

**IP 65 . 67 . 68**

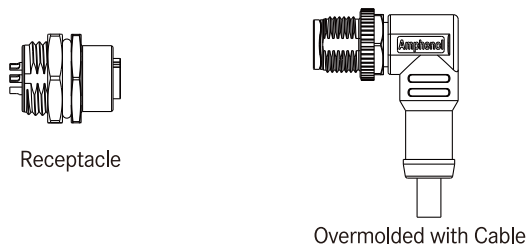
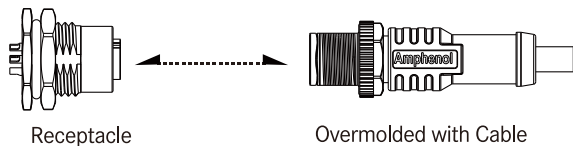
Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

# M Series Sensor Connector

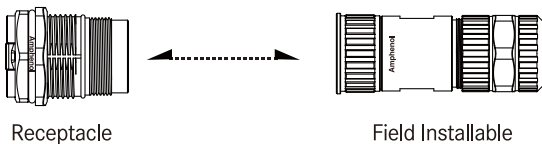
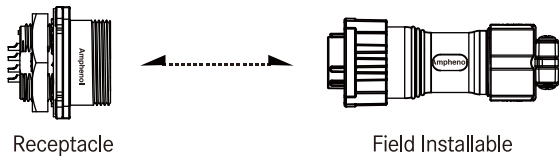
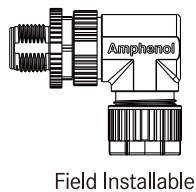
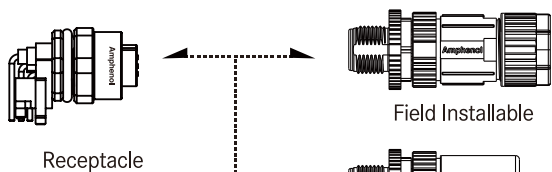


# Range Overview

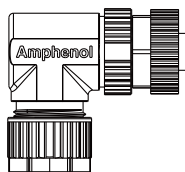
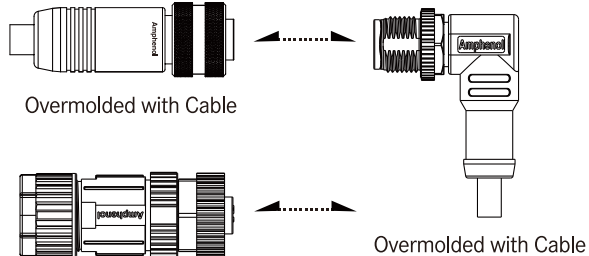
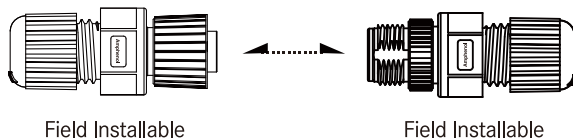
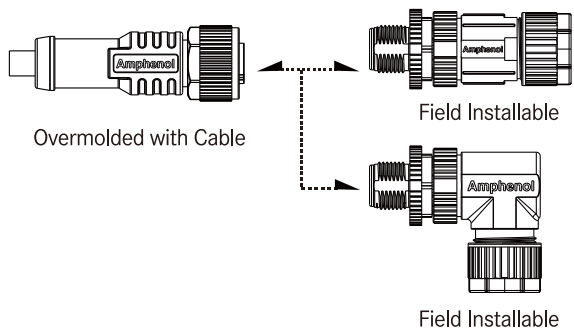
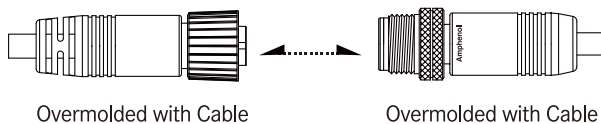
## Receptacle to Overmolded with Cable



## Receptacle to Field Installable

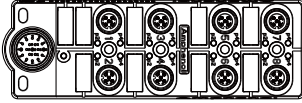


## In Line

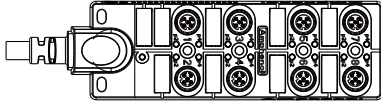


## Range Overview

### Passive Distribution Box

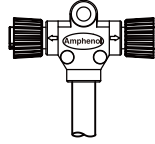


With Homerun Connector

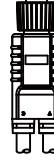


With Cable

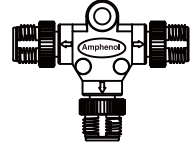
### Accessories



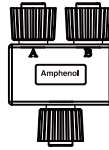
T Cable



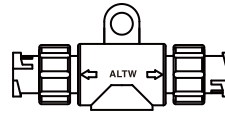
Y Cable



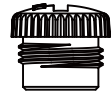
T Adaptor



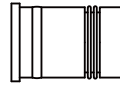
Y Adaptor



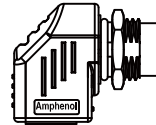
I Adaptor



Waterproof Cap



Insert



M12 to RJ45 Adaptor

## Specification | M Sensor Connector

|                              |  |
|------------------------------|--|
| <b>Identifications</b>       | M8, M10.5, M12 (A, B, D, S, T, X code),<br>Heavy Duty Shielded Connector, M23  |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable<br>Field Installable   |
| <b>Current Rating / Data</b> | 1.5A~28A   |
| <b>Operating Voltage</b>     | 2~4 Pins : 250V<br>5 Pins : 60V<br>6 ~12 Pins : 30V  |
| <b>Contact Resistance</b>    | ≤ 10mΩ   |
| <b>Voltage Proof</b>         | 3 ~ 4 Pins : 1.4 KVRms<br>5 Pins : 1.0 KVRms<br>6 ~8 Pins : 0.65 KVRms   |
| <b>Waterproof Rating</b>     | IP65 / 67 / 68   |
| <b>Temperature Range</b>     | Receptacle: -40°C~105°C<br>Overmolded with Cable: PVC Cable: -20°C~80°C<br>PU Cable: -20°C~85°C<br>Field Installable: -40°C~105°C<br>* Higer working temperature upon request. |
| <b>Mating Cycle</b>          | 100* Minimum   |
| <b>Vibration</b>             | 10 ~ 500 Hz and 0.35 mm  |
| <b>Material</b>              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : Nylon+GF or PU, UL Recognized<br>Shield: Zinc Alloy or Copper Ally, Nickel Plated                            |
| <b>Standard Cable Length</b> | 01~99M   |
| <b>Standards</b>             | IEC 61076-2-101<br>IEC 61076-2-104   |

【Note】 Design and specification are subject to change without notice.

## Specification | Passive Distribution Box

|                              |  |
|------------------------------|--|
| <b>Identifications</b>       | M8 Passive Distribution Box<br>M12 Passive Distribution Box  |
| <b>Description</b>           | With Cable<br>With Homerun Connector   |
| <b>Current Load Per Port</b> | M8 Distribution Box: 2A (Max.)<br>M12 Distribution Box: 2A (Max.)  |
| <b>Current Sum max.</b>      | M8 Distribution Box: 6A (Max.)<br>M12 Distribution Box: 12A (Max.)   |
| <b>Operating Voltage</b>     | 24V DC Nominal (10~30V)  |
| <b>Contact Resistance</b>    | <10mΩ  |
| <b>Switching Output</b>      | PNP  |
| <b>Power Indicator</b>       | LED, Green   |
| <b>Function Indicator</b>    | LED, Yellow  |
| <b>Waterproof Rating</b>     | M8 Distribution Box: IP 67 Unmated<br>M12 Distribution Box: IP 67 Unmated  |
| <b>Temperature Range</b>     | With Cable: -20°C ~ 80°C<br>With Homerun Connector: -25°C ~ 90°C   |
| <b>Vibration</b>             | 10 to 500 Hz and 0.35mm  |
| <b>Material</b>              | Conn. Housing: PA66<br>Box: PBT+PC<br>Contacts: Copper Alloy, Gold Plated<br>O-ring: Silicone<br>Shell: Zinc Die Cast, Nickel Plated |
| <b>Standard Cable Length</b> | 5M, 10M, 15M, 20M & 30M  |
| <b>Standards</b>             | IEC 61076-2-101  |

# Ordering Information | M8 / Guided M8 / M10.5 / M23 / HDSC

| Specification / Size  | 1   | 2   | 3   | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|----|
| <b>&gt; M8 Size</b><br>(B) M8<br>(8P) M8, Plastic<br>(M8S) M8, Shielded   | <b>&gt; M10.5 Size</b><br>(105) M10.5   |   |   |   |   |   |   |   |   |    |
| <b>&gt; M8 Size with Key, Guided M8</b><br>(8A) M8 with Key<br>(8AP) M8 with Key, Plastic<br>(8H) M8 with Key, Power (3A) +Data (1.5A)<br>(8HP) M8 with Key, Plastic, Power (3A) +Data (1.5A)<br>(M8AS) M8 with Key, Shielded | <b>&gt; M23 Size</b><br>(LJ23) Shielded, Salt Spray Test 48H, 28A   |   |   |   |   |   |   |   |   |    |
|   | <b>&gt; Heavy Duty Shielded Connector (HDSC)</b><br>(HB20) Shielded, Salt Spray Test 500H, 10A<br>(LB20) Shielded, Salt Spray Test 48H, 10A<br>(HC20) Shielded, Salt Spray Test 500H, 20A<br>(LC20) Shielded, Salt Spray Test 48H, 20A<br>(HD20) Shielded, Salt Spray Test 500H, 5A<br>(LD20) Shielded, Salt Spray Test 48H, 5A |   |   |   |   |   |   |   |   |    |
| <b>Number of Contacts</b><br>02, 03, ..., 14, ... Contacts<br>EX. (02) = 2 Contacts   |   |   |   |   |   |   |   |   |   |    |
| <b>Connector Body (Style)</b><br><b>&gt; For Receptacle</b><br>(P) Panel  | <b>&gt; For Overmolded with Cable</b><br>(A) With Strain Relief<br>(B) Without Strain Relief  |   |   |   |   |   |   |   |   |    |
|   | <b>&gt; For Field Installable</b><br>(B) Without Strain Relief  |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender</b><br>(M) Male Connector   | (F) Female Connector  |   |   |   |   |   |   |   |   |    |
| <b>Contact Gender</b><br>(M) Male   | (F) Female  |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b><br><b>&gt; For Receptacle</b><br>(S) Solder Type<br>(P) 180° PCB Type<br>(R) 90° PCB Type<br>(C) Crimp Type   | <b>&gt; For Overmolded with Cable</b><br>(M) Overmolded with Cable  |   |   |   |   |   |   |   |   |    |
|   | <b>&gt; For Field Installable</b><br>(A) Solder Type<br>(B) Screw Type<br>(C) Crimp Type<br>(D) IDC Type  |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b><br>(S) Screw Thread   | (Q) Quick   |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b><br><b>&gt; For Receptacle</b><br>(C) Circular, Rear Fastened<br>(F) Hexagonal, Front Fastened<br>(H) Hexagonal, Rear Fastened<br>(N) Square, Rear Fastened with Nut<br>(W) Square, Front Fastened with Screw | <b>&gt; For Overmolded with Cable</b><br>(L) Straight<br>(R) Right Angle  |   |   |   |   |   |   |   |   |    |
|   | <b>&gt; For Field Installable</b><br>(L) Straight<br>(R) Right Angle  |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b><br>(5) IP65 (Quick Type)<br>(7) IP 67<br>(8) IP 68   |   |   |   |   |   |   |   |   |   |    |
| <b>More Information</b><br><b>&gt; For Receptacle</b><br>(001), (002), (003).....<br>e.g. (001) With Logo<br>(002) With Logo  | <b>&gt; For Receptacle with Wire Harness</b><br>(□)+(■) : Cable Type + Wire Length<br>e.g. (A15) = UL 1007 Cable + 150mm<br><br>(□) : Cable Type<br>(A) UL 1007 Cable (For M8)  | <b>&gt; For Overmolded with Cable</b><br>(□)+(■) : Cable Type + Cable Length<br>e.g. (A01) = UL2464 Cable + 1M<br><br>(□) : Cable Type<br>(A) PVC UL2464 Cable<br>(B) PU VW-1 Cable | <b>&gt; For Field Installable</b><br>(001), (002), (003).....<br>For Different Versions |   |   |   |   |   |   |    |
|   | (■) : Wire Length<br>(15) 150mm<br>(30) 300mm<br>(50) 500mm<br>(A0) 1000mm<br>(A5) 1500mm   | (■) : Cable Length<br>From 1M to 99M<br>EX. (01) = 1M   |   |   |   |   |   |   |   |    |

[Note] Design and specification are subject to change without notice.

# Ordering Information | M12

|  | 1   | 2 | 3   | 4 | 5                                    | 6 | 7                                 | 8 | 9 | 10 |  |
|--|---|---|---|---|--------------------------------------|---|-----------------------------------|---|---|----|--|
| <b>Specification / Size</b>                          |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <u>&gt; A-Coded</u>                                  |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (M12A) M12 A-Coded                                   | <u>&gt; S-Coded</u>   |   | (M12S) M12 S-Coded                        |   |                                      |   |                                   |   |   |    |  |
| (MSAP) M12 A-Coded, Plastic                          | (MSSP) M12 S-Coded, Plastic   |   |   |   |                                      |   |                                   |   |   |    |  |
| (MSAS) M12 A-Coded, Shielded                         | <u>&gt; T-Coded</u>   |   | (M12T) M12 T-Coded                        |   |                                      |   |                                   |   |   |    |  |
| <u>&gt; B-Coded</u>                                  | (MSTP) M12 T-Coded, Plastic   |   |   |   |                                      |   |                                   |   |   |    |  |
| (M12B) M12 B-Coded                                   | <u>&gt; X-Coded</u>   |   | (MSXS) M12 X-Coded, Shielded              |   |                                      |   |                                   |   |   |    |  |
| (MSBP) M12 B-Coded, Plastic                          | (M12I) M12 I-Style  |   |   |   |                                      |   |                                   |   |   |    |  |
| (MSBS) M12 B-Coded, Shielded                         | (MSIP) M12 I-Style, Plast   |   |   |   |                                      |   |                                   |   |   |    |  |
| <u>&gt; D-Coded</u>                                  |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (M12D) M12 D-Coded                                   |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (MSDP) M12 D-Coded, Plastic                          |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (MSDS) M12 D-Coded, Shielded                         |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <b>Number of Contacts</b>                            |   |   |   |   |                                      |   |                                   |   |   |    |  |
| 02, 03, ..., 14...Contacts<br>e.g. (02) = 2 Contacts |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <b>Connector Body (Style)</b>                        |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <u>&gt; For Receptacle</u>                           |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (P) Panel  | <u>&gt; For Overmolded with Cable</u>   |   | <u>&gt; For Field installable</u>         |   |                                      |   |                                   |   |   |    |  |
|  | (A) With Strain Relief  |   | (A) With Strain Relief                    |   |                                      |   |                                   |   |   |    |  |
|  | (B) Without Strain Relief   |   | (B) Without Strain Relief                 |   |                                      |   |                                   |   |   |    |  |
| <b>Connector (Housing) Gender</b>                    |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (M) Male Connector                                   | (F) Female Connector  |   |   |   |                                      |   |                                   |   |   |    |  |
| <b>Contact Gender</b>                                |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (M) Male   | (F) Female  |   | (I) I style (Male+Female)                 |   |                                      |   |                                   |   |   |    |  |
| <b>Assemble Style</b>                                |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <u>&gt; For Receptacle</u>                           |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (S) Solder Type                                      | <u>&gt; For Field Installable</u>   |   | <u>&gt; For Overmolded with Cable</u>     |   |                                      |   |                                   |   |   |    |  |
| (P) 180° PCB Type                                    | (A) Solder Type (10&12 pins are available as standard product. Other pins are available upon request) |   | (M) Overmolded with Cable                 |   |                                      |   |                                   |   |   |    |  |
| (R) 90° PCB Type                                     | (B) Screw Type  |   |   |   |                                      |   |                                   |   |   |    |  |
| (C) Crimp Type                                       | (C) Crimp Type  |   |   |   |                                      |   |                                   |   |   |    |  |
|  | (D) IDC Type  |   |   |   |                                      |   |                                   |   |   |    |  |
| <b>Mating Style</b>                                  |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (S) Screw Thread                                     | (Q) Quick   |   |   |   |                                      |   |                                   |   |   |    |  |
| <b>Backshell</b>                                     |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <u>&gt; For Receptacle</u>                           |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (C) Circular, Rear Fastened                          | <u>&gt; For Overmolded with Cable</u>   |   | <u>&gt; For Field Installable</u>         |   |                                      |   |                                   |   |   |    |  |
| (F) Hexagonal, Front Fastened                        | (L) Straight  |   | (L) Straight                              |   |                                      |   |                                   |   |   |    |  |
| (H) Hexagonal, Rear Fastened                         | (R) Right Angle   |   | (R) Right Angle                           |   |                                      |   |                                   |   |   |    |  |
| (N) Square, Rear Fastened with Nut                   |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (W) Square, Front Fastened with Screw                |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <b>Waterproof Rating</b>                             |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (5) IP65 (Quick Type)                                |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (7) IP 67  |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (8) IP 68  |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <b>Cable information</b>                             |   |   |   |   |                                      |   |                                   |   |   |    |  |
| <u>&gt; For Receptacle</u>                           |   |   |   |   |                                      |   |                                   |   |   |    |  |
| (001) PG9  | <u>&gt; For Receptacle with Wire Harness</u>  |   | <u>&gt; For Overmolded with Cable</u>     |   |                                      |   | <u>&gt; For Field Installable</u> |   |   |    |  |
| (002) M16  | (□)+(■) : Wire Type + Wire Length   |   | (□)+(■) : Cable Type + Cable Length       |   |                                      |   | (001), (002), (003).....          |   |   |    |  |
| (003) M12  | e.g. (B15) = UL1061 + 150mm   |   | e.g. (A01) = PVC UL2517 Yellow Cable + 1M |   |                                      |   | For Different Versions            |   |   |    |  |
|  | <u>(□) : Wire Type</u>  |   | <u>(■) : Cable Length</u>                 |   | <u>(□) : Cable Type</u>              |   | <u>(■) : Cable Length</u>         |   |   |    |  |
|  | (B) UL1061 (For M12-PG9)  |   | (15) 150mm                                |   | (A) PVC UL2517 Yellow Cable          |   | From 1M to 99M                    |   |   |    |  |
|  | (C) UL1061 (For M12-M16)  |   | (30) 300mm                                |   | (B) PU UL20549 Cable                 |   | EX. (01) = 1M                     |   |   |    |  |
|  |   |   | (50) 500mm                                |   | (C) CAN Cable                        |   |                                   |   |   |    |  |
|  |   |   | (A0) 1000                                 |   | (D) PVC UL2517 Black Cable           |   |                                   |   |   |    |  |
|  |   |   | (A5) 1500                                 |   | (E) CAT5e Cable(2Pair/4Pair)         |   |                                   |   |   |    |  |
|  |   |   |   |   | (F) F-PVC UL2095 Black Cable         |   |                                   |   |   |    |  |
|  |   |   |   |   | (G) PVC UL 21996, Balck, round cable |   |                                   |   |   |    |  |
|  |   |   |   |   | (H) PVC UL 21996, Balck, oval cable  |   |                                   |   |   |    |  |
|  |   |   |   |   | (S) AC 630V Cable                    |   |                                   |   |   |    |  |
|  |   |   |   |   | (T) DC 60V Cable                     |   |                                   |   |   |    |  |
|  |   |   |   |   | (X) CAT6 <sub>A</sub> Cable          |   |                                   |   |   |    |  |

# Ordering Information | M8 SMT

1

2

3

4

5

6

7

8

9

10

## Specification / Size

(M8S) M8, Shielded

## Number of Contacts

03, 04 Contacts

EX. (03) = 3 Contacts

## Connector Body (Style)

> [For Receptacle](#)

(P) Panel

## Connector (Housing) Gender

(M) Male Connector

(F) Female Connector

## Contact Gender

(M) Male

(F) Female

## Assemble Style

> [For Receptacle](#)

(T) SMT Type

## Mating Style

(E) None

## Backshell

> [For Receptacle](#)

(E) None

## Waterproof Rating

(8) IP 68(Matel), IP65(Unmated)

## More Information

> [For Receptacle](#)

(001), (002), (003).....



# Ordering Information | M12 SMT

|                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|----|
| <b>Specification / Size</b>       |   |   |   |   |   |   |   |   |   |    |
| > <a href="#">A-Coded</a>         |   |   |   |   |   |   |   |   |   |    |
| (MSAS) M12 A-Coded, Shielded      |   |   |   |   |   |   |   |   |   |    |
| > <a href="#">B-Coded</a>         |   |   |   |   |   |   |   |   |   |    |
| (MSBS) M12 B-Coded, Shielded      |   |   |   |   |   |   |   |   |   |    |
| > <a href="#">D-Coded</a>         |   |   |   |   |   |   |   |   |   |    |
| (MSDS) M12 D-Coded, Shielded      |   |   |   |   |   |   |   |   |   |    |
| <b>Number of Contacts</b>         |   |   |   |   |   |   |   |   |   |    |
| 04, 05, 08 Contacts               |   |   |   |   |   |   |   |   |   |    |
| EX. (04) = 4 Contacts             |   |   |   |   |   |   |   |   |   |    |
| <b>Connector Body (Style)</b>     |   |   |   |   |   |   |   |   |   |    |
| > <a href="#">For Receptacle</a>  |   |   |   |   |   |   |   |   |   |    |
| (P) Panel                         |   |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender</b> |   |   |   |   |   |   |   |   |   |    |
| (M) Male Connector                |   |   |   |   |   |   |   |   |   |    |
| (F) Female Connector              |   |   |   |   |   |   |   |   |   |    |
| <b>Contact Gender</b>             |   |   |   |   |   |   |   |   |   |    |
| (M) Male                          |   |   |   |   |   |   |   |   |   |    |
| (F) Female                        |   |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b>             |   |   |   |   |   |   |   |   |   |    |
| > <a href="#">For Receptacle</a>  |   |   |   |   |   |   |   |   |   |    |
| (T) SMT Type                      |   |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b>               |   |   |   |   |   |   |   |   |   |    |
| (E) None                          |   |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b>                  |   |   |   |   |   |   |   |   |   |    |
| > <a href="#">For Receptacle</a>  |   |   |   |   |   |   |   |   |   |    |
| (E) None                          |   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b>          |   |   |   |   |   |   |   |   |   |    |
| (8) IP 68 (Mated), IP65 (Unmated) |   |   |   |   |   |   |   |   |   |    |
| <b>Cable Information</b>          |   |   |   |   |   |   |   |   |   |    |
| > <a href="#">For Receptacle</a>  |   |   |   |   |   |   |   |   |   |    |
| (001), (002), (003)...            |   |   |   |   |   |   |   |   |   |    |

# Ordering Information | Combo

|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|----|
| <b>Specification (1st End)</b>              |   |   |   |   |   |   |   |   |   |    |
| (RJ) RJ Unshield                            |   |   |   |   |   |   |   |   |   |    |
| (RJS) RJ Shielded                           |   |   |   |   |   |   |   |   |   |    |
| (RJ8) RJ Unshield (13/16" - 16 UN)          |   |   |   |   |   |   |   |   |   |    |
| (RS8) RJ Shielded (13/16" - 16 UN)          |   |   |   |   |   |   |   |   |   |    |
| <b>Specification (2nd End)</b>              |   |   |   |   |   |   |   |   |   |    |
| (12A) M12 A-Coded                           |   |   |   |   |   |   |   |   |   |    |
| (12B) M12 B-Coded                           |   |   |   |   |   |   |   |   |   |    |
| (12D) M12 D-Coded                           |   |   |   |   |   |   |   |   |   |    |
| (12X) M12 X-Coded                           |   |   |   |   |   |   |   |   |   |    |
| <b>Number of Contacts (2st End)</b>         |   |   |   |   |   |   |   |   |   |    |
| 02, 03,...,14...Contacts                    |   |   |   |   |   |   |   |   |   |    |
| EX. (02) = 2 Contacts                       |   |   |   |   |   |   |   |   |   |    |
| <b>Contact Gender (2st End)</b>             |   |   |   |   |   |   |   |   |   |    |
| (M) Male                                    |   |   |   |   |   |   |   |   |   |    |
| (F) Female                                  |   |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender (2st End)</b> |   |   |   |   |   |   |   |   |   |    |
| (M) Male Connector                          |   |   |   |   |   |   |   |   |   |    |
| (F) Female Connector                        |   |   |   |   |   |   |   |   |   |    |
| <b>Style</b>                                |   |   |   |   |   |   |   |   |   |    |
| (L) Straight 180° Type                      |   |   |   |   |   |   |   |   |   |    |
| (R) Right Angle 90° Type                    |   |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b>                         |   |   |   |   |   |   |   |   |   |    |
| (S) Screw Thread                            |   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b>                    |   |   |   |   |   |   |   |   |   |    |
| (6) IP 66                                   |   |   |   |   |   |   |   |   |   |    |
| (7) IP 67                                   |   |   |   |   |   |   |   |   |   |    |
| (8) IP 68                                   |   |   |   |   |   |   |   |   |   |    |
| <b>Information</b>                          |   |   |   |   |   |   |   |   |   |    |
| (001), (002), (003).....                    |   |   |   |   |   |   |   |   |   |    |
| For Different Versions                      |   |   |   |   |   |   |   |   |   |    |

# Ordering Information | Passive Distribution Box

1 - 2 3 4 5 - 6 7 8 9 10

## Specification / Size

> With M8 Connectors

(DB8) M8 Connector

> With M12 Connectors

(DB12) M12 Sensor Connector

## Number of Contacts

02, 03, ..., 14...Contacts

e.g. (02) = 2 Contacts

## Code

(A) A Code

(B) B Code

(C) C Code

## Ports

(4) 4 Ports

(6) 6 Ports

(8) 8 Ports

(10) 10 Ports (For M8 Connectors Only)

## HomeRun Connector

(M8) M8 Connector

(M23) M23 Connector

(M12) M12 Connector

(TBK) Terminal Block

(M16) M16 Connector

(CAB) Cable

## Signal Output

(0) None

(S) Single

(D) Dual

## Switching Output

(0) None

(S) PNP

(D) NPN

## Mating Style

(L) Lock

(S) Screw

(Q) Quick

## Waterproof Rating

(5) IP 65 (Quick Type)

(7) IP 67

(6) IP 66

(8) IP 68

## For More Information

> Without Cable

(001), (002), (003).....

For Different Versions

> With Cable

(□)+(■) : Cable Type + Cable Length

e.g. (A01) = PVC UL2517 Cable + 1M

(□) : Cable Type

(A) PVC UL2517 Cable

(B) PU 20549 Cable

(C) Hi-Flex Cable

(D) DeviceNet / NMEA

(E) Ethernet

(F) ProfiBus

(P) ProfiNet

(■) : Cable Length

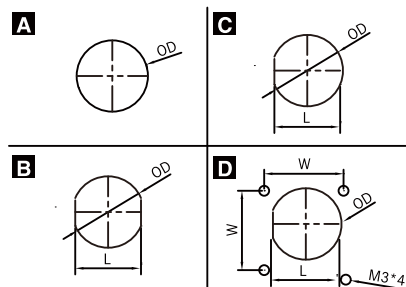
From 1M to 99M

e.g. (01) = 1M

# Physical Dimension

## Receptacle

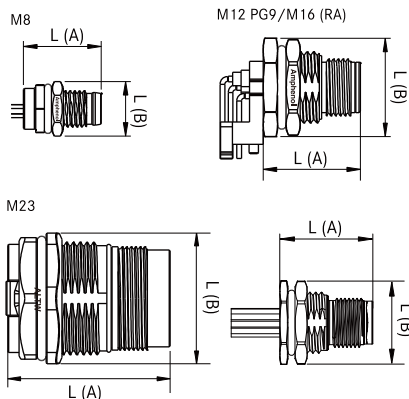
Panel Cut-Out



| Size  |                         | Dimension |      |      | Type | L / W       | OD   |
|-------|-------------------------|-----------|------|------|------|-------------|------|
| Size  | Thread Description      | Female    |      |      | Male |             |      |
| M105  | M10.5 X 0.75            | -         | -    | -    | A    | -           | 10.9 |
| M8    | M8 X 1.0                | B         | 7.1  | 8.1  | B    | 7.1         | 8.1  |
|       |                         | -         | -    | -    | A    | -           | 8.1  |
| M12   | M12 X 1.0 - PG9         | B         | 13.6 | 15.4 | B    | 13.6        | 15.4 |
|       | M12 X 1.0 - M16.0 X 1.5 | B         | 13.6 | 16.1 | B    | 13.6        | 16.1 |
|       | M12.0 X 1.0             | B         | 10.5 | 12.2 | B    | 10.5        | 12.2 |
| HDSC* | M22 X 1.0               | -         | -    | -    | C    | 19.2        | 20.2 |
|       |                         | -         | -    | -    | D    | 19.2 / 23.0 | 20.2 |
| M23   | M23 X 1.0               | -         | -    | -    | C    | 24.4        | 25.1 |

\*HDSC: Heavy Duty Shielded Connector

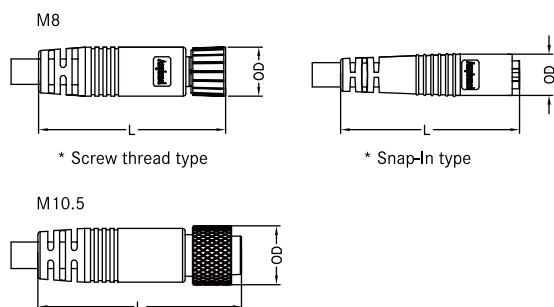
Connector Dimension



| Series | Conn. Gender | Receptacle  |       |       |       | Panel Thickness |                                   |            |
|--------|--------------|-------------|-------|-------|-------|-----------------|-----------------------------------|------------|
|        |              | Female      |       | Male  |       | Front Fastened  | Rear Fastened                     |            |
|        |              | L (A)       | L (B) | L (A) | L (B) |                 |                                   |            |
| M8     | Straight     | 18.0        | 13.8  | 16.4  | 11.5  | 3.0 mm Max.     | 3.5 mm Max.                       |            |
| M105   | Straight     | -           | -     | 18.0  | 15.0  | -               | 6.0 mm Max.                       |            |
| M12    | PG9/ M16     | Straight    | 20.0  | 20.6  | 23.0  | 20.6            | 4.5mm Max.<br>4.0mm Max.(Plastic) | 4.5mm Max. |
|        | Right Angle  | 20.0        | 20.8  | 20.5  | 20.8  |                 |                                   |            |
|        | M12*1.0      | Right Angle | 16.9  | 15.0  | 16.2  | 15.0            | 3.0mm Max.                        |            |
| HDSC*  | Straight     | -           | -     | 23.5  | 29.0  | 9.0mm Min.      | 5.0 mm Max.                       |            |
| M23    | Straight     | -           | -     | 36.0  | 29.0  | 6.0 mm Max.     | -                                 |            |

\*HDSC: Heavy Duty Shielded Connector

## Overmolded with Cable



| Size |                           | Dimension |      |        |      |
|------|---------------------------|-----------|------|--------|------|
| Size | Type                      | L         |      | OD     |      |
| M8   | Screw Thread M8 X 1.0     | Female    | Male | Female | Male |
| M8   | Snap-In M8 X 1.0          | 38.1      | 42.7 | 10.1   | 10.5 |
| M8   | Screw Thread M8 X 1.0     | 36.5      | -    | 8.4    | -    |
| M105 | Screw Thread M10.5 X 0.75 | 37.2      | -    | 12.0   | -    |

[Note] Design and specification are subject to change without notice.

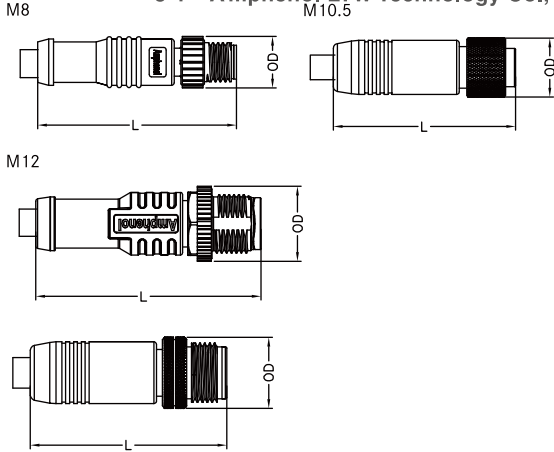
# M Series Sensor Connector | Physical Dimension

Receptacle | Overmolded with Cable | Field Installable | Passive Distribution Box

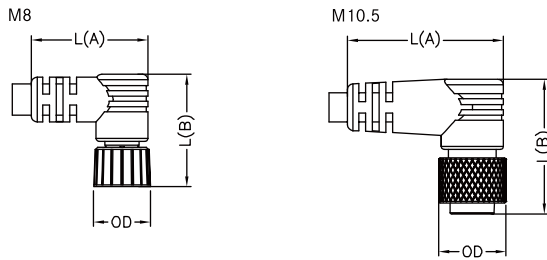
# IP 65 . 67 . 68

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

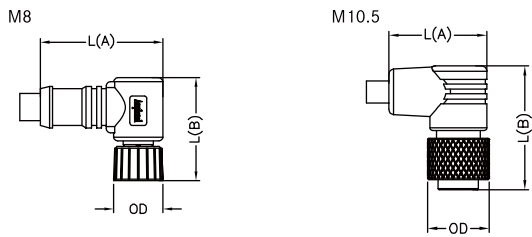
## 3-1 Amphenol LTW Technology Co., Ltd.



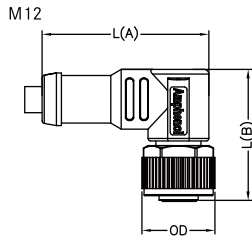
| Size \ Dimension |                           | L      |      | OD     |      |
|------------------|---------------------------|--------|------|--------|------|
| Size             | Type                      | Female | Male | Female | Male |
| M8               | Screw Thread M8 X 1.0     | 36.0   | 40.5 | 10.1   | 10.5 |
| M10.5            | Screw Thread M10.5 X 0.75 | 37.2   | -    | 12.0   | -    |
| M12              | Screw Thread M12.0 X 1.0  | 37.2   | -    | 12.0   | -    |
| M12 Shielded     | Screw Thread M12.0 X 1.0  | 39.2   | 40.1 | 14.5   | 14.5 |



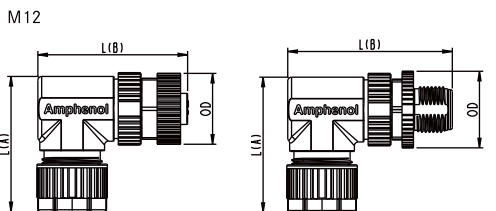
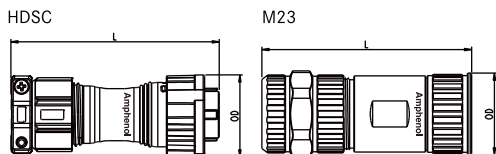
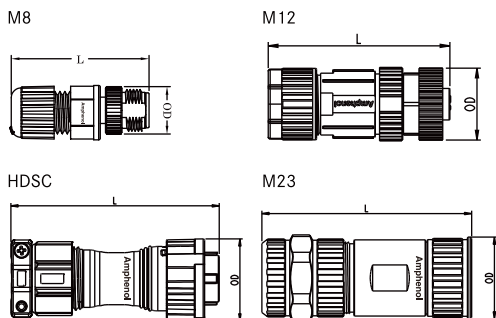
| Size \ Dimension |                           | L [A]  |      | L [B]  |      | OD     |      |
|------------------|---------------------------|--------|------|--------|------|--------|------|
| Size             | Thread Description        | Female | Male | Female | Male | Female | Male |
| M8               | M8 X 1.0                  | 24.0   | -    | 24.0   | -    | 12.0   | -    |
| M10.5            | Screw Thread M10.5 X 0.75 | 20.7   | 20.7 | 20.0   | 25.5 | 10.1   | 10.5 |



| Size \ Dimension |                           | L [A]  |      | L [B]  |      | OD     |      |
|------------------|---------------------------|--------|------|--------|------|--------|------|
| Size             | Thread Description        | Female | Male | Female | Male | Female | Male |
| M8               | M8 X 1.0                  | 24.0   | -    | 24.0   | -    | 12.0   | -    |
| M10.5            | Screw Thread M10.5 X 0.75 | 20.7   | 20.7 | 20.0   | 25.5 | 10.1   | 10.5 |



## Field Installable



| Dimension        |                    | Pin Type | L      |      | OD     |      |
|------------------|--------------------|----------|--------|------|--------|------|
| Size             | Thread Description |          | Female | Male | Female | Male |
| M8               | M8 X 1.0           | Screw In | 55.4   | 59.1 | 16.7   | 16.7 |
| M12<br>Metal Nut | M12 X 1.0          | Solder   | 40.5   | 41.8 | 14.5   | 14.4 |
|                  |                    | Screw    | 47.0   | 51.0 | 18.6   | 20.1 |
|                  |                    | IDC      | 47.0   | 51.0 | 18.6   | 20.1 |
| M12<br>Plastic   | M12 X 1.0          | Solder   | 61.3   | 61.3 | 20.8   | 20.8 |
|                  |                    | Screw    | 47.0   | 51.0 | 18.6   | 20.1 |
|                  |                    | IDC      | 47.0   | 51.0 | 18.6   | 20.1 |
| M12<br>Shielded  | M12 X 1.0          | Solder   | 52.0   | 55.0 | 18.6   | 20.1 |
|                  |                    | Screw    | 52.0   | 55.0 | 18.6   | 20.1 |
|                  |                    | IDC      | 52.0   | 55.0 | 18.6   | 20.1 |
| HDSC*            | M22 X 1.0          | -        | 72.5   | -    | 27.7   | -    |
| M23              | M23 X 1.0          | -        | 73.0   | -    | 28.5   | -    |

\*HDSC: Heavy Duty Shielded Connector

| Dimension      |                    | Pin Type | L [A]  |      | L [B]  |      | OD     |      |
|----------------|--------------------|----------|--------|------|--------|------|--------|------|
| Size           | Thread Description |          | Female | Male | Female | Male | Female | Male |
| M12            | M12.0 X 1.0        | Screw In | 38.9   | 38.9 | 52.3   | 52.3 | 20.8   | 20.8 |
| M12<br>Plastic |                    |          | 38.9   | 38.9 | 52.3   | 52.3 | 20.8   | 20.8 |

Dimensions are shown in millimeters

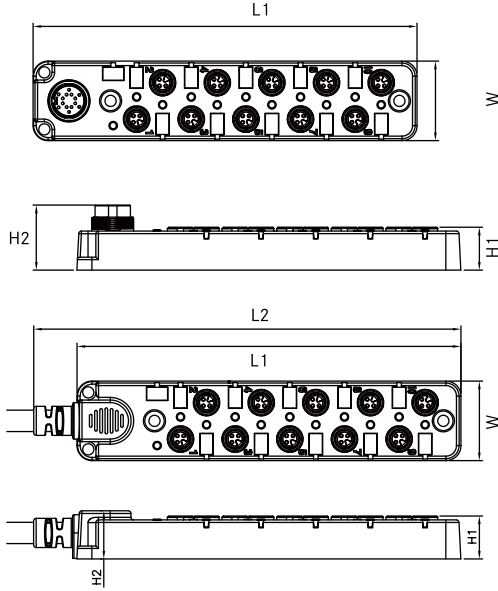
【Note】 Design and specification are subject to change without notice.

# IP 65 . 67 . 68

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

## Passive Distribution Box

M8

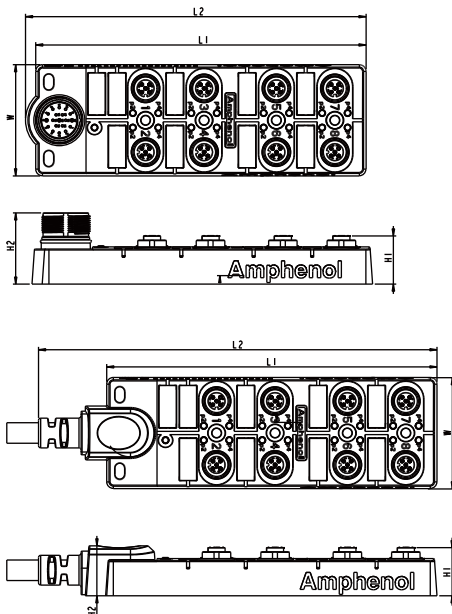


| Size             | Dimension<br>Thread Description | Pin Type | L      |      | OD     |      |
|------------------|---------------------------------|----------|--------|------|--------|------|
|                  |                                 |          | Female | Male | Female | Male |
| M8               | M8 X 1.0                        | Screw In | 55.4   | 59.1 | 16.7   | 16.7 |
|                  |                                 | Solder   | 40.5   | 41.8 | 14.5   | 14.4 |
|                  |                                 | Screw    | 47.0   | 51.0 | 18.6   | 20.1 |
| M12<br>Metal Nut | M12 X 1.0                       | IDC      | 47.0   | 51.0 | 18.6   | 20.1 |
|                  |                                 | Solder   | 61.3   | 61.3 | 20.8   | 20.8 |
|                  |                                 | Screw    | 47.0   | 51.0 | 18.6   | 20.1 |
| M12<br>Plastic   | M12 X 1.0                       | IDC      | 47.0   | 51.0 | 18.6   | 20.1 |
|                  |                                 | Solder   | 52.0   | 55.0 | 18.6   | 20.1 |
|                  |                                 | Screw    | 52.0   | 55.0 | 18.6   | 20.1 |
| M12<br>Shielded  | M12 X 1.0                       | IDC      | 52.0   | 55.0 | 18.6   | 20.1 |
|                  |                                 | Solder   | 52.0   | 55.0 | 18.6   | 20.1 |
|                  |                                 | Screw    | 52.0   | 55.0 | 18.6   | 20.1 |
| HDSC*            | M22 X 1.0                       | -        | 72.5   | -    | 27.7   | -    |
| M23              | M23 X 1.0                       | -        | 73.0   | -    | 28.5   | -    |

Unit: mm

## Passive Distribution Box

M12



|        |               | M12                                    |       |      |      |      |
|--------|---------------|--|-------|------|------|------|
|        |               | L1                                     | L2    | H1   | H2   | W    |
| 4 Port | With Cable    | 97.3                                   | 129.4 | 22.9 | 23.5 | 52.3 |
|        | Without Cable | 97.3                                   | 102.1 | 22.9 | 33.5 | 52.3 |
| 8 Port | With Cable    | 155.3                                  | 187.4 | 22.9 | 23.5 | 52.3 |
|        | Without Cable | 155.3                                  | 160.1 | 22.9 | 33.5 | 52.3 |
| Note   |               | Cable length is available from 01~99m. |       |      |      |      |

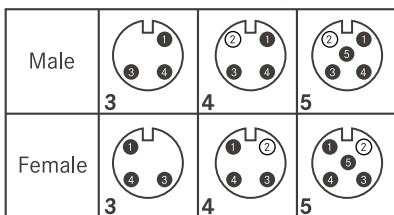
Unit: mm

# Contact Configuration

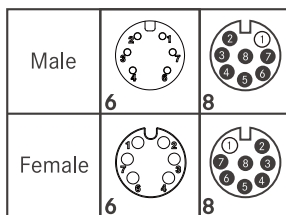
|            | G8       |          | M8       | M10.5    | M12 A Code |          |          | M12 B Code | M12 D Code | M12 I Code | M12 S Code |
|------------|----------|----------|----------|----------|------------|----------|----------|------------|------------|------------|------------|
|            | 1.5A     | 3A       | 3A       | 2A       | 1.5A       | 2A       | 4A       | 4A         | 4A         | 4A         | 12A        |
|            | MM or FF | MM or FF | MM or FF | MF or FM | MM or FF   | MM or FF | MM or FF | MM or FF   | MM or FF   | MF or FM   | MM or FF   |
| 2Pin (02)  |          |          |          |          |            |          |          |            |            |            |            |
| 3Pin (03)  |          |          |          |          |            |          |          |            |            |            |            |
| 4Pin (04)  |          |          |          |          |            |          |          |            |            |            |            |
| 5Pin (05)  |          |          |          |          |            |          |          |            |            |            |            |
| 6Pin (06)  |          |          |          |          |            |          |          |            |            |            |            |
| 7Pin (07)  |          |          |          |          |            |          |          |            |            |            |            |
| 8Pin (08)  |          |          |          |          |            |          |          |            |            |            |            |
| 10Pin (10) |          |          |          |          |            |          |          |            |            |            |            |
| 12Pin (12) |          |          |          |          |            |          |          |            |            |            |            |
| 14Pin (14) |          |          |          |          |            |          |          |            |            |            |            |

**More to know:**

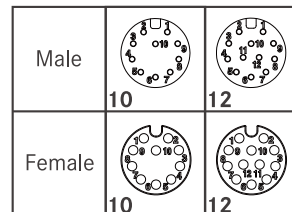
No. of Poles & Contact Configuration (Connection side view)



Color Identification:  
 1 = Brown, 2 = White, 3 = Blue, 4 = Black, 5 = Gray



Color Identification:  
 1 = White, 2 = Brown, 3 = Green, 4 = Yellow,  
 5 = Gray, 6 = Pink, 7 = Blue, 8 = Red



Color Identification:  
 1 = White, 2 = Brown, 3 = Green, 4 = Yellow,  
 5 = Gray, 6 = Pink, 7 = Blue, 8 = Red, 9 = Black,  
 10 = Violet, 11 = Gray/Pink, 12 = Red/Blue



# M Series Sensor Connector | Contact Configuration

1.5A | 2A | 3A | 4A | 5A | 10A | 20A | 28A

# IP 65 . 67 . 68

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

| M12 T Code | M12 X Code | HDSC     |          |          | M23      |          |
|------------|------------|----------|----------|----------|----------|----------|
| 12A        | 0.5A       | 5A       | 10A      | 20A      | 28A      |          |
| MM or FF   | MM or FF   | MF or FM | MF or FM | MF or FM | MM or FF | MF or FM |
|            |            |          |          |          |          |          |
|            |            |          |          | R   F    |          |          |
|            |            |          |          |          |          |          |
|            |            |          |          | R   F    |          |          |
|            |            |          |          |          |          |          |
| R   F      |            |          | R   F    |          |          |          |
|            |            |          |          |          |          |          |
|            |            |          | R   F    |          |          |          |
|            |            |          |          |          |          |          |
|            |            |          |          |          | R   F    | R   F    |
|            |            |          |          |          |          |          |
|            |            |          | R   F    |          |          |          |
|            |            |          |          |          |          |          |
|            | R   C      |          |          |          |          |          |
|            |            |          |          |          |          |          |
|            |            | R   F    |          |          |          |          |
|            |            |          |          |          |          |          |
|            |            | R   F    |          |          |          |          |
|            |            |          |          |          |          |          |
|            |            | R   F    |          |          |          |          |

**R:** Receptacle  
**C:** Overmolded with Cable  
**F:** Field Installable

- ◆ 0.5A (M12X)
- 1.5A (M8/M12A)
- 2A (M10.5/M12A)
- 3A (M8)
- ▲ 4A (M8/M12A/M12B/M12D M12 I Style)
- △ 5A (HDSC)
- 10A (HDSC)
- 12A (M12S/M12T)
- ◇ 20A (HDSC)
- 28A (M23)

**Contact Number:**

e.g.2 contacts (02)

**Connector (Housing) Gender:**

Male(M) or Female(F)

**Contact Gender:**

Male(M) or Female(F)  
Male + Female (I)

**More to Choose:**

- Solder (S)
- Solder Cup



- PCB Type
- 90° PCB (R)



- 180° PCB (P)



- Screw Type



- IDC Type



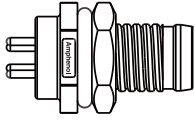
**More to know:**

A-Code B-Code D-Code I-Style S-Code T-Code X-Code



# Product Features

## Receptacle



### Mating Style 7



Screw Thread (S)

### Backshell 8



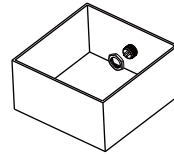
Circular (C)



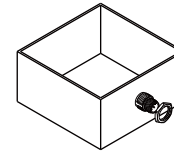
Hexagonal (H)(F)



Square (N)(W)

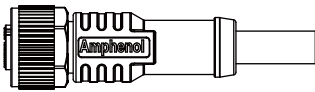


Rear Fastened



Front Fastened (P)

## Overmolded with Cable



### Mating Style 7

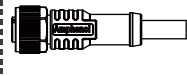


Screw Thread (S)  
(For M12)

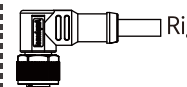


Quick (Q)  
(For M8)

### Backshell 8

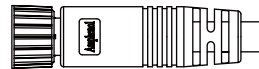


Straight  
(L)

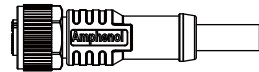


Right Angle  
(R)

### Connector Body(Style) 3

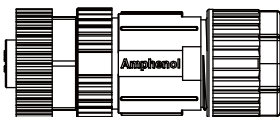


With Strain Relief (A)



Without Strain Relief (B)

## Field Installable



### Mating Style 7

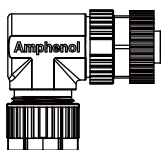


Screw Thread (S)

### Backshell 8



Straight (L)



Right Angle (R)

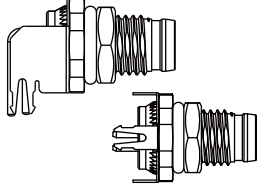
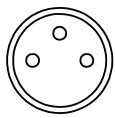
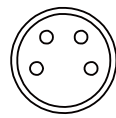
### Connector Body(Style) 3



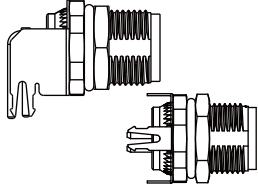
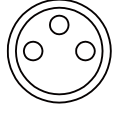
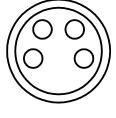
Without Strain Relief (B)

## Find Our Standard Products

### └ M8 (Shielded) > Receptacle > Male Connector

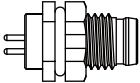

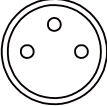
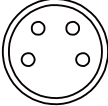
|   |   |   |
|---|---|---|
|  <p>Front Fastened</p> <p>Backshell: Hexagonal</p> |  |  |
|   | Type  | 4A/60V  |
| PCB Pin (180°)  | M8S-03PMMP-SF8001   | M8S-04PMMP-SF8001   |
| PCB Pin (90°)   | M8S-03PMMR-SF8001   | M8S-04PMMR-SF8001   |

### └ M8 (Shielded) > Receptacle > Female Connector

|  |  |  |
|--|--|--|
|  <p>Front Fastened</p> <p>Backshell: Hexagonal</p> |  |  |
|  | Type   | 4A/60V   |
| PCB Pin (180°)   | M8S-03PFFP-SF8001  | M8S-04PFFP-SF8001  |
| PCB Pin (90°)  | M8S-03PFFR-SF8001  | M8S-04PFFR-SF8001  |

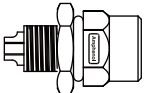
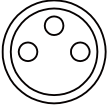
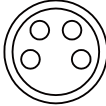
[ Note ] Design and specification are subject to change without notice.

∟ M8 (Metal Nut) > Receptacle > Male Connector

|   |   |   |
|---|---|---|
| <br>Front Fastened<br><br>Rear Fastened |  |  |
|   |   |   |
| Type  | 3A/60V  | 3A/30V  |
| PCB Pin (180°)  | 8-03PMMP-S <sup>8</sup> 7001  | 8-04PMMP-S <sup>8</sup> 7001  |
|   | 8-03PMMP-SF7002   | 8-04PMMP-SF7002   |
| Solder Pin (180°)   | 8-03PMMS-S <sup>8</sup> 7001  | 8-04PMMS-S <sup>8</sup> 7001  |
|   | 8-03PMMS-S <sup>8</sup> 7002  | 8-04PMMS-S <sup>8</sup> 7002  |

<sup>8</sup> Front Fastened (F) or Rear Fastened (H)

∟ M8 (Metal Nut) > Receptacle > Female Connector

|  |   |   |
|--|---|---|
| <br>Rear Fastened |  |  |
| Backshell: Hexagonal   |   |   |
| Type   | 3A/60V  | 3A/30V  |
| Solder Pin (180°)  | 8-03PFFS-SH7001   | 8-04PFFS-SH7001   |
|  | 8-03PFFS-SH7002   | 8-04PFFS-SH7002   |

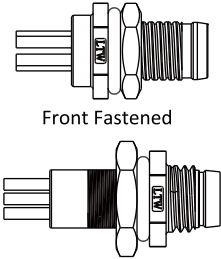
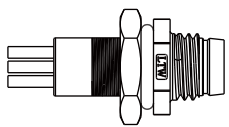
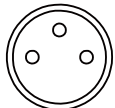
M8 (Metal Nut)

Receptacle with Wires > Male / Female Connector

IP 65 . 67 . 68

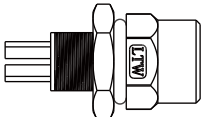
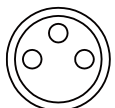

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

∟ M8 (Metal Nut) > Receptacle with Wires > Male Connector

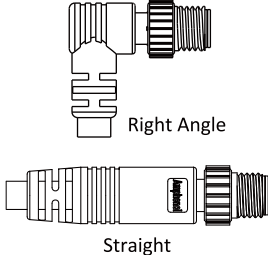
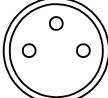
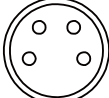
|  |   |   |
|--|---|---|
|  <p>Front Fastened</p> <p>Rear Fastened</p> <p>Backshell: Hexagonal</p> |  |  |
|  |   |   |
| 150mm  | 8-03PMMS-S 8 7A15   | 8-04PMMS-S 8 7A15   |
| 300mm  | 8-03PMMS-S 8 7A30   | 8-04PMMS-S 8 7A30   |
| 500mm  | 8-03PMMS-S 8 7A50   | 8-04PMMS-S 8 7A50   |
| 1000mm   | 8-03PMMS-S 8 7AA0   | 8-04PMMS-S 8 7AA0   |
| 1500mm   | 8-03PMMS-S 8 7AA5   | 8-04PMMS-S 8 7AA5   |

8 Front Fastened (F) or Rear Fastened (H)

∟ M8 (Metal Nut) > Receptacle with Wires > Female Connector

|  |   |   |
|--|---|---|
|  <p>Rear Fastened</p> <p>Backshell: Hexagonal</p> |  |  |
|  |   |   |
| 150mm  | 8-03PFFS-SH7A15   | 8-04PFFS-SH7A15   |
| 300mm  | 8-03PFFS-SH7A30   | 8-04PFFS-SH7A30   |
| 500mm  | 8-03PFFS-SH7A50   | 8-04PFFS-SH7A50   |
| 1000mm   | 8-03PFFS-SH7AA0   | 8-04PFFS-SH7AA0   |
| 1500mm   | 8-03PFFS-SH7AA5   | 8-04PFFS-SH7AA5   |

∟ **M8 (Metal Nut) > Overmolded with Cable > Male Connector**

|  |   |   |
|--|---|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |
| Type   | 3A/60V  | 3A/30V  |
| With Strain Relief   | 8-03AMMM-S <b>8</b> 7XXX*   | 8-04AMMM-S <b>8</b> 7XXX*   |
| Without Strain Relief  | 8-03BMMM-S <b>8</b> 7XXX*   | 8-04BMMM-S <b>8</b> 7XXX*   |

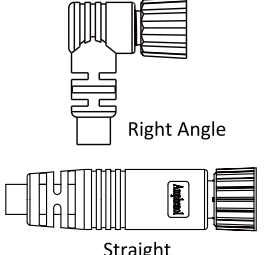


**8** Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

∟ **M8 (Metal Nut) > Overmolded with Cable > Female Connector**

|  |   |   |
|--|---|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |
| Type   | 3A/60V  | 3A/30V  |
| With Strain Relief   | 8-03AFFM-S <b>8</b> 7XXX*   | 8-04AFFM-S <b>8</b> 7XXX*   |
| Without Strain Relief  | 8-03BFFM-S <b>8</b> 7XXX*   | 8-04BFFM-S <b>8</b> 7XXX*   |

**8** Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

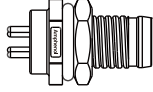
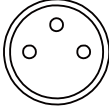
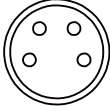
**M8 (Plastic)**

Receptacle > Male Connector | Overmolded with Cable > Male Connector

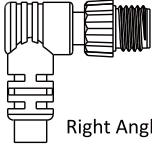

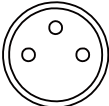
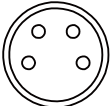
**IP 65 . 67 . 68**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

∟ **M8 (Plastic) > Receptacle > Male Connector**

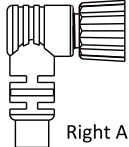

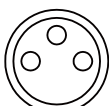

|   |   |   |
|---|---|---|
| <br>Front Fastened |  |  |
|   | Backshell: Hexagonal  |   |
| Type  | 3A/60V  | 3A/30V  |
| PCB Pin (180°)  | 8P-03PMMP-SF7001  | 8P-03PMMP-SF7001  |
| Solder Pin (180°)   | 8P-03PMMS-SF7002  | 8P-03PMMS-SF7002  |

∟ **M8 (Plastic) > Overmolded with Cable > Male Connector**

|   |   |   |
|---|---|---|
| <br>Right Angle<br><br><br>Straight |  |  |
|   | Type  | 3A/60V  |
| With Strain Relief  | 8P-03AMMM-S <b>8</b> 7XXX*  | 8P-04AMMM-S <b>8</b> 7XXX*  |
| Without Strain Relief   | 8P-03BMMM-S <b>8</b> 7XXX*  | 8P-04BMMM-S <b>8</b> 7XXX*  |

**8** Right Angle (R) or Straight (L) \* XXX: Choose the cable type and length:  
 - PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)  
 - PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)


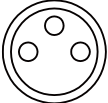

∟ **M8 (Plastic) > Overmolded with Cable > Female Connector**

|   |   |   |
|---|---|---|
| <br>Right Angle<br><br><br>Straight |  |  |
|   | Type  | 3A/60V  |
| With Strain Relief  | 8P-03AFFM-S <b>8</b> 7XXX*  | 8P-04AFFM-S <b>8</b> 7XXX*  |
| Without Strain Relief   | 8P-03BFFM-S <b>8</b> 7XXX*  | 8P-04BFFM-S <b>8</b> 7XXX*  |

**8** Right Angle (R) or Straight (L) \* XXX: Choose the cable type and length:  
 - PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)  
 - PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

[Note] Design and specification are subject to change without notice.

▾ M8 (Plastic) > Overmolded with Cable > Female Connector

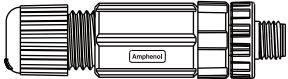
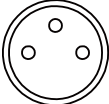
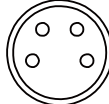
|   |   |   |
|---|---|---|
| <br>Straight |  |  |
| Type  | 3A/60V  | 3A/30V  |
| With Strain Relief  | 8P-03AFFM-QL5XXX*   | 8P-03AFFM-QL5XXX*   |

\* XXX: Choose the cable type and length:

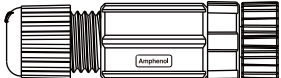
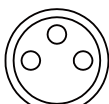

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

▾ M8 (Plastic) > Field Installable > Male Connector > Straight

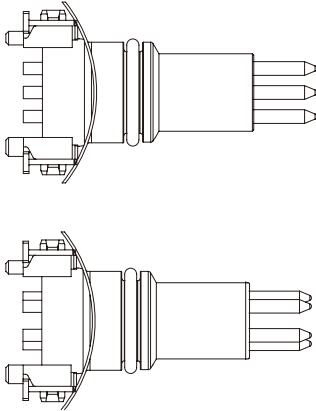
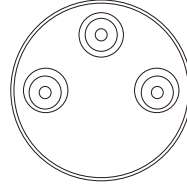
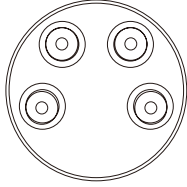
|   |              |   |  |
|---|--------------|---|--|
|  |              |  |  |
| Type  | Contact Type | 3A/60V  | 3A/30V   |
| Without Strain Relief   | Screw-in     | 8P-03BMMB-SL7001  | 8P-04BMMB-SL7001   |

▾ M8 (Plastic) > Field Installable > Female Connector > Straight

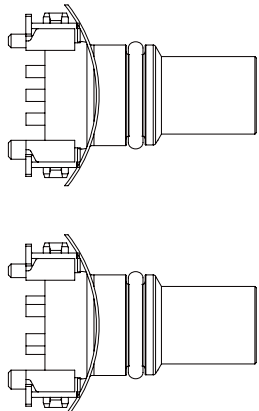
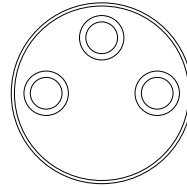
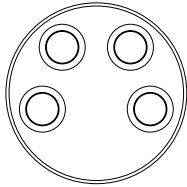
|   |              |   |  |
|---|--------------|---|--|
|  |              |  |  |
| Type  | Contact Type | 3A/60V  | 3A/30V   |
| Without Strain Relief   | Screw-in     | 8P-03BFFB-SL7001  | 8P-04BFFB-SL7001   |



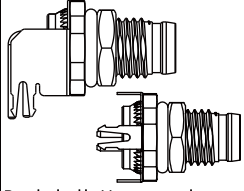




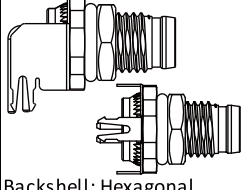

∟ M8 (SMT) > Receptacle > Male Connector

|   |              |   |   |
|---|--------------|---|---|
|  |              |  |  |
| Type  | Contact Type | 3A/60V  | 3A/60V  |
| Without Strain Relief   | SMT Type     | M8S-03PMMT-EE8001   | M8S-04PMMT-EE8001   |

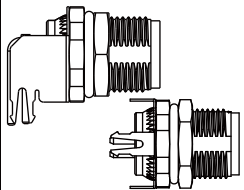




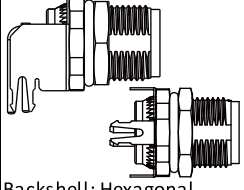

∟ M8 (SMT) > Receptacle > Female Connector

|   |              |   |   |
|---|--------------|---|---|
|  |              |  |  |
| Type  | Contact Type | 3A/60V  | 3A/60V  |
| Without Strain Relief   | SMT Type     | M8S-03PFFT-EE8001   | M8S-04PFFT-EE8001   |

∟ **Guided M8, G8 (Shielded) > Receptacle > Male Connector**

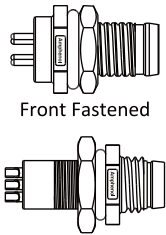
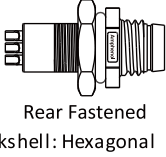




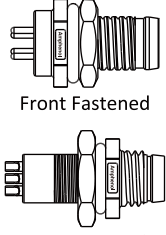
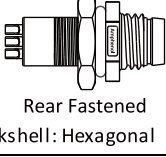


|  |   |   |   |   |          |
|--|---|---|---|---|----------|
| <br>Backshell: Hexagonal |  |  |  |  |          |
|  | Type  | 3A/60V  | 3A/60V  | 3A/30V  | 1.5A/30V |
| PCB Pin (180°)   | M8AS-02PMMP-SF8001  | M8AS-03PMMP-SF8001  | M8AS-04PMMP-SF8001  | M8AS-05PMMP-SF8001  |          |
| PCB Pin (90°)  | M8AS-02PMMR-SF8001  | M8AS-03PMMR-SF8001  | M8AS-04PMMR-SF8001  | M8AS-05PMMR-SF8001  |          |
| <br>Backshell: Hexagonal |  |   |   |   |          |
|  |   | Type  | 1.5A/30V  |   |          |
|  |   | PCB Pin (180°)  | M8AS-06PMMP-SF8001  |   |          |
|  |   | PCB Pin (90°)   | M8AS-06PMMR-SF8001  |   |          |

∟ **Guided M8, G8 (Shielded) > Receptacle > Female Connector**

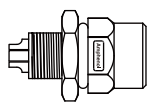



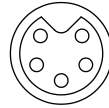
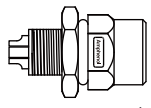
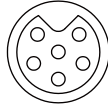

|  |   |   |   |   |          |
|--|---|---|---|---|----------|
| <br>Backshell: Hexagonal |  |  |  |  |          |
|  | Type  | 3A/60V  | 3A/60V  | 3A/30V  | 1.5A/30V |
| PCB Pin (180°)   | M8AS-02PFFP-SF8001  | M8AS-03PFFP-SF8001  | M8AS-04PFFP-SF8001  | M8AS-05PFFP-SF8001  |          |
| PCB Pin (90°)  | M8AS-02PFFR-SF8001  | M8AS-03PFFR-SF8001  | M8AS-04PFFR-SF8001  | M8AS-05PFFR-SF8001  |          |
| <br>Backshell: Hexagonal |  |   |   |   |          |
|  |   | Type  | 1.5A/30V  |   |          |
|  |   | PCB Pin (180°)  | M8AS-06PFFP-SF8001  |   |          |
|  |   | PCB Pin (90°)   | M8AS-06PFFR-SF8001  |   |          |

[ Note ] Design and specification are subject to change without notice.

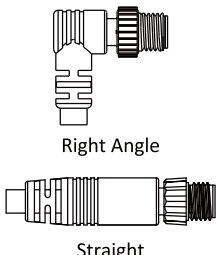


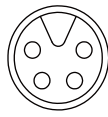

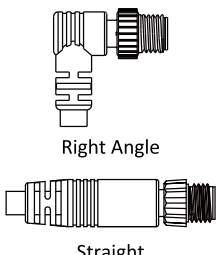


└ Guided M8, G8 (Metal Nut) > Receptacle > Male Connector

|   |   |   |   |   |
|---|---|---|---|---|
|  <p>Front Fastened</p>  <p>Rear Fastened</p> <p>Backshell: Hexagonal</p>  |  |  |  |  |
| Type  | 3A/60V  | 3A/60V  | 3A/30V  | 1.5A/30V  |
| PCB Pin (180°)  | 8A-02PMMP-SF7001  | 8A-03PMMP-SF7001  | 8A-04PMMP-SF7001  | 8A-05PMMP-SF7001  |
| Solder Pin  | 8A-02PMMS-S <sup>8</sup> 7001   | 8A-03PMMS-S <sup>8</sup> 7001   | 8A-04PMMS-S <sup>8</sup> 7001   | 8A-05PMMS-S <sup>8</sup> 7001   |
|  <p>Front Fastened</p>  <p>Rear Fastened</p> <p>Backshell: Hexagonal</p> |  |  | <p><sup>8</sup> Front Fastened (F) or Rear Fastened (H)</p>                       |   |
| Type  | 1.5A/30V  | 3A+1.5A/30V   |   |   |
| PCB Pin (180°)  | 8A-06PMMP-SF7001  | 8H-05PMMP-SF7001  |   |   |
| Solder Pin  | 8A-06PMMS-S <sup>8</sup> 7001   | 8H-05PMMS-S <sup>8</sup> 7001   |   |   |

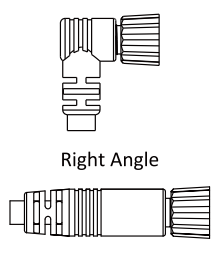




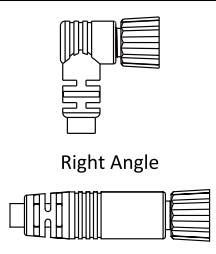


└ Guided M8, G8 (Metal Nut) > Receptacle > Female Connector

|  |   |   |   |   |
|--|---|---|---|---|
|  <p>Rear Fastened</p> <p>Backshell: Hexagonal</p> |  |  |  |  |
| Type   | 3A/60V  | 3A/60V  | 3A/30V  | 1.5A/30V  |
| Solder Pin   | 8A-02PFFS-SH7001  | 8A-03PFFS-SH7001  | 8A-04PFFS-SH7001  | 8A-05PFFS-SH7001  |
|  <p>Rear Fastened</p> <p>Backshell: Hexagonal</p> |  |  |   |   |
| Type   | 1.5A/30V  | 3A+1.5A/30V   |   |   |
| Solder Pin   | 8A-06PFFS-SH7001  | 8H-05PFFS-SH7001  |   |   |

∟ Guided M8, G8 (Metal Nut) > Overmolded with Cable > Male Connector

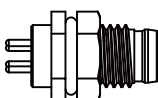



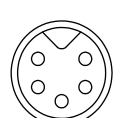
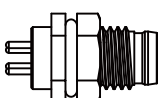


|  |   |   |  |   |
|--|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p> |  |                |    |  |
| Type   | 3A/60V  | 3A/60V  | 3A/30V   | 1.5A/30V  |
| With Strain Relief   | 8A-02AMMM-S 8 7XXX*   | 8A-03AMMM-S 8 7XXX*   | 8A-04AMMM-S 8 7XXX*  | 8A-05AMMM-S 8 7XXX*   |
|  <p>Right Angle</p> <p>Straight</p> |  |  <p>Hybrid</p> | <p><b>8</b> Right Angle (R) or Straight (L)</p> <p>* XXX: Choose the cable type and length:</p> <p>- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)</p> <p>- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)</p> |   |
| Type   | 1.5A/30V  | 3A+1.5A/30V   |  |   |
| With Strain Relief   | 8A-06AMMM-S 8 7XXX*   | 8H-05AMMM-S 8 7XXX*   |  |   |

∟ Guided M8 (G8 / Metal Nut) > Overmolded with Cable > Female Connector

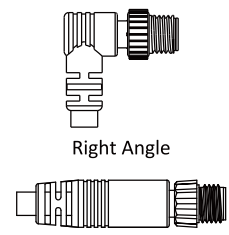




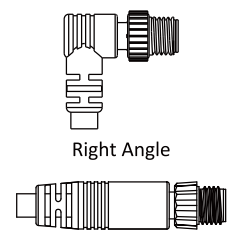


|  |   |   |  |   |
|--|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p> |  |                |    |  |
| Type   | 3A/60V  | 3A/60V  | 3A/30V   | 1.5A/30V  |
| With Strain Relief   | 8A-02AFFM-S 8 7XXX*   | 8A-03AFFM-S 8 7XXX*   | 8A-04AFFM-S 8 7XXX*  | 8A-05AFFM-S 8 7XXX*   |
|  <p>Right Angle</p> <p>Straight</p> |  |  <p>Hybrid</p> | <p><b>8</b> Right Angle (R) or Straight (L)</p> <p>* XXX: Choose the cable type and length:</p> <p>- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)</p> <p>- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)</p> |   |
| Type   | 1.5A/30V  | 3A+1.5A/30V   |  |   |
| With Strain Relief   | 8A-06AFFM-S 8 7XXX*   | 8H-05AFFM-S 8 7XXX*   |  |   |

[Note] Design and specification are subject to change without notice.

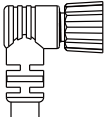
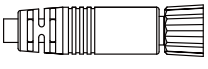
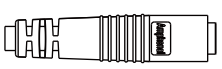



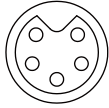
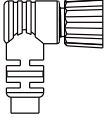

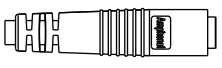
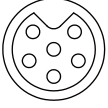

└ Guided M8, G8 (Plastic) > Receptacle > Male Connector

|   |   |   |   |   |
|---|---|---|---|---|
| <br>Front Fastened<br>Backshell: Hexagonal |  |  |  |  |
|   | Type  | 3A/60V  | 3A/60V  | 3A/30V  |
| PCB Pin (180°)  | 8AP-02PMMP-SF7001   | 8AP-03PMMP-SF7001   | 8AP-04PMMP-SF7001   | 8AP-05PMMP-SF7001   |
| Solder Pin  | 8AP-02PMMS-SF7001   | 8AP-03PMMS-SF7001   | 8AP-04PMMS-SF7001   | 8AP-05PMMS-SF7001   |
| <br>Front Fastened<br>Backshell: Hexagonal |  |  |   |   |
|   | Type  | 1.5A/30V  | 3A+1.5A/30V   |   |
| PCB Pin (180°)  | 8AP-06PMMP-SF7001   | 8HP-05PMMP-SF7001   |   |   |
| Solder Pin  | 8AP-06PMMS-SF7001   | 8HP-05PMMS-SF7001   |   |   |

└ Guided M8, G8 (Plastic) > Overmolded with Cable > Male Connector

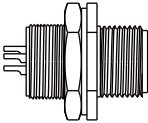
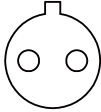
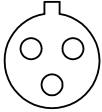
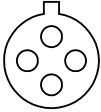
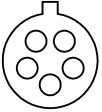
|  |   |   |  |   |
|--|---|---|--|---|
| <br>Right Angle<br>Straight |  |  |   |  |
|  | Type  | 3A/60V  | 3A/60V   | 3A/30V  |
| With Strain Relief   | 8AP-02AMMM-S 87XXX*   | 8AP-03AMMM-S 87XXX*   | 8AP-04AMMM-S 87XXX*  | 8AP-05AMMM-S 87XXX*   |
| <br>Right Angle<br>Straight |  |  | 8 Right Angle (R) or Straight (L)<br>* XXX: Choose the cable type and length:<br>- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)<br>- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10) |   |
|  | Type  | 1.5A/30V  |  |   |
| With Strain Relief   | 8AP-06AMMM-S 87XXX*   | 8HP-05AMMM-S 87XXX*   |  |   |

∟ Guided M8, G8 (Plastic) > Overmolded with Cable > Female Connector

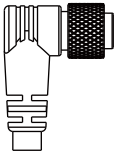
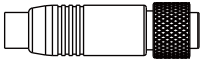




|   |  |  |  |   |
|---|--|--|--|---|
|  <p>Right Angle</p>  <p>Straight</p> <hr/>  <p>Snap-In</p>     |   |                 |   |  |
| <p>Type</p>   | <p>3A/60V</p>  | <p>3A/60V</p>  | <p>3A/30V</p>  | <p>1.5A/30V</p>   |
| <p>With Strain Relief</p>   | <p>8AP-02AFFM-S 8 7XXX*</p> <p>8AP-02AFFM-SL5XXX*</p>                              | <p>8AP-03AFFM-S 8 7XXX*</p> <p>8AP-03AFFM-SL5XXX*</p>  | <p>8AP-04AFFM-S 8 7XXX*</p> <p>8AP-04AFFM-SL5XXX*</p>  | <p>8AP-05AFFM-S 8 7XXX*</p> <p>8AP-05AFFM-SL5XXX*</p>                               |
|  <p>Right Angle</p>  <p>Straight</p> <hr/>  <p>Snap-In</p> |  |  <p>Hybrid</p> | <p>8 Right Angle (R) or Straight (L)</p> <p>* XXX: Choose the cable type and length:</p> <ul style="list-style-type: none"> <li>- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)</li> <li>- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)</li> </ul> |   |
| <p>Type</p>   | <p>1.5A/30V</p>  | <p>3A+1.5A/30V</p>   |  |   |
| <p>With Strain Relief</p>   | <p>8AP-06AFFM-S 8 7XXX*</p> <p>8AP-06AFFM-SL5XXX*</p>                              | <p>8HP-05AFFM-S 8 7XXX*</p> <p>8HP-05AFFM-SL5XXX*</p>  |  |   |

[Note] Design and specification are subject to change without notice.

∟ M10.5 (Metal) > Receptacle > Male Connector

|   |   |   |   |   |
|---|---|---|---|---|
| <br>Rear Fastened<br>Backshell: Hexagonal<br>Backshell: Circular |  |  |  |  |
|   | Type  | 2A/30V  | 2A/30V  | 2A/30V  |
| Backshell: Hexagonal<br>Solder Pin (180°)   | 105-02PMFS-SH7001   | 105-03PMFS-SH7001   | 105-04PMFS-SH7001   | 105-05PMFS-SH7001   |
| Backshell: Circular<br>Solder Pin (180°)  | 105-02PMFS-SC7001   | 105-03PMFS-SC7001   | 105-04PMFS-SC7001   | 105-05PMFS-SC7001   |

∟ M10.5 (Metal) > Overmolded with Cable > Male Connector

|   |  |  |  |  |
|---|--|--|--|--|
| <br>Right Angle<br><br><br>Straight |  |  |  |  |
|   | Type   | 2A/30V   | 2A/30V   | 2A/30V   |
| With Strain Relief  | 105-02AFMM-S 8 7A <sup>XXX</sup> *   | 105-03AFMM-S 8 7A <sup>XXX</sup> *   | 105-04AFMM-S 8 7A <sup>XXX</sup> *   | 105-05AFMM-S 8 7A <sup>XXX</sup> *   |
| Without Strain Relief   | 105-02BFMM-S 8 7A <sup>XXX</sup> *   | 105-03BFMM-S 8 7A <sup>XXX</sup> *   | 105-04BFMM-S 8 7A <sup>XXX</sup> *   | 105-05BFMM-S 8 7A <sup>XXX</sup> *   |

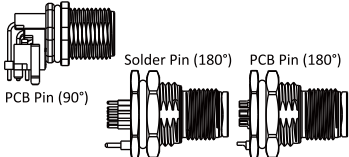
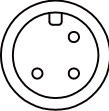
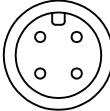
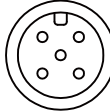
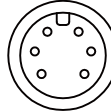
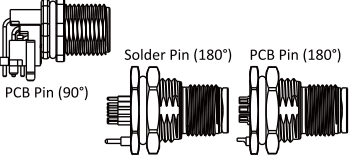
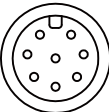
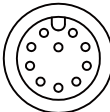
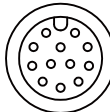
8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

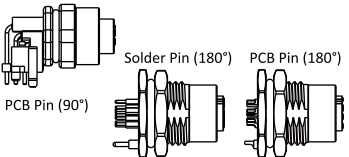
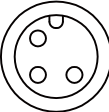
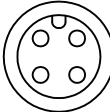
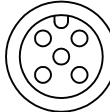
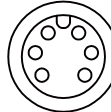
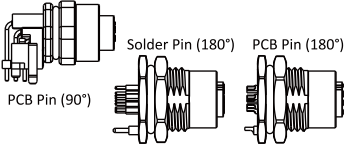

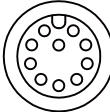
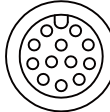
- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

∟ M12 A-Coded (Shielded) > Receptacle > Male Connector

|  |                 |  |  |  |  |
|--|-----------------|---|---|--|---|
| Type   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| PCB Pin (180°)   | PG9             | MSAS-03PMMP-SF8001  | MSAS-04PMMP-SF8001  | MSAS-05PMMP-SF8001   | MSAS-06PMMP-SF8001  |
|  | M16.0           | MSAS-03PMMP-SF8002  | MSAS-04PMMP-SF8002  | MSAS-05PMMP-SF8002   | MSAS-06PMMP-SF8002  |
| PCB Pin (90°)  | M12             | MSAS-03PMMR-SF7003  | MSAS-04PMMR-SF7003  | MSAS-05PMMR-SF7003   | -   |
| Solder Pin (180°)  | PG9             | MSAS-03PMMS-SF8001  | MSAS-04PMMS-SF8001  | MSAS-05PMMS-SF8001   | MSAS-06PMMS-SF8001  |
|  | M16.0           | MSAS-03PMMS-SF8002  | MSAS-04PMMS-SF8002  | MSAS-05PMMS-SF8002   | MSAS-06PMMS-SF8002  |
|  |                 |  |  |  |   |
| Type   | Mounting Thread | 2A / 30V  | 1.5A / 30V  | 1.5A / 30V   |   |
| PCB Pin (180°)   | PG9             | MSAS-08PMMP-SF8001  | MSAS-10PMMP-SF8001  | MSAS-12PMMP-SF8001   |   |
|  | M16.0           | MSAS-08PMMP-SF8002  | MSAS-10PMMP-SF8002  | MSAS-12PMMP-SF8002   |   |
| PCB Pin (90°)  | M12             | MSAS-08PMMR-SF7003  | -   | -  |   |
| Solder Pin (180°)  | PG9             | MSAS-08PMMS-SF8001  | MSAS-10PMMS-SF8001  | MSAS-12PMMS-SF8001   |   |
|  | M16.0           | MSAS-08PMMS-SF8002  | MSAS-10PMMS-SF8002  | MSAS-12PMMS-SF8002   |   |

∟ M12 A-Coded (Shielded) > Receptacle > Female Connector

|  |                 |  |  |  |  |
|--|-----------------|---|---|--|---|
| Type   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| PCB Pin (180°)   | PG9             | MSAS-03PFFP-SF8001  | MSAS-04PFFP-SF8001  | MSAS-05PFFP-SF8001   | MSAS-06PFFP-SF8001  |
|  | M16.0           | MSAS-03PFFP-SF8002  | MSAS-04PFFP-SF8002  | MSAS-05PFFP-SF8002   | MSAS-06PFFP-SF8002  |
| PCB Pin (90°)  | M12             | MSAS-03PFFR-SF7003  | MSAS-04PFFR-SF7003  | MSAS-05PFFR-SF7003   | -   |
| Solder Pin (180°)  | PG9             | MSAS-03PFFS-SF8001  | MSAS-04PFFS-SF8001  | MSAS-05PFFS-SF8001   | MSAS-06PFFS-SF8001  |
|  | M16.0           | MSAS-03PFFS-SF8002  | MSAS-04PFFS-SF8002  | MSAS-05PFFS-SF8002   | MSAS-06PFFS-SF8002  |
|  |                 |  |  |  |   |
| Type   | Mounting Thread | 2A / 30V  | 1.5A / 30V  | 1.5A / 30V   |   |
| PCB Pin (180°)   | PG9             | MSAS-08PFFP-SF8001  | MSAS-10PFFP-SF8001  | MSAS-12PFFP-SF8001   |   |
|  | M16.0           | MSAS-08PFFP-SF8002  | MSAS-10PFFP-SF8002  | MSAS-12PFFP-SF8002   |   |
| PCB Pin (90°)  | M12             | MSAS-08PFFR-SF7003  | -   | -  |   |
| Solder Pin (180°)  | PG9             | MSAS-08PFFS-SF8001  | MSAS-10PFFS-SF8001  | MSAS-12PFFS-SF8001   |   |
|  | M16.0           | MSAS-08PFFS-SF8002  | MSAS-10PFFS-SF8002  | MSAS-12PFFS-SF8002   |   |

[ Note ] Design and specification are subject to change without notice.



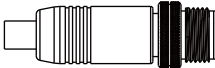
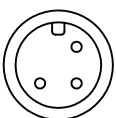
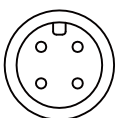
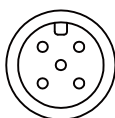
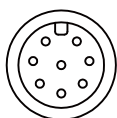
**M12 A-Coded (Shielded)**

Overmolded with Cable > Male / Female Connector

**IP 65 . 67 . 68**


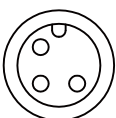
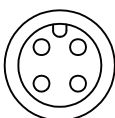
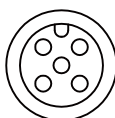
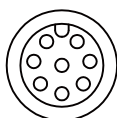
Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

∨ **M12 A-Coded (Shielded) > Overmolded with Cable > Male Connector**

|   |   |   |  |   |
|---|---|---|--|---|
| <br>Straight |  |  |  |  |
| Type  | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| Without Strain Relief   | MSAS-03BMMM-SL7XXX*   | MSAS-04BMMM-SL7XXX*   | MSAS-05BMMM-SL7XXX*  | MSAS-08BMMM-SL7XXX*   |

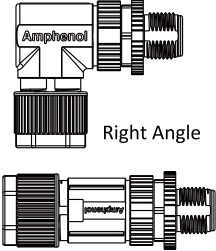
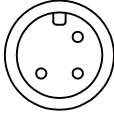
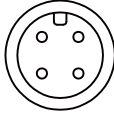
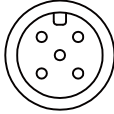
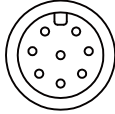
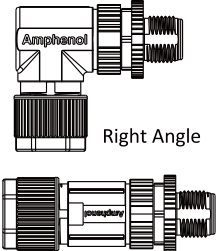
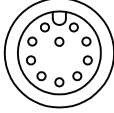
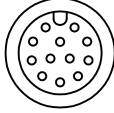
\* XXX: Choose the cable type and length:  
- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)  
- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

∨ **M12 A-Coded (Shielded) > Overmolded with Cable > Female Connector**

|   |   |   |  |   |
|---|---|---|--|---|
| <br>Straight |  |  |  |  |
| Type  | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| Without Strain Relief   | MSAS-03BFFM-SL7XXX*   | MSAS-04BFFM-SL7XXX*   | MSAS-05BFFM-SL7XXX*  | MSAS-08BFFM-SL7XXX*   |

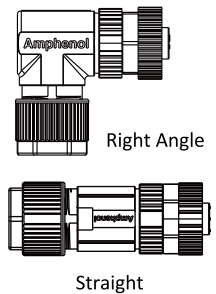
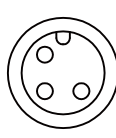
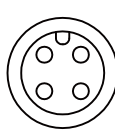
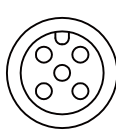
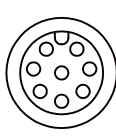
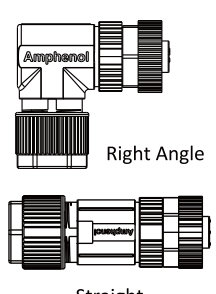
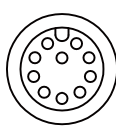
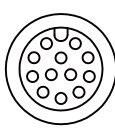
\* XXX: Choose the cable type and length:  
- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)  
- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

∨ M12 A-Coded (Shielded) > Field Installable > Male Connector

|   |              |   |   |  |   |
|---|--------------|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p>  |              |  |  |  |  |
| Type  | Contact Type | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| Without Strain Relief   | Screw Type   | MSAS-03BMMB-S <sup>8</sup> 7001   | MSAS-04BMMB-S <sup>8</sup> 7001   | MSAS-05BMMB-S <sup>8</sup> 7001  | MSAS-08BMMB-S <sup>8</sup> 7001   |
|   |              | <sup>8</sup> Right Angle (R) or Straight (L)                                      |   |  |   |
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |   |
| Type  | Contact Type | 1.5A / 30V  | 1.5A / 30V  |  |   |
| Without Strain Relief   | Screw Type   | MSAS-10BMMB-S <sup>8</sup> 7001   | MSAS-12BMMB-S <sup>8</sup> 7001   |  |   |

【Note】 Design and specification are subject to change without notice.

≧ M12 A-Coded (Shielded) > Field Installable > Female Connector

|   |              |   |   |  |   |
|---|--------------|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p>  |              |  |  |  |  |
| Type  | Contact Type | 4A/250V   | 4A/250V   | 4A/60V   | 2A/30V  |
| Without Strain Relief   | Screw Type   | MSAS-03BFFB-S 87001   | MSAS-04BFFB-S 87001   | MSAS-05BFFB-S 87001  | MSAS-08BFFB-S 87001   |
|  <p>Right Angle</p> <p>Straight</p> |              |  |  | <p>8 Right Angle (R) or Straight (L)</p>   |   |
| Type  | Contact Type | 1.5A/30V  | 1.5A/30V  |  |   |
| Without Strain Relief   | Screw Type   | MSAS-10BFFB-S 87001   | MSAS-12BFFB-S 87001   |  |   |

∟ M12 A-Coded (Metal Nut) > Receptacle > Male Connector

|                      |                                 |                                 |                                 |                                 |                                 |
|----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                      |                                 |                                 |                                 |                                 |                                 |
| Backshell: Hexagonal |                                 |                                 |                                 |                                 |                                 |
| Type                 | Mounting Thread                 | 4A/250V                         | 4A/250V                         | 4A/60V                          | 2A / 30V                        |
| PCB Pin (180°)       | PG9                             | M12A-03PMMP-SF8001              | M12A-04PMMP-SF8001              | M12A-05PMMP-SF8001              | M12A-06PMMP-SF8001              |
|                      | M16.0                           | M12A-03PMMP-SF8002              | M12A-04PMMP-SF8002              | M12A-05PMMP-SF8002              | M12A-06PMMP-SF8002              |
| PCB Pin (90°)        | M12                             | M12A-03PMMR-SF7003              | M12A-04PMMR-SF7003              | M12A-05PMMR-SF7003              | -                               |
|                      | PG9                             | M12A-03PMMR-SF8001              | M12A-04PMMR-SF8001              | M12A-05PMMR-SF8001              | -                               |
| Solder Pin (180°)    | M16.0                           | M12A-03PMMR-SF8002              | M12A-04PMMR-SF8002              | M12A-05PMMR-SF8002              | -                               |
|                      | PG9                             | M12A-03PMMS-S <sup>Ⓢ</sup> 8001 | M12A-04PMMS-S <sup>Ⓢ</sup> 8001 | M12A-05PMMS-S <sup>Ⓢ</sup> 8001 | M12A-06PMMS-S <sup>Ⓢ</sup> 8001 |
| M16.0                | M12A-03PMMS-S <sup>Ⓢ</sup> 8002 | M12A-04PMMS-S <sup>Ⓢ</sup> 8002 | M12A-05PMMS-S <sup>Ⓢ</sup> 8002 | M12A-06PMMS-S <sup>Ⓢ</sup> 8002 |                                 |
|                      |                                 |                                 |                                 |                                 |                                 |
| Backshell: Hexagonal |                                 |                                 |                                 |                                 |                                 |
| Type                 | Mounting Thread                 | 2A / 30V                        | 1.5A / 30V                      | 1.5A / 30V                      |                                 |
| PCB Pin (180°)       | PG9                             | M12A-08PMMP-SF8001              | M12A-10PMMP-SF8001              | M12A-12PMMP-SF8001              |                                 |
|                      | M16.0                           | M12A-08PMMP-SF8002              | M12A-10PMMP-SF8002              | M12A-12PMMP-SF8002              |                                 |
| PCB Pin (90°)        | M12                             | M12A-08PMMR-SF7003              | -                               | -                               |                                 |
|                      | PG9                             | -                               | -                               | -                               |                                 |
| Solder Pin (180°)    | M16.0                           | -                               | -                               | -                               |                                 |
|                      | PG9                             | M12A-08PMMS-S <sup>Ⓢ</sup> 8001 | M12A-10PMMS-S <sup>Ⓢ</sup> 8001 | M12A-12PMMS-S <sup>Ⓢ</sup> 8001 |                                 |
| M16.0                | M12A-08PMMS-S <sup>Ⓢ</sup> 8002 | M12A-10PMMS-S <sup>Ⓢ</sup> 8002 | M12A-12PMMS-S <sup>Ⓢ</sup> 8002 |                                 |                                 |

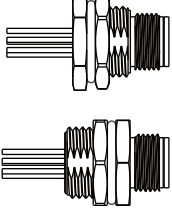
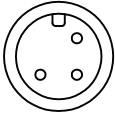
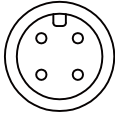
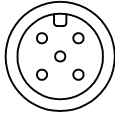
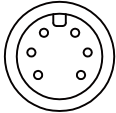
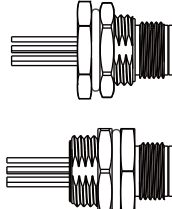
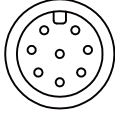
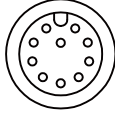
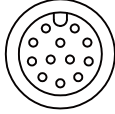
<sup>Ⓢ</sup> Front Fastened (F) or Rear Fastened (H)

∟ M12 A-Coded (Metal Nut) > Receptacle > Female Connector

|                   |                 |                                 |                                 |                                 |                                 |
|-------------------|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                   |                 |                                 |                                 |                                 |                                 |
| Type              | Mounting Thread | 4A/250V                         | 4A/250V                         | 4A/60V                          | 2A / 30V                        |
| PCB Pin (180°)    | PG9             | M12A-03PFFP-SF8001              | M12A-04PFFP-SF8001              | M12A-05PFFP-SF8001              | M12A-06PFFP-SF8001              |
|                   | M16.0           | M12A-03PFFP-SF8002              | M12A-04PFFP-SF8002              | M12A-05PFFP-SF8002              | M12A-06PFFP-SF8002              |
| PCB Pin (90°)     | M12             | M12A-03PFFR-SF7003              | M12A-04PFFR-SF7003              | M12A-05PFFR-SF7003              | -                               |
|                   | PG9             | M12A-03PFFR-SF8001              | M12A-04PFFR-SF8001              | M12A-05PFFR-SF8001              | -                               |
| Solder Pin (180°) | M16.0           | M12A-03PFFR-SF8002              | M12A-04PFFR-SF8002              | M12A-05PFFR-SF8002              | -                               |
|                   | PG9             | M12A-03PFFS-S <sup>Ⓢ</sup> 8001 | M12A-04PFFS-S <sup>Ⓢ</sup> 8001 | M12A-05PFFS-S <sup>Ⓢ</sup> 8001 | M12A-06PFFS-S <sup>Ⓢ</sup> 8001 |
| Solder Pin (180°) | M16.0           | M12A-03PFFS-S <sup>Ⓢ</sup> 8002 | M12A-04PFFS-S <sup>Ⓢ</sup> 8002 | M12A-05PFFS-S <sup>Ⓢ</sup> 8002 | M12A-06PFFS-S <sup>Ⓢ</sup> 8002 |
|                   |                 |                                 |                                 |                                 |                                 |
| Type              | Mounting Thread | 2A / 30V                        | 1.5A / 30V                      | 1.5A / 30V                      |                                 |
| PCB Pin (180°)    | PG9             | M12A-08PFFP-SF8001              | M12A-10PFFP-SF8001              | M12A-12PFFP-SF8001              |                                 |
|                   | M16.0           | M12A-08PFFP-SF8002              | M12A-10PFFP-SF8002              | M12A-12PFFP-SF8002              |                                 |
| PCB Pin (90°)     | M12             | M12A-08PFFR-SF7003              | -                               | -                               |                                 |
|                   | PG9             | -                               | -                               | -                               |                                 |
| Solder Pin (180°) | M16.0           | -                               | -                               | -                               |                                 |
|                   | PG9             | M12A-08PFFS-S <sup>Ⓢ</sup> 8001 | M12A-10PFFS-S <sup>Ⓢ</sup> 8001 | M12A-12PFFS-S <sup>Ⓢ</sup> 8001 |                                 |
| Solder Pin (180°) | M16.0           | M12A-08PFFS-S <sup>Ⓢ</sup> 8002 | M12A-10PFFS-S <sup>Ⓢ</sup> 8002 | M12A-12PFFS-S <sup>Ⓢ</sup> 8002 |                                 |

<sup>Ⓢ</sup> Front Fastened (F) or Rear Fastened (H)

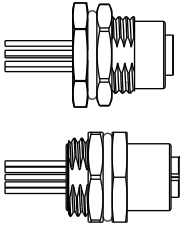
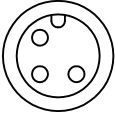
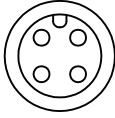

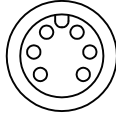
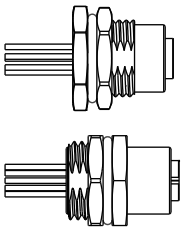
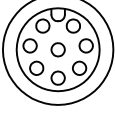
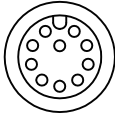
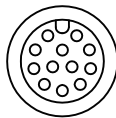
▾ M12 A-Coded (Metal Nut) > Receptacle with Wire Harness > Male Connector

|   |                 |    |    |    |  |
|--|-----------------|---|---|--|---|
| Backshell: Hexagonal   |                 |   |   |  |   |
| Wire Length (UL 1007)*   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| 150mm  | PG9             | M12A-03PMMC-S <sup>Ⓢ</sup> 8B15   | M12A-04PMMC-S <sup>Ⓢ</sup> 8B15   | M12A-05PMMC-S <sup>Ⓢ</sup> 8B15  | M12A-06PMMS-S <sup>Ⓢ</sup> 8B15   |
|  | M16.0           | M12A-03PMMC-S <sup>Ⓢ</sup> 8C15   | M12A-04PMMC-S <sup>Ⓢ</sup> 8C15   | M12A-05PMMC-S <sup>Ⓢ</sup> 8C15  | M12A-06PMMS-S <sup>Ⓢ</sup> 8C15   |
| 300mm  | PG9             | M12A-03PMMC-S <sup>Ⓢ</sup> 8B30   | M12A-04PMMC-S <sup>Ⓢ</sup> 8B30   | M12A-05PMMC-S <sup>Ⓢ</sup> 8B30  | M12A-06PMMS-S <sup>Ⓢ</sup> 8B30   |
|  | M16.0           | M12A-03PMMC-S <sup>Ⓢ</sup> 8C30   | M12A-04PMMC-S <sup>Ⓢ</sup> 8C30   | M12A-05PMMC-S <sup>Ⓢ</sup> 8C30  | M12A-06PMMS-S <sup>Ⓢ</sup> 8C30   |
| 500mm  | PG9             | M12A-03PMMC-S <sup>Ⓢ</sup> 8B50   | M12A-04PMMC-S <sup>Ⓢ</sup> 8B50   | M12A-05PMMC-S <sup>Ⓢ</sup> 8B50  | M12A-06PMMS-S <sup>Ⓢ</sup> 8B50   |
|  | M16.0           | M12A-03PMMC-S <sup>Ⓢ</sup> 8C50   | M12A-04PMMC-S <sup>Ⓢ</sup> 8C50   | M12A-05PMMC-S <sup>Ⓢ</sup> 8C50  | M12A-06PMMS-S <sup>Ⓢ</sup> 8C50   |
| 1000mm   | PG9             | M12A-03PMMC-S <sup>Ⓢ</sup> 8BA0   | M12A-04PMMC-S <sup>Ⓢ</sup> 8BA0   | M12A-05PMMC-S <sup>Ⓢ</sup> 8BA0  | M12A-06PMMS-S <sup>Ⓢ</sup> 8BA0   |
|  | M16.0           | M12A-03PMMC-S <sup>Ⓢ</sup> 8CA0   | M12A-04PMMC-S <sup>Ⓢ</sup> 8CA0   | M12A-05PMMC-S <sup>Ⓢ</sup> 8CA0  | M12A-06PMMS-S <sup>Ⓢ</sup> 8CA0   |
| 1500mm   | PG9             | M12A-03PMMC-S <sup>Ⓢ</sup> 8BA5   | M12A-04PMMC-S <sup>Ⓢ</sup> 8BA5   | M12A-05PMMC-S <sup>Ⓢ</sup> 8BA5  | M12A-06PMMS-S <sup>Ⓢ</sup> 8BA5   |
|  | M16.0           | M12A-03PMMC-S <sup>Ⓢ</sup> 8CA5   | M12A-04PMMC-S <sup>Ⓢ</sup> 8CA5   | M12A-05PMMC-S <sup>Ⓢ</sup> 8CA5  | M12A-06PMMS-S <sup>Ⓢ</sup> 8CA5   |
|  |                 |  |  |  |   |
| Backshell: Hexagonal   |                 |   |   |  |   |
| Wire Length (UL 1007)*   | Mounting Thread | 2A / 30V  | 1.5A / 30V  | 1.5A / 30V   |   |
| 150mm  | PG9             | M12A-08PMMS-S <sup>Ⓢ</sup> 8B15   | M12A-10PMMS-S <sup>Ⓢ</sup> 8B15   | M12A-12PMMS-S <sup>Ⓢ</sup> 8B15  |   |
|  | M16.0           | M12A-08PMMS-S <sup>Ⓢ</sup> 8C15   | M12A-10PMMS-S <sup>Ⓢ</sup> 8C15   | M12A-12PMMS-S <sup>Ⓢ</sup> 8C15  |   |
| 300mm  | PG9             | M12A-08PMMS-S <sup>Ⓢ</sup> 8B30   | M12A-10PMMS-S <sup>Ⓢ</sup> 8B30   | M12A-12PMMS-S <sup>Ⓢ</sup> 8B30  |   |
|  | M16.0           | M12A-08PMMS-S <sup>Ⓢ</sup> 8C30   | M12A-10PMMS-S <sup>Ⓢ</sup> 8C30   | M12A-12PMMS-S <sup>Ⓢ</sup> 8C30  |   |
| 500mm  | PG9             | M12A-08PMMS-S <sup>Ⓢ</sup> 8B50   | M12A-10PMMS-S <sup>Ⓢ</sup> 8B50   | M12A-12PMMS-S <sup>Ⓢ</sup> 8B50  |   |
|  | M16.0           | M12A-08PMMS-S <sup>Ⓢ</sup> 8C50   | M12A-10PMMS-S <sup>Ⓢ</sup> 8C50   | M12A-12PMMS-S <sup>Ⓢ</sup> 8C50  |   |
| 1000mm   | PG9             | M12A-08PMMS-S <sup>Ⓢ</sup> 8BA0   | M12A-10PMMS-S <sup>Ⓢ</sup> 8BA0   | M12A-12PMMS-S <sup>Ⓢ</sup> 8BA0  |   |
|  | M16.0           | M12A-08PMMS-S <sup>Ⓢ</sup> 8CA0   | M12A-10PMMS-S <sup>Ⓢ</sup> 8CA0   | M12A-12PMMS-S <sup>Ⓢ</sup> 8CA0  |   |
| 1500mm   | PG9             | M12A-08PMMS-S <sup>Ⓢ</sup> 8BA5   | M12A-10PMMS-S <sup>Ⓢ</sup> 8BA5   | M12A-12PMMS-S <sup>Ⓢ</sup> 8BA5  |   |
|  | M16.0           | M12A-08PMMS-S <sup>Ⓢ</sup> 8CA5   | M12A-10PMMS-S <sup>Ⓢ</sup> 8CA5   | M12A-12PMMS-S <sup>Ⓢ</sup> 8CA5  |   |

Ⓢ Front Fastened (F) or Rear Fastened (H)

\* Other wire types are available upon request.

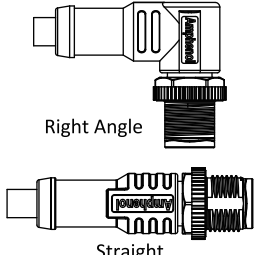
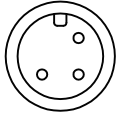
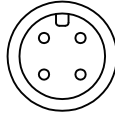
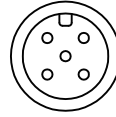
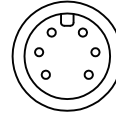
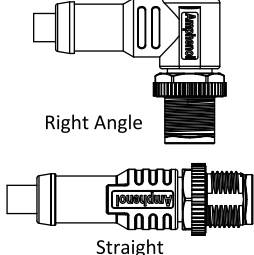
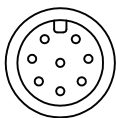
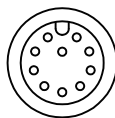
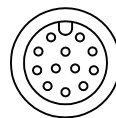
▾ M12 A-Coded (Metal Nut) > Receptacle with Wire Harness  
> Female Connector

|   |                 |    |    |    |  |
|--|-----------------|---|---|--|---|
| Backshell: Hexagonal   |                 |   |   |  |   |
| Wire Length (UL1007)*  | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| 150mm  | PG9             | M12A-03PFFC-S 88B15   | M12A-04PFFC-S 88B15   | M12A-05PFFC-S 88B15  | M12A-06PFFS-S 88B15   |
|  | M16.0           | M12A-03PFFC-S 88C15   | M12A-04PFFC-S 88C15   | M12A-05PFFC-S 88C15  | M12A-06PFFS-S 88C15   |
| 300mm  | PG9             | M12A-03PFFC-S 88B30   | M12A-04PFFC-S 88B30   | M12A-05PFFC-S 88B30  | M12A-06PFFS-S 88B30   |
|  | M16.0           | M12A-03PFFC-S 88C30   | M12A-04PFFC-S 88C30   | M12A-05PFFC-S 88C30  | M12A-06PFFS-S 88C30   |
| 500mm  | PG9             | M12A-03PFFC-S 88B50   | M12A-04PFFC-S 88B50   | M12A-05PFFC-S 88B50  | M12A-06PFFS-S 88B50   |
|  | M16.0           | M12A-03PFFC-S 88C50   | M12A-04PFFC-S 88C50   | M12A-05PFFC-S 88C50  | M12A-06PFFS-S 88C50   |
| 1000mm   | PG9             | M12A-03PFFC-S 88BA0   | M12A-04PFFC-S 88BA0   | M12A-05PFFC-S 88BA0  | M12A-06PFFS-S 88BA0   |
|  | M16.0           | M12A-03PFFC-S 88CA0   | M12A-04PFFC-S 88CA0   | M12A-05PFFC-S 88CA0  | M12A-06PFFS-S 88CA0   |
| 1500mm   | PG9             | M12A-03PFFC-S 88BA5   | M12A-04PFFC-S 88BA5   | M12A-05PFFC-S 88BA5  | M12A-06PFFS-S 88BA5   |
|  | M16.0           | M12A-03PFFC-S 88CA5   | M12A-04PFFC-S 88CA5   | M12A-05PFFC-S 88CA5  | M12A-06PFFS-S 88CA5   |
|  |                 |  |  |  |   |
| Backshell: Hexagonal   |                 |   |   |  |   |
| Wire Length (UL1007)*  | Mounting Thread | 2A / 30V  | 1.5A / 30V  | 1.5A / 30V   |   |
| 150mm  | PG9             | M12A-08PFFS-S 88B15   | M12A-10PFFS-S 88B15   | M12A-12PFFS-S 88B15  |   |
|  | M16.0           | M12A-08PFFS-S 88C15   | M12A-10PFFS-S 88C15   | M12A-12PFFS-S 88C15  |   |
| 300mm  | PG9             | M12A-08PFFS-S 88B30   | M12A-10PFFS-S 88B30   | M12A-12PFFS-S 88B30  |   |
|  | M16.0           | M12A-08PFFS-S 88C30   | M12A-10PFFS-S 88C30   | M12A-12PFFS-S 88C30  |   |
| 500mm  | PG9             | M12A-08PFFS-S 88B50   | M12A-10PFFS-S 88B50   | M12A-12PFFS-S 88B50  |   |
|  | M16.0           | M12A-08PFFS-S 88C50   | M12A-10PFFS-S 88C50   | M12A-12PFFS-S 88C50  |   |
| 1000mm   | PG9             | M12A-08PFFS-S 88BA0   | M12A-10PFFS-S 88BA0   | M12A-12PFFS-S 88BA0  |   |
|  | M16.0           | M12A-08PFFS-S 88CA0   | M12A-10PFFS-S 88CA0   | M12A-12PFFS-S 88CA0  |   |
| 1500mm   | PG9             | M12A-08PFFS-S 88BA5   | M12A-10PFFS-S 88BA5   | M12A-12PFFS-S 88BA5  |   |
|  | M16.0           | M12A-08PFFS-S 88CA5   | M12A-10PFFS-S 88CA5   | M12A-12PFFS-S 88CA5  |   |

8 Front Fastened (F) or Rear Fastened (H)

[Note] Design and specification are subject to change without notice.

∟ M12 A-Coded (Metal Nut) > Overmolded with Cable > Male Connector

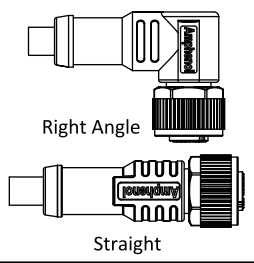
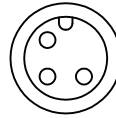
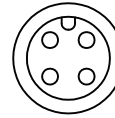
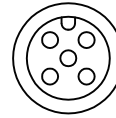
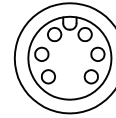
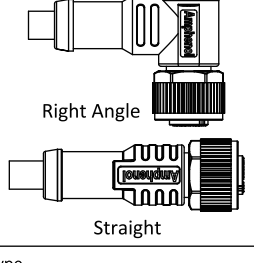



|  |   |   |  |   |
|--|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |  |
|  | Type  | 4A/250V   | 4A/250V  | 4A/60V  |
| Without Strain Relief  | M12A-03BMMM-S 8 XXX*  | M12A-04BMMM-S 8 XXX*  | M12A-05BMMM-S 8 XXX*   | M12A-06BMMM-S 8 XXX*  |
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |   |
|  | Type  | 4A/250V   | 4A/250V  | 4A/60V  |
| Without Strain Relief  | M12A-08BMMM-S 8 XXX*  | M12A-10BMMM-S 8 XXX*  | M12A-12BMMM-S 8 XXX*   |   |

8 Straight (L) or Right Angle (R)

\* XXX: Choose the cable type and length:

- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

∟ M12 A-Coded (Metal Nut) > Overmolded with Cable > Female Connector

|  |   |   |  |   |
|--|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |  |
|  | Type  | 4A/250V   | 4A/250V  | 4A/60V  |
| Without Strain Relief  | M12A-03BFFM-S 8 XXX*  | M12A-04BFFM-S 8 XXX*  | M12A-05BFFM-S 8 XXX*   | M12A-06BFFM-S 8 XXX*  |
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |   |
|  | Type  | 4A/250V   | 4A/250V  | 4A/60V  |
| Without Strain Relief  | M12A-08BFFM-S 8 XXX*  | M12A-10BFFM-S 8 XXX*  | M12A-12BFFM-S 8 XXX*   |   |

8 Straight (L) or Right Angle (R)

\* XXX: Choose the cable type and length:

- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)



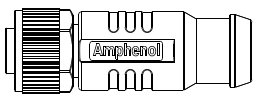
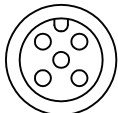
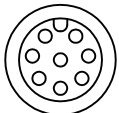
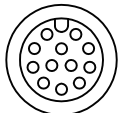
**M12 A-Coded (Metal Nut)**

Overmolded with Cable > Female Connector

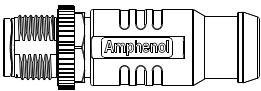
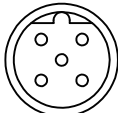
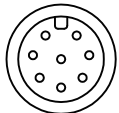
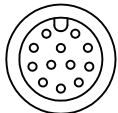
**IP 65 . 67 . 68**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

∟ **M12 A-Coded (Metal Nut) > Overmolded with Cable > Female Connector**

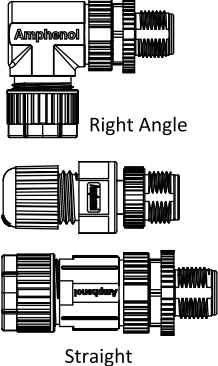
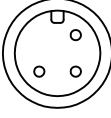
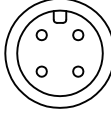
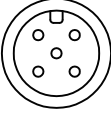
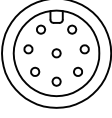
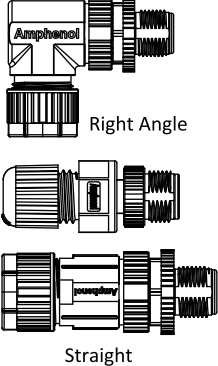
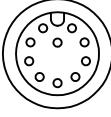
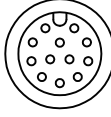
|   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| Type  | 4A/60V  | 2A / 30V  | 1.5A / 30V  |
| Without Strain Relief   | MSAS-05BFFM-SL8D01  | MSAS-08BFFM-SL8D01  | MSAS-12BFFM-SL8D01  |

∟ **M12 A-Coded (Metal Nut) > Overmolded with Cable > Male Connector**

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
| Type   | 4A/60V   | 2A / 30V   | 1.5A / 30V   |
| Without Strain Relief  | MSAS-05BMMM-SL8D01   | MSAS-08BMMM-SL8D01   | MSAS-12BMMM-SL8D01   |

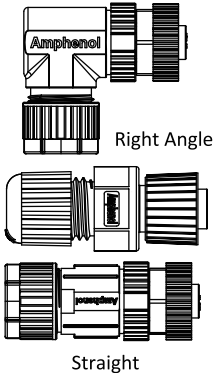
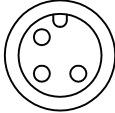
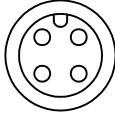
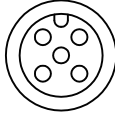

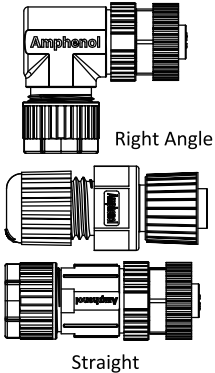
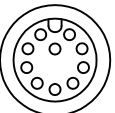
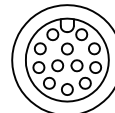
【Note】 Design and specification are subject to change without notice.

∨ M12 A-Coded (Metal Nut) > Field Installable > Male Connector

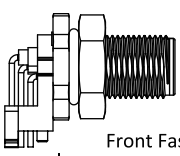
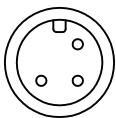
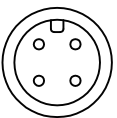
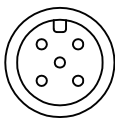
|   |              |   |   |  |   |
|---|--------------|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p>  |              |    |    |  |  |
| Type  | Contact Type | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| Without Strain Relief   | Solder Type  | 12-03BMMA-SL8001  | 12-04BMMA-SL8001  | 12-05BMMA-SL8001   | 12-08BMMA-SL8001  |
|   | Screw Type   | M12A-03BMMB-S ⑧ 7001  | M12A-04BMMB-S ⑧ 7001  | M12A-05BMMB-S ⑧ 7001   | M12A-08BMMB-S ⑧ 7001  |
|  <p>Right Angle</p> <p>Straight</p> |              |  |  | ⑧ Straight (L) or Right Angle (R)  |   |
| Type  | Contact Type | 1.5A / 30V  | 1.5A / 30V  |  |   |
| Without Strain Relief   | Solder Type  | M12A-10BMMA-S ⑧ 7001  | M12A-12BMMA-S ⑧ 7001  |  |   |
|   | Screw Type   | -   | -   |  |   |

【Note】 Design and specification are subject to change without notice.

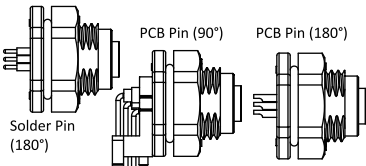
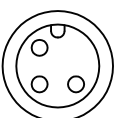
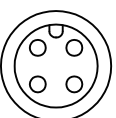
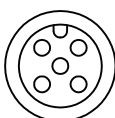
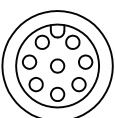
↳ M12 A-Coded (Metal Nut) > Field Installable > Female Connector

|   |              |   |   |  |   |
|---|--------------|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p>  |              |    |    |  |  |
| Type  | Contact Type | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| Without Strain Relief   | Solder Type  | 12-03BFFA-SL8001  | 12-04BFFA-SL8001  | 12-05BFFA-SL8001   | 12-08BFFA-SL8001  |
|   | Screw Type   | M12A-03BFFB-S ⑧ 7001  | M12A-04BFFB-S ⑧ 7001  | M12A-05BFFB-S ⑧ 7001   | M12A-08BFFB-S ⑧ 7001  |
|  <p>Right Angle</p> <p>Straight</p> |              |  |  | ⑧ Straight (L) or Right Angle (R)  |   |
| Type  | Contact Type | 1.5A / 30V  | 1.5A / 30V  |  |   |
| Without Strain Relief   | Solder Type  | M12A-10BFFA-S ⑧ 7001  | M12A-12BFFA-S ⑧ 7001  |  |   |
|   | Screw Type   | -   | -   |  |   |

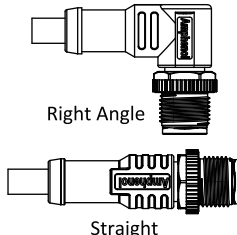
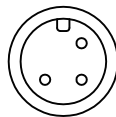
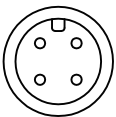
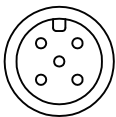
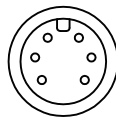
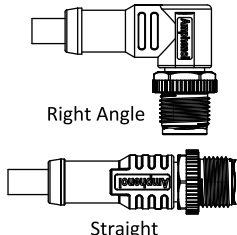
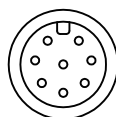
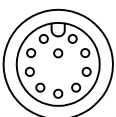
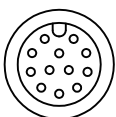
➤ M12 A-Coded (Plastic) > Receptacle > Male Connector > Front Fastened

|  |                 |   |   |  |
|--|-----------------|---|---|--|
|  <p>Backshell: Hexagonal<br/>Front Fastened</p> |                 |  |  |  |
| Type   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V   |
| Solder Pin (90°)   | M12             | MSAP-03PMMR-SF8003  | MSAP-04PMMR-SF8003  | MSAP-05PMMR-SF8003   |

➤ M12 A-Coded (Plastic) > Receptacle > Female Connector

|  |                 |   |   |  |   |
|--|-----------------|---|---|--|---|
|  <p>Backshell: Hexagonal<br/>Front Fastened</p> |                 |  |  |  |  |
| Type   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V   | 2A / 30V  |
| PCB Pin (180°)   | M16.0           | MSAP-03PFFP-SF8002  | MSAP-04PFFP-SF8002  | MSAP-05PFFP-SF8002   | MSAP-08PFFP-SF8002  |
| PCB Pin (90°)  | M16.0           | MSAP-03PFFR-SF8002  | MSAP-04PFFR-SF8002  | MSAP-05PFFR-SF8002   | -   |
| Solder Pin (180°)  | M16.0           | MSAP-03PFFS-SF8002  | MSAP-04PFFS-SF8002  | MSAP-05PFFS-SF8002   | MSAP-08PFFS-SF8002  |

➤ M12 A-Coded (Plastic) > Overmolded with Cable > Male Connector

|   |  |   |   |  |   |
|---|--|---|---|--|---|
|  <p>Right Angle<br/>Straight</p> |  |  |  |  |  |
| Type  |  | 4A/250V   | 4A/250V   | 4A/60V   | 2A/30V  |
| Without Strain Relief   |  | MSAP-03BMMM-S 8XXX*   | MSAP-04BMMM-S 8XXX*   | MSAP-05BMMM-S 8XXX*  | MSAP-06BMMM-S 8XXX*   |
|  <p>Right Angle<br/>Straight</p> |  |  |  |  |   |
| Type  |  | 2A/30V  | 1.5A/30V  | 1.5A/30V   |   |
| Without Strain Relief   |  | MSAP-08BMMM-S 8XXX*   | MSAP-10BMMM-S 8XXX*   | MSAP-12BMMM-S 8XXX*  |   |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

[Note] Design and specification are subject to change without notice.

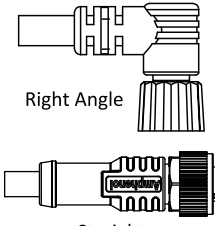
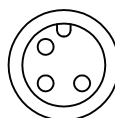
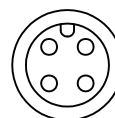
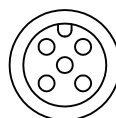
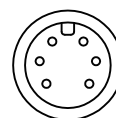
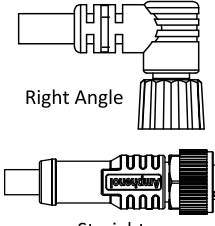
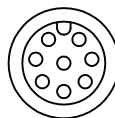
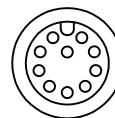
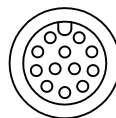
**M12 A-Coded (Plastic)**

Overmolded with Cable > Female Connector

**IP 65 . 67 . 68**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

↳ **M12 A-Coded (Plastic) > Overmolded with Cable > Female Connector**

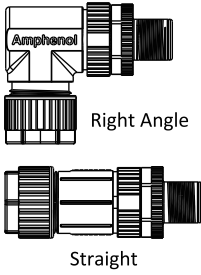
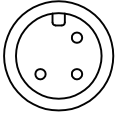
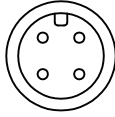
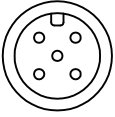
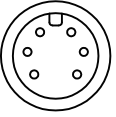
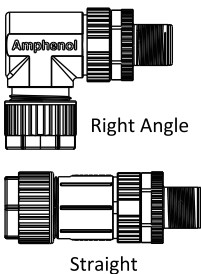
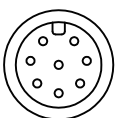
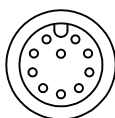
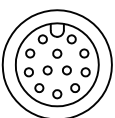
|  |   |   |  |   |
|--|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |  |
| Type   | 4A/250V   | 4A/250V   | 4A/60V   | 2A/30V  |
| Without Strain Relief  | MSAP-03BFFM-S 8XXX*   | MSAP-04BFFM-S 8XXX*   | MSAP-05BFFM-S 8XXX*  | MSAP-06BFFM-S 8XXX*   |
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |   |
| Type   | 2A/30V  | 1.5A/30V  | 1.5A/30V   |   |
| Without Strain Relief  | MSAP-08BFFM-S 8XXX*   | MSAP-10BFFM-S 8XXX*   | MSAP-12BFFM-S 8XXX*  |   |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

≧ M12 A-Coded (Plastic) > Field Installable > Male Connector

|   |              |   |   |  |   |
|---|--------------|---|---|--|---|
|  <p>Right Angle</p> <p>Straight</p>  |              |  |  |  |  |
| Type  | Contact Type | 4A/250V   | 4A/250V   | 4A/60V   | 2A/30V  |
| Without Strain Relief   | Solder Type  | 12P-03BMMA-SL8001   | 12P-04BMMA-SL8001   | 12P-05BMMA-SL8001  | —   |
|   | Screw Type   | MSAP-03BMMB-S 8 7001  | MSAP-04BMMB-S 8 7001  | MSAP-05BMMB-S 8 7001   | —   |
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |   |
| Type  | Contact Type | 2A/30V  | 1.5A/30V  | 1.5A/30V   |   |
| Without Strain Relief   | Solder Type  | 12P-08BMMA-SL8001   | MSAP-10BMMA-S 8 7001  | MSAP-12BMMA-S 8 7001   |   |
|   | Screw Type   | MSAP-08BMMA-S 8 8001  | —   | —  |   |

8 Right Angle (R) or Straight (L)

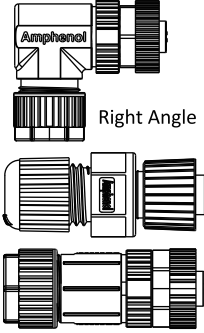
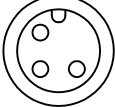
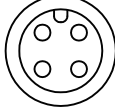

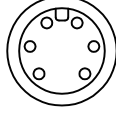
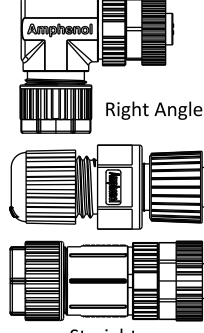
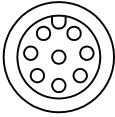
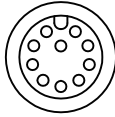
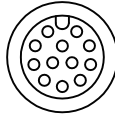
[ Note ] Design and specification are subject to change without notice.

# M Series Sensor Connector | Find Our Standard Products

## M12 A-Coded (Plastic)

Field Installable > Female Connector

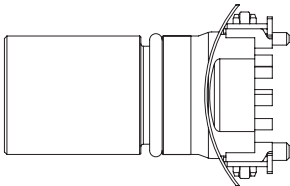
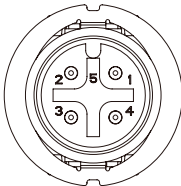
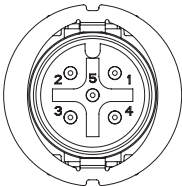
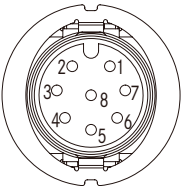
### ∟ M12 A-Coded (Plastic) > Field Installable > Female Connector

|   |              |  |  |   |   |
|---|--------------|--|--|---|---|
|  <p>Right Angle</p> <p>Straight</p>  |              |   |   |   |  |
| Type  | Contact Type | 4A/250V  | 4A/250V  | 4A/60V  | 2A/30V  |
| Without Strain Relief   | Solder Type  | 12P-03BFFA-SL8001  | 12P-04BFFA-SL8001  | 12P-05BFFA-SL8001   | -   |
|   | Screw Type   | MSAP-03BFFB-S <b>8</b> 7001  | MSAP-04BFFB-S <b>8</b> 7001  | MSAP-05BFFB-S <b>8</b> 7001   | -   |
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |   |
| Type  | Contact Type | 2A/30V   | 1.5A/30V   | 1.5A/30V  |   |
| Without Strain Relief   | Solder Type  | 12P-08BFFA-SL8001  | MSAP-10BFFA-S <b>8</b> 7001  | MSAP-12BFFA-S <b>8</b> 7001   |   |
|   | Screw Type   | MSAP-08BFFA-S <b>8</b> 8001  | -  | -   |   |

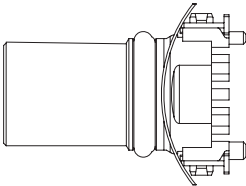
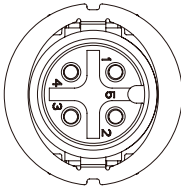
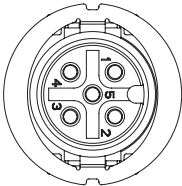
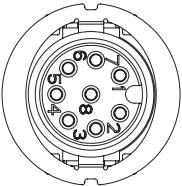
**8** Right Angle (R) or Straight (L)

【Note】 Design and specification are subject to change without notice.

∨ M12 A-Coded (SMT) > Receptacle > Male Connector

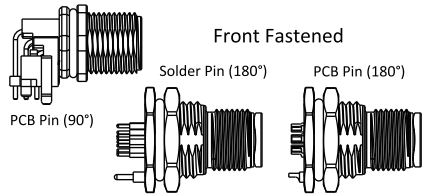
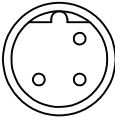
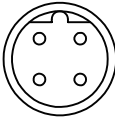
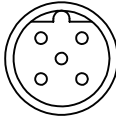
|   |                 |   |  |   |
|---|-----------------|---|--|---|
|  |                 |  |  |  |
| Type  | Mounting Thread | 4A/250V   | 4A/60V   | 2A/30V  |
| Without Strain Relief   | SMT Type        | MSAS-04PMMT-EE8001  | MSAS-05PMMT-EE8001   | MSAS-08PMMT-EE8001  |

∨ M12 A-Coded (SMT) > Receptacle > Female Connector

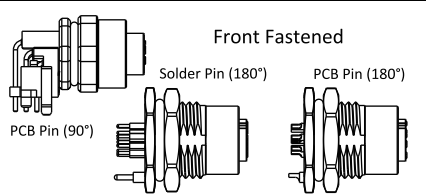
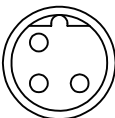
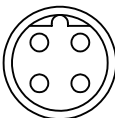

|   |                 |   |  |   |
|---|-----------------|---|--|---|
|  |                 |  |  |  |
| Type  | Mounting Thread | 4A/250V   | 4A/60V   | 2A/30V  |
| Without Strain Relief   | SMT Type        | MSAS-04PFFT-EE8001  | MSAS-05PFFT-EE8001   | MSAS-08PFFT-EE8001  |



┘ M12 B-Coded (Shielded) > Receptacle > Male Connector

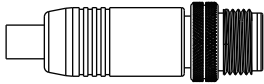
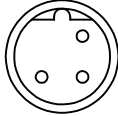
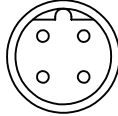
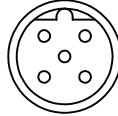
|  |                 |   |   |   |
|--|-----------------|---|---|---|
|  |                 |  |  |  |
| Type   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V  |
| PCB Pin (180°)   | PG9             | MSBS-03PMMP-SF8001  | MSBS-04PMMP-SF8001  | MSBS-05PMMP-SF8001  |
|  | M16.0           | MSBS-03PMMP-SF8002  | MSBS-04PMMP-SF8002  | MSBS-05PMMP-SF8002  |
| PCB Pin (90°)  | M12             | -   | -   | MSBS-05PMMR-SF7003  |
| Solder Pin (180°)  | PG9             | MSBS-03PMMS-SF8001  | MSBS-04PMMS-SF8001  | MSBS-05PMMS-SF8001  |
|  | M16.0           | MSBS-03PMMS-SF8002  | MSBS-04PMMS-SF8002  | MSBS-05PMMS-SF8002  |

┘ M12 B-Coded (Shielded) > Receptacle > Female Connector

|   |                 |  |  |  |
|---|-----------------|--|--|--|
|  |                 |  |  |  |
| Type  | Mounting Thread | 4A/250V  | 4A/250V  | 4A/60V   |
| PCB Pin (180°)  | PG9             | MSBS-03PFFP-SF8001   | MSBS-04PFFP-SF8001   | MSBS-05PFFP-SF8001   |
|   | M16.0           | MSBS-03PFFP-SF8002   | MSBS-04PFFP-SF8002   | MSBS-05PFFP-SF8002   |
| PCB Pin (90°)   | M12             | -  | -  | MSBS-05PFFR-SF7003   |
| Solder Pin (180°)   | PG9             | MSBS-03PFFS-SF8001   | MSBS-04PFFS-SF8001   | MSBS-05PFFS-SF8001   |
|   | M16.0           | MSBS-03PFFS-SF8002   | MSBS-04PFFS-SF8002   | MSBS-05PFFS-SF8002   |

[ Note ] Design and specification are subject to change without notice.

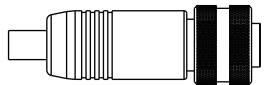
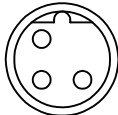
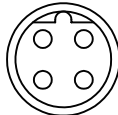
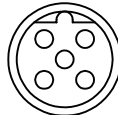
∟ **M12 B-Coded (Shielded) > Overmolded with Cable > Male Connector**

|   |   |   |   |
|---|---|---|---|
| <br>Straight |  |  |  |
| Type  | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief   | -   | -   | MSBS-05BMMM-SL7XXX*   |

\* XXX: Choose the cable type and length:

- PVC (UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU (UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

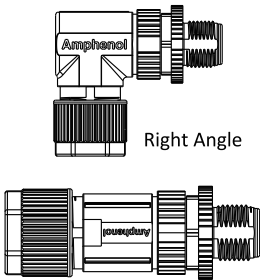
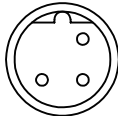
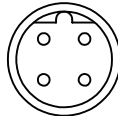
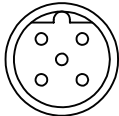
∟ **M12 B-Coded (Shielded) > Overmolded with Cable > Female Connector**

|   |   |   |   |
|---|---|---|---|
| <br>Straight |  |  |  |
| Type  | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief   | -   | -   | MSBS-05BFFM-SL7XXX*   |

\* XXX: Choose the cable type and length:

- PVC (UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU (UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

∟ **M12 B-Coded (Shielded) > Field Installable > Male Connector**

|  |              |   |   |   |
|--|--------------|---|---|---|
| <br>Right Angle<br>Straight |              |  |  |  |
| Type   | Contact Type | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | Screw Type   | -   | -   | MSBS-05BMMB-S <sup>8</sup> 7001   |

<sup>8</sup> Right Angle (R) or Straight (L)

∟ M12 B-Coded (Shielded) > Field Installable > Female Connector

|                                    |              |         |         |                      |
|------------------------------------|--------------|---------|---------|----------------------|
| <p>Right Angle</p> <p>Straight</p> |              |         |         |                      |
| Type                               | Contact Type | 4A/250V | 4A/250V | 4A/60V               |
| Without Strain Relief              | Screw Type   | -       | -       | MSBS-05BFFB-S 8 7001 |

8 Right Angle (R) or Straight (L)

∟ M12 B-Coded (Metal Nut) > Receptacle > Male Connector

|   |                 |                      |                      |                      |
|---|-----------------|----------------------|----------------------|----------------------|
| <p>PCB (90°)</p> <p>PCB (180°)</p> <p>Solder (180°)</p> |                 |                      |                      |                      |
| Backshell: Hexagonal                                    |                 |                      |                      |                      |
| Type  | Mounting Thread | 4A/250V              | 4A/250V              | 4A/60V               |
| PCB Pin (180°)  | PG9             | M12B-03PMMP-SF8001   | M12B-04PMMP-SF8001   | M12B-05PMMP-SF8001   |
|   | M16.0           | M12B-03PMMP-SF8002   | M12B-04PMMP-SF8002   | M12B-05PMMP-SF8001   |
| PCB Pin (90°)   | M12             | -                    | -                    | M12B-05PMMP-SF7003   |
|   | PG9             | -                    | -                    | M12B-05PMMP-SF8001   |
|   | M16.0           | -                    | -                    | M12B-05PMMP-SF8002   |
| Solder Pin (180°)                                       | PG9             | M12B-03PMMS-S 8 8001 | M12B-04PMMS-S 8 8001 | M12B-05PMMS-S 8 8001 |
|   | M16.0           | M12B-03PMMS-S 8 8002 | M12B-04PMMS-S 8 8002 | M12B-05PMMS-S 8 8002 |

8 Front Fastened (F) or Rear Fastened (H)

[Note] Design and specification are subject to change without notice.

≧ M12 B-Coded (Metal Nut) > Receptacle > Female Connector

|                   |                 |                                 |                                 |                                 |
|-------------------|-----------------|---------------------------------|---------------------------------|---------------------------------|
|                   |                 |                                 |                                 |                                 |
| Type              | Mounting Thread | 4A/250V                         | 4A/250V                         | 4A/60V                          |
| PCB Pin (180°)    | PG9             | M12B-03PFFP-SF8001              | M12B-04PFFP-SF8001              | M12B-05PFFP-SF8001              |
|                   | M16.0           | M12B-03PFFP-SF8002              | M12B-04PFFP-SF8002              | M12B-05PFFP-SF8001              |
| PCB Pin (90°)     | M12             | -                               | -                               | M12B-05PFFR-SF7003              |
|                   | PG9             | -                               | -                               | M12B-05PFFR-SF8001              |
|                   | M16.0           | -                               | -                               | M12B-05PFFR-SF8002              |
| Solder Pin (180°) | PG9             | M12B-03PFFS-S <sup>8</sup> 8001 | M12B-04PFFS-S <sup>8</sup> 8001 | M12B-05PFFS-S <sup>8</sup> 8001 |
|                   | M16.0           | M12B-03PFFS-S <sup>8</sup> 8002 | M12B-04PFFS-S <sup>8</sup> 8002 | M12B-05PFFS-S <sup>8</sup> 8002 |

<sup>8</sup> Front Fastened (F) or Rear Fastened (H)

≧ M12 B-Coded (Metal Nut) > Receptacle with Wire Harness > Male Connector

|                       |                 |                                 |                                 |                                 |
|-----------------------|-----------------|---------------------------------|---------------------------------|---------------------------------|
|                       |                 |                                 |                                 |                                 |
| Wire Length (UL1007)* | Mounting Thread | 4A/250V                         | 4A/250V                         | 4A/60V                          |
| 150mm                 | PG9             | M12B-03PMMC-S <sup>8</sup> 8B15 | M12B-04PMMC-S <sup>8</sup> 8B15 | M12B-05PMMC-S <sup>8</sup> 8B15 |
|                       | M16.0           | M12B-03PMMC-S <sup>8</sup> 8C15 | M12B-04PMMC-S <sup>8</sup> 8C15 | M12B-05PMMC-S <sup>8</sup> 8C15 |
| 300mm                 | PG9             | M12B-03PMMC-S <sup>8</sup> 8B30 | M12B-04PMMC-S <sup>8</sup> 8B30 | M12B-05PMMC-S <sup>8</sup> 8B30 |
|                       | M16.0           | M12B-03PMMC-S <sup>8</sup> 8C30 | M12B-04PMMC-S <sup>8</sup> 8C30 | M12B-05PMMC-S <sup>8</sup> 8C30 |
| 500mm                 | PG9             | M12B-03PMMC-S <sup>8</sup> 8B50 | M12B-04PMMC-S <sup>8</sup> 8B50 | M12B-05PMMC-S <sup>8</sup> 8B50 |
|                       | M16.0           | M12B-03PMMC-S <sup>8</sup> 8C50 | M12B-04PMMC-S <sup>8</sup> 8C50 | M12B-05PMMC-S <sup>8</sup> 8C50 |
| 1000mm                | PG9             | M12B-03PMMC-S <sup>8</sup> 8BA0 | M12B-04PMMC-S <sup>8</sup> 8BA0 | M12B-05PMMC-S <sup>8</sup> 8BA0 |
|                       | M16.0           | M12B-03PMMC-S <sup>8</sup> 8CA0 | M12B-04PMMC-S <sup>8</sup> 8CA0 | M12B-05PMMC-S <sup>8</sup> 8CA0 |
| 1500mm                | PG9             | M12B-03PMMC-S <sup>8</sup> 8BA5 | M12B-04PMMC-S <sup>8</sup> 8BA5 | M12B-05PMMC-S <sup>8</sup> 8BA5 |
|                       | M16.0           | M12B-03PMMC-S <sup>8</sup> 8CA5 | M12B-04PMMC-S <sup>8</sup> 8CA5 | M12B-05PMMC-S <sup>8</sup> 8CA5 |

<sup>8</sup> Front Fastened (F) or Rear Fastened (H)

\* Other wire types are available upon request.

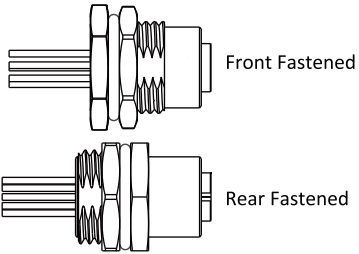
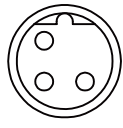
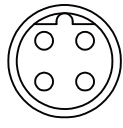

**M12 B-Coded (Metal Nut)**

Receptacle with Wire Harness > Female Connector | Overmolded with Cable > Male Connector

**IP 65 . 67 . 68**

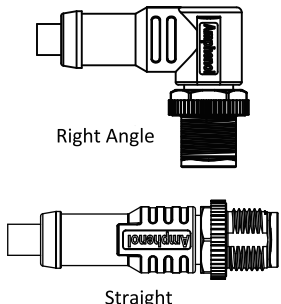
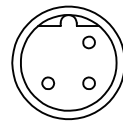
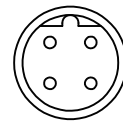
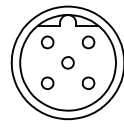
Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

➤ **M12 B-Code (Metal Nut) > Receptacle with Wire Harness > Female Connector**

|  <p>Front Fastened</p> <p>Rear Fastened</p> |                 |  |  |  |
|--|-----------------|---|---|---|
| Backshell: Hexagonal   |                 |   |   |   |
| Wire Length (UL1007)*  | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V  |
| 150mm  | PG9             | M12B-03PFFC-S 8B15  | M12B-04PFFC-S 8B15  | M12B-05PFFC-S 8B15  |
|  | M16.0           | M12B-03PFFC-S 8C15  | M12B-04PFFC-S 8C15  | M12B-05PFFC-S 8C15  |
| 300mm  | PG9             | M12B-03PFFC-S 8B30  | M12B-04PFFC-S 8B30  | M12B-05PFFC-S 8B30  |
|  | M16.0           | M12B-03PFFC-S 8C30  | M12B-04PFFC-S 8C30  | M12B-05PFFC-S 8C30  |
| 500mm  | PG9             | M12B-03PFFC-S 8B50  | M12B-04PFFC-S 8B50  | M12B-05PFFC-S 8B50  |
|  | M16.0           | M12B-03PFFC-S 8C50  | M12B-04PFFC-S 8C50  | M12B-05PFFC-S 8C50  |
| 1000mm   | PG9             | M12B-03PFFC-S 8BA0  | M12B-04PFFC-S 8BA0  | M12B-05PFFC-S 8BA0  |
|  | M16.0           | M12B-03PFFC-S 8CA0  | M12B-04PFFC-S 8CA0  | M12B-05PFFC-S 8CA0  |
| 1500mm   | PG9             | M12B-03PFFC-S 8BA5  | M12B-04PFFC-S 8BA5  | M12B-05PFFC-S 8BA5  |
|  | M16.0           | M12B-03PFFC-S 8CA5  | M12B-04PFFC-S 8CA5  | M12B-05PFFC-S 8CA5  |

8 Front Fastened (F) or Rear Fastened (H)

➤ **M12 B-Coded (Metal Nut) > Overmolded with Cable > Male Connector**

|  |  |   |   |   |
|--|--|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |  |
| Type   |  | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  |  | M12B-03BMMM-S 8XXX*   | M12B-04BMMM-S 8XXX*   | M12B-05BMMM-S 8XXX*   |

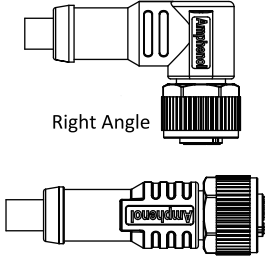
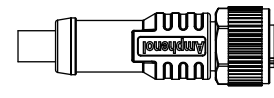
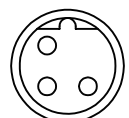
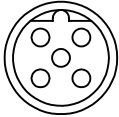

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

[Note] Design and specification are subject to change without notice.

➤ **M12 B-Coded (Metal Nut) > Overmolded with Cable > Female Connector**

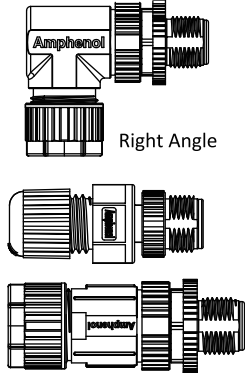
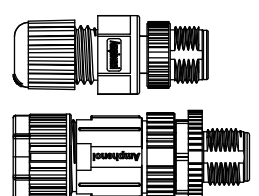
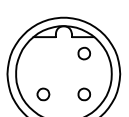
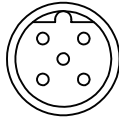

|  |  |   |  |   |
|--|--|---|--|---|
|  <p>Right Angle</p>  <p>Straight</p> |  |  |  |  |
| Type   |  | 4A/250V   | 4A/250V  | 4A/60V  |
| Without Strain Relief  |  | M12B-03BFFM-S 8XXX*   | M12B-04BFFM-S 8XXX*  | M12B-05BFFM-S 8XXX*   |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

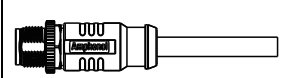
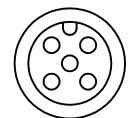
- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

➤ **M12 B-Coded (Metal Nut) > Field Installable > Male Connector**

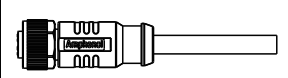
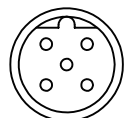
|   |              |  |   |  |
|---|--------------|--|---|--|
|  <p>Right Angle</p>  <p>Straight</p> |              |  |  |  |
| Type  | Contact Type | 4A/250V  | 4A/250V   | 4A/60V   |
| Without Strain Relief   | Solder Type  | 12B-03BMMA-SL8001  | 12B-04BMMA-SL8001   | 12B-05BMMA-SL8001  |
|   | Screw Type   | -  | -   | M12B-05BMMS-S 87001  |

8 Right Angle (R) or Straight (L)

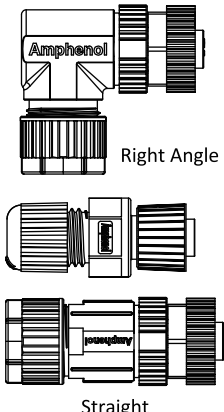
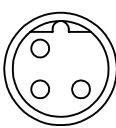
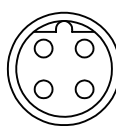
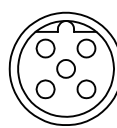
➤ **M12 B-Coded (Metal Nut) > Overmolded with Cable > Female Connector**

|   |   |
|---|---|
|  |  |
| Type  | 4A/60V  |
| Without Strain Relief   | MSBS-05BFFM-SL8D01  |

➤ **M12 B-Coded (Metal Nut) > Overmolded with Cable > Male Connector**

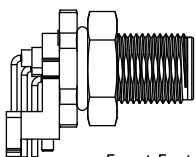
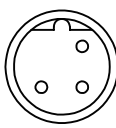
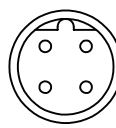
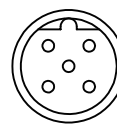
|  |   |
|--|---|
|  |  |
| Type   | 4A/60V  |
| Without Strain Relief  | MSBS-05BMMM-SL8D01  |

∟ M12 B-Coded (Metal Nut) > Field Installable > Female Connector

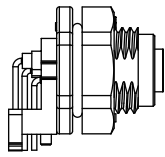
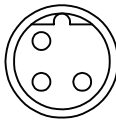
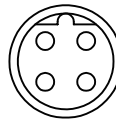
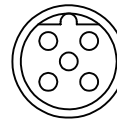
|  |              |   |   |   |
|--|--------------|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |
| Type   | Contact Type | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | Solder Type  | 12B-03BFFA-SL8001   | 12B-04BFFA-SL8001   | 12B-05BFFA-SL8001   |
|  | Screw Type   | -   | -   | M12B-05BFFB-S 87001   |

8 Right Angle (R) or Straight (L)

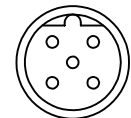
∟ M12 B-Coded (Plastic) > Receptacle > Male Connector

|   |                 |   |   |   |
|---|-----------------|---|---|---|
|  <p>Front Fastened</p> <p>Backshell: Hexagonal</p> |                 |  |  |  |
| Type  | Mounting Thread | 4A/60V  | 4A/60V  | 4A/60V  |
| PCB Pin (90°)   | M12             | -   | -   | MSBP-05PMMR-SF8003  |

∟ M12 B-Coded (Plastic) > Receptacle > Female Connector

|   |                 |   |   |   |
|---|-----------------|---|---|---|
|  <p>Front Fastened</p> <p>Backshell: Hexagonal</p> |                 |  |  |  |
| Type  | Mounting Thread | 4A/60V  | 4A/60V  | 4A/60V  |
| PCB Pin (90°)   | M12             | -   | -   | MSBP-05PMMR-SF8003  |

∟ M12 B-Coded (Plastic) > Overmolded with Cable > Male Connector

|  |   |   |   |
|--|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |
| Type   | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | MSBP-03BMMM-S 8XXX*   | MSBP-04BMMM-S 8XXX*   | MSBP-05BMMM-S 8XXX*   |

8 Right Angle (R) or Straight (L)

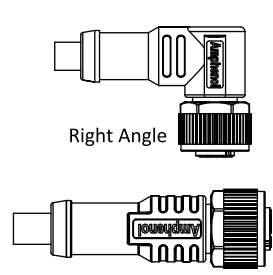



\* XXX: Choose the cable type and length:

- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

∟ M12 B-Coded (Plastic) > Overmolded with Cable > Female Connector

|  |   |   |   |
|--|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |
| Type   | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | MSBP-03BFFM-S 8XXX*   | MSBP-04BFFM-S 8XXX*   | MSBP-05BFFM-S 8XXX*   |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

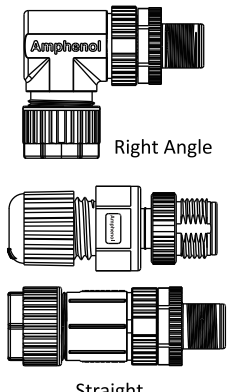
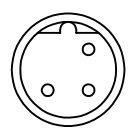
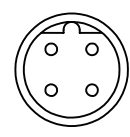
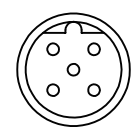
- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

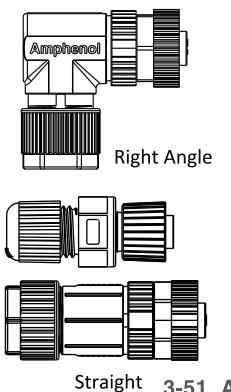
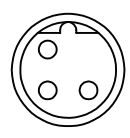
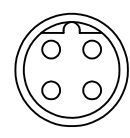
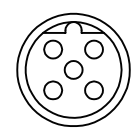


∟ M12 B-Coded (Plastic) > Field Installable > Male Connector

|  |              |   |   |   |
|--|--------------|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |
| Type   | Contact Type | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | Solder Type  | SBP-03BMMA-SL8001   | SBP-04BMMA-SL8001   | SBP-05BMMA-SL8001   |
|  | Screw Type   | -   | -   | MSBP-05BMMB-S <sup>8</sup> 7001   |

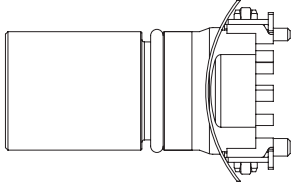
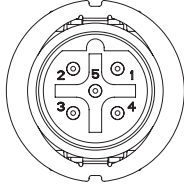
<sup>8</sup> Right Angle (R) or Straight (L)

∟ M12 B-Coded (Plastic) > Field Installable > Female Connector

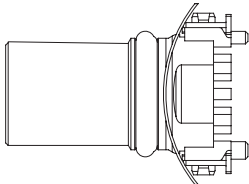
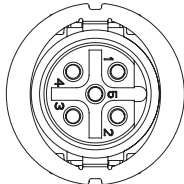
|  |              |   |   |   |
|--|--------------|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |
| Type   | Contact Type | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | Solder Type  | SBP-03BFFA-SL8001   | SBP-04BFFA-SL8001   | SBP-05BFFA-SL8001   |
|  | Screw Type   | -   | -   | MSBP-05BFFB-S <sup>8</sup> 7001   |

<sup>8</sup> Right Angle (R) or Straight (L)

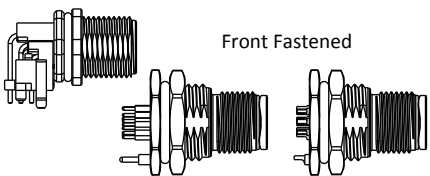
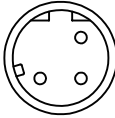
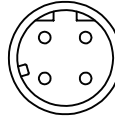
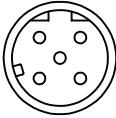
∨ M12 B-Coded (SMT) > Receptacle > Male Connector

|   |                 |  |
|---|-----------------|--|
|  |                 |  |
| Type  | Mounting Thread | 4A/60V   |
| Without Strain Relief   | SMT Type        | MSBS-05PMMT-EE8001   |

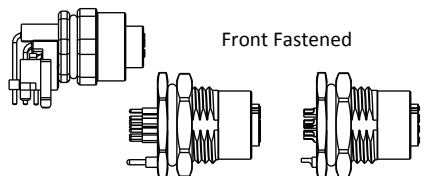
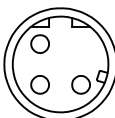
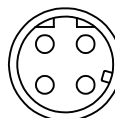

∨ M12 B-Coded (SMT) > Receptacle > Female Connector

|   |                 |  |
|---|-----------------|--|
|  |                 |  |
| Type  | Mounting Thread | 4A/60V   |
| Without Strain Relief   | SMT Type        | MSBS-05PFFT-EE8001   |

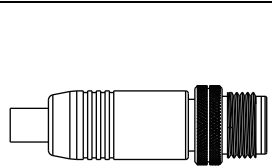
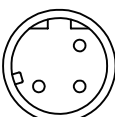
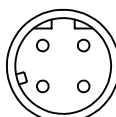
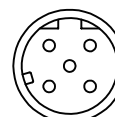
➤ M12 D-Coded (Shielded) > Receptacle > Male Connector

|   |                 |   |   |   |
|---|-----------------|---|---|---|
|  <p>Front Fastened</p> |                 |  |  |  |
| Backshell: Hexagonal  |                 |   |   |   |
| Type  | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V  |
| PCB Pin (180°)  | PG9             | MSDS-03PMMP-SF8001  | MSDS-04PMMP-SF8001  | MSDS-05PMMP-SF8001  |
|   | M16.0           | MSDS-03PMMP-SF8002  | MSDS-04PMMP-SF8002  | MSDS-05PMMP-SF8002  |
| PCB Pin (90°)   | M12             | -   | MSDS-04PMMP-SF7003  | -   |
| Solder Pin (180°)   | PG9             | MSDS-03PMMS-SF8001  | MSDS-04PMMS-SF8001  | MSDS-05PMMS-SF8001  |
|   | M16.0           | MSDS-03PMMS-SF8002  | MSDS-04PMMS-SF8002  | MSDS-05PMMS-SF8002  |

➤ M12 D-Coded (Shielded) > Receptacle > Female Connector

|  |                 |  |  |  |
|--|-----------------|--|--|--|
|  <p>Front Fastened</p> |                 |  |  |  |
| Backshell: Hexagonal   |                 |  |  |  |
| Type   | Mounting Thread | 4A/250V  | 4A/250V  | 4A/60V   |
| PCB Pin (180°)   | PG9             | MSDS-03PFFP-SF8001   | MSDS-04PFFP-SF8001   | MSDS-05PFFP-SF8001   |
|  | M16.0           | MSDS-03PFFP-SF8002   | MSDS-04PFFP-SF8002   | MSDS-05PFFP-SF8002   |
| PCB Pin (90°)  | M12             | -  | MSDS-04PFFP-SF7003   | -  |
| Solder Pin (180°)  | PG9             | MSDS-03PFFS-SF8001   | MSDS-04PFFS-SF8001   | MSDS-05PFFS-SF8001   |
|  | M16.0           | MSDS-03PFFS-SF8002   | MSDS-04PFFS-SF8002   | MSDS-05PFFS-SF8002   |

➤ M12 D-Coded (Shielded) > Overmolded with Cable > Male Connector

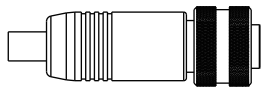
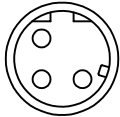
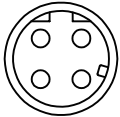
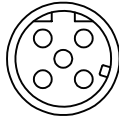
|   |   |   |   |
|---|---|---|---|
|  <p>Straight</p> |  |  |  |
| Type  | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief   | -   | MSDS-04BMMM-SL7XXX*   | -   |

\* XXX: Choose the cable type and length:

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

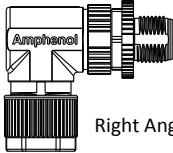
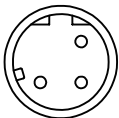
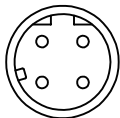
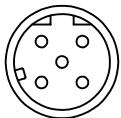
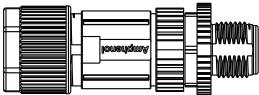
➤ M12 D-Coded (Shielded) > Overmolded with Cable > Female Connector

|   |   |   |   |
|---|---|---|---|
| <br>Straight |  |  |  |
| Type  | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief   | -   | MSDS-04BFFM-SL7XXX*   | -   |

\* XXX: Choose the cable type and length:

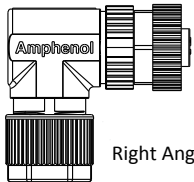
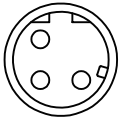
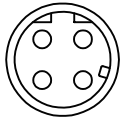
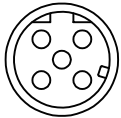
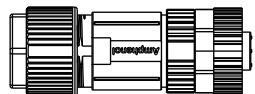
- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

➤ M12 D-Coded (Shielded) > Field Installable > Male Connector

|   |  |  |  |        |
|---|--|--|--|--------|
| <br>Right Angle |  |  |  |        |
| <br>Straight   |  |  |  |        |
| Type  | Contact Type   | 4A/250V  | 4A/250V  | 4A/60V |
| Without Strain Relief   | Screw Type   | -  | MSDS-04BMMB-S 87001  | -      |

8 Right Angle (R) or Straight (L)

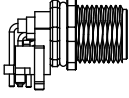
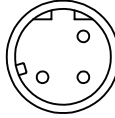
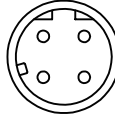
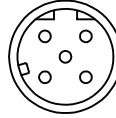
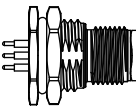

➤ M12 D-Coded (Shielded) > Field Installable > Female Connector

|  |   |   |   |        |
|--|---|---|---|--------|
| <br>Right Angle |  |  |  |        |
| <br>Straight    |   |   |   |        |
| Type   | Contact Type  | 4A/250V   | 4A/250V   | 4A/60V |
| Without Strain Relief  | Screw Type  | -   | MSDS-04BFFB-S 87001   | -      |

8 Right Angle (R) or Straight (L)

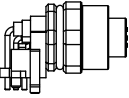
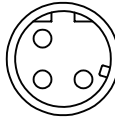
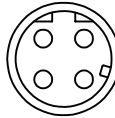
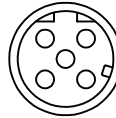
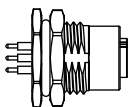
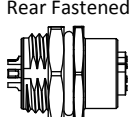
[Note] Design and specification are subject to change without notice

▾ M12 D-Coded (Metal Nut) > Receptacle > Male Connector

| PCB (90°) / Front Fastened<br>    |                 |  |  |  |
|--|-----------------|---|---|---|
| PCB (180°) / Front Fastened<br>   |                 |   |   |   |
| Solder (180°) / Rear Fastened<br> |                 |   |   |   |
| Backshell: Hexagonal   |                 |   |   |   |
| Type   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V  |
| PCB Pin (180°)   | PG9             | M12D-03PMMP-SF8001  | M12D-04PMMP-SF8001  | M12D-05PMMP-SF8001  |
|  | M16.0           | M12D-03PMMP-SF8002  | M12D-04PMMP-SF8001  | M12D-05PMMP-SF8001  |
| PCB Pin (90°)  | M12             | -   | M12D-04PMMP-SF7003  | -   |
|  | PG9             | -   | M12D-04PMMP-SF8001  | -   |
|  | M16.0           | -   | M12D-04PMMP-SF8002  | -   |
| Solder Pin (180°)  | PG9             | M12D-03PMMS-S <sup>8</sup> 8001   | M12D-04PMMS-S <sup>8</sup> 8001   | M12D-05PMMS-S <sup>8</sup> 8001   |
|  | M16.0           | M12D-03PMMS-S <sup>8</sup> 8002   | M12D-04PMMS-S <sup>8</sup> 8002   | M12D-05PMMS-S <sup>8</sup> 8002   |

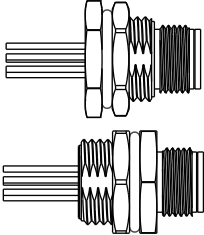
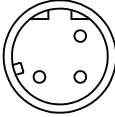
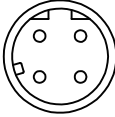
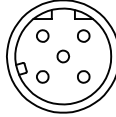
<sup>8</sup> Front Fastened (F) or Rear Fastened (H)

▾ M12 D-Coded (Metal Nut) > Receptacle > Female Connector

| PCB (90°) / Front Fastened<br>    |                 |  |  |  |
|--|-----------------|---|---|---|
| PCB (180°) / Front Fastened<br>   |                 |   |   |   |
| Solder (180°) / Rear Fastened<br> |                 |   |   |   |
| Backshell: Hexagonal   |                 |   |   |   |
| Type   | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V  |
| PCB Pin (180°)   | PG9             | M12D-03PFFP-SF8001  | M12D-04PFFP-SF8001  | M12D-05PFFP-SF8001  |
|  | M16.0           | M12D-03PFFP-SF8002  | M12D-04PFFP-SF8001  | M12D-05PFFP-SF8001  |
| PCB Pin (90°)  | M12             | -   | M12D-04PFFP-SF7003  | -   |
|  | PG9             | -   | M12D-04PFFP-SF8001  | -   |
|  | M16.0           | -   | M12D-04PFFP-SF8002  | -   |
| Solder Pin (180°)  | PG9             | M12D-03PFFS-S <sup>8</sup> 8001   | M12D-04PFFS-S <sup>8</sup> 8001   | M12D-05PFFS-S <sup>8</sup> 8001   |
|  | M16.0           | M12D-03PFFS-S <sup>8</sup> 8002   | M12D-04PFFS-S <sup>8</sup> 8002   | M12D-05PFFS-S <sup>8</sup> 8002   |

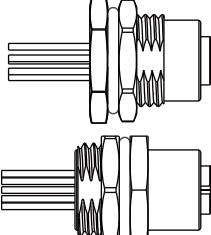
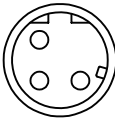
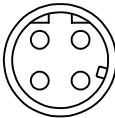
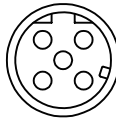
<sup>8</sup> Front Fastened (F) or Rear Fastened (H)

➤ M12 D-Coded (Metal Nut) > Receptacle with Wire Harness > Male Connector

|  <p>Front Fastened</p> <p>Rear Fastened</p> |                 |  |  |  |
|--|-----------------|---|---|---|
| Backshell: Hexagonal   |                 |   |   |   |
| Wire Length (UL1007)*  | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V  |
| 150mm  | PG9             | M12D-03PMMC-S ⑧8B15   | M12D-04PMMC-S ⑧8B15   | M12D-05PMMC-S ⑧8B15   |
|  | M16.0           | M12D-03PMMC-S ⑧8C15   | M12D-04PMMC-S ⑧8C15   | M12D-05PMMC-S ⑧8C15   |
| 300mm  | PG9             | M12D-03PMMC-S ⑧8B30   | M12D-04PMMC-S ⑧8B30   | M12D-05PMMC-S ⑧8B30   |
|  | M16.0           | M12D-03PMMC-S ⑧8C30   | M12D-04PMMC-S ⑧8C30   | M12D-05PMMC-S ⑧8C30   |
| 500mm  | PG9             | M12D-03PMMC-S ⑧8B50   | M12D-04PMMC-S ⑧8B50   | M12D-05PMMC-S ⑧8B50   |
|  | M16.0           | M12D-03PMMC-S ⑧8C50   | M12D-04PMMC-S ⑧8C50   | M12D-05PMMC-S ⑧8C50   |
| 1000mm   | PG9             | M12D-03PMMC-S ⑧8BA0   | M12D-04PMMC-S ⑧8BA0   | M12D-05PMMC-S ⑧8BA0   |
|  | M16.0           | M12D-03PMMC-S ⑧8CA0   | M12D-04PMMC-S ⑧8CA0   | M12D-05PMMC-S ⑧8CA0   |
| 1500mm   | PG9             | M12D-03PMMC-S ⑧8BA5   | M12D-04PMMC-S ⑧8BA5   | M12D-05PMMC-S ⑧8BA5   |
|  | M16.0           | M12D-03PMMC-S ⑧8CA5   | M12D-04PMMC-S ⑧8CA5   | M12D-05PMMC-S ⑧8CA5   |

⑧ Front Fastened (F) or Rear Fastened (H)

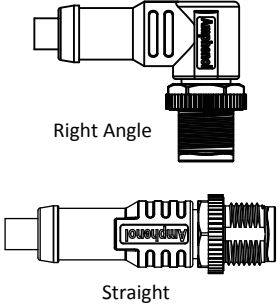
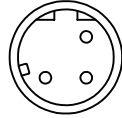
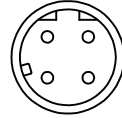
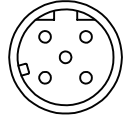
➤ M12 D-Coded (Metal Nut) > Receptacle with Wire Harness > Female Connector

|  <p>Front Fastened</p> <p>Rear Fastened</p> |                 |  |  |  |
|--|-----------------|---|---|---|
| Backshell: Hexagonal   |                 |   |   |   |
| Wire Length (UL1007)*  | Mounting Thread | 4A/250V   | 4A/250V   | 4A/60V  |
| 150mm  | PG9             | M12D-03PFFC-S ⑧8B15   | M12D-04PFFC-S ⑧8B15   | M12D-05PFFC-S ⑧8B15   |
|  | M16.0           | M12D-03PFFC-S ⑧8C15   | M12D-04PFFC-S ⑧8C15   | M12D-05PFFC-S ⑧8C15   |
| 300mm  | PG9             | M12D-03PFFC-S ⑧8B30   | M12D-04PFFC-S ⑧8B30   | M12D-05PFFC-S ⑧8B30   |
|  | M16.0           | M12D-03PFFC-S ⑧8C30   | M12D-04PFFC-S ⑧8C30   | M12D-05PFFC-S ⑧8C30   |
| 500mm  | PG9             | M12D-03PFFC-S ⑧8B50   | M12D-04PFFC-S ⑧8B50   | M12D-05PFFC-S ⑧8B50   |
|  | M16.0           | M12D-03PFFC-S ⑧8C50   | M12D-04PFFC-S ⑧8C50   | M12D-05PFFC-S ⑧8C50   |
| 1000mm   | PG9             | M12D-03PFFC-S ⑧8BA0   | M12D-04PFFC-S ⑧8BA0   | M12D-05PFFC-S ⑧8BA0   |
|  | M16.0           | M12D-03PFFC-S ⑧8CA0   | M12D-04PFFC-S ⑧8CA0   | M12D-05PFFC-S ⑧8CA0   |
| 1500mm   | PG9             | M12D-03PFFC-S ⑧8BA5   | M12D-04PFFC-S ⑧8BA5   | M12D-05PFFC-S ⑧8BA5   |
|  | M16.0           | M12D-03PFFC-S ⑧8CA5   | M12D-04PFFC-S ⑧8CA5   | M12D-05PFFC-S ⑧8CA5   |

⑧ Front Fastened (F) or Rear Fastened (H)

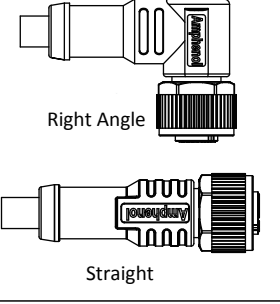
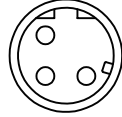
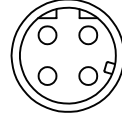
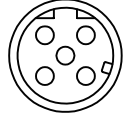
[Notes] Design and specification are subject to change without notice.

∟ M12 D-Coded (Metal Nut) > Overmolded with Cable > Male Connector

|  |   |   |   |
|--|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |
|  | Type  | 4A/250V   | 4A/250V   |
| Without Strain Relief  | M12D-03BMMM-S 8XXX*   | M12D-04BMMM-S 8XXX*   | M12D-05BMMM-S 8XXX*   |

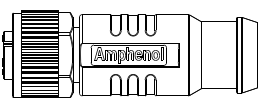
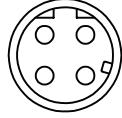
8 Right Angle (R) or Straight (L) - PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)  
 \* XXX: Choose the cable type and length: - PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)  
 - PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

∟ M12 D-Coded (Metal Nut) > Overmolded with Cable > Female Connector

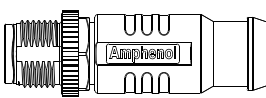
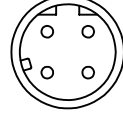
|   |  |  |  |
|---|--|--|--|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |
|   | Type   | 4A/250V  | 4A/250V  |
| Without Strain Relief   | M12D-03BFFM-S 8XXX*  | M12D-04BFFM-S 8XXX*  | M12D-05BFFM-S 8XXX*  |

8 Right Angle (R) or Straight (L) - PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)  
 \* XXX: Choose the cable type and length: - PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)  
 - PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

∟ M12 D-Coded (Metal Nut) > Overmolded with Cable > Female Connector

|   |   |
|---|---|
|  |  |
| Type  | 4A / 250V   |
| Without Strain Relief   | MSBS-05BFFM-SL8D01  |

∟ M12 D-Coded (Metal Nut) > Overmolded with Cable > Male Connector

|  |   |
|--|---|
|  |  |
| Type   | 4A / 250V   |
| Without Strain Relief  | MSDS-04BMMM-SL8D01  |

∟ M12 D-Coded (Metal Nut) > Field Installable > Male Connector

|                                    |              |                   |                                 |                   |
|------------------------------------|--------------|-------------------|---------------------------------|-------------------|
| <p>Right Angle</p> <p>Straight</p> |              |                   |                                 |                   |
| Type                               | Contact Type | 4A/250V           | 4A/250V                         | 4A/60V            |
| Without Strain Relief              | Solder Type  | 12D-03BMMA-SL8001 | 12D-04BMMA-SL8001               | 12D-05BMMA-SL8001 |
|                                    | Screw Type   | -                 | M12D-04BMMB-S <sup>8</sup> 7001 | -                 |

<sup>8</sup> Right Angle (R) or Straight (L)

∟ M12 D-Coded (Plastic) > Receptacle > Male Connector

|  |                 |         |                    |        |
|--|-----------------|---------|--------------------|--------|
| <p>PCB (90°)</p> <p>Front Fastened</p> <p>Backshell: Hexagonal</p> |                 |         |                    |        |
| Type   | Mounting Thread | 4A/250V | 4A/250V            | 4A/60V |
| PCB Pin (90°)  | M12             | -       | MSDP-04PMMR-SF8003 | -      |

∟ M12 D-Coded (Plastic) > Receptacle > Female Connector

|  |                 |         |                    |        |
|--|-----------------|---------|--------------------|--------|
| <p>PCB (90°)</p> <p>Front Fastened</p> <p>Backshell: Hexagonal</p> |                 |         |                    |        |
| Type   | Mounting Thread | 4A/250V | 4A/250V            | 4A/60V |
| PCB Pin (90°)  | M16             | -       | MSDP-04PFFR-SF8002 | -      |

[Notes] Design and specification are subject to change without notice.



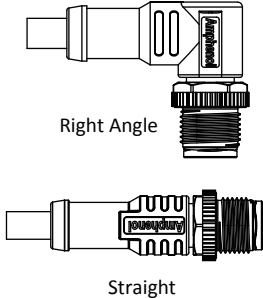
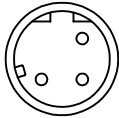
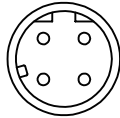
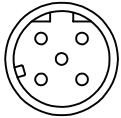
**M12 D-Coded (Plastic)**

Overmolded with Cable > Male / Female Connector

**IP 65 . 67 . 68**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

∟ **M12 D-Coded (Plastic) > Overmolded with Cable > Male Connector**

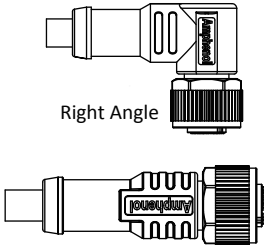
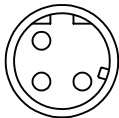
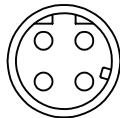

|  |   |  |   |
|--|---|--|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |
| Type   | 4A/250V   | 4A/250V  | 4A/60V  |
| Without Strain Relief  | MSDP-03BMMM-S 8XXX*   | MSDP-04BMMM-S 8XXX*  | MSDP-05BMMM-S 8XXX*   |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

∟ **M12 D-Coded (Plastic) > Overmolded with Cable > Female Connector**

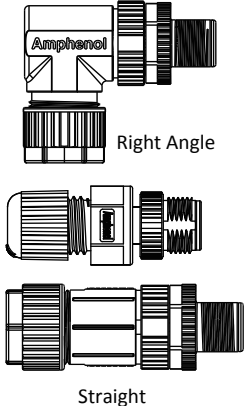
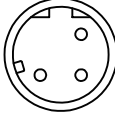
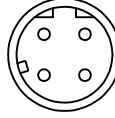
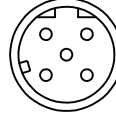
|  |   |  |   |
|--|---|--|---|
|  <p>Right Angle</p> <p>Straight</p> |  |  |  |
| Type   | 4A/250V   | 4A/250V  | 4A/60V  |
| Without Strain Relief  | MSDP-03BFFM-S 8XXX*   | MSDP-04BFFM-S 8XXX*  | MSDP-05BFFM-S 8XXX*   |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length:

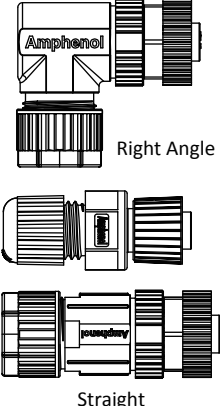
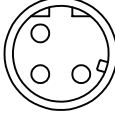
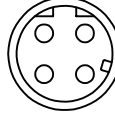
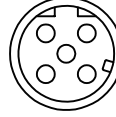
- PVC(UL2517 Yellow): 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU(UL20549 Black): 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

∟ M12 D-Coded (Plastic) > Field Installable > Male Connector

|  |              |   |   |   |
|--|--------------|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |
| Type   | Contact Type | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | Solder Type  | SDP-03BMMA-SL8001   | SDP-04BMMA-SL8001   | SDP-05BMMA-SL8001   |
|  | Screw Type   | -   | MSDP-04BMMB-S <sup>8</sup> 7001   | -   |

<sup>8</sup> Right Angle (R) or Straight (L)

∟ M12 D-Coded (Plastic) > Field Installable > Female Connector

|  |              |   |   |   |
|--|--------------|---|---|---|
|  <p>Right Angle</p> <p>Straight</p> |              |  |  |  |
| Type   | Contact Type | 4A/250V   | 4A/250V   | 4A/60V  |
| Without Strain Relief  | Solder Type  | SDP-03BFFA-SL8001   | SDP-04BFFA-SL8001   | SDP-05BFFA-SL8001   |
|  | Screw Type   | -   | MSDP-04BMMB-S <sup>8</sup> 7001   | -   |

<sup>8</sup> Right Angle (R) or Straight (L)

[Notes] Design and specification are subject to change without notice.

## M Series Sensor Connector | Accessories

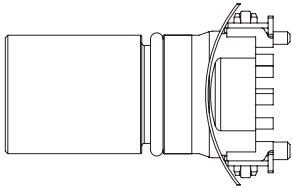
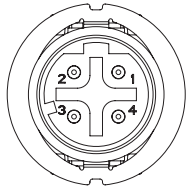
### M12 D-Coded (SMT)

Receptacle > Male / Female Connector

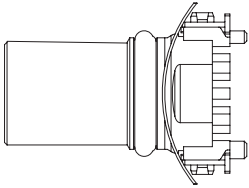
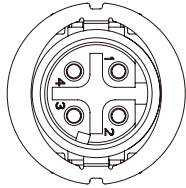
# IP 65 . 67 . 68

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

### ∨ M12 D-Coded (SMT) > Receptacle > Male Connector

|   |                 |  |
|---|-----------------|--|
|  |                 |  |
| Type  | Mounting Thread | 4A/250V  |
| Without Strain Relief   | SMT Type        | MSDS-04PMMT-EE8001   |

### ∨ M12 D-Coded (SMT) > Receptacle > Female Connector

|   |                 |  |
|---|-----------------|--|
|  |                 |  |
| Type  | Mounting Thread | 4A/250V  |
| Without Strain Relief   | SMT Type        | MSDS-04PFFT-EE8001   |

∟ **M12 I Style (Metal) > Receptacle > Male Connector (Housing)**

|                               |                     |  |
|-------------------------------|---------------------|--|
| PCB (180°) / Front Fastened   |                     |  |
|                               |                     |  |
| Solder (180°) / Rear Fastened |                     |  |
|                               |                     |  |
| Backshell: Hexagonal          | Male+Female Contact |  |
| Type                          | 4A/60V              |  |
| PCB Pin (180°)                | M12I-05PMIP-SF8001  |  |
|                               | M12I-05PMIP-SF8002  |  |
| Solder Pin (180°)             | 12-05PMIS-S 8 8001  |  |
|                               | 12-05PMIS-S 8 8002  |  |

8 Front Fastened (F) or Rear Fastened (H)

∟ **M12 I Style (Metal) > Receptacle > Female Connector (Housing)**

|                               |                     |  |
|-------------------------------|---------------------|--|
| PCB (180°) / Front Fastened   |                     |  |
|                               |                     |  |
| Solder (180°) / Rear Fastened |                     |  |
|                               |                     |  |
| Backshell: Hexagonal          | Male+Female Contact |  |
| Type                          | 4A/60V              |  |
| PCB Pin (180°)                | M12I-05PFIP-SF8001  |  |
|                               | M12I-05PFIP-SF8002  |  |
| Solder Pin (180°)             | 12-05PFIS-S 8 8001  |  |
|                               | 12-05PFIS-S 8 8002  |  |

8 Front Fastened (F) or Rear Fastened (H)

∟ **M12 I Style (Metal) > Overmolded with Cable > Male Connector (Housing)**

|                       |                       |                     |
|-----------------------|-----------------------|---------------------|
| Right Angle           |                       |                     |
|                       |                       |                     |
| Straight              |                       |                     |
|                       |                       |                     |
|                       |                       | Male+Female Contact |
| Type                  | 4A/60V                |                     |
| With Strain Relief    | M12I-05AMIM-S 8 8XXX* |                     |
| Without Strain Relief | M12I-05BMIM-S 8 8XXX* |                     |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

∟ **M12 I Style (Metal) > Overmolded with Cable > Female Connector**

|                       |                       |                     |
|-----------------------|-----------------------|---------------------|
| Right Angle           |                       |                     |
|                       |                       |                     |
| Straight              |                       |                     |
|                       |                       |                     |
|                       |                       | Male+Female Contact |
| Type                  | 4A/60V                |                     |
| With Strain Relief    | M12I-05AFIM-S 8 7XXX* |                     |
| Without Strain Relief | M12I-05BFIM-S 8 8XXX* |                     |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)
- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)
- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

# M Series Sensor Connector | Find Our Standard Products

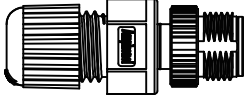

## M12 I Style (Metal) | M12 I Style (Plastic)

Field Installable > Male / Female Connector (Housing) |  
Overmolded with Cable > Male / Female Connector (Housing)

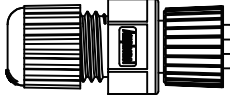

# IP 65 . 67 . 68

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

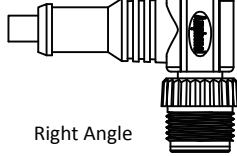

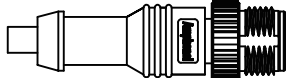
### ∟ M12 I Style (Metal) > Field Installable > Male Connector (Housing)

|   |   |
|---|---|
|  |  |
| Straight  | Male+Female Contact   |
| Type  | 4A/60V  |
| Without Strain Relief   | M12I-05BMIA-SL8001  |

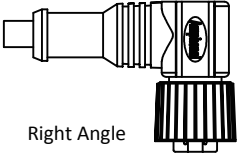


### ∟ M12 I Style (Metal) > Field Installable > Female Connector (Housing)

|  |   |
|--|---|
|  |  |
| Straight   | Male+Female Contact   |
| Type   | 4A/60V  |
| Without Strain Relief  | M12I-05BFIA-SL8001  |

### ∟ M12 I Style (Plastic) > Overmolded with Cable > Male Connector (Housing)

|   |   |
|---|---|
|   |  |
| Right Angle   |   |
|  |   |
| Straight  | Male+Female Contact   |
| Type  | 4A/250V   |
| Without Strain Relief   | MSIP-05BMIM-S 8XXX*   |

### ∟ M12 I Style (Plastic) > Overmolded with Cable > Female Connector (Housing)

|  |   |
|--|---|
|   |  |
| Right Angle  |   |
|  |   |
| Straight   | Male+Female Contact   |
| Type   | 4A/60V  |
| Without Strain Relief  | MSIP-05BFIM-S 8XXX*   |

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

8 Right Angle (R) or Straight (L)

\* XXX: Choose the cable type and length

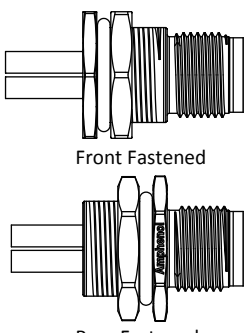

- PVC: 1M (A01) / 2M (A02) / 5M (A05) / 10M (A10)

- PU: 1M (B01) / 2M (B02) / 5M (B05) / 10M (B10)

- PVC(UL2517 Black): 1M (D01) / 2M (D02) / 5M (D05) / 10M (D10)

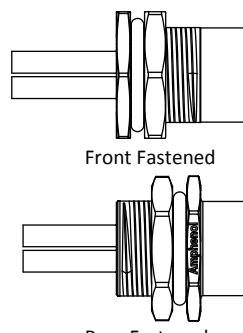

[Notes] Design and specification are subject to change without notice.

∟ **M12 S-Coded (Metal Nut)**  
 > Receptacle with Wire Harness  
 > Male Connector

|  <p>Front Fastened</p> <p>Rear Fastened</p> |                 |  |
|--|-----------------|---|
| Backshell: Hexagonal   |                 |   |
| Wire Length (UL 1015)*   | Mounting Thread | 12A/630V  |
| 150mm  | PG9             | M12S-04PMMS-S 8B15  |
|  | M16.0           | M12S-04PMMS-S 8C15  |
| 300mm  | PG9             | M12S-04PMMS-S 8B30  |
|  | M16.0           | M12S-04PMMS-S 8C30  |
| 500mm  | PG9             | M12S-04PMMS-S 8B50  |
|  | M16.0           | M12S-04PMMS-S 8C50  |
| 1000mm   | PG9             | M12S-04PMMS-S 8BA0  |
|  | M16.0           | M12S-04PMMS-S 8CA0  |
| 1500mm   | PG9             | M12S-04PMMS-S 8BA5  |
|  | M16.0           | M12S-04PMMS-S 8CA5  |

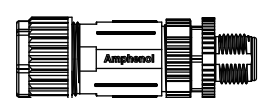

8 Front Fastened (F) or Rear Fastened (H)  
 \* Other wire types are available upon request.

∟ **M12 S-Coded (Metal Nut)**  
 > Receptacle with Wire Harness  
 > Female Connector



|  <p>Front Fastened</p> <p>Rear Fastened</p> |                 |  |
|---|-----------------|---|
| Backshell: Hexagonal  |                 |   |
| Wire Length (UL 1015)*  | Mounting Thread | 12A/630V  |
| 150mm   | PG9             | M12S-04PFFS-S 8B15  |
|   | M16.0           | M12S-04PFFS-S 8C15  |
| 300mm   | PG9             | M12S-04PFFS-S 8B30  |
|   | M16.0           | M12S-04PFFS-S 8C30  |
| 500mm   | PG9             | M12S-04PFFS-S 8B50  |
|   | M16.0           | M12S-04PFFS-S 8C50  |
| 1000mm  | PG9             | M12S-04PFFS-S 8BA0  |
|   | M16.0           | M12S-04PFFS-S 8CA0  |
| 1500mm  | PG9             | M12S-04PFFS-S 8BA5  |
|   | M16.0           | M12S-04PFFS-S 8CA5  |

8 Front Fastened (F) or Rear Fastened (H)  
 \* Other wire types are available upon request.

∟ **M12 S-Coded (Metal Nut)**  
 > Field Installable  
 > Male Connector

|  <p>Straight</p> |              |  |
|---|--------------|---|
| Type  | Contact Type | 12A/630V  |
| Without Strain Relief   | Screw Type   | M12S-04BMMB-SL7002  |

∟ **M12 S-Coded (Metal Nut)**  
 > Field Installable  
 > Female Connector

|  <p>Straight</p> |              |  |
|--|--------------|---|
| Type   | Contact Type | 12A/630V  |
| Without Strain Relief  | Screw Type   | M12S-04BFFB-SL7002  |

**M12 S-Coded (Plastic) | M12 T-Coded (Metal Nut)**

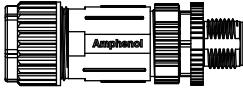

Field Installable > Male / Female Connector |

Receptacle with Wire Harness > Male / Female Connector

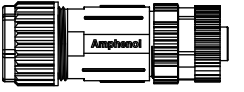

**IP 65 . 67 . 68**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

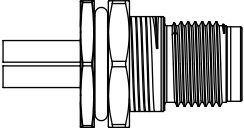
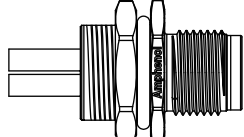

∟ **M12 S-Coded (Plastic)**  
 > **Field Installable**  
 > **Male Connector**

|   |              |   |
|---|--------------|---|
|  <p style="text-align: center;">Straight</p> |              |  |
| Type  | Contact Type | 12A/630V  |
| Without Strain Relief   | Screw Type   | MSSP-04BMMB-SL7002  |

∟ **M12 S-Coded (Plastic)**  
 > **Field Installable**  
 > **Female Connector**

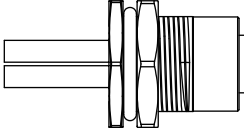
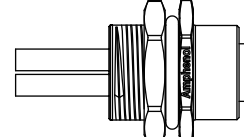

|  |              |   |
|--|--------------|---|
|  <p style="text-align: center;">Straight</p> |              |  |
| Type   | Contact Type | 12A/630V  |
| Without Strain Relief  | Screw Type   | MSSP-04BMMB-SL7002  |

∟ **M12 T-Coded (Metal Nut)**  
 > **Receptacle with Wire Harness**  
 > **Male Connector**

|   |                 |   |
|---|-----------------|---|
|  <p style="text-align: center;">Front Fastened</p>  <p style="text-align: center;">Rear Fastened</p> |                 |  |
| Backshell: Hexagonal  |                 |   |
| Wire Length (UL1015)*   | Mounting Thread | 12A/630V  |
| 150mm   | PG9             | M12T-04PMMS-S 8 8B15  |
|   | M16.0           | M12T-04PMMS-S 8 8C15  |
| 300mm   | PG9             | M12T-04PMMS-S 8 8B30  |
|   | M16.0           | M12T-04PMMS-S 8 8C30  |
| 500mm   | PG9             | M12T-04PMMS-S 8 8B50  |
|   | M16.0           | M12T-04PMMS-S 8 8C50  |
| 1000mm  | PG9             | M12T-04PMMS-S 8 8BA0  |
|   | M16.0           | M12T-04PMMS-S 8 8CA0  |
| 1500mm  | PG9             | M12T-04PMMS-S 8 8BA5  |
|   | M16.0           | M12T-04PMMS-S 8 8CA5  |

8 Front Fastened (F) or Rear Fastened (H)  
 \* Other wire types are available upon request.

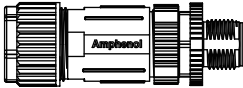

∟ **M12 T-Coded (Metal Nut)**  
 > **Receptacle with Wire Harness**  
 > **Female Connector**

|   |                 |   |
|---|-----------------|---|
|  <p style="text-align: center;">Front Fastened</p>  <p style="text-align: center;">Rear Fastened</p> |                 |  |
| Backshell: Hexagonal  |                 |   |
| Wire Length (UL1015)*   | Mounting Thread | 12A/630V  |
| 150mm   | PG9             | M12T-04PFFS-S 8 8B15  |
|   | M16.0           | M12T-04PFFS-S 8 8C15  |
| 300mm   | PG9             | M12T-04PFFS-S 8 8B30  |
|   | M16.0           | M12T-04PFFS-S 8 8C30  |
| 500mm   | PG9             | M12T-04PFFS-S 8 8B50  |
|   | M16.0           | M12T-04PFFS-S 8 8C50  |
| 1000mm  | PG9             | M12T-04PFFS-S 8 8BA0  |
|   | M16.0           | M12T-04PFFS-S 8 8CA0  |
| 1500mm  | PG9             | M12T-04PFFS-S 8 8BA5  |
|   | M16.0           | M12T-04PFFS-S 8 8CA5  |

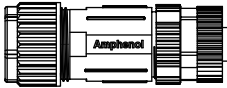

8 Front Fastened (F) or Rear Fastened (H)  
 \* Other wire types are available upon request.

[Notes] Design and specification are subject to change without notice.



∟ **M12 T-Coded (Metal Nut)**  
 > **Field Installable**  
 > **Male Connector**

|   |              |   |
|---|--------------|---|
|  |              |  |
| Straight  |              |   |
| Type  | Contact Type | 12A/630V  |
| Without Strain Relief   | Screw Type   | M12T-04BMMB-SL7002  |

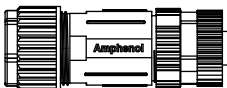

∟ **M12 T-Coded (Metal Nut)**  
 > **Field Installable**  
 > **Female Connector**

|  |              |   |
|--|--------------|---|
|  |              |  |
| Straight   |              |   |
| Type   | Contact Type | 12A/630V  |
| Without Strain Relief  | Screw Type   | M12T-04BFFB-SL7002  |

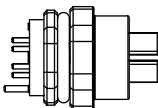

∟ **M12 T-Coded (Plastic)**  
 > **Field Installable**  
 > **Male Connector**

|  |              |  |
|--|--------------|--|
|  |              |  |
| Straight   |              |  |
| Type   | Contact Type | 12A/630V   |
| Without Strain Relief  | Screw Type   | MSTP-04BMMB-SL7002   |

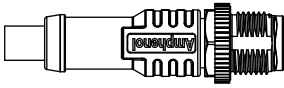

∟ **M12 T-Coded (Plastic)**  
 > **Field Installable**  
 > **Female Connector**

|   |              |  |
|---|--------------|--|
|  |              |  |
| Straight  |              |  |
| Type  | Contact Type | 12A/630V   |
| Without Strain Relief   | Screw Type   | MSTP-04BFFB-SL7002   |

∟ **M12 X-Coded (Shielded)**  
 > **Receptacle**  
 > **Female Connector**

|   |                 |   |
|---|-----------------|---|
|  |                 |  |
| Front Fastened  |                 |   |
| Type  | Mounting Thread | 0.5A/48V  |
| PCB Pin (180°)  | M12             | MSXS-08PFFP-SF7001  |

∟ **M12 X-Coded (Shielded)**  
 > **Overmolded with Cable**  
 > **Male Connector**

|  |                        |   |
|--|------------------------|---|
|  |                        |  |
| Straight   |                        |   |
| Type   | 0.5A/48V               |   |
| Without Strain Relief  | MSXS-08BMMM-SL8XXX*    |   |
| Double ended cable   | MSXS8ML-SXSML-SGXXXX** |   |

\* XXX: Choose the cable length:  
 1M (X01) / 2M (X02) / 5M (X05) / 10M (X10)  
 \*\* XXXX: Choose the cable length  
 1M (G010) / 2M (G020) / 5M (G050) / 10M (G100)



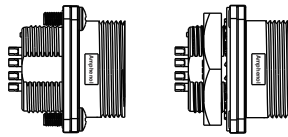
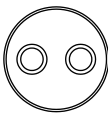

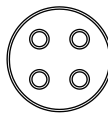
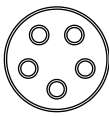
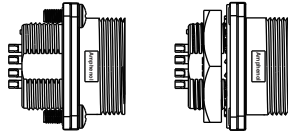
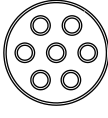
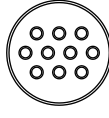
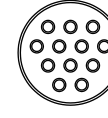
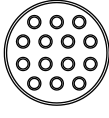
Heavy Duty Shielded Connector

Receptacle > Male Connector

IP 65 . 67 . 68

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

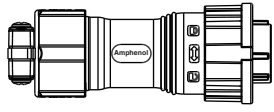
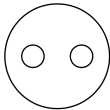
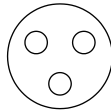
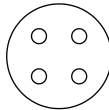
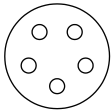
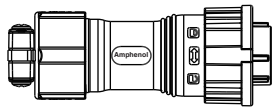
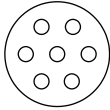
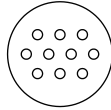
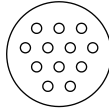
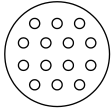
∟ Heavy Duty Shielded Connector > Receptacle > Male Connector

| <br>Front Fastened      Rear Fastened<br>Backshell: Square<br>Mating style: Screw Thread<br>Fastened Screw: M3*4 pics<br>Mounting Thread: M20  |                     |                 |    |    |    |    |  |
|---|---------------------|-----------------|---|---|--|---|--|
| Current Rating & Voltage  | Contact Type        | Salt Spray Test |   |   |  |   |  |
| 5A/250V   | Solder Pin / Female | 48H             | -   | -   | -  | -   |  |
|   |                     | 500H            | -   | -   | -  | -   |  |
| 10A/250V  |                     | 48H             | -   | -   | LB20-04PMFS-S 8 8001   | LB20-05PMFS-S 8 8001  |  |
|   |                     | 500H            | -   | -   | HB20-04PMFS-S 8 8001   | HB20-05PMFS-S 8 8001  |  |
| 20A/300V  |                     | 48H             | LC20-02PMFS-S 8 8001  | LC20-03PMFS-S 8 8001  | -  | -   |  |
|   |                     | 500H            | HC20-02PMFS-S 8 8001  | HC20-03PMFS-S 8 8001  | -  | -   |  |
| <br>Front Fastened      Rear Fastened<br>Backshell: Square<br>Mating style: Screw Thread<br>Fastened Screw: M3*4 pics<br>Mounting Thread: M20 |                     |                 |  |  |  |  |  |
| Current Rating & Voltage  |                     | Contact Type    | Salt Spray Test   |   |  |   |  |
| 5A/250V   | Solder Pin / Female | 48H             | -   | LD20-10PMFS-S 8 8001  | LD20-12PMFS-S 8 8001   | LD20-14PMFS-S 8 8001  |  |
|   |                     | 500H            | -   | HD20-10PMFS-S 8 8001  | HD20-12PMFS-S 8 8001   | HD20-14PMFS-S 8 8001  |  |
| 10A/250V  |                     | 48H             | LB20-07PMFS-S 8 8001  | -   | -  | -   |  |
|   |                     | 500H            | HB20-07PMFS-S 8 8001  | -   | -  | -   |  |
| 20A/300V  |                     | 48H             | -   | -   | -  | -   |  |
|   |                     | 500H            | -   | -   | -  | -   |  |

8 Front Fastened (W) or Rear Fastened (N)

[Notes] Design and specification are subject to change without notice.

➤ **Heavy Duty Shielded Connector > Field Installable > Female Connector (Housing)**

|  <p style="text-align: center;">Straight</p>  |                    |                 |  |  |  |  |
|--|--------------------|-----------------|---|---|--|---|
| Without Strain Relief  |                    |                 |   |   |  |   |
| Current Rating & Voltage   | Contact Type       | Salt Spray Test |   |   |  |   |
| 5A/250V  | Solder Type / Male | 48H             | -   | -   | -  | -   |
|  |                    | 500H            | -   | -   | -  | -   |
| 10A/250V   | Solder Type / Male | 48H             | -   | -   | LB20-04BFMA-SL8001   | LB20-05BFMA-SL8001  |
|  |                    | 500H            | -   | -   | HB20-04BFMA-SL8001   | HB20-05BFMA-SL8001  |
| 20A/300V   | Solder Type / Male | 48H             | LC20-02BFMA-SL8001  | LC20-03BFMA-SL8001  | -  | -   |
|  |                    | 500H            | HC20-02BFMA-SL8001  | HC20-03BFMA-SL8001  | -  | -   |
|  <p style="text-align: center;">Straight</p> |                    |                 |  |  |  |  |
| Without Strain Relief  |                    |                 |   |   |  |   |
| Current Rating & Voltage   | Contact Type       | Salt Spray Test |   |   |  |   |
| 5A/250V  | Solder Type / Male | 48H             | -   | LD20-10BFMA-SL8001  | LD20-12BFMA-SL8001   | LD20-14BFMA-SL8001  |
|  |                    | 500H            | -   | HD20-10BFMA-SL8001  | HD20-12BFMA-SL8001   | HD20-14BFMA-SL8001  |
| 10A/250V   | Solder Type / Male | 48H             | LB20-07BFMA-SL8001  | -   | -  | -   |
|  |                    | 500H            | HB20-07BFMA-SL8001  | -   | -  | -   |
| 20A/300V   | Solder Type / Male | 48H             | -   | -   | -  | -   |
|  |                    | 500H            | -   | -   | -  | -   |

**M23 (Shielded)**

Receptacle (Field Installable Type) > Male Connector (Housing) |  
Field Installable > Female Connector (Housing)

- ∟ **M23 (Shielded)**
- > **Receptacle (Field Installable Type)**
- > **Male Connector (Housing)**

|                      |                |                    |  |
|----------------------|----------------|--------------------|--|
|                      |                |                    |  |
| Front Fastened       |                |                    |  |
| Backshell: Hexagonal |                |                    |  |
| Type                 | Contact Gender | 28A/100V           |  |
| Crimp Pin            | Male           | LJ23-06PMMC-SF7001 |  |
|                      |                | LJ23-06PMMC-SF7002 |  |

- ∟ **M23 (Shielded)**
- > **Receptacle (Field Installable Type)**
- > **Male Connector (Housing)**

|                      |                |                    |  |
|----------------------|----------------|--------------------|--|
|                      |                |                    |  |
| Front Fastened       |                |                    |  |
| Backshell: Hexagonal |                |                    |  |
| Type                 | Contact Gender | 28A/100V           |  |
| Crimp Pin            | Female         | LJ23-06PMFC-SF7001 |  |
|                      |                | LJ23-06PMFC-SF7002 |  |

- ∟ **M23 (Shielded)**
- > **Field Installable**
- > **Female Connector (Housing)**

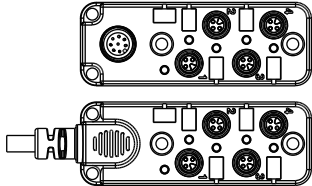
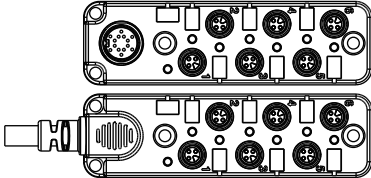
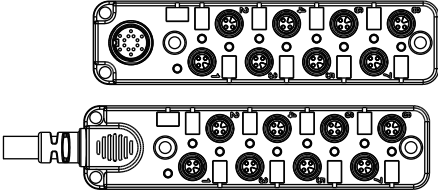
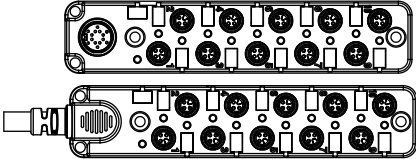
|                       |              |                |                    |  |
|-----------------------|--------------|----------------|--------------------|--|
|                       |              |                |                    |  |
| Front Fastened        |              |                |                    |  |
| Type                  | Contact Type | Contact Gender | 12A/630V           |  |
| Without Strain Relief | Crimp Pin    | Male           | LJ23-06DFMC-SL7001 |  |
|                       |              |                | LJ23-06DFMC-SL7002 |  |

- ∟ **M23 (Shielded)**
- > **Field Installable**
- > **Female Connector (Housing)**

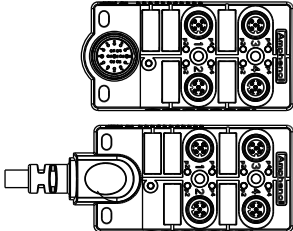
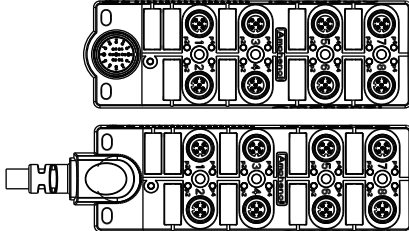
|                       |              |                |                    |  |
|-----------------------|--------------|----------------|--------------------|--|
|                       |              |                |                    |  |
| Front Fastened        |              |                |                    |  |
| Type                  | Contact Type | Contact Gender | 12A/630V           |  |
| Without Strain Relief | Crimp Pin    | Female         | LJ23-06DFFC-SL7001 |  |
|                       |              |                | LJ23-06DFFC-SL7002 |  |

[Notes] Design and specification are subject to change without notice.

∨ M8 Distribution Box > M12 / M16 Homerun

|                 |   |  |
|-----------------|---|--|
|                 |  |  |
| No of Port Type | 4 Port  | 6 Port   |
| Without cable   | DB8-3A4M12-SPS7001  | DB8-3A6M16-SPS7001   |
| With cable      | DB8-3A4CAB-SPS7BXX*   | DB8-3A6CAB-SPS7BXX*  |
|                 |  |  |
| No of Port Type | 8 Port  | 10 Port  |
| Without cable   | DB8-3A8M16-SPS7001  | DB8-3A10M16-SPS7001  |
| With cable      | DB8-3A8CAB-SPS7BXX*   | DB8-3A10CAB-SPS7BXX*   |

∨ M12 Distribution Box > M23 Homerun

|                 |   |  |
|-----------------|---|--|
|                 |  |  |
| No of Port Type | 4 Port  | 8 Port   |
| Without cable   | DB12-5A4M23-DPS7001   | DB12-5A8M23-DPS7001  |
| With cable      | DB12-5A4CAB-DPS7BXX*  | DB8-3A6CAB-SPS7BXX*  |

## Accessories

### Waterproof Cap

■ Customized – Upon Request

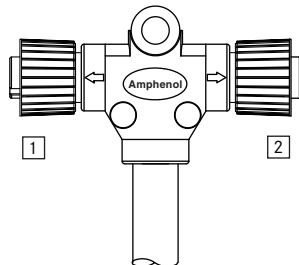
| Size          | Mating Pair                          | Mating Style | Mating Pair (Gender) | P/N                       |
|---------------|--------------------------------------|--------------|----------------------|---------------------------|
| M8            | Overmolded with Cable                | Screw Thread | Female               | CAP-WBBFSCC1              |
|               | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBBMSMA1              |
|               |                                      |              | Female               | CAP-WBBFSMA1              |
| M10.5         | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBCMSMA2              |
| M12           | Receptacle                           | Screw Thread | Male                 | CAP-WBDMSPB <sup>7</sup>  |
|               | Receptacle and Overmolded with Cable |              | Male                 | CAP-WBDMMSMA <sup>7</sup> |
|               |                                      |              | Female               | CAP-WBDFMSMA <sup>7</sup> |
| M12 (Plastic) | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBDMMSMA <sup>7</sup> |
|               |                                      |              | Female               | CAP-WBDFMSMA <sup>7</sup> |
| M22           | Receptacle                           | Screw Thread | Male                 | CAP-WHBMSPD1              |
| M23           | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBHMSMA1              |

<sup>7</sup> Choose plastic (1) or metal (2)

【Note】 Design and specification are subject to change without notice.

∨ M12 > T-Cable

■ Customized - Upon Request



Choose Connector / Contacts Gender:

- 6 For connector 1
- 7 For connector 2

A/B/D Code

M: Male + Male

F: Female + Female

I Style

K: Connector (Male) + Contact (Male+Female)

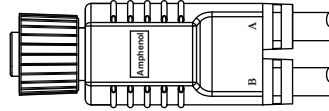
Z: Connector (Female) + Contact (Male+Female)

\*XX: Choose the cable length:01-99 m / PVC UL2464 Cable

| Type             | Current Rating | Contacts<br>2 | Mating Style | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options          |                          |
|------------------|----------------|---------------|--------------|---|---|-----------------------|--------------------------|
|                  |                |               |              | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                       |                          |
| M12              | A Code         | 4A            | 03,04,05     | Screw Thread                                    | SS- 2 3 00-MM0-TSAXX*                               | SS- 2 3 00-FF0-TSAXX* | SS- 2 3 00- 6 7 0-TSAXX* |
|                  |                | 2A            | 08           |   | SS-080800-MM0-TSAXX*                                | SS-080800-FF0-TSAXX*  | SS-080800- 6 7 0-TSAXX*  |
|                  | B Code         | 4A            | 04,05        |   | SB- 2 3 00-MM0-TSAXX*                               | SB- 2 3 00-FF0-TSAXX* | SB- 2 3 00- 6 7 0-TSAXX* |
|                  | D Code         | 4A            | 04,05        |   | SD- 2 3 00-MM0-TSAXX*                               | SD- 2 3 00-FF0-TSAXX* | SD- 2 3 00- 6 7 0-TSAXX* |
|                  | I Style        | 4A            | 05           |   | SI-050500-KK0-TSAXX*                                | SI-050500-ZZ0-TSAXX*  | SI-050500- 6 7 0-TSAXX*  |
| M12<br>(Plastic) | A Code         | 4A            | 03,04,05     | Screw Thread                                    | PS- 2 3 00-MM0-TSAXX*                               | PS- 2 3 00-FF0-TSAXX* | PS- 2 3 00- 6 7 0-TSAXX* |
|                  |                | 2A            | 08           |   | PS-080800-MM0-TSAXX*                                | PS-080800-FF0-TSAXX*  | PS-080800- 6 7 0-TSAXX*  |
|                  | B Code         | 4A            | 04,05        |   | PB- 2 3 00-MM0-TSAXX*                               | PB- 2 3 00-FF0-TSAXX* | PB- 2 3 00- 6 7 0-TSAXX* |
|                  | D Code         | 4A            | 04,05        |   | PD- 2 3 00-MM0-TSAXX*                               | PD- 2 3 00-FF0-TSAXX* | PD- 2 3 00- 6 7 0-TSAXX* |
|                  | I Style        | 4A            | 05           |   | PI-050500-KK0-TSAXX*                                | PI-050500-ZZ0-TSAXX*  | PI-050500- 6 7 0-TSAXX*  |

∟ M12 > Y-Cable

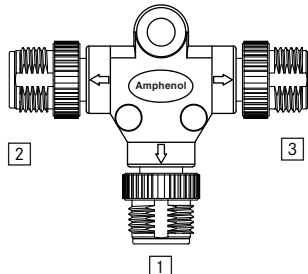
■ Customized - Upon Request



\*XX: Choose the cable length:01-99 m / PVC UL2464 Cable

| Type |         | Current Rating | Contacts<br>② | Mating Style | Connector<br>(Male Connector / Male Contacts) | Connector<br>(Female Connector / Female Contacts) |
|------|---------|----------------|---------------|--------------|---|---|
| M12  | A Code  | 4A             | 03,04,05      | Screw Thread | SS- ② 0000-M00-YSB*                           | SS- ② 0000-F00-YSB*                               |
|      |         | 2A             | 08            | Screw Thread | SS-080000-M00-YSB*                            | SS-080000-F00-YSB*                                |
|      | B Code  | 4A             | 04,05         | Screw Thread | SB- ② 0000-M00-YSB*                           | SB- ② 0000-F00-YSB*                               |
|      | D Code  | 4A             | 04,05         | Screw Thread | SD- ② 0000-M00-YSB*                           | SD- ② 0000-F00-YSB*                               |
|      | I Style | 4A             | 05            | Screw Thread | SI-050000-K00-YSB*                            | SI-050000-Z00-YSB*                                |

➤ M12 > T-Adaptor

| <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">■ Customized – Upon Request</div>  </div> |                |               |              |   | <p>Choose Connector / Contacts Gender:</p> <ul style="list-style-type: none"> <li>5 For connector 1</li> <li>6 For connector 2</li> <li>7 For connector 3</li> </ul> <p><u>A/B/D Code</u><br/> M: Male + Male<br/> F: Female + Female</p> <p><u>I Style</u><br/> K: Connector (Male) + Contact (Male+Female)<br/> Z: Connector (Female) + Contact (Male+Female)</p> |                      |                          |
|---|----------------|---------------|--------------|---|---|----------------------|--------------------------|
| Type  | Current Rating | Contacts<br>2 | Mating Style | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts)   | More options         |                          |
|   |                |               |              | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts)   |                      |                          |
|   |                |               |              | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Female Connector / Female Contacts)   |                      |                          |
| M12   | A Code         | 4A            | 03,04,05     | Screw Thread                                    | SS- 2 2 2 -MMM-TS001  | SS- 2 2 2 -FFF-TS001 | SS- 2 2 2 - 5 6 7 -TS001 |
|   |                | 2A            | 08           | Screw Thread                                    | SS-080808-MMM-TS001   | SS-080808-FFF-TS001  | SS-080808- 5 6 7 -TS001  |
|   | B Code         | 4A            | 04,05        | Screw Thread                                    | SB- 2 2 2 -MMM-TS001  | SB- 2 2 2 -FFF-TS001 | SB- 2 2 2 - 5 6 7 -TS001 |
|   | D Code         | 4A            | 04,05        | Screw Thread                                    | SD- 2 2 2 -MMM-TS001  | SD- 2 2 2 -FFF-TS001 | SD- 2 2 2 - 5 6 7 -TS001 |
|   | I Style        | 4A            | 05           | Screw Thread                                    | SI-050505-KKK-TS001   | SI-050505-ZZZ-TS001  | SI-050505- 5 6 7 -TS001  |
| M12<br>(Plastic)  | A Code         | 4A            | 03,04,05     | Screw Thread                                    | PS- 2 2 2 -MMM-TS001  | PS- 2 2 2 -FFF-TS001 | PS- 2 2 2 - 5 6 7 -TS001 |
|   |                | 2A            | 08           | Screw Thread                                    | PS-080808-MMM-TS001   | PS-080808-FFF-TS001  | PS-080808- 5 6 7 -TS001  |
|   | B Code         | 4A            | 04,05        | Screw Thread                                    | PB- 2 2 2 -MMM-TS001  | PB- 2 2 2 -FFF-TS001 | PB- 2 2 2 - 5 6 7 -TS001 |
|   | D Code         | 4A            | 04,05        | Screw Thread                                    | PD- 2 2 2 -MMM-TS001  | PD- 2 2 2 -FFF-TS001 | PD- 2 2 2 - 5 6 7 -TS001 |
|   | I Style        | 4A            | 05           | Screw Thread                                    | PI-050505-KKK-TS001   | PI-050505-ZZZ-TS001  | PI-050505- 5 6 7 -TS001  |



➤ M12 > Y-Adaptor

| <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: #ccc; margin-right: 5px;"></div> <span>Customized - Upon Request</span> </div> |                |   |              |   |  |  | <p>Choose Connector / Contacts Gender:</p> <ul style="list-style-type: none"> <li><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> For connector 1</li> <li><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> For connector 2</li> <li><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> For connector 3</li> </ul> <p><u>A/B/D Code</u><br/> M: Male + Male<br/> F: Female + Female</p> <p><u>I Style</u><br/> K: Connector (Male) + Contact (Male+Female)<br/> Z: Connector (Female) + Contact (Male+Female)</p> |  |  |
|---|----------------|---|--------------|---|--|--|---|--|--|
| Type  | Current Rating | Contacts<br><span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> | Mating Style | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts)  | More options   |   |  |  |
|   |                |   |              | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts)  |  |   |  |  |
|   |                |   |              | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Female Connector / Female Contacts)  |  |   |  |  |
| M12   | A Code         | 4A  | 03,04,05     | Screw Thread                                    | SS- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -MMM-YS001 | SS- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -FFF-YS001 | SS- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> - <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001  |  |  |
|   |                | 2A  | 08           | Screw Thread                                    | SS-080808-MMM-YS001  | SS-080808-FFF-YS001  | SS-080808- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001   |  |  |
|   | B Code         | 4A  | 04,05        | Screw Thread                                    | SB- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -MMM-YS001 | SB- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -FFF-YS001 | SB- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> - <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001  |  |  |
|   | D Code         | 4A  | 04,05        | Screw Thread                                    | SD- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -MMM-YS001 | SD- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -FFF-YS001 | SD- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> - <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001  |  |  |
|   | I Style        | 4A  | 05           | Screw Thread                                    | SI-050505-KKK-YS001  | SI-050505-ZZZ-YS001  | SI-050505- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001   |  |  |
| M12<br>(Plastic)  | A Code         | 4A  | 03,04,05     | Screw Thread                                    | PS- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -MMM-YS001 | PS- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -FFF-YS001 | PS- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> - <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001  |  |  |
|   |                | 2A  | 08           | Screw Thread                                    | PS-080808-MMM-YS001  | PS-080808-FFF-YS001  | PS-080808- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001   |  |  |
|   | B Code         | 4A  | 04,05        | Screw Thread                                    | PB- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -MMM-YS001 | PB- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -FFF-YS001 | PB- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> - <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001  |  |  |
|   | D Code         | 4A  | 04,05        | Screw Thread                                    | PD- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -MMM-YS001 | PD- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> -FFF-YS001 | PD- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> - <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001  |  |  |
|   | I Style        | 4A  | 05           | Screw Thread                                    | PI-050505-KKK-YS001  | PI-050505-ZZZ-YS001  | PI-050505- <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> -YS001   |  |  |

### ∟ M12 > I-Adaptor

Customized - Upon Request

Choose Connector / Contacts Gender:

- 6 For connector 1
- 7 For connector 2

A/B/D Code  
M: Male + Male  
F: Female + Female  
I Style  
K: Connector (Male) + Contact (Male+Female)  
Z: Connector (Female) + Contact (Male+Female)

| Type             |         | Current Rating | Contacts<br><span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> | Mating Style | Connector 1<br>(Male Connector / Male Contacts)  | Connector 1<br>(Female Connector / Female Contacts)  | More options  |
|------------------|---------|----------------|---|--------------|--|--|---|
|                  |         |                |   |              | Connector 2<br>(Male Connector / Male Contacts)  | Connector 2<br>(Female Connector / Female Contacts)  |   |
| M12              | A Code  | 4A             | 03,04,05  | Screw Thread | SS-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0MM-IS001 | SS-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0FF-IS001 | SS-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001 |
|                  |         | 2A             | 08  | Screw Thread | SS-000808-0MM-IS001  | SS-000808-0FF-IS001  | SS-000808-0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001  |
|                  | B Code  | 4A             | 04,05   | Screw Thread | SB-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0MM-IS001 | SB-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0FF-IS001 | SB-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001 |
|                  | D Code  | 4A             | 04,05   | Screw Thread | SD-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0MM-IS001 | SD-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0FF-IS001 | SD-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001 |
|                  | I Style | 4A             | 05  | Screw Thread | SI-000505-0KK-IS001  | SI-000505-0ZZ-IS001  | SI-000505-0KZ-IS001<br>SI-000505-0ZK-IS001  |
| M12<br>(Plastic) | A Code  | 4A             | 03,04,05  | Screw Thread | PS-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0MM-IS001 | PS-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0FF-IS001 | PS-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001 |
|                  |         | 2A             | 08  | Screw Thread | PS-000808-0MM-IS001  | PS-000808-0FF-IS001  | PS-000808-0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001  |
|                  | B Code  | 4A             | 04,05   | Screw Thread | PB-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0MM-IS001 | PB-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0FF-IS001 | PB-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001 |
|                  | D Code  | 4A             | 04,05   | Screw Thread | PD-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0MM-IS001 | PD-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0FF-IS001 | PD-00 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">3</span> -0 <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">6</span> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">7</span> -IS001 |
|                  | I Style | 4A             | 05  | Screw Thread | PI-000505-0KK-IS001  | PI-000505-0ZZ-IS001  | PI-000505-0KZ-IS001<br>PI-000505-0ZK-IS001  |

**M12**

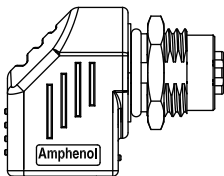
M12 to RJ45 Adaptor | I-Adaptor

**IP 65 . 67 . 68**

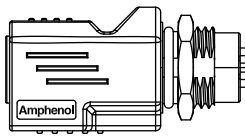
Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

▾ **M12 > M12 to RJ45 Adaptor**

■ Customized - Upon Request



Right Angle

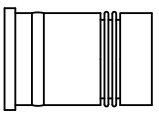


Straight

| Connector 1 |          |                            |                       |              | Connector 2    |        | P/ N                                     |
|-------------|----------|----------------------------|-----------------------|--------------|----------------|--------|--|
| Type        | Contacts | Gender (Housing / Contact) | Connector Body        | Mating Style | Type           | Gender |  |
| M 12 D Code | 04       | FF                         | Right Angle or Straig | Screw Thread | RJ 45 Shielded | Jack   | RJS-12D04FF-RS8001<br>RJS-12D04FF-LS8001 |
|             |          | MM                         |                       |              |                |        | RJS-12D04FM-RS8001<br>RJS-12D04FM-LS8001 |

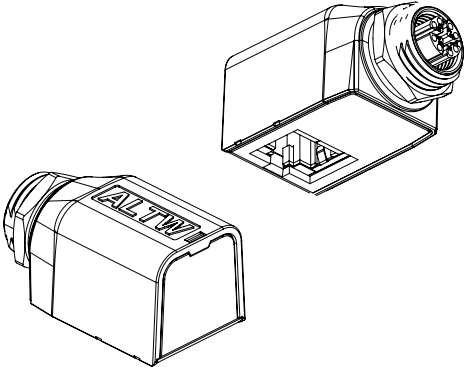
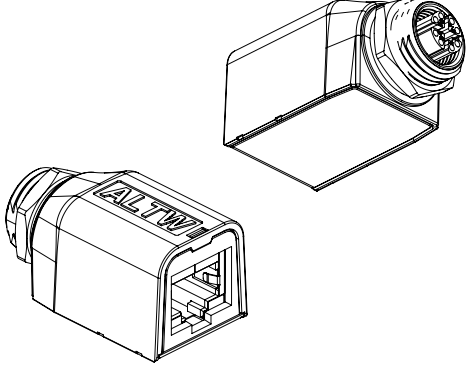
▾ **M12 > Insert**

■ Customized - Upon Request



| Type <sup>2</sup> | Contacts <sup>3</sup> | P/N                                |
|-------------------|-----------------------|------------------------------------|
| M 12 A Code(A)    | 004,005,008           | SLD- <sup>2</sup> <sup>3</sup> 001 |
| M 12 B Code(B)    | 004,005               |                                    |
| M 12 D Code(D)    | 004,005               |                                    |
| M 12 I Style(I)   | 0'05                  |                                    |

↳ M12 > M12 to RJ45 Adaptor

|  <p style="text-align: center;"><b>Angled</b></p> |          |                             |                          |              |  <p style="text-align: center;"><b>Straight</b></p> |        |  |  |  |
|--|----------|-----------------------------|--------------------------|--------------|---|--------|--|--|--|
| Connector 2  |          |                             |                          |              | Connector 2   |        | P/N  |  |  |
| Type   | Contacts | Gender<br>(Housing/Contact) | Connector Body           | Mating Style | Type  | Gender |  |  |  |
| M12 X Code   | 8        | FF                          | Right Angled or Straight | Screw Thread | RJ 45<br>Shielded   | Jack   | Straight: RJS-12X08FF-LS7001<br>Angled: RJS-12X08FF-RS7001 |  |  |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.