specifications/技术参数

| Number of contacts/芯数      | 8           | 12   |
|----------------------------|-------------|------|
| Rated voltage/额定电压         | 30V         |      |
| Rated current (40°C)/额定电流  | 2A          | 1.5A |
| Protection degree/防护等级     | IP67/IP68   |      |
| Operating temperature/工作温度 | -25°C~+80°C |      |



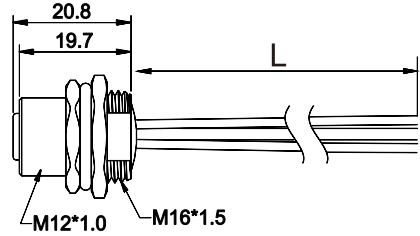
# M12 Circular connectors

## Female panel connector

Product figure (rear fastened)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

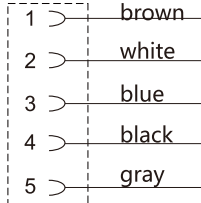
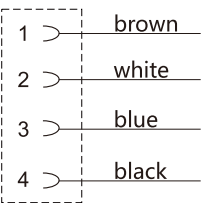
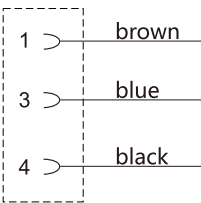


5pins

A



Circuit diagram/电路图



## Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-811 | 120103-04-821 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-811 | 120104-04-821 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-811 | 120105-04-821 |
| 0.2M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-812 | 120103-04-822 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-812 | 120104-04-822 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-812 | 120105-04-822 |
| 0.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-813 | 120103-04-823 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-813 | 120104-04-823 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-813 | 120105-04-823 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-04-814 | 120103-04-824 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-04-814 | 120104-04-824 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-814 | 120105-04-824 |

## Specifications/技术参数

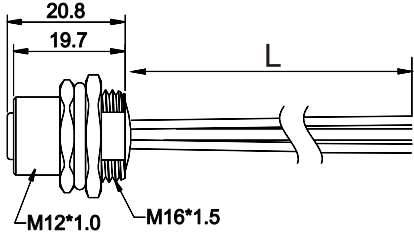
| Number of contacts/芯数      | 3             | 4 | 5   |
|----------------------------|---------------|---|-----|
| Rated voltage/额定电压         | 250V          |   | 60V |
| Rated current (40°C)/额定电流  | 4A            |   |     |
| Protection degree/防护等级     | IP67/IP68     |   |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |   |     |

Female panel connector

Product figure (rear fastened)



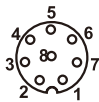
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

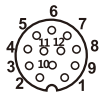
8pins

A

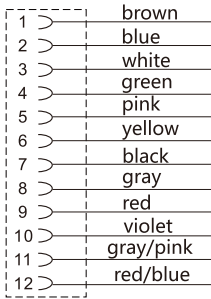
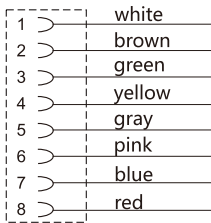


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-811 | 120108-04-821 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-811 | 120112-04-821 |
| 0.2M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-812 | 120108-04-822 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-812 | 120112-04-822 |
| 0.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-813 | 120108-04-823 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-813 | 120112-04-923 |
| 1.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-04-814 | 120108-04-824 |
|                      | 12pins         | 0.25mm <sup>2</sup> | 120112-04-814 | 120112-04-824 |

Specifications/技术参数

| Number of contacts/芯数      | 8           | 12   |
|----------------------------|-------------|------|
| Rated voltage/额定电压         | 30V         |      |
| Rated current (40°C)/额定电流  | 2A          | 1.5A |
| Protection degree/防护等级     | IP67/IP68   |      |
| Operating temperature/工作温度 | -25°C~+80°C |      |

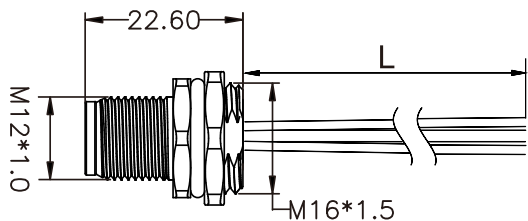
M12 Circular connectors

Male panel connector (S-coded)

Product figure (rear fastened)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

S

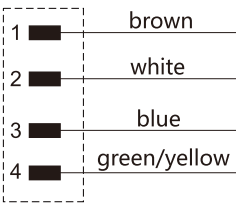


4pins

S



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-03-811 | 120503-03-821 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-03-811 | 120504-03-821 |
| 0.2M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-03-812 | 120503-03-822 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-03-812 | 120504-03-822 |
| 0.5M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-03-813 | 120503-03-823 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-03-813 | 120504-03-823 |
| 1.0M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-03-814 | 120503-03-824 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-03-814 | 120504-03-824 |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4   |
|----------------------------|---------------|-----|
| Rated voltage/额定电压         | 630V          |     |
| Rated current (40°C)/额定电流  | 16A           | 12A |
| Protection degree/防护等级     | IP67/IP68     |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |     |

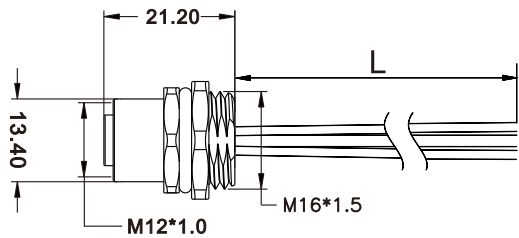
M12 Circular connectors

Female panel connector (S-coded)

Product figure (rear fastened)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

S

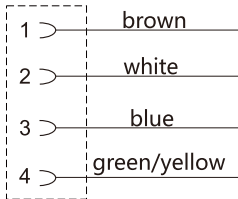
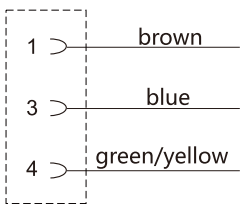


4pins

S



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-04-811 | 120503-04-821 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-04-811 | 120504-04-821 |
| 0.2M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-04-812 | 120503-04-822 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-04-812 | 120504-04-822 |
| 0.5M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-04-813 | 120503-04-823 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-04-813 | 120504-04-823 |
| 1.0M                 | 3pins          | 1.5mm <sup>2</sup>  | 120503-04-814 | 120503-04-824 |
|                      | 4pins          | 1.5mm <sup>2</sup>  | 120504-04-814 | 120504-04-824 |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4   |
|----------------------------|---------------|-----|
| Rated voltage/额定电压         | 630V          |     |
| Rated current (40°C)/额定电流  | 16A           | 12A |
| Protection degree/防护等级     | IP67/IP68     |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |     |

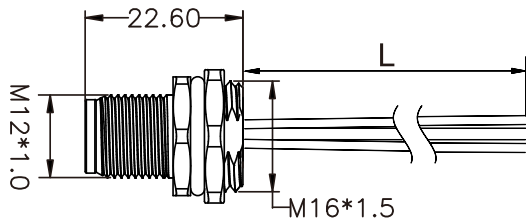
M12 Circular connectors

Male panel connector (T-coded)

Product figure (rear fastened)



Scale diagram



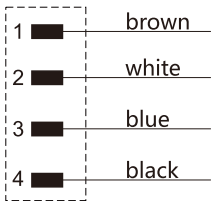
Contact layout/针孔排布 (Front view/前视图)

4pins

T



Circuit diagram/电路图

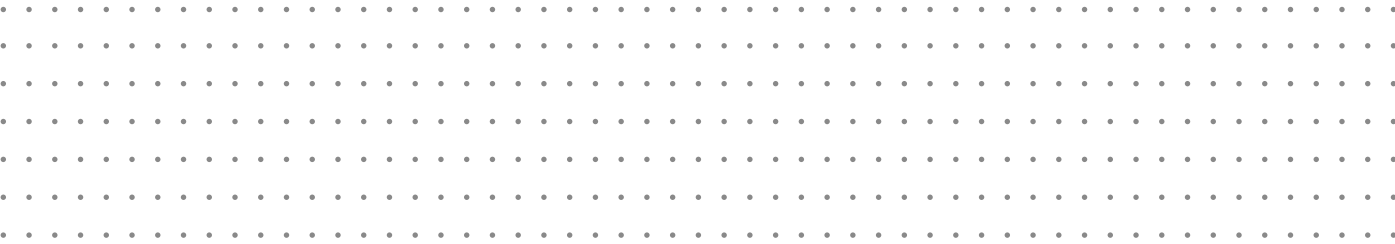


Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-03-811 | 120604-03-821 |
| 0.2M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-03-812 | 120604-03-822 |
| 0.5M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-03-813 | 120604-03-823 |
| 1.0M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-03-814 | 120604-03-824 |

Specifications/技术参数

|                            |             |
|----------------------------|-------------|
| Number of contacts/芯数      | 4           |
| Rated voltage/额定电压         | 63V         |
| Rated current (40°C)/额定电流  | 12A         |
| Protection degree/防护等级     | IP67/IP68   |
| Operating temperature/工作温度 | -25°C~+80°C |



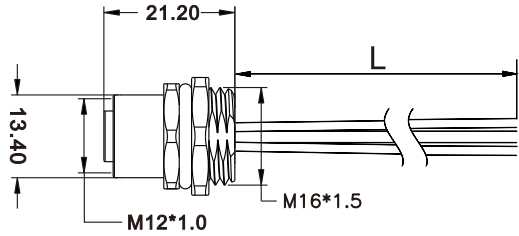
M12 Circular connectors

Female panel connector (T-coded)

Product figure (rear fastened)



Scale diagram



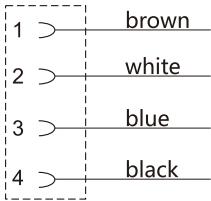
Contact layout/针孔排布 (Front view/前视图)

4pins

T



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-04-811 | 120604-04-821 |
| 0.2M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-04-812 | 120604-04-822 |
| 0.5M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-04-813 | 120604-04-823 |
| 1.0M                 | 4pins          | 1.5mm <sup>2</sup>  | 120604-04-814 | 120604-04-824 |

Specifications/技术参数

|                            |             |
|----------------------------|-------------|
| Number of contacts/芯数      | 4           |
| Rated voltage/额定电压         | 63V         |
| Rated current (40°C)/额定电流  | 12A         |
| Protection degree/防护等级     | IP67/IP68   |
| Operating temperature/工作温度 | -25°C~+80°C |

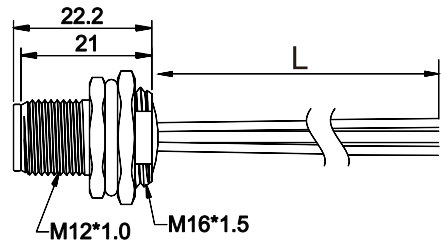
M12 Circular connectors

Male panel connector (A/B-coded)

Product figure (rear fastened) DeviceNet, CANopen



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

5pins

A

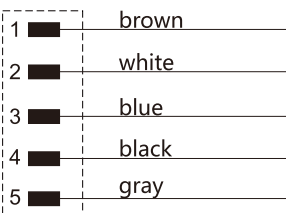
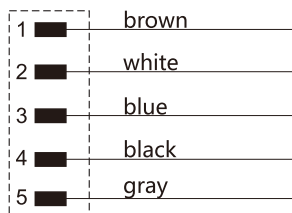


5pins

B



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Coding | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|--------|----------------|---------------------|---------------|---------------|
| 0.1M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-831 | 120105-03-841 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-03-831 | 120205-03-841 |
| 0.2M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-832 | 120105-03-842 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-03-832 | 120205-03-842 |
| 0.5M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-833 | 120105-03-843 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-03-833 | 120205-03-843 |
| 1.0M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-03-834 | 120105-03-844 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-03-834 | 120205-03-844 |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 5             |
| Rated voltage/额定电压         | 60V           |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |

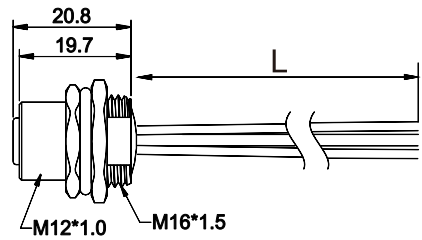
# M12 Circular connectors

## Female panel connector (A/B-coded)

Product figure (rear fastened) DeviceNet, CANopen



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

5pins

A

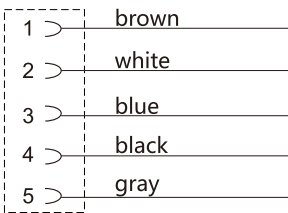
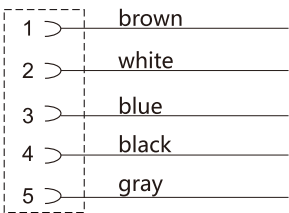


5pins

B



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Coding | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|--------|----------------|---------------------|---------------|---------------|
| 0.1M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-831 | 120105-04-841 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-04-831 | 120205-04-841 |
| 0.2M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-832 | 120105-04-842 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-04-832 | 120205-04-842 |
| 0.5M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-833 | 120105-04-843 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-04-833 | 120205-04-843 |
| 1.0M                 | A      | 5pins          | 0.34mm <sup>2</sup> | 120105-04-834 | 120105-04-844 |
|                      | B      | 5pins          | 0.34mm <sup>2</sup> | 120205-04-834 | 120205-04-844 |

Specifications/技术参数

|                            |             |
|----------------------------|-------------|
| Number of contacts/芯数      | 5           |
| Rated voltage/额定电压         | 60V         |
| Rated current (40°C)/额定电流  | 4A          |
| Protection degree/防护等级     | IP67/IP68   |
| Operating temperature/工作温度 | -25°C~+80°C |



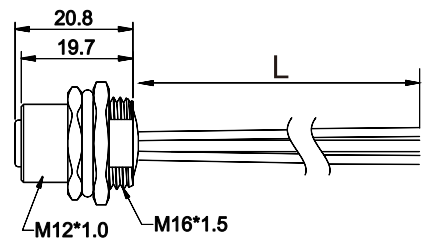
M12 Circular connectors

Female panel connector (D-coded)

Product figure (rear fastened) ETHERNET CAT5



Scale diagram



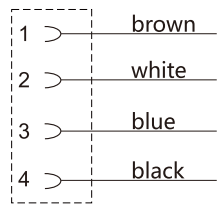
Contact layout/针孔排布 (Front view/前视图)

4pins

D



Circuit diagram/电路图

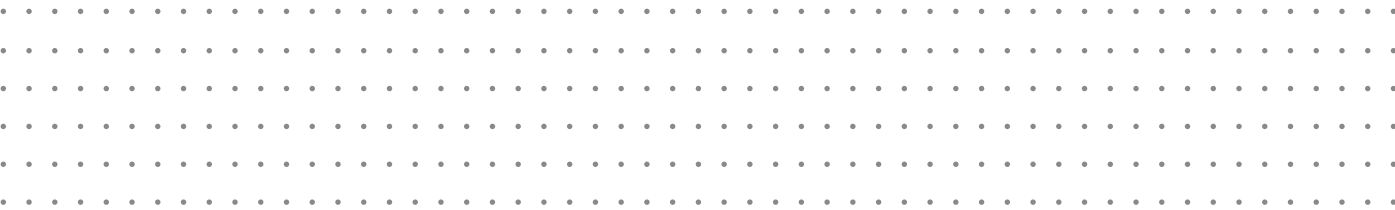


Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 4pins          | 0.34mm <sup>2</sup> | 120404-04-831 | 120404-04-841 |
| 0.2M                 | 4pins          | 0.34mm <sup>2</sup> | 120404-04-832 | 120404-04-842 |
| 0.5M                 | 4pins          | 0.34mm <sup>2</sup> | 120404-04-833 | 120404-04-843 |
| 1.0M                 | 4pins          | 0.34mm <sup>2</sup> | 120404-04-834 | 120404-04-844 |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 4             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |



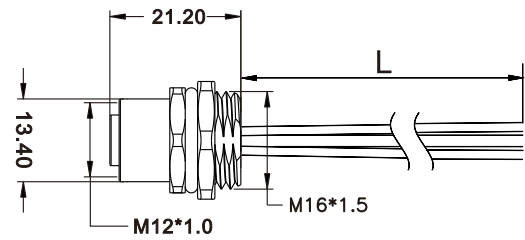
M12 Circular connectors

Female panel connector (X-coded)

Product figure (rear fastened) ETHERNET CAT6



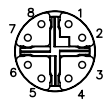
Scale diagram



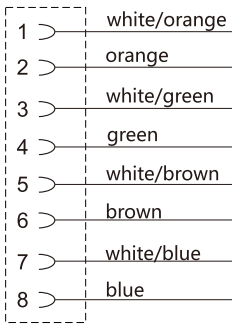
Contact layout/针孔排布 (Front view/前视图)

8pins

X



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           | TPE           |
|----------------------|----------------|---------------------|---------------|---------------|
| 0.1M                 | 8pins          | 0.25mm <sup>2</sup> | 120708-04-831 | 120708-04-841 |
| 0.2M                 | 8pins          | 0.25mm <sup>2</sup> | 120708-04-832 | 120708-04-842 |
| 0.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120708-04-833 | 120708-04-843 |
| 1.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120708-04-834 | 120708-04-844 |

Specifications/技术参数

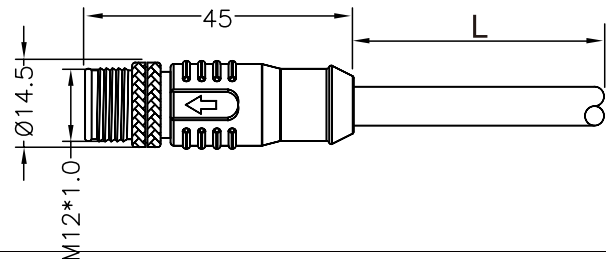
|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 8             |
| Rated voltage/额定电压         | 30V           |
| Rated current (40°C)/额定电流  | 2A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |

Male cable

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

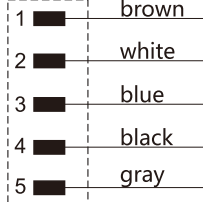
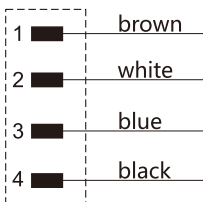
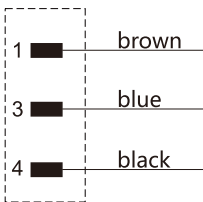


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-601 | 120103-05-641 | 120103-05-621 | 120103-05-661 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-601 | 120104-05-641 | 120104-05-621 | 120104-05-661 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-601 | 120105-05-641 | 120105-05-621 | 120105-05-661 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-602 | 120103-05-642 | 120103-05-622 | 120103-05-662 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-602 | 120104-05-642 | 120104-05-622 | 120104-05-662 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-602 | 120105-05-642 | 120105-05-622 | 120105-05-662 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-603 | 120103-05-643 | 120103-05-623 | 120103-05-663 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-603 | 120104-05-643 | 120104-05-623 | 120104-05-663 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-603 | 120105-05-643 | 120105-05-623 | 120105-05-663 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-604 | 120103-05-644 | 120103-05-624 | 120103-05-664 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-604 | 120104-05-644 | 120104-05-624 | 120104-05-664 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-604 | 120105-05-644 | 120105-05-624 | 120105-05-664 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-05-605 | 120103-05-645 | 120103-05-625 | 120103-05-665 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-605 | 120104-05-645 | 120104-05-625 | 120104-05-665 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-605 | 120105-05-645 | 120105-05-625 | 120105-05-665 |

Specifications/技术参数

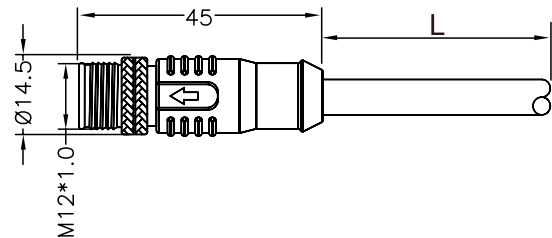
| Number of contacts/芯数      | 3           | 4         | 5         |
|----------------------------|-------------|-----------|-----------|
| Rated voltage/额定电压         | 250V        |           | 60V       |
| Rated current (40°C)/额定电流  | 4A          |           |           |
| Protection degree/防护等级     | IP67/IP68   |           |           |
| Operating temperature/工作温度 | -25°C~+80°C |           |           |
| Cable OD /线材直径             | 4.5~5.0mm   | 4.6~6.0mm | 5.8~6.0mm |

Male cable

Product figure



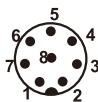
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

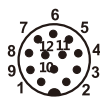
8pins

A

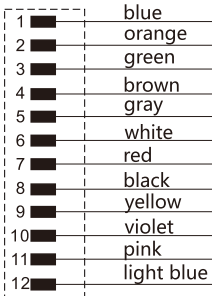


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径  | PVC           |               | PUR           |               |
|----------------------|----------------|----------------------|---------------|---------------|---------------|---------------|
|                      |                |                      | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup>  | 120108-05-601 | 120108-05-641 | 120108-05-621 | 120108-05-661 |
|                      | 12pins         | 0.14mm <sup>2</sup>  | 120112-05-601 | 120112-05-641 | 120112-05-621 | 120112-05-661 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup>  | 120108-05-602 | 120108-05-642 | 120108-05-622 | 120108-05-662 |
|                      | 12pins         | 0.145mm <sup>2</sup> | 120112-05-602 | 120112-05-642 | 120112-05-622 | 120112-05-662 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup>  | 120108-05-603 | 120108-05-643 | 120108-05-623 | 120108-05-663 |
|                      | 12pins         | 0.14mm <sup>2</sup>  | 120112-05-603 | 120112-05-643 | 120112-05-623 | 120112-05-663 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup>  | 120108-05-604 | 120108-05-644 | 120108-05-624 | 120108-05-664 |
|                      | 12pins         | 0.14mm <sup>2</sup>  | 120112-05-604 | 120112-05-644 | 120112-05-624 | 120112-05-664 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup>  | 120108-05-605 | 120108-05-645 | 120108-05-625 | 120108-05-665 |
|                      | 12pins         | 0.14mm <sup>2</sup>  | 120112-05-605 | 120112-05-645 | 120112-05-625 | 120112-05-665 |

Specifications/技术参数

| Number of contacts/芯数      | 8             | 12        |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 30V           |           |
| Rated current (40°C)/额定电流  | 2A            | 1.5A      |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 6.5mm         | 6.5~7.0mm |

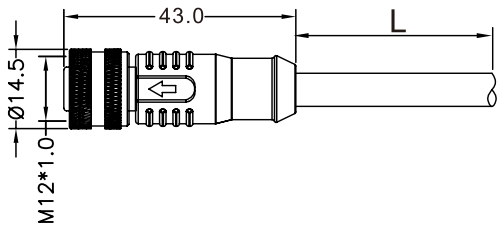
# M12 Circular connectors

## Female cable

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

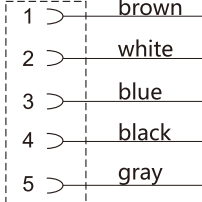
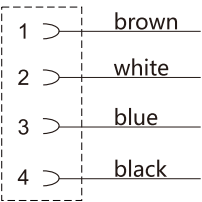
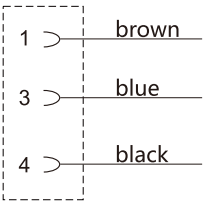


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-601 | 120103-06-641 | 120103-06-621 | 120103-06-661 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-601 | 120104-06-641 | 120104-06-621 | 120104-06-661 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-601 | 120105-06-641 | 120105-06-621 | 120105-06-661 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-602 | 120103-06-642 | 120103-06-622 | 120103-06-662 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-602 | 120104-06-642 | 120104-06-622 | 120104-06-662 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-602 | 120105-06-642 | 120105-06-622 | 120105-06-662 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-603 | 120103-06-643 | 120103-06-623 | 120103-06-663 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-603 | 120104-06-643 | 120104-06-623 | 120104-06-663 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-603 | 120105-06-643 | 120105-06-623 | 120105-06-663 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-604 | 120103-06-644 | 120103-06-624 | 120103-06-664 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-604 | 120104-06-644 | 120104-06-624 | 120104-06-664 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-604 | 120105-06-644 | 120105-06-624 | 120105-06-664 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-06-605 | 120103-06-645 | 120103-06-625 | 120103-06-665 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-605 | 120104-06-645 | 120104-06-625 | 120104-06-665 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-605 | 120105-06-645 | 120105-06-625 | 120105-06-665 |

Specifications/技术参数

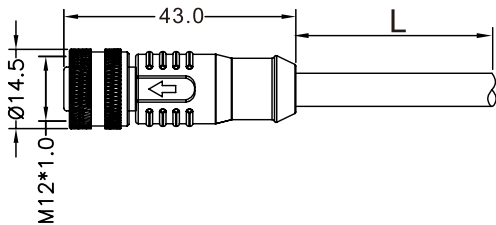
| Number of contacts/芯数      | 3             | 4         | 5         |
|----------------------------|---------------|-----------|-----------|
| Rated voltage/额定电压         | 250V          |           | 60V       |
| Rated current (40°C)/额定电流  | 4A            |           |           |
| Protection degree/防护等级     | IP67/IP68     |           |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |           |
| Cable OD /线材直径             | 4.5~5.0mm     | 4.6~6.0mm | 5.8~6.0mm |

Female cable

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

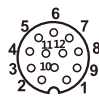
8pins

A

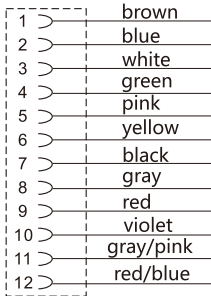
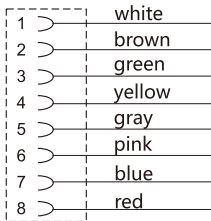


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-601 | 120108-06-641 | 120108-06-621 | 120108-06-661 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-601 | 120112-06-641 | 120112-06-621 | 120112-06-661 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-602 | 120108-06-642 | 120108-06-622 | 120108-06-662 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-602 | 120112-06-642 | 120112-06-622 | 120112-06-662 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-603 | 120108-06-643 | 120108-06-623 | 120108-06-663 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-603 | 120112-06-643 | 120112-06-623 | 120112-06-663 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-604 | 120108-06-644 | 120108-06-624 | 120108-06-664 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-604 | 120112-06-644 | 120112-06-624 | 120112-06-664 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup> | 120108-06-605 | 120108-06-645 | 120108-06-625 | 120108-06-665 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-605 | 120112-06-645 | 120112-06-625 | 120112-06-665 |

Specifications/技术参数

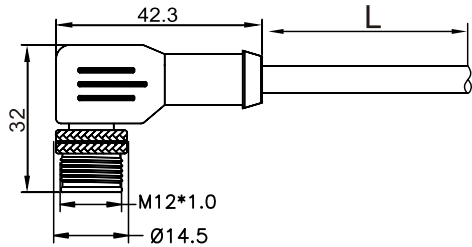
|                            |             |           |
|----------------------------|-------------|-----------|
| Number of contacts/芯数      | 8           | 12        |
| Rated voltage/额定电压         | 30V         |           |
| Rated current (40°C)/额定电流  | 2A          | 1.5A      |
| Protection degree/防护等级     | IP67/IP68   |           |
| Operating temperature/工作温度 | -25°C~+80°C |           |
| Cable OD /线材直径             | 6.5mm       | 6.5~7.0mm |

Male cable (90°)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

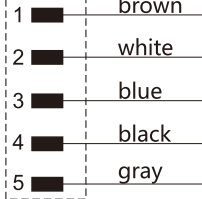
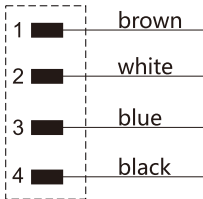
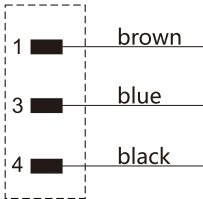


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-901 | 120103-05-941 | 120103-05-921 | 120103-05-961 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-901 | 120104-05-941 | 120104-05-921 | 120104-05-961 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-901 | 120105-05-941 | 120105-05-921 | 120105-05-961 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-902 | 120103-05-942 | 120103-05-922 | 120103-05-962 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-902 | 120104-05-942 | 120104-05-922 | 120104-05-962 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-902 | 120105-05-942 | 120105-05-922 | 120105-05-962 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-903 | 120103-05-943 | 120103-05-923 | 120103-05-963 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-903 | 120104-05-943 | 120104-05-923 | 120104-05-963 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-903 | 120105-05-943 | 120105-05-923 | 120105-05-963 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-904 | 120103-05-944 | 120103-05-924 | 120103-05-964 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-904 | 120104-05-944 | 120104-05-924 | 120104-05-964 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-904 | 120105-05-944 | 120105-05-924 | 120105-05-964 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-05-905 | 120103-05-945 | 120103-05-925 | 120103-05-965 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-905 | 120104-05-945 | 120104-05-925 | 120104-05-965 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-905 | 120105-05-945 | 120105-05-925 | 120105-05-965 |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         | 5         |
|----------------------------|---------------|-----------|-----------|
| Rated voltage/额定电压         | 250V          |           | 60V       |
| Rated current (40°C)/额定电流  | 4A            |           |           |
| Protection degree/防护等级     | IP67/IP68     |           |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |           |
| Cable OD /线材直径             | 4.5~5.0mm     | 4.6~6.0mm | 5.8~6.0mm |

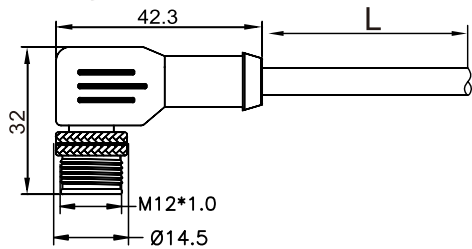
# M12 Circular connectors

## Male cable (90°)

Product figure

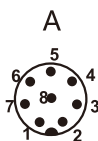


Scale diagram

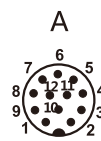


Contact layout/针孔排布 (Front view/前视图)

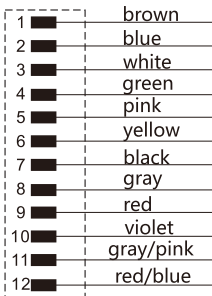
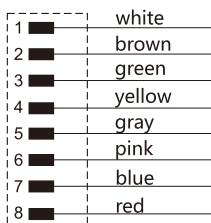
8pins



12pins



Circuit diagram/电路图



## Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-901 | 120108-05-941 | 120108-05-921 | 120108-05-961 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-901 | 120112-05-941 | 120112-05-921 | 120112-05-961 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-902 | 120108-05-942 | 120108-05-922 | 120108-05-962 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-902 | 120112-05-942 | 120112-05-922 | 120112-05-962 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-903 | 120108-05-943 | 120108-05-923 | 120108-05-963 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-903 | 120112-05-943 | 120112-05-923 | 120112-05-963 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-904 | 120108-05-944 | 120108-05-924 | 120108-05-964 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-904 | 120112-05-944 | 120112-05-924 | 120112-05-964 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup> | 120108-05-905 | 120108-05-945 | 120108-05-925 | 120108-05-965 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-905 | 120112-05-945 | 120112-05-925 | 120112-05-965 |

## Specifications/技术参数

|                            |               |           |
|----------------------------|---------------|-----------|
| Number of contacts/芯数      | 8             | 12        |
| Rated voltage/额定电压         | 30V           |           |
| Rated current (40°C)/额定电流  | 2A            | 1.5A      |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 6.5mm         | 6.5~7.0mm |



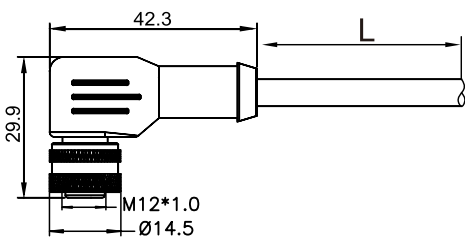
# M12 Circular connectors

## Female cable (90°)

Product figure



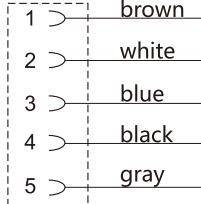
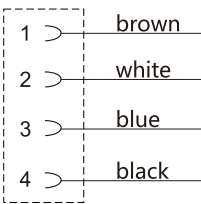
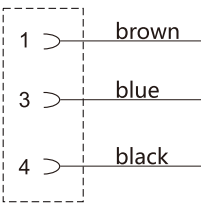
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-901 | 120103-06-941 | 120103-06-921 | 120103-06-961 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-901 | 120104-06-941 | 120104-06-921 | 120104-06-961 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-901 | 120105-06-941 | 120105-06-921 | 120105-06-961 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-902 | 120103-06-942 | 120103-06-922 | 120103-06-962 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-902 | 120104-06-942 | 120104-06-922 | 120104-06-962 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-902 | 120105-06-942 | 120105-06-922 | 120105-06-962 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-903 | 120103-06-943 | 120103-06-923 | 120103-06-963 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-903 | 120104-06-943 | 120104-06-923 | 120104-06-963 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-903 | 120105-06-943 | 120105-06-923 | 120105-06-963 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-904 | 120103-06-944 | 120103-06-924 | 120103-06-964 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-904 | 120104-06-944 | 120104-06-924 | 120104-06-964 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-904 | 120105-06-944 | 120105-06-924 | 120105-06-964 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-06-905 | 120103-06-945 | 120103-06-925 | 120103-06-965 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-905 | 120104-06-945 | 120104-06-925 | 120104-06-965 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-905 | 120105-06-945 | 120105-06-925 | 120105-06-965 |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         | 5         |
|----------------------------|---------------|-----------|-----------|
| Rated voltage/额定电压         | 250V          |           | 60V       |
| Rated current (40°C)/额定电流  | 4A            |           |           |
| Protection degree/防护等级     | IP67/IP68     |           |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |           |
| Cable OD /线材直径             | 4.5~5.0mm     | 4.6~6.0mm | 5.8~6.0mm |

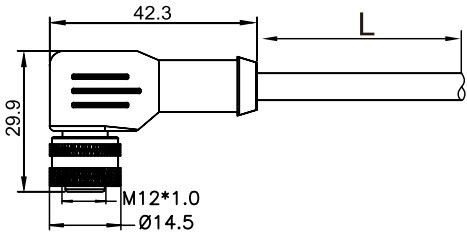
M12 Circular connectors

Female cable (90°)

Product figure



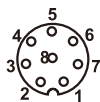
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

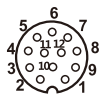
8pins

A

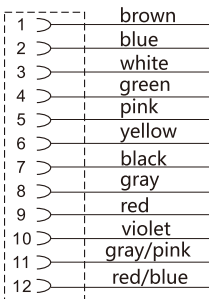
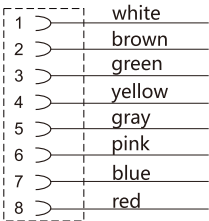


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-901 | 120108-06-941 | 120108-06-921 | 120108-06-961 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-901 | 120112-06-941 | 120112-06-921 | 120112-06-961 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-902 | 120108-06-942 | 120108-06-922 | 120108-06-962 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-902 | 120112-06-942 | 120112-06-922 | 120112-06-962 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-903 | 120108-06-943 | 120108-06-923 | 120108-06-963 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-903 | 120112-06-943 | 120112-06-923 | 120112-06-963 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-904 | 120108-06-944 | 120108-06-924 | 120108-06-964 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-904 | 120112-06-944 | 120112-06-924 | 120112-06-964 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup> | 120108-06-905 | 120108-06-945 | 120108-06-925 | 120108-06-965 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-905 | 120112-06-945 | 120112-06-925 | 120112-06-965 |

Specifications/技术参数

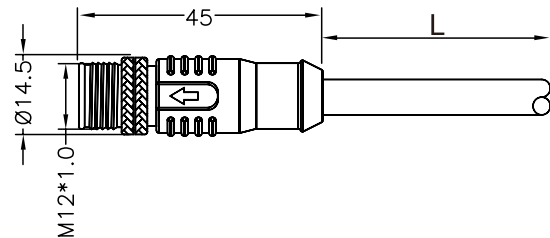
|                            |               |           |
|----------------------------|---------------|-----------|
| Number of contacts/芯数      | 8             | 12        |
| Rated voltage/额定电压         | 30V           |           |
| Rated current (40°C)/额定电流  | 2A            | 1.5A      |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 6.5mm         | 6.5~7.0mm |

Male cable (with shield)

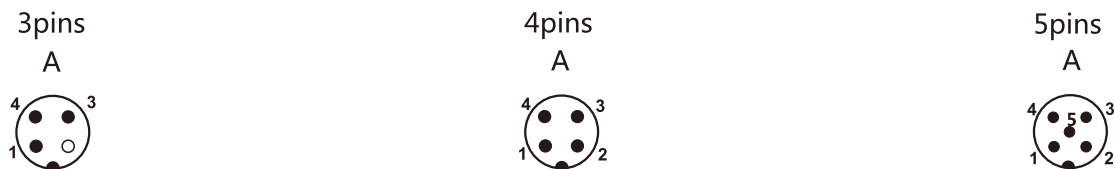
Product figure



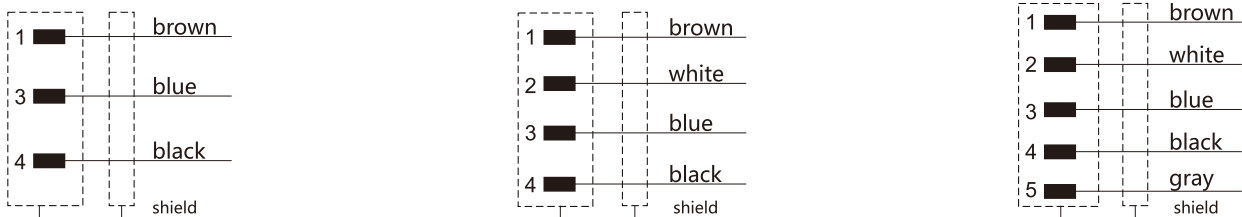
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-611 | 120103-05-651 | 120103-05-631 | 120103-05-671 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-611 | 120104-05-651 | 120104-05-631 | 120104-05-671 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-611 | 120105-05-651 | 120105-05-631 | 120105-05-671 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-612 | 120103-05-652 | 120103-05-632 | 120103-05-672 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-612 | 120104-05-652 | 120104-05-632 | 120104-05-672 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-612 | 120105-05-652 | 120105-05-632 | 120105-05-672 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-613 | 120103-05-653 | 120103-05-633 | 120103-05-673 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-613 | 120104-05-653 | 120104-05-633 | 120104-05-673 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-613 | 120105-05-653 | 120105-05-633 | 120105-05-673 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-614 | 120103-05-654 | 120103-05-634 | 120103-05-674 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-614 | 120104-05-654 | 120104-05-634 | 120104-05-674 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-614 | 120105-05-654 | 120105-05-634 | 120105-05-674 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-05-615 | 120103-05-655 | 120103-05-635 | 120103-05-675 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-615 | 120104-05-655 | 120104-05-635 | 120104-05-675 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-615 | 120105-05-655 | 120105-05-635 | 120105-05-675 |

Specifications/技术参数

| Number of contacts/芯数      | 3           | 4         | 5         |
|----------------------------|-------------|-----------|-----------|
| Rated voltage/额定电压         | 250V        |           | 60V       |
| Rated current (40°C)/额定电流  | 4A          |           |           |
| Protection degree/防护等级     | IP67/IP68   |           |           |
| Operating temperature/工作温度 | -25°C~+80°C |           |           |
| Cable OD /线材直径             | 4.6~5.0mm   | 5.0~6.0mm | 6.0~7.0mm |

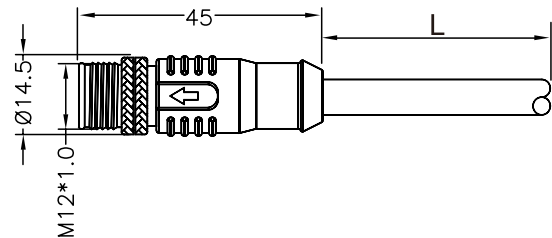
M12 Circular connectors

Male cable (with shield)

Product figure



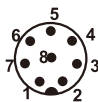
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

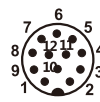
8pins

A

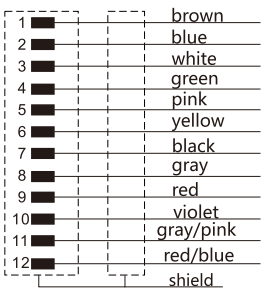
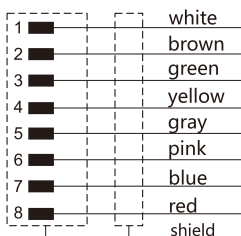


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-611 | 120108-05-651 | 120108-05-631 | 120108-05-671 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-611 | 120112-05-651 | 120112-05-631 | 120112-05-671 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-612 | 120108-05-652 | 120108-05-632 | 120108-05-672 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-612 | 120112-05-652 | 120112-05-632 | 120112-05-672 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-613 | 120108-05-653 | 120108-05-633 | 120108-05-673 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-613 | 120112-05-653 | 120112-05-633 | 120112-05-673 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-614 | 120108-05-654 | 120108-05-634 | 120108-05-674 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-614 | 120112-05-654 | 120112-05-634 | 120112-05-674 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup> | 120108-05-615 | 120108-05-655 | 120108-05-635 | 120108-05-675 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-615 | 120112-05-655 | 120112-05-635 | 120112-05-675 |

Specifications/技术参数

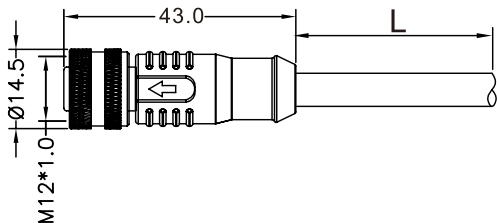
| Number of contacts/芯数      | 8           | 12    |
|----------------------------|-------------|-------|
| Rated voltage/额定电压         | 30V         |       |
| Rated current (40°C)/额定电流  | 2A          | 1.5A  |
| Protection degree/防护等级     | IP67/IP68   |       |
| Operating temperature/工作温度 | -25°C~+80°C |       |
| Cable OD /线材直径             | 5.5~6.0mm   | 7.0mm |

Female cable (with shield)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

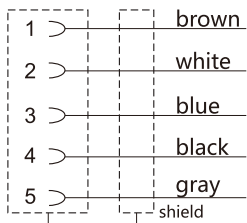
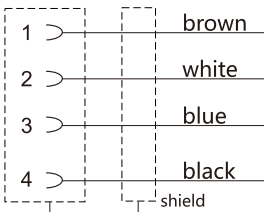
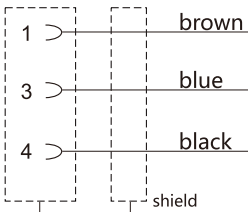


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-611 | 120103-06-651 | 120103-06-631 | 120103-06-671 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-611 | 120104-06-651 | 120104-06-631 | 120104-06-671 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-611 | 120105-06-651 | 120105-06-631 | 120105-06-671 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-612 | 120103-06-652 | 120103-06-632 | 120103-06-672 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-612 | 120104-06-652 | 120104-06-632 | 120104-06-672 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-612 | 120105-06-652 | 120105-06-632 | 120105-06-672 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-613 | 120103-06-653 | 120103-06-633 | 120103-06-673 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-613 | 120104-06-653 | 120104-06-633 | 120104-06-673 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-613 | 120105-06-653 | 120105-06-633 | 120105-06-673 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-614 | 120103-06-654 | 120103-06-634 | 120103-06-674 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-614 | 120104-06-654 | 120104-06-634 | 120104-06-674 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-614 | 120105-06-654 | 120105-06-634 | 120105-06-674 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-06-615 | 120103-06-655 | 120103-06-635 | 120103-06-675 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-615 | 120104-06-655 | 120104-06-635 | 120104-06-675 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-615 | 120105-06-655 | 120105-06-635 | 120105-06-675 |

Specifications/技术参数

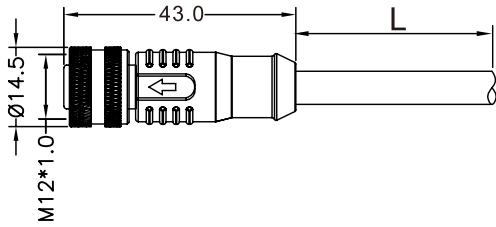
| Number of contacts/芯数      | 3             | 4         | 5         |
|----------------------------|---------------|-----------|-----------|
| Rated voltage/额定电压         | 250V          |           | 60V       |
| Rated current (40°C)/额定电流  | 4A            |           |           |
| Protection degree/防护等级     | IP67/IP68     |           |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |           |
| Cable OD /线材直径             | 4.6~5.0mm     | 5.0~6.0mm | 6.0~7.0mm |

Female cable (with shield)

Product figure



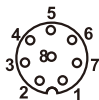
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

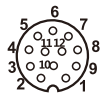
8pins

A

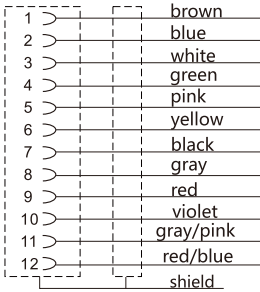
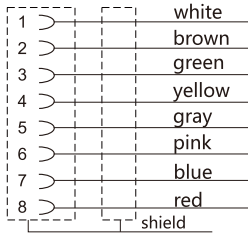


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-611 | 120108-06-651 | 120108-06-631 | 120108-06-671 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-611 | 120112-06-651 | 120112-06-631 | 120112-06-671 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-612 | 120108-06-652 | 120108-06-632 | 120108-06-672 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-612 | 120112-06-652 | 120112-06-632 | 120112-06-672 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-613 | 120108-06-653 | 120108-06-633 | 120108-06-673 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-613 | 120112-06-653 | 120112-06-633 | 120112-06-673 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-614 | 120108-06-654 | 120108-06-634 | 120108-06-674 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-614 | 120112-06-654 | 120112-06-634 | 120112-06-674 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup> | 120108-06-615 | 120108-06-655 | 120108-06-635 | 120108-06-675 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-615 | 120112-06-655 | 120112-06-635 | 120112-06-675 |

Specifications/技术参数

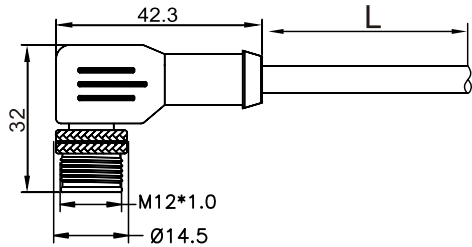
| Number of contacts/芯数      | 8           | 12    |
|----------------------------|-------------|-------|
| Rated voltage/额定电压         | 30V         |       |
| Rated current (40°C)/额定电流  | 2A          | 1.5A  |
| Protection degree/防护等级     | IP67/IP68   |       |
| Operating temperature/工作温度 | -25°C~+80°C |       |
| Cable OD /线材直径             | 5.5~6.0mm   | 7.0mm |

Male cable (90° with shield)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

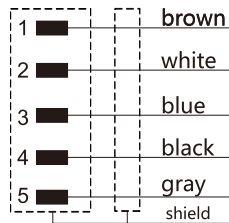
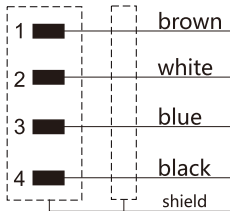
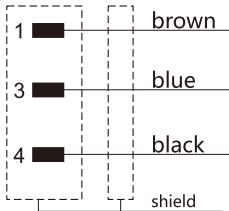


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-911 | 120103-05-951 | 120103-05-931 | 120103-05-971 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-911 | 120104-05-951 | 120104-05-931 | 120104-05-971 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-911 | 120105-05-951 | 120105-05-931 | 120105-05-971 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-912 | 120103-05-952 | 120103-05-932 | 120103-05-972 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-912 | 120104-05-952 | 120104-05-932 | 120104-05-972 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-912 | 120105-05-952 | 120105-05-932 | 120105-05-972 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-913 | 120103-05-953 | 120103-05-933 | 120103-05-973 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-913 | 120104-05-953 | 120104-05-933 | 120104-05-973 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-913 | 120105-05-953 | 120105-05-933 | 120105-05-973 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-05-914 | 120103-05-954 | 120103-05-934 | 120103-05-974 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-914 | 120104-05-954 | 120104-05-934 | 120104-05-974 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-914 | 120105-05-954 | 120105-05-934 | 120105-05-974 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-05-915 | 120103-05-955 | 120103-05-935 | 120103-05-975 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-05-915 | 120104-05-955 | 120104-05-935 | 120104-05-975 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-05-915 | 120105-05-955 | 120105-05-935 | 120105-05-975 |

Specifications/技术参数

| Number of contacts/芯数      | 3           | 4         | 5         |
|----------------------------|-------------|-----------|-----------|
| Rated voltage/额定电压         | 250V        |           | 60V       |
| Rated current (40°C)/额定电流  | 4A          |           |           |
| Protection degree/防护等级     | IP67/IP68   |           |           |
| Operating temperature/工作温度 | -25°C~+80°C |           |           |
| Cable OD /线材直径             | 4.6~5.0mm   | 5.0~6.0mm | 6.0~7.0mm |



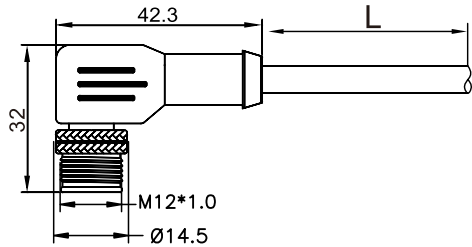
M12 Circular connectors

Male cable (90° with shield)

Product figure



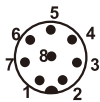
Scale diagram



Contact layout/针孔排布 (Front view/前视图)

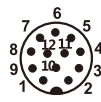
8pins

A

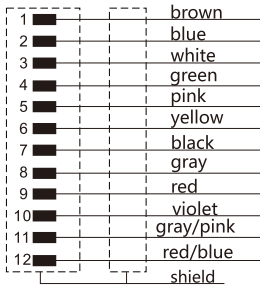
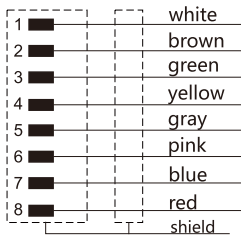


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-911 | 120108-05-951 | 120108-05-931 | 120108-05-971 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-911 | 120112-05-951 | 120112-05-931 | 120112-05-971 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-912 | 120108-05-952 | 120108-05-932 | 120108-05-972 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-912 | 120112-05-952 | 120112-05-932 | 120112-05-972 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-913 | 120108-05-953 | 120108-05-933 | 120108-05-973 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-913 | 120112-05-953 | 120112-05-933 | 120112-05-973 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-05-914 | 120108-05-954 | 120108-05-934 | 120108-05-974 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-914 | 120112-05-954 | 120112-05-934 | 120112-05-974 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup> | 120108-05-915 | 120108-05-955 | 120108-05-935 | 120108-05-975 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-05-915 | 120112-05-955 | 120112-05-935 | 120112-05-975 |

Specifications/技术参数

| Number of contacts/芯数      | 8           | 12    |
|----------------------------|-------------|-------|
| Rated voltage/额定电压         | 30V         |       |
| Rated current (40°C)/额定电流  | 2A          | 1.5A  |
| Protection degree/防护等级     | IP67/IP68   |       |
| Operating temperature/工作温度 | -25°C~+80°C |       |
| Cable OD /线材直径             | 5.5~6.0mm   | 7.0mm |



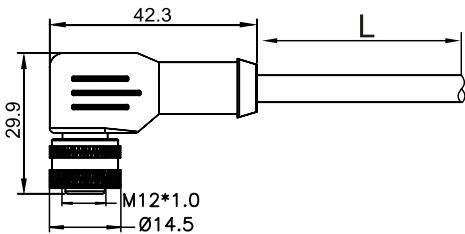
M12 Circular connectors

Female cable (90° with shield)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A



4pins

A

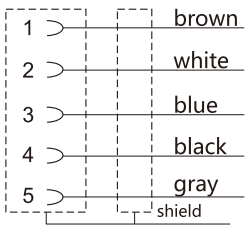
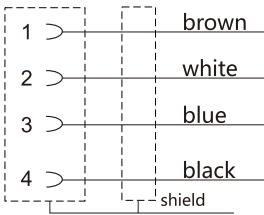
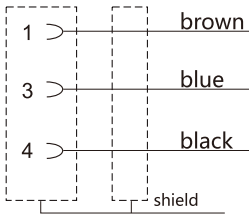


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-911 | 120103-06-951 | 120103-06-931 | 120103-06-971 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-911 | 120104-06-951 | 120104-06-931 | 120104-06-971 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-911 | 120105-06-951 | 120105-06-931 | 120105-06-971 |
| 3.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-912 | 120103-06-952 | 120103-06-932 | 120103-06-972 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-912 | 120104-06-952 | 120104-06-932 | 120104-06-972 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-912 | 120105-06-952 | 120105-06-932 | 120105-06-972 |
| 5.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-913 | 120103-06-953 | 120103-06-933 | 120103-06-973 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-913 | 120104-06-953 | 120104-06-933 | 120104-06-973 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-913 | 120105-06-953 | 120105-06-933 | 120105-06-973 |
| 7.5M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-06-914 | 120103-06-954 | 120103-06-934 | 120103-06-974 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-914 | 120104-06-954 | 120104-06-934 | 120104-06-974 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-914 | 120105-06-954 | 120105-06-934 | 120105-06-974 |
| 10M                  | 3pins          | 0.34mm <sup>2</sup> | 120103-06-915 | 120103-06-955 | 120103-06-935 | 120103-06-975 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-06-915 | 120104-06-955 | 120104-06-935 | 120104-06-975 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-06-915 | 120105-06-955 | 120105-06-935 | 120105-06-975 |

Specifications/技术参数

| Number of contacts/芯数      | 3           | 4         | 5         |
|----------------------------|-------------|-----------|-----------|
| Rated voltage/额定电压         | 250V        |           | 60V       |
| Rated current (40°C)/额定电流  | 4A          |           |           |
| Protection degree/防护等级     | IP67/IP68   |           |           |
| Operating temperature/工作温度 | -25°C~+80°C |           |           |
| Cable OD /线材直径             | 4.6~5.0mm   | 5.0~6.0mm | 6.0~7.0mm |

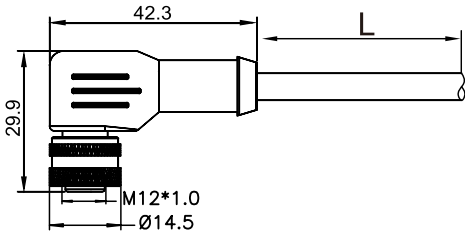
# M12 Circular connectors

## Female cable (90° with shield)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

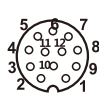
8pins

A

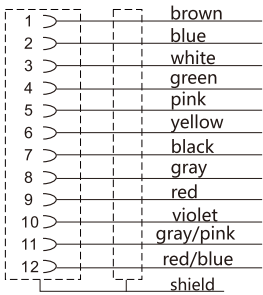
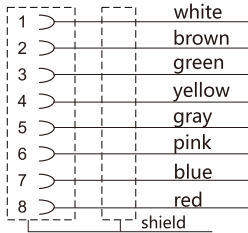


12pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 1.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-911 | 120108-06-951 | 120108-06-931 | 120108-06-971 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-911 | 120112-06-951 | 120112-06-931 | 120112-06-971 |
| 3.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-912 | 120108-06-952 | 120108-06-932 | 120108-06-972 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-912 | 120112-06-952 | 120112-06-932 | 120112-06-972 |
| 5.0M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-913 | 120108-06-953 | 120108-06-933 | 120108-06-973 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-913 | 120112-06-953 | 120112-06-933 | 120112-06-973 |
| 7.5M                 | 8pins          | 0.25mm <sup>2</sup> | 120108-06-914 | 120108-06-954 | 120108-06-934 | 120108-06-974 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-914 | 120112-06-954 | 120112-06-934 | 120112-06-974 |
| 10M                  | 8pins          | 0.25mm <sup>2</sup> | 120108-06-915 | 120108-06-955 | 120108-06-935 | 120108-06-975 |
|                      | 12pins         | 0.14mm <sup>2</sup> | 120112-06-915 | 120112-06-955 | 120112-06-935 | 120112-06-975 |

Specifications/技术参数

| Number of contacts/芯数      | 8             | 12    |
|----------------------------|---------------|-------|
| Rated voltage/额定电压         | 30V           |       |
| Rated current (40°C)/额定电流  | 2A            | 1.5A  |
| Protection degree/防护等级     | IP67/IP68     |       |
| Operating temperature/工作温度 | -25°C ~ +80°C |       |
| Cable OD /线材直径             | 5.5~6.0mm     | 7.0mm |

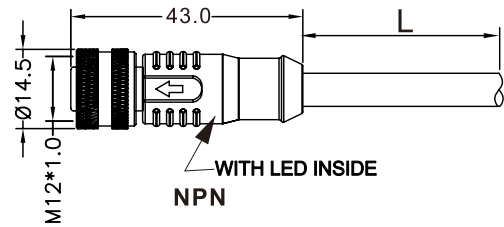
M12 Circular connectors

Female cable (with LED NPN)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A

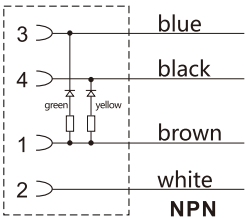
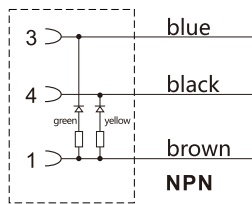


4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 3pins          | 120103-06-685       |
|                      | 4pins          | 120104-06-690       |
| 3.0M                 | 3pins          | 120103-06-686       |
|                      | 4pins          | 120104-06-691       |
| 5.0M                 | 3pins          | 120103-06-687       |
|                      | 4pins          | 120104-06-692       |
| 7.5M                 | 3pins          | 120103-06-688       |
|                      | 4pins          | 120104-06-693       |
| 10M                  | 3pins          | 120103-06-689       |
|                      | 4pins          | 120104-06-694       |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 4.6~5.0mm     | 4.6~6.0mm |

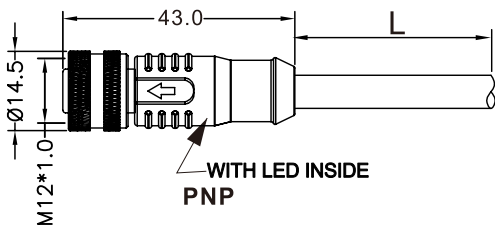
M12 Circular connectors

Female cable (with LED PNP)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A

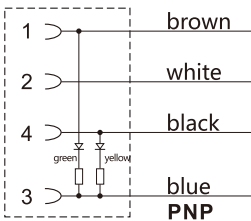
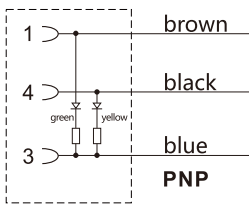


4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 3pins          | 120103-06-680       |
|                      | 4pins          | 120104-06-680       |
| 3.0M                 | 3pins          | 120103-06-681       |
|                      | 4pins          | 120104-06-681       |
| 5.0M                 | 3pins          | 120103-06-682       |
|                      | 4pins          | 120104-06-682       |
| 7.5M                 | 3pins          | 120103-06-683       |
|                      | 4pins          | 120104-06-683       |
| 10M                  | 3pins          | 120103-06-684       |
|                      | 4pins          | 120104-06-684       |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 4.6~5.0mm     | 4.6~6.0mm |

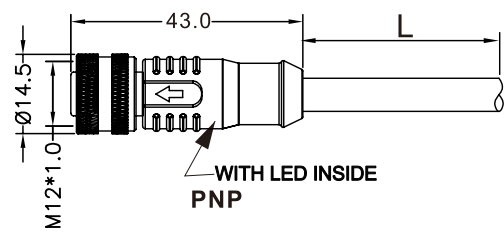
M12 Circular connectors

Female cable (with LED PNP)

Product figure



Scale diagram



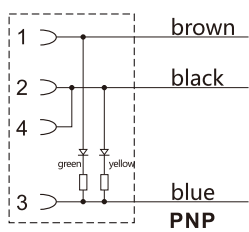
Contact layout/针孔排布 (Front view/前视图)

4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 4pins          | 120104-06-685       |
| 3.0M                 | 4pins          | 120104-06-686       |
| 5.0M                 | 4pins          | 120104-06-687       |
| 7.5M                 | 4pins          | 120104-06-688       |
| 10M                  | 4pins          | 120104-06-689       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 4             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD /线材直径             | 4.6~6.0mm     |

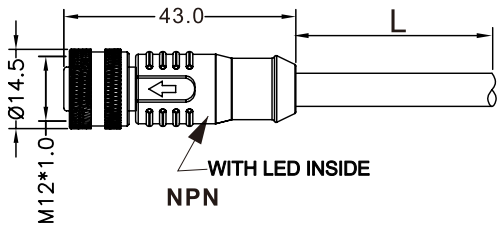
M12 Circular connectors

Female cable (with LED NPN)

Product figure



Scale diagram



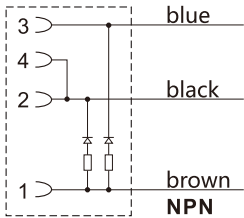
Contact layout/针孔排布 (Front view/前视图)

4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 4pins          | 120104-06-695       |
| 3.0M                 | 4pins          | 120104-06-696       |
| 5.0M                 | 4pins          | 120104-06-697       |
| 7.5M                 | 4pins          | 120104-06-698       |
| 10M                  | 4pins          | 120104-06-699       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 4             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD /线材直径             | 4.6~6.0mm     |

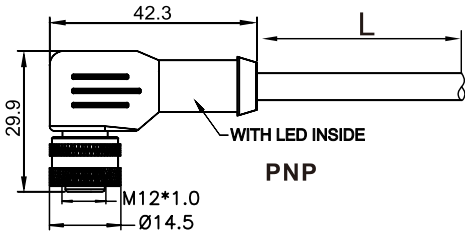
M12 Circular connectors

Female cable (90° with LED PNP)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A

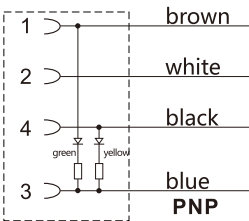
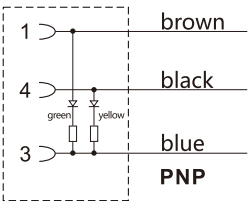


4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 3pins          | 120103-06-980       |
|                      | 4pins          | 120104-06-980       |
| 3.0M                 | 3pins          | 120103-06-981       |
|                      | 4pins          | 120104-06-981       |
| 5.0M                 | 3pins          | 120103-06-982       |
|                      | 4pins          | 120104-06-982       |
| 7.5M                 | 3pins          | 120103-06-983       |
|                      | 4pins          | 120104-06-983       |
| 10M                  | 3pins          | 120103-06-984       |
|                      | 4pins          | 120104-06-984       |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 4.6~5.0mm     | 4.6~6.0mm |

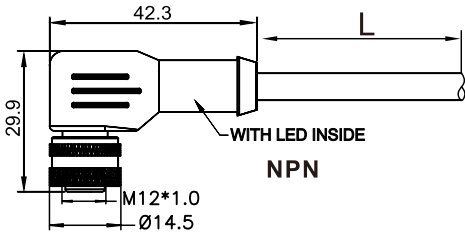
M12 Circular connectors

Female cable (90° with LED NPN)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

3pins

A

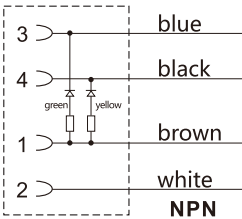
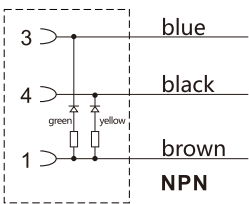


4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 3pins          | 120103-06-985       |
|                      | 4pins          | 120104-06-930       |
| 3.0M                 | 3pins          | 120103-06-986       |
|                      | 4pins          | 120104-06-931       |
| 5.0M                 | 3pins          | 120103-06-987       |
|                      | 4pins          | 120104-06-932       |
| 7.5M                 | 3pins          | 120103-06-988       |
|                      | 4pins          | 120104-06-933       |
| 10M                  | 3pins          | 120103-06-989       |
|                      | 4pins          | 120104-06-934       |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 4.6~5.0mm     | 4.6~6.0mm |



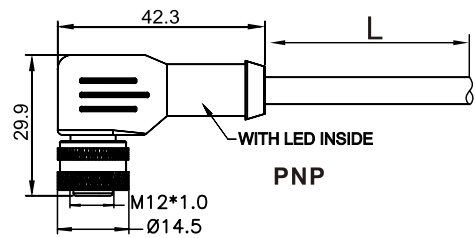
M12 Circular connectors

Female cable (90° with LED PNP)

Product figure



Scale diagram



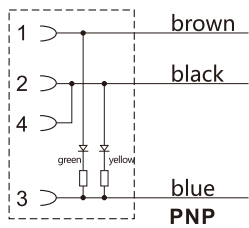
Contact layout/针孔排布 (Front view/前视图)

4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 4pins          | 120104-06-985       |
| 3.0M                 | 4pins          | 120104-06-986       |
| 5.0M                 | 4pins          | 120104-06-987       |
| 7.5M                 | 4pins          | 120104-06-988       |
| 10M                  | 4pins          | 120104-06-989       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 4             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD /线材直径             | 4.6~6.0mm     |

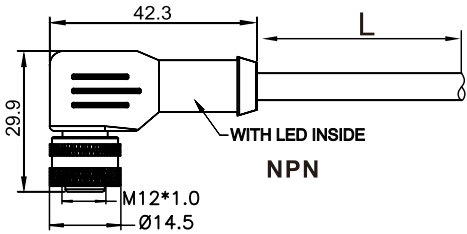
M12 Circular connectors

Female cable (90° with LED NPN)

Product figure



Scale diagram



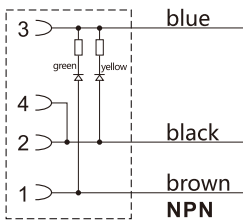
Contact layout/针孔排布 (Front view/前视图)

4pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 4pins          | 120104-06-995       |
| 3.0M                 | 4pins          | 120104-06-996       |
| 5.0M                 | 4pins          | 120104-06-997       |
| 7.5M                 | 4pins          | 120104-06-998       |
| 10M                  | 4pins          | 120104-06-999       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 4             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD /线材直径             | 4.6~6.0mm     |

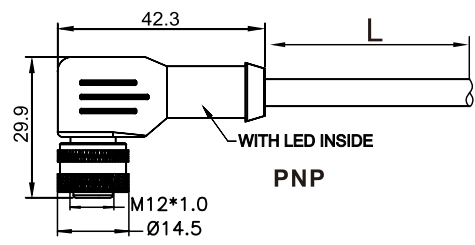
M12 Circular connectors

Female cable (90° with LED PNP)

Product figure



Scale diagram



Contact layout/针孔排布 (Front view/前视图)

4pins

A

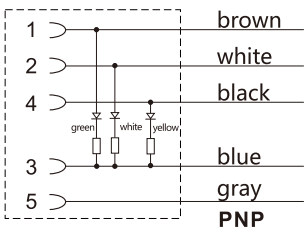
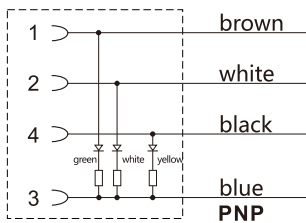


5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 4pins          | 120104-06-990       |
|                      | 5pins          | 120105-06-980       |
| 3.0M                 | 4pins          | 120104-06-991       |
|                      | 5pins          | 120105-06-981       |
| 5.0M                 | 4pins          | 120104-06-992       |
|                      | 5pins          | 120105-06-982       |
| 7.5M                 | 4pins          | 120104-06-993       |
|                      | 5pins          | 120105-06-983       |
| 10M                  | 4pins          | 120104-06-994       |
|                      | 5pins          | 120105-06-984       |

Specifications/技术参数

| Number of contacts/芯数      | 4             | 5   |
|----------------------------|---------------|-----|
| Rated voltage/额定电压         | 250V          | 60V |
| Rated current (40°C)/额定电流  | 4A            |     |
| Protection degree/防护等级     | IP67/IP68     |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |     |
| Cable OD /线材直径             | 4.6~6.0mm     |     |

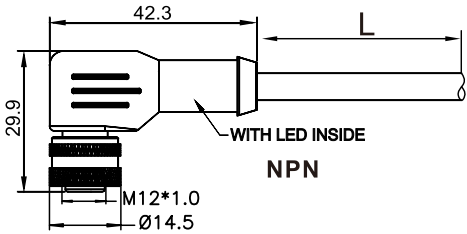
M12 Circular connectors

Female cable (90° with LED NPN)

Product figure



Scale diagram



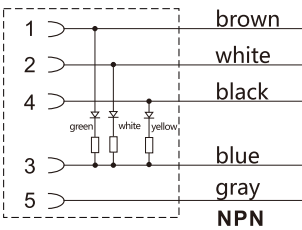
Contact layout/针孔排布 (Front view/前视图)

5pins

A



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 1.5M                 | 5pins          | 120105-06-985       |
| 3.0M                 | 5pins          | 120105-06-986       |
| 5.0M                 | 5pins          | 120105-06-987       |
| 7.5M                 | 5pins          | 120105-06-988       |
| 10M                  | 5pins          | 120105-06-989       |

Specifications/技术参数

| Number of contacts/芯数      | 4             | 5   |
|----------------------------|---------------|-----|
| Rated voltage/额定电压         | 250V          | 60V |
| Rated current (40°C)/额定电流  | 4A            |     |
| Protection degree/防护等级     | IP67/IP68     |     |
| Operating temperature/工作温度 | -25°C ~ +80°C |     |
| Cable OD /线材直径             | 4.6~6.0mm     |     |

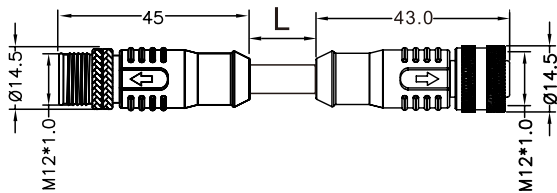
M12 Circular connectors

Male to female cable

Product figure (M12-M12)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-601 | 120103-56-641 | 120103-56-621 | 120103-56-661 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-601 | 120104-56-641 | 120104-56-621 | 120104-56-661 |
| 0.6M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-602 | 120103-56-642 | 120103-56-622 | 120103-56-662 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-602 | 120104-56-642 | 120104-56-622 | 120104-56-662 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-603 | 120103-56-643 | 120103-56-623 | 120103-56-663 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-603 | 120104-56-643 | 120104-56-623 | 120104-56-663 |
| 2.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-604 | 120103-56-644 | 120103-56-624 | 120103-56-664 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-604 | 120104-56-644 | 120104-56-624 | 120104-56-664 |

Specifications/技术参数

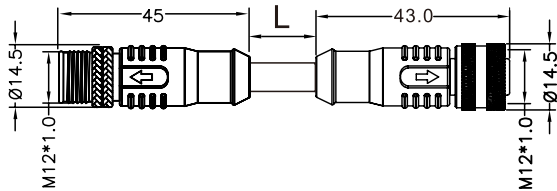
| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 4.5~5.0mm     | 4.6~6.0mm |

Male to female cable

Product figure (M12-M12)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-601 | 120105-56-641 | 120105-56-621 | 120105-56-661 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-601 | 120108-56-641 | 120108-56-621 | 120108-56-661 |
| 0.6M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-602 | 120105-56-642 | 120105-56-622 | 120105-56-662 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-602 | 120108-56-642 | 120108-56-622 | 120108-56-662 |
| 1.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-603 | 120105-56-643 | 120105-56-623 | 120105-56-663 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-603 | 120108-56-643 | 120108-56-623 | 120108-56-663 |
| 2.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-604 | 120105-56-644 | 120105-56-624 | 120105-56-664 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-604 | 120108-56-644 | 120108-56-624 | 120108-56-664 |

Specifications/技术参数

|                            |             |       |
|----------------------------|-------------|-------|
| Number of contacts/芯数      | 5           | 8     |
| Rated voltage/额定电压         | 60V         | 30V   |
| Rated current (40°C)/额定电流  | 4A          | 2A    |
| Protection degree/防护等级     | IP67/IP68   |       |
| Operating temperature/工作温度 | -25°C~+80°C |       |
| Cable OD /线材直径             | 5.8~6.0mm   | 6.5mm |

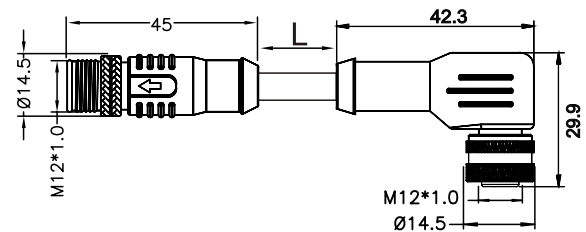
## M12 Circular connectors

## Male to R/A female cable

### Product figure (M12-M12)

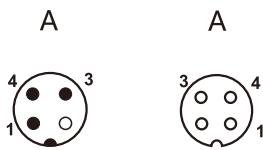


### Scale diagram

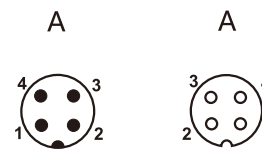


Contact layout/针孔排布 (Front view/前视图)

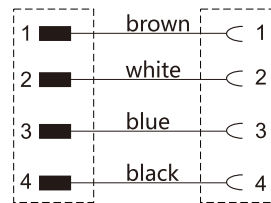
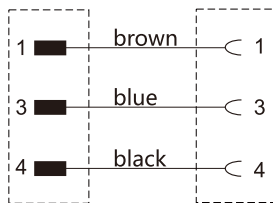
3pins



4pins



Circuit diagram/电路图



## Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-701 | 120103-56-741 | 120103-56-721 | 120103-56-761 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-701 | 120104-56-741 | 120104-56-721 | 120104-56-761 |
| 0.6M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-702 | 120103-56-742 | 120103-56-722 | 120103-56-762 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-702 | 120104-56-742 | 120104-56-722 | 120104-56-762 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-703 | 120103-56-743 | 120103-56-723 | 120103-56-763 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-703 | 120104-56-743 | 120104-56-723 | 120104-56-763 |
| 2.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-704 | 120103-56-744 | 120103-56-724 | 120103-56-764 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-704 | 120104-56-744 | 120104-56-724 | 120104-56-764 |

## Specifications/技术参数

|                            |               |           |
|----------------------------|---------------|-----------|
| Number of contacts/芯数      | 3             | 4         |
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 4.5~5.0mm     | 4.6~6.0mm |

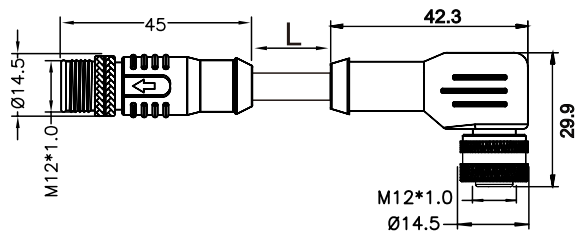
M12 Circular connectors

Male to R/A female cable

Product figure (M12-M12)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-701 | 120105-56-741 | 120105-56-721 | 120105-56-761 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-701 | 120108-56-741 | 120108-56-721 | 120108-56-761 |
| 0.6M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-702 | 120105-56-742 | 120105-56-722 | 120105-56-762 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-702 | 120108-56-742 | 120108-56-722 | 120108-56-762 |
| 1.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-703 | 120105-56-743 | 120105-56-723 | 120105-56-763 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-703 | 120108-56-743 | 120108-56-723 | 120108-56-763 |
| 2.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-704 | 120105-56-744 | 120105-56-724 | 120105-56-764 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-704 | 120108-56-744 | 120108-56-724 | 120108-56-764 |

Specifications/技术参数

|                            |               |       |
|----------------------------|---------------|-------|
| Number of contacts/芯数      | 5             | 8     |
| Rated voltage/额定电压         | 60V           | 30V   |
| Rated current (40°C)/额定电流  | 4A            | 2A    |
| Protection degree/防护等级     | IP67/IP68     |       |
| Operating temperature/工作温度 | -25°C ~ +80°C |       |
| Cable OD /线材直径             | 5.8~6.0mm     | 6.5mm |



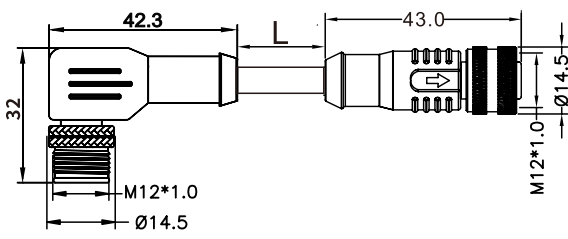
M12 Circular connectors

R/A male to female cable

Product figure (M12-M12)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-801 | 120103-56-841 | 120103-56-821 | 120103-56-861 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-801 | 120104-56-841 | 120104-56-821 | 120104-56-861 |
| 0.6M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-802 | 120103-56-842 | 120103-56-822 | 120103-56-862 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-802 | 120104-56-842 | 120104-56-822 | 120104-56-862 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-803 | 120103-56-843 | 120103-56-823 | 120103-56-863 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-803 | 120104-56-843 | 120104-56-823 | 120104-56-863 |
| 2.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-804 | 120103-56-844 | 120103-56-824 | 120103-56-864 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-804 | 120104-56-844 | 120104-56-824 | 120104-56-864 |

Specifications/技术参数

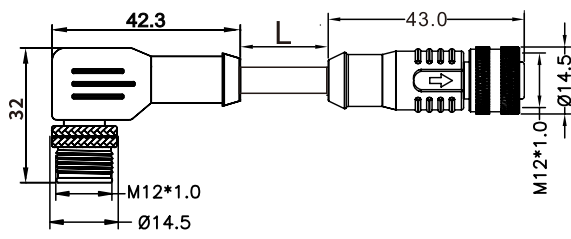
| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD /线材直径             | 4.5~5.0mm     | 4.6~6.0mm |

R/A male to female cable

Product figure (M12-M12)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-801 | 120105-56-841 | 120105-56-821 | 120105-56-861 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-801 | 120108-56-841 | 120108-56-821 | 120108-56-861 |
| 0.6M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-802 | 120105-56-842 | 120105-56-822 | 120105-56-862 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-802 | 120108-56-842 | 120108-56-822 | 120108-56-862 |
| 1.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-803 | 120105-56-843 | 120105-56-823 | 120105-56-863 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-803 | 120108-56-843 | 120108-56-823 | 120108-56-863 |
| 2.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-804 | 120105-56-844 | 120105-56-824 | 120105-56-864 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-804 | 120108-56-844 | 120108-56-824 | 120108-56-864 |

Specifications/技术参数

|                            |               |       |
|----------------------------|---------------|-------|
| Number of contacts/芯数      | 5             | 8     |
| Rated voltage/额定电压         | 60V           | 30V   |
| Rated current (40°C)/额定电流  | 4A            | 2A    |
| Protection degree/防护等级     | IP67/IP68     |       |
| Operating temperature/工作温度 | -25°C ~ +80°C |       |
| Cable OD /线材直径             | 5.8~6.0mm     | 6.5mm |

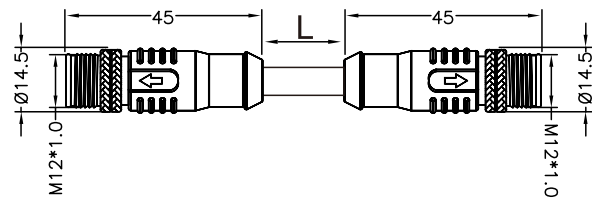
M12 Circular connectors

Male to male cable

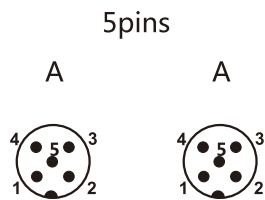
Product figure (M12-M12)



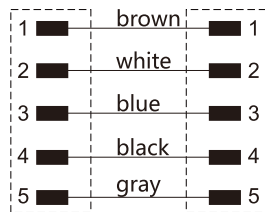
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-55-601 | 120105-55-641 | 120105-55-621 | 120105-55-661 |
| 0.6M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-55-602 | 120105-55-642 | 120105-55-622 | 120105-55-662 |
| 1.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-55-603 | 120105-55-643 | 120105-55-623 | 120105-55-663 |
| 2.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-55-604 | 120105-55-644 | 120105-55-624 | 120105-55-664 |

Specifications/技术参数

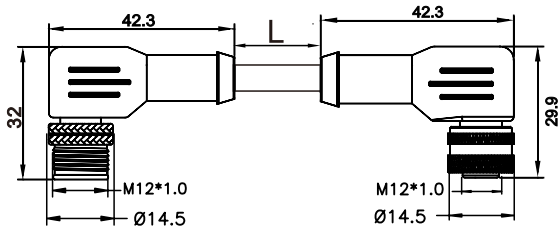
|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 5             |
| Rated voltage/额定电压         | 60V           |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD /线材直径             | 5.8-6.0mm     |

R/A male to R/A female cable

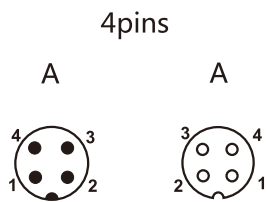
Product figure (M12-M12)



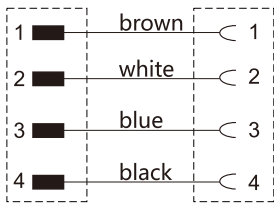
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图

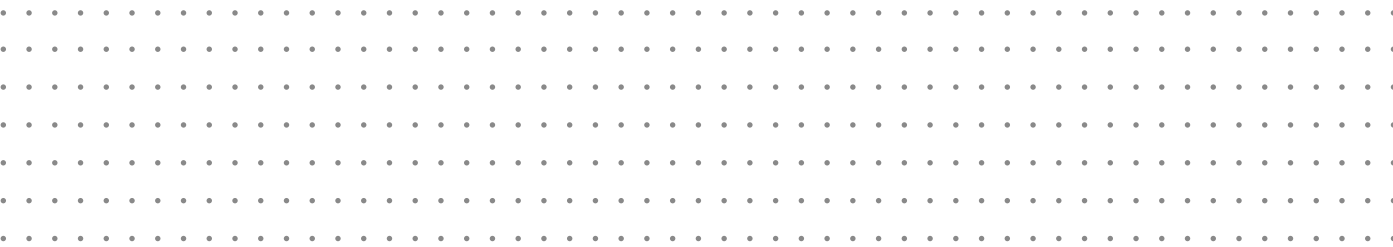


Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 4pins          | 0.34mm <sup>2</sup> | 120104-56-901 | 120104-56-941 | 120104-56-921 | 120104-56-961 |
| 0.6M                 | 4pins          | 0.34mm <sup>2</sup> | 120104-56-902 | 120104-56-942 | 120104-56-922 | 120104-56-962 |
| 1.0M                 | 4pins          | 0.34mm <sup>2</sup> | 120104-56-903 | 120104-56-943 | 120104-56-923 | 120104-56-963 |
| 2.0M                 | 4pins          | 0.34mm <sup>2</sup> | 120104-56-904 | 120104-56-944 | 120104-56-924 | 120104-56-964 |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 4             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD /线材直径             | 4.6~6.0mm     |



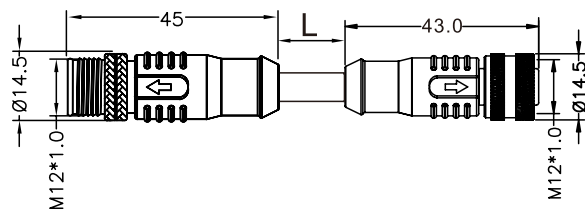
M12 Circular connectors

Male to female cable (with shield)

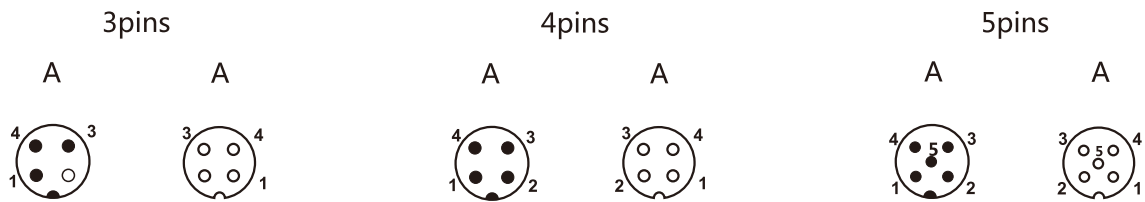
Product figure (M12-M12)



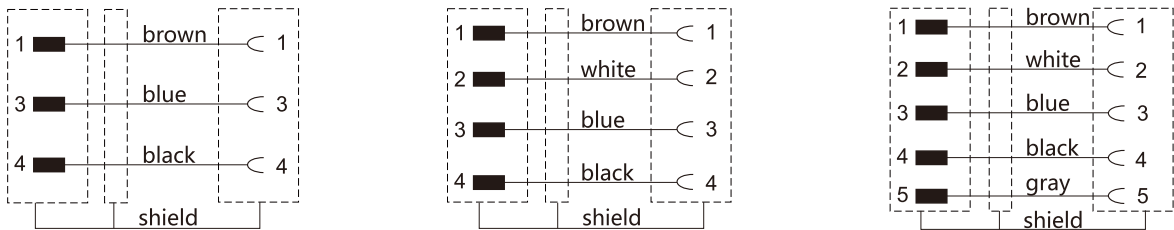
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-611 | 120103-56-651 | 120103-56-631 | 120103-56-671 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-611 | 120104-56-651 | 120104-56-631 | 120104-56-671 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-56-611 | 120105-56-651 | 120105-56-631 | 120105-56-671 |
| 0.6M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-612 | 120103-56-652 | 120103-56-632 | 120103-56-672 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-612 | 120104-56-652 | 120104-56-632 | 120104-56-672 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-56-612 | 120105-56-652 | 120105-56-632 | 120105-56-672 |
| 1.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-613 | 120103-56-653 | 120103-56-633 | 120103-56-673 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-613 | 120104-56-653 | 120104-56-633 | 120104-56-673 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-56-613 | 120105-56-653 | 120105-56-633 | 120105-56-673 |
| 2.0M                 | 3pins          | 0.34mm <sup>2</sup> | 120103-56-614 | 120103-56-654 | 120103-56-634 | 120103-56-674 |
|                      | 4pins          | 0.34mm <sup>2</sup> | 120104-56-614 | 120104-56-654 | 120104-56-634 | 120104-56-674 |
|                      | 5pins          | 0.34mm <sup>2</sup> | 120105-56-614 | 120105-56-654 | 120105-56-634 | 120105-56-674 |

Specifications/技术参数

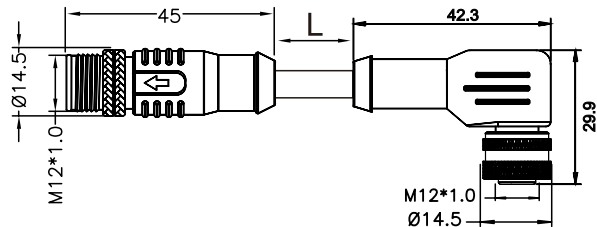
| Number of contacts/芯数      | 3             | 4         | 5         |
|----------------------------|---------------|-----------|-----------|
| Rated voltage/额定电压         | 250V          |           | 60V       |
| Rated current (40°C)/额定电流  | 4A            |           |           |
| Protection degree/防护等级     | IP67/IP68     |           |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |           |
| Cable OD/线材直径              | 4.6~5.0mm     | 5.0~6.0mm | 6.0~7.0mm |

Male to R/A female cable (with shield)

Product figure (M12-M12)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC+AEB       |               | PUR+AEB       |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-711 | 120105-56-751 | 120105-56-731 | 120105-56-771 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-711 | 120108-56-751 | 120108-56-731 | 120108-56-771 |
| 0.6M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-712 | 120105-56-752 | 120105-56-732 | 120105-56-772 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-712 | 120108-56-752 | 120108-56-732 | 120108-56-772 |
| 1.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-713 | 120105-56-753 | 120105-56-733 | 120105-56-773 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-713 | 120108-56-753 | 120108-56-733 | 120108-56-773 |
| 2.0M                 | 5pins          | 0.34mm <sup>2</sup> | 120105-56-714 | 120105-56-754 | 120105-56-734 | 120105-56-774 |
|                      | 8pins          | 0.25mm <sup>2</sup> | 120108-56-714 | 120108-56-754 | 120108-56-734 | 120108-56-774 |

Specifications/技术参数

|                            |               |           |
|----------------------------|---------------|-----------|
| Number of contacts/芯数      | 5             | 8         |
| Rated voltage/额定电压         | 60V           | 30V       |
| Rated current (40°C)/额定电流  | 4A            | 2A        |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD/线材直径              | 6.0~7.0mm     | 5.5~6.0mm |

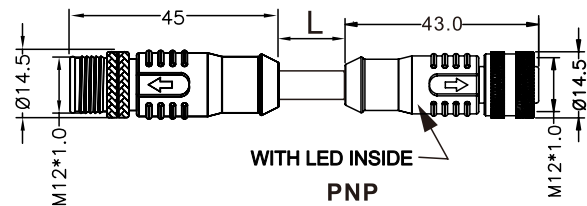
M12 Circular connectors

Male to female cable (with LED PNP)

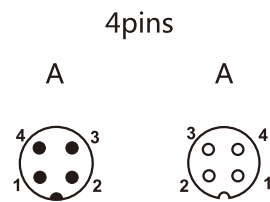
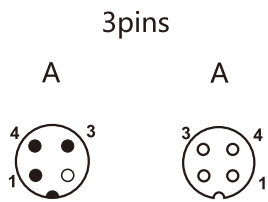
Product figure (M12-M12)



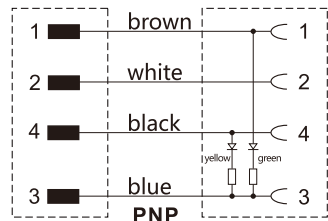
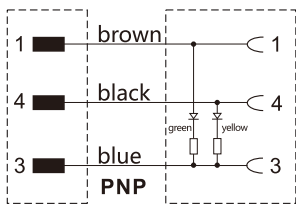
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 0.3M                 | 3pins          | 120103-56-680       |
|                      | 4pins          | 120104-56-680       |
| 0.6M                 | 3pins          | 120103-56-681       |
|                      | 4pins          | 120104-56-681       |
| 1.0M                 | 3pins          | 120103-56-682       |
|                      | 4pins          | 120104-56-682       |
| 2.0M                 | 3pins          | 120103-56-683       |
|                      | 4pins          | 120104-56-683       |

Specifications/技术参数

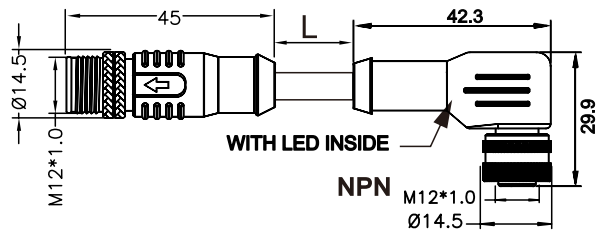
| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 250V          |           |
| Rated current (40°C)/额定电流  | 4A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD/线材直径              | 4.6~5.0mm     | 4.6~6.0mm |

## Male to R/A female cable (with LED NPN)

Product figure (M12-M12)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 0.3M                 | 3pins          | 120103-56-780       |
|                      | 4pins          | 120104-56-780       |
| 0.6M                 | 3pins          | 120103-56-781       |
|                      | 4pins          | 120104-56-781       |
| 1.0M                 | 3pins          | 120103-56-782       |
|                      | 4pins          | 120104-56-782       |
| 2.0M                 | 3pins          | 120103-56-783       |
|                      | 4pins          | 120104-56-783       |

Specifications/技术参数

| Number of contacts/芯数      | 3           | 4         |
|----------------------------|-------------|-----------|
| Rated voltage/额定电压         | 250V        |           |
| Rated current (40°C)/额定电流  | 4A          |           |
| Protection degree/防护等级     | IP67/IP68   |           |
| Operating temperature/工作温度 | -25°C~+80°C |           |
| Cable OD/线材直径              | 4.6~5.0mm   | 4.6~6.0mm |



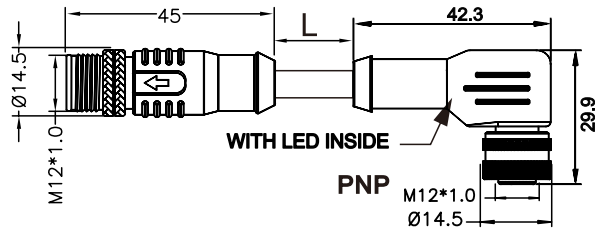
M12 Circular connectors

Male to R/A female cable (with LED PNP)

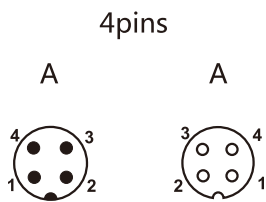
Product figure (M12-M12)



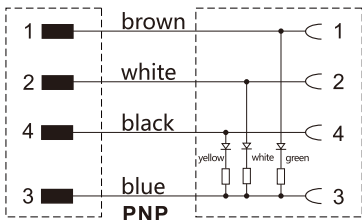
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 0.3M                 | 4pins          | 120104-56-784       |
| 0.6M                 | 4pins          | 120104-56-785       |
| 1.0M                 | 4pins          | 120104-56-786       |
| 2.0M                 | 4pins          | 120104-56-787       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 4             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD/线材直径              | 4.6~6.0mm     |

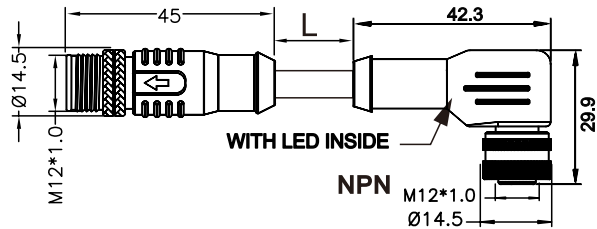
M12 Circular connectors

Male to R/A female cable (with LED NPN)

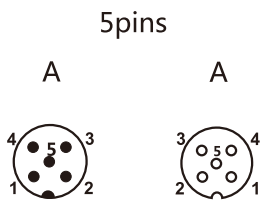
Product figure (M12-M12)



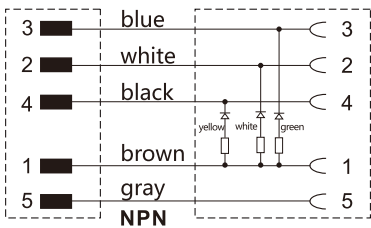
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 0.3M                 | 5pins          | 120105-56-780       |
| 0.6M                 | 5pins          | 120105-56-781       |
| 1.0M                 | 5pins          | 120105-56-782       |
| 2.0M                 | 5pins          | 120105-56-783       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 5             |
| Rated voltage/额定电压         | 60V           |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD/线材直径              | 4.6~6.0mm     |

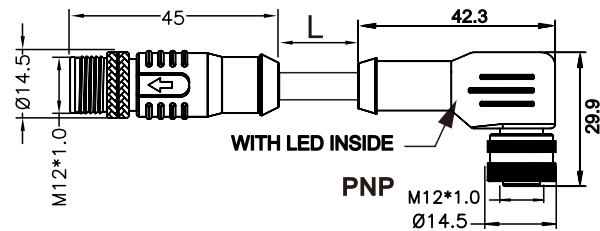
M12 Circular connectors

Male to R/A female cable (with LED PNP)

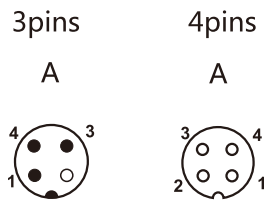
Product figure (M12-M12)



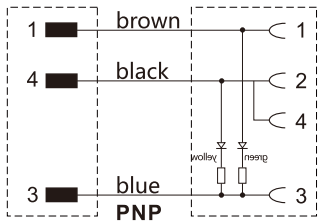
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图

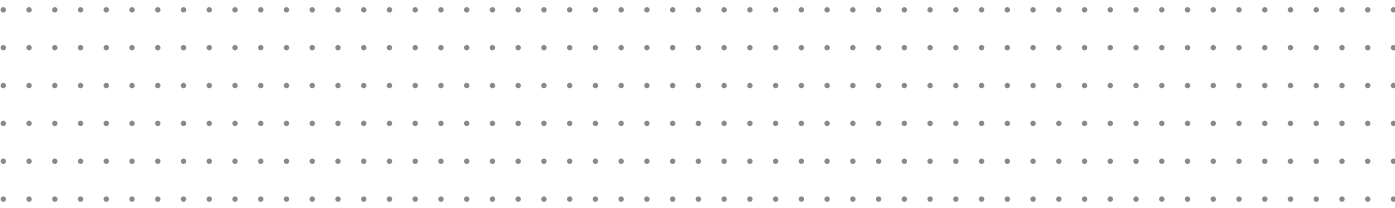


Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 0.3M                 | 3-4pins        | 120134-56-780       |
| 0.6M                 | 3-4pins        | 120134-56-781       |
| 1.0M                 | 3-4pins        | 120134-56-782       |
| 2.0M                 | 3-4pins        | 120134-56-783       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 3-4           |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD/线材直径              | 4.6~5.0mm     |



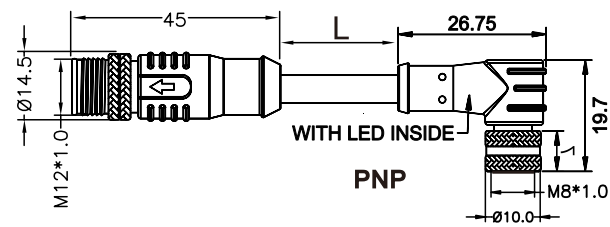
M12 Circular connectors

Male to R/A female cable (with LED PNP)

Product figure (M12-M8)



Scale diagram

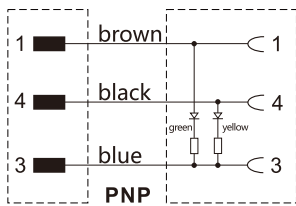


Contact layout/针孔排布 (Front view/前视图)

3pins



Circuit diagram/电路图

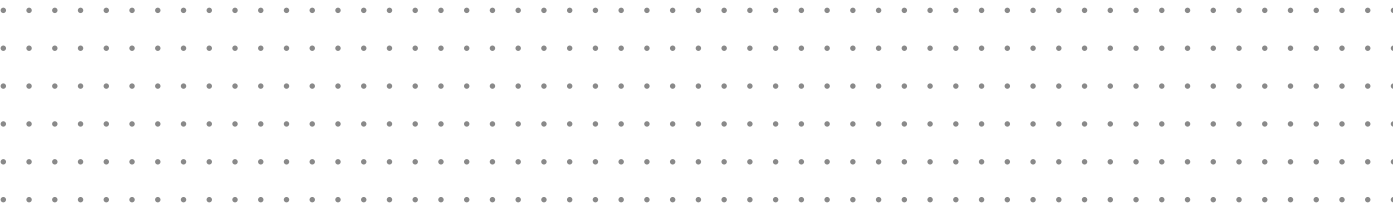


Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 0.3M                 | 3pins          | 280103-56-780       |
| 0.6M                 | 3pins          | 280103-56-781       |
| 1.0M                 | 3pins          | 280103-56-782       |
| 2.0M                 | 3pins          | 280103-56-783       |

Specifications/技术参数

|                            |               |
|----------------------------|---------------|
| Number of contacts/芯数      | 3             |
| Rated voltage/额定电压         | 250V          |
| Rated current (40°C)/额定电流  | 4A            |
| Protection degree/防护等级     | IP67/IP68     |
| Operating temperature/工作温度 | -25°C ~ +80°C |
| Cable OD/线材直径              | 4.6mm         |



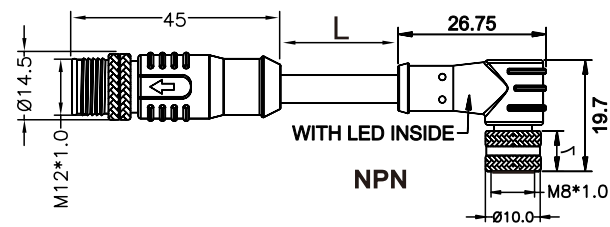
M12 Circular connectors

Male to R/A female cable (with LED NPN)

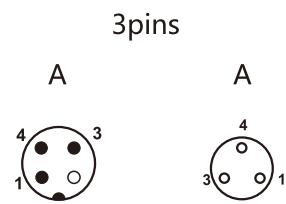
Product figure (M12-M8)



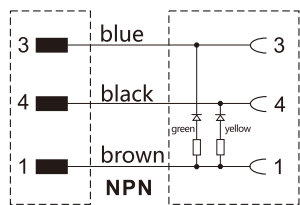
Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | 0.34mm <sup>2</sup> |
|----------------------|----------------|---------------------|
| 0.3M                 | 3pins          | 280103-56-784       |
| 0.6M                 | 3pins          | 280103-56-785       |
| 1.0M                 | 3pins          | 280103-56-786       |
| 2.0M                 | 3pins          | 280103-56-787       |

Specifications/技术参数

|                            |             |
|----------------------------|-------------|
| Number of contacts/芯数      | 3           |
| Rated voltage/额定电压         | 250V        |
| Rated current (40°C)/额定电流  | 4A          |
| Protection degree/防护等级     | IP67/IP68   |
| Operating temperature/工作温度 | -25°C~+80°C |
| Cable OD/线材直径              | 4.6mm       |



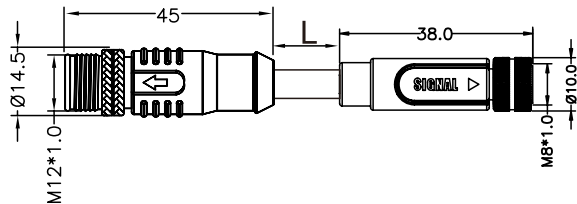
M12 Circular connectors

Male to female cable

Product figure (M12-M8)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-601 | 280103-56-641 | 280103-56-621 | 280103-56-661 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-601 | 280104-56-641 | 280104-56-621 | 280104-56-661 |
| 0.6M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-602 | 280103-56-642 | 280103-56-622 | 280103-56-662 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-602 | 280104-56-642 | 280104-56-622 | 280104-56-662 |
| 1.0M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-603 | 280103-56-643 | 280103-56-623 | 280103-56-663 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-603 | 280104-56-643 | 280104-56-623 | 280104-56-663 |
| 2.0M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-604 | 280103-56-644 | 280103-56-624 | 280103-56-664 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-604 | 280104-56-644 | 280104-56-624 | 280104-56-664 |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 60V           |           |
| Rated current (40°C)/额定电流  | 3A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD/线材直径              | 4.6mm         | 4.6~6.0mm |

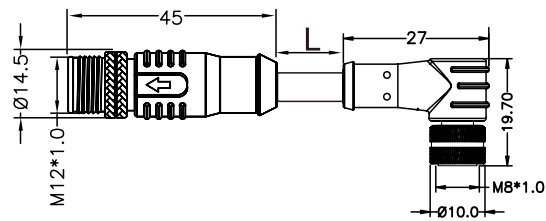
M12 Circular connectors

Male to R/A female cable

Product figure (M12-M8)



Scale diagram



Contact layout/针孔排布 (Front view/前视图)



Circuit diagram/电路图



Order No/订货号

| Cable length<br>线材长度 | Contacts<br>芯数 | Wire diameter<br>线径 | PVC           |               | PUR           |               |
|----------------------|----------------|---------------------|---------------|---------------|---------------|---------------|
|                      |                |                     | black/黑色      | gray/灰色       | black/黑色      | gray/灰色       |
| 0.3M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-701 | 280103-56-741 | 280103-56-721 | 280103-56-761 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-701 | 280104-56-741 | 280104-56-721 | 280104-56-761 |
| 0.6M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-702 | 280103-56-742 | 280103-56-722 | 280103-56-762 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-702 | 280104-56-742 | 280104-56-722 | 280104-56-762 |
| 1.0M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-703 | 280103-56-743 | 280103-56-723 | 280103-56-763 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-703 | 280104-56-743 | 280104-56-723 | 280104-56-763 |
| 2.0M                 | 3pins          | 0.25mm <sup>2</sup> | 280103-56-704 | 280103-56-744 | 280103-56-724 | 280103-56-764 |
|                      | 4pins          | 0.25mm <sup>2</sup> | 280104-56-704 | 280104-56-744 | 280104-56-724 | 280104-56-764 |

Specifications/技术参数

| Number of contacts/芯数      | 3             | 4         |
|----------------------------|---------------|-----------|
| Rated voltage/额定电压         | 60V           |           |
| Rated current (40°C)/额定电流  | 3A            |           |
| Protection degree/防护等级     | IP67/IP68     |           |
| Operating temperature/工作温度 | -25°C ~ +80°C |           |
| Cable OD/线材直径              | 4.6mm         | 4.6~6.0mm |