



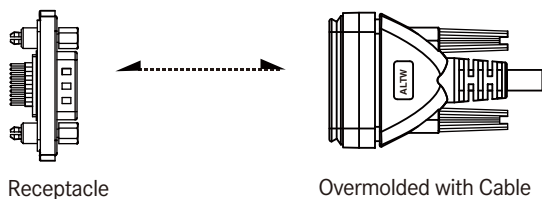
## CATALOGUE

## D-Sub Connector

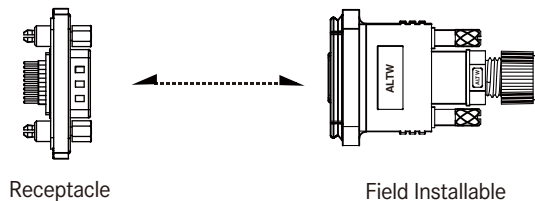


## Range Overview

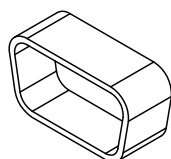
### Receptacle to Overmolded with Cable



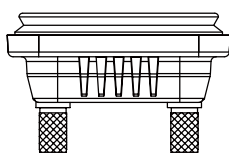
### Receptacle to Field Installable



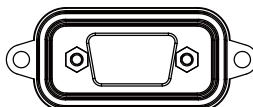
### Accessories



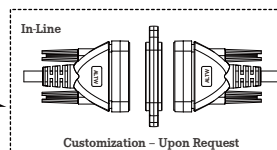
Dust Cap



Waterproof Cap



Joint



# Specification

|                              |                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | Standard D-Sub Connector<br>High Density D-Sub Connector                                                                       |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable<br>Field Installable                                                                       |
| <b>Current Rating / Data</b> | Standard D-Sub: 5A<br>High Density D-Sub: 2A                                                                                   |
| <b>Material</b>              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing): Nylon 9T or PBT, UL Recognized<br>Shell: Steel, Nickel Plated |
| <b>Waterproof Rating</b>     | Receptacle: IP68<br>Overmolded with Cable: IP67<br>Field Installable: IP67                                                     |
| <b>Temperature Range</b>     | Receptacle: -40°C~105°C<br>Overmolded with Cable: -20°C~80°C<br>Field Installable: -40°C~105°C                                 |
| <b>Contact Resistance</b>    | ≤ 20mΩ                                                                                                                         |
| <b>Insulation Resistance</b> | ≥ 500MΩ at DC500V                                                                                                              |
| <b>Durability</b>            | 500 cycles                                                                                                                     |
| <b>Breakdown Voltage</b>     | ≥ AC500V / 1 minute                                                                                                            |
| <b>More to know</b>          | Standard Cable Length: 01~99M                                                                                                  |

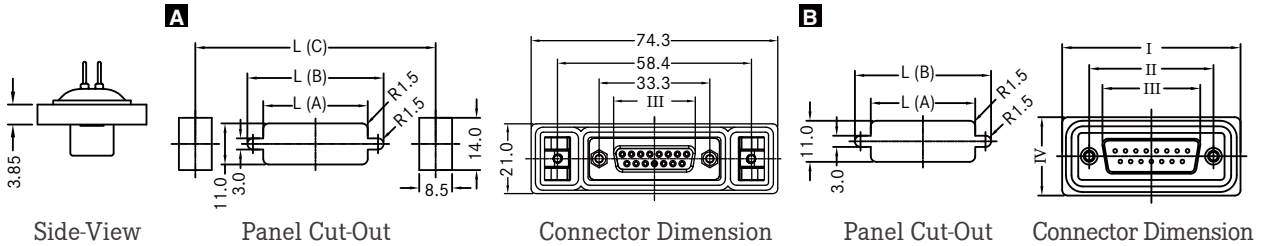
【Note】 Design and specification are subject to change without notice.

# Ordering Information

|                                                                                                                                                                                                                                                                                                                                                                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|----|
| <b>Specification</b><br>> <u>Standard</u><br><b>(SDB)</b> D-SUB<br>> <u>High Density</u><br><b>(HDB)</b> High Density D-SUB                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |   |    |
| <b>Number of Contacts</b><br>09, 15, 25, 26...78 Contacts<br>e.g. 09 Pin =(09)                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |   |    |
| <b>Connector Body (Style)</b><br>> <u>For Receptacle</u><br><b>(P)</b> Front Fastened<br>> <u>For Overmolded with Cable</u><br><b>(A)</b> With Strain Relief<br>> <u>For Field installable</u><br><b>(B)</b> Without Strain Relief                                                                                                                               |   |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender</b><br><b>(M)</b> Male<br><b>(F)</b> Female                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |   |    |
| <b>Contact Gender</b><br><b>(M)</b> Male (Plug)<br><b>(F)</b> Female (Jack)                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b><br>> <u>For Receptacle</u><br><b>(S)</b> Solder Type<br><b>(P)</b> PCB Type (90° / 180°)<br>> <u>For Overmolded with Cable</u><br><b>(M)</b> Overmolded with Cable<br>> <u>For Field Installable</u><br><b>(A)</b> Field Installable (Solder)<br><b>(C)</b> Field Installable (Crimped)                                                    |   |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b><br><b>(S)</b> Screw Thread<br><b>(Q)</b> Automated Latch                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b><br>> <u>For Receptacle</u><br>(With Board Lock)<br><b>(A)</b> Straight<br><b>(B)</b> Right Angle<br>(Without Board Lock)<br><b>(L)</b> Straight<br><b>(R)</b> Right Angle<br>> <u>For Overmolded with Cable</u><br>(Without Board Lock)<br><b>(L)</b> Straight<br>> <u>For Field Installable</u><br>(Without Board Lock)<br><b>(L)</b> Straight |   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b><br><b>(7)</b> IP 67<br><b>(8)</b> IP 68                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |   |    |
| <b>More Information</b><br>> <u>For Receptacle</u><br>(001), (002) .....<br>Without Cable : Different Versions<br>> <u>For Overmolded with Cable</u><br>(□)+(■) : Cable Type + Cable Length<br>e.g. <b>(A01)</b> = UL2464 Cable + 1M<br>(□) : Cable Type<br><b>(A)</b> UL2464 Cable<br>(■) : Cable Length<br>From 1M to 99M<br>e.g. <b>(01)</b> = 1M             |   |   |   |   |   |   |   |   |   |    |

# Physical Dimension

## Receptacle

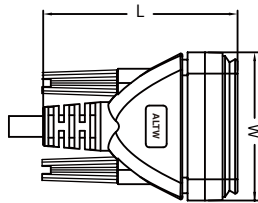


| Dimension          |                |                    | Type          | L (A) | L (B) | L (C) | I      | II    | III    | IV    |
|--------------------|----------------|--------------------|---------------|-------|-------|-------|--------|-------|--------|-------|
| Connector          | Current Rating | Number of Contacts | Female / Male |       |       |       | Female | Male  | Female | Male  |
| Standard D-SUB     | 5A             | 9Pins              | B             | 20.0  | 28.2  | -     | 39.4   | 25.0  | 16.33  | 16.92 |
|                    |                | 15Pins             | A             | 28.0  | 36.5  | 58.4  | -      | -     | 24.66  | 25.25 |
|                    |                | 25Pins             | B             | 28.0  | 36.5  | -     | 47.8   | 33.3  | 24.66  | 25.25 |
|                    |                | 37Pins             | B             | 41.5  | 51.0  | -     | 64.5   | 47.04 | 38.4   | 38.96 |
|                    |                | 50Pins             | B             | 57.9  | 67.8  | -     | 78.4   | 63.5  | 54.8   | 55.4  |
|                    |                | 62Pins             | B             | 55.5  | 65.0  | -     | 75.9   | 61.0  | 52.20  | 52.80 |
| High Density D-SUB | 2A             | 15Pins             | B             | 20.0  | 28.2  | -     | 39.4   | 25.0  | 16.33  | 16.92 |
|                    |                | 26Pins             | A             | 28.0  | 36.5  | 58.4  | -      | -     | 24.66  | 25.25 |
|                    |                | 44Pins             | B             | 28.0  | 36.5  | -     | 47.8   | 33.3  | 24.66  | 25.25 |
|                    |                | 62Pins             | B             | 41.5  | 51.0  | -     | 64.5   | 47.04 | 38.40  | 38.96 |
|                    |                | 78Pins             | B             | 57.9  | 67.8  | -     | 78.4   | 63.5  | 54.8   | 55.4  |
|                    |                | 78Pins             | B             | 55.5  | 65.0  | -     | 75.9   | 61.1  | 52.20  | 52.80 |

\* Maximum Panel Thickness: 2mm

Unit: mm

## Overmolded with Cable

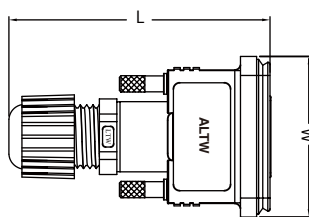


With Strain Relief / Straight

| Dimension          |                |                    | L             | W             |
|--------------------|----------------|--------------------|---------------|---------------|
| Connector          | Current Rating | Number of Contacts | Female / Male | Female / Male |
| Standard D-SUB     | 5A             | 9                  | 55.9          | 42.4          |
|                    |                | 15                 | 53.5          | 50.6          |
|                    |                | 25                 | 60.0          | 64.5          |
|                    |                | 37                 | 69.3          | 81.1          |
|                    |                | 50                 | 71.8          | 79.3          |
| High Density D-SUB | 2A             | 15                 | 55.9          | 42.4          |
|                    |                | 26                 | 53.5          | 50.6          |
|                    |                | 44                 | 60.0          | 64.5          |
|                    |                | 62                 | 69.3          | 81.1          |
|                    |                | 78                 | 71.8          | 79.3          |

Unit: mm

## Field Installable



Without Strain Relief / Straight

| Dimension          |                |                    | L             | W             |
|--------------------|----------------|--------------------|---------------|---------------|
| Connector          | Current Rating | Number of Contacts | Female / Male | Female / Male |
| Standard D-SUB     | 5A             | 9                  | 66.8          | 42.8          |
|                    |                | 15                 | 63.0          | 50.7          |
|                    |                | 25                 | 81.6          | 50.6          |
|                    |                | 37                 | 91.9          | 64.4          |
| High Density D-SUB | 2A             | 15                 | 66.8          | 42.8          |
|                    |                | 26                 | 63.0          | 50.7          |
|                    |                | 44                 | 81.6          | 50.6          |

Unit: mm

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

# Contact Configuration

|               | Standard D-SUB<br>(5A)                                                                     | High Density D-SUB<br>(2A)                                                                   |
|---------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 9Pin<br>(09)  | <br>R C F |                                                                                              |
| 15Pin<br>(15) | <br>R C F | <br>R C F   |
| 25Pin<br>(25) | <br>R C F |                                                                                              |
| 26Pin<br>(26) |                                                                                            | <br>R C F   |
| 37Pin<br>(37) | <br>R C |                                                                                              |
| 44Pin<br>(44) |                                                                                            | <br>R C F |
| 50Pin<br>(50) | <br>R C |                                                                                              |
| 62Pin<br>(62) |                                                                                            | <br>R C   |
| 78Pin<br>(78) |                                                                                            | <br>R C   |

R: Receptacle

C: Overmolded with Cable

F: Field Installable

▲ 2A (HDB)

● 5A (SDB)

1

Number of Contacts :

2

e.g.2 contacts (02)

Connector (Housing) Gender:

4

Male(M) or Female(F)

Contact Gender:

5

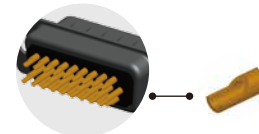
Male(M) or Female(F)

More to Choose:

6

● Solder (S)

- Solder Contact



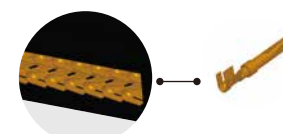
● PCB Type (P)

- 90° PCB

- 180° PCB

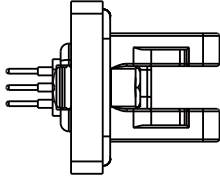


● Crimp type (C)

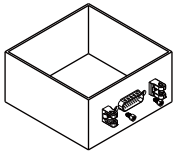


## Product Features

### ≧ Receptacle

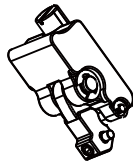


#### Connector Body(Style) ③



Front  
Fastened (P)

#### Mating Style ⑦

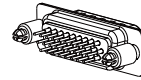


Automated Latch (Q)

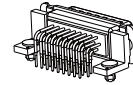


Screw Thread (S)

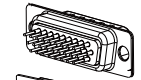
#### Backshell ⑧



(With Board Lock)  
Straight (A)



Right Angle (B)

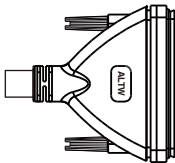


(Without Board Lock)  
Straight (L)

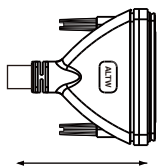


Right Angle (R)

### ≧ Overmolded with Cable



#### Backshell ⑧



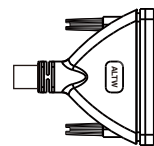
Straight (L)

#### Mating Style ⑦



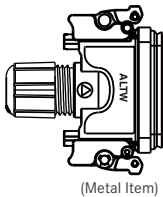
Screw Thread (S)

#### Connector Body(Style) ③



With Strain Relief (A)

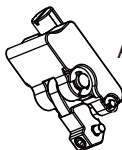
### ≧ Field Installable



(Metal Item)

#### Mating Style ⑦

(Metal Item)



Automated Latch (Q)

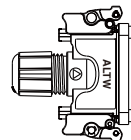
#### Mating Style ⑦

(Plastic Item)



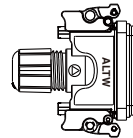
Screw Thread (S)

#### Connector Body(Style) ③



Without Strain Relief (B)

#### Backshell ⑧

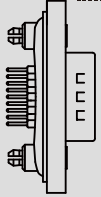
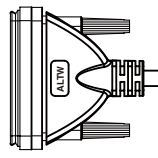
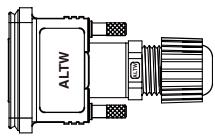


Straight (L)

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

## Find Our Standard Products

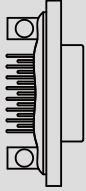
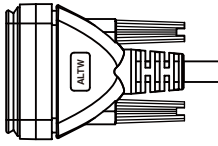
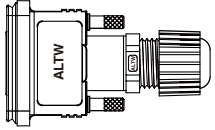
## └ Receptacle and Mating Pair

|                                |                       | <div> <div> <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread</li> <li>• Plastic Connectors</li> </ul> </div> <div> Receptacle  </div> <div> Overmolded with Cable  </div> <div> Field Installable  </div> </div> |                                             |                                                                                                                         |
|--------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)          | Contacts ②            | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Female Connector (F)<br>Female Contacts (F) | Female Connector (F)<br>Female Contacts (F)                                                                             |
| Standard D-SUB<br>5A (SDB)     | 09, 15, 25,<br>37, 50 | SDB-② PMMP-SA8001<br>SDB-② PMMP-SB8001<br>SDB-② PMMP-SL8001<br>SDB-② PMMP-SR8001<br>SDB-② PMMS-SL8001                                                                                                                                                                                                                                                                                                                                                                                                                                   | SDB-② AFFM-SL7AXX*                          | SDB-② BFFA-SL7001<br>SDB-② BFFC-SL7001                                                                                  |
| High Density<br>D-SUB 2A (HDB) | 15, 26, 44,<br>62, 78 | HDB-② PMMP-SA8001<br>HDB-② PMMP-SB8001<br>HDB-② PMMP-SL8001<br>HDB-② PMMP-SR8001<br>HDB-② PMMS-SL8001                                                                                                                                                                                                                                                                                                                                                                                                                                   | HDB-② AFFM-SL7AXX*                          | HDB-② BFFA-SL7001                                                                                                       |
|                                |                       | - PCB 180° with Board Lock :<br>5A (SDB) 09 / 15 / 25 / 37 pins<br>2A (HDB) 15 / 26 / 44 / 62 pins<br>- PCB 90° with Board Lock:<br>5A (SDB) 09 / 15 / 25 pins<br>2A (HDB) 15 / 26 / 44 pin<br>- Solder Type:<br>5A (SDB) 09 / 15 / 25 / 37 / 50 pins<br>2A (HDB) 15 / 26 / 44 / 62 / 78 pins                                                                                                                                                                                                                                           |                                             | - Crimp Pin:<br>5A (SDB) 09 / 15 / 25 pins<br>- Solder Pin:<br>5A (SDB) 09 / 15 / 25 pins<br>2A (HDB) 15 / 26 / 44 pins |

\* XX: Choose the cable length from 01~99



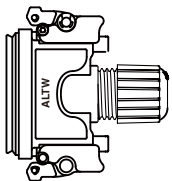
## 2 Receptacle and Mating Pair

| • Female Connector (Housing)<br>• Female Contacts<br>• Screw Thread<br>• Plastic Connectors |                    | Receptacle                                                                                                                                                                                                   | Overmolded with Cable  | Field Installable                    |
|---------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                       | Contacts 2         | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                                                                   | Male Connector (M)<br>Male Contacts (M)                                                                 | Male Connector (M)<br>Male Contacts (M)                                                                                 |
| Standard D-SUB 5A (SDB)                                                                     | 09, 15, 25, 37, 50 | SDB- 2 PFFP-SA800 1<br>SDB- 2 PFFP-SB800 1<br>SDB- 2 PFFP-SL800 1<br>SDB- 2 PFFP-SR800 1<br>SDB- 2 PFFS-SL800 1                                                                                                                                                                               | SDB- 2 AMMM-SL7XX*                                                                                      | SDB- 2 BMMA-SL700 1<br>SDB- 2 BMMA-SL700 1                                                                              |
| High Density D-SUB 2A (HDB)                                                                 | 15, 26, 44, 62, 78 | HDB- 2 PFFP-SA800 1<br>HDB- 2 PFFP-SB800 1<br>HDB- 2 PFFP-SL800 1<br>HDB- 2 PFFP-SR800 1<br>HDB- 2 PFFS-SL800 1                                                                                                                                                                               | HDB- 2 AMMM-SL7AXX*                                                                                     | HDB- 2 BMMA-SL700 1                                                                                                     |
|                                                                                             |                    | - PCB 180° with Board Lock :<br>5A (SDB) 09 / 15 / 25 / 37 pins<br>2A (HDB) 15 / 26 / 44 / 62 pins<br>- PCB 90° with Board Lock:<br>5A (SDB) 09 / 15 / 25 pins<br>2A (HDB) 15 / 26 / 44 pin<br>- Solder Type:<br>5A (SDB) 09 / 15 / 25 / 37 / 50 pins<br>2A (HDB) 15 / 26 / 44 / 62 / 78 pins | -                                                                                                       | - Crimp Pin:<br>5A (SDB) 09 / 15 / 25 pins<br>- Solder Pin:<br>5A (SDB) 09 / 15 / 25 pins<br>2A (HDB) 15 / 26 / 44 pins |

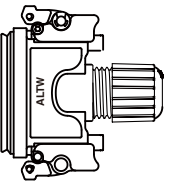
\* XX: Choose the cable length from 01~99

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## Receptacle and Mating Pair

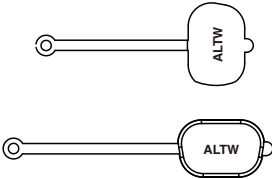
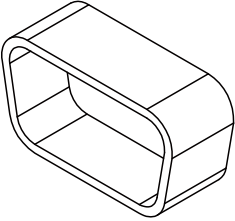
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Automated Latch</li> <li>• Metal Connectors</li> </ul> |          | Receptacle                                                                        | Overmolded with Cable                       | Field Installable                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                              |          |  |                                             |  |
| Current Rating (Code)                                                                                                                                        | Contacts | Male Connector (M)<br>Male Contacts (M)                                           | Female Connector (F)<br>Female Contacts (F) | Female Connector (F)<br>Female Contacts (F)                                         |
| Standard D-SUB 5A (SDB)                                                                                                                                      | 15       | SDB-15PMMP-QA8001<br>SDB-15PMMP-QB8001<br>SDB-15PMMP-QL8001<br>SDB-15PMMS-QL8001  | -                                           | SDB-15BFFA-QL7001                                                                   |
| High Density D-SUB 2A (HDB)                                                                                                                                  | 26       | HDB-26PMMP-QA8001<br>HDB-26PMMP-QB8001<br>HDB-26PMMP-QL8001<br>HDB-26PMMS-QL8001  | -                                           | HDB-26BFFA-QL7001                                                                   |

## Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Automated Latch</li> <li>• Metal Connectors</li> </ul> |          | Receptacle                                                                          | Overmolded with Cable                   | Field Installable                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                                                  |          |  |                                         |  |
| Current Rating (Code)                                                                                                                                            | Contacts | Female Connector (F)<br>Female Contacts (F)                                         | Male Connector (M)<br>Male Contacts (M) | Male Connector (M)<br>Male Contacts (M)                                               |
| Standard D-SUB 5A (SDB)                                                                                                                                          | 15       | SDB-15PFFP-QA8001<br>SDB-15PFFP-QB8001<br>SDB-15PFFP-QL8001<br>SDB-15PFFS-QL8001    | -                                       | SDB-15BMMA-QL7001                                                                     |
| High Density D-SUB 2A (HDB)                                                                                                                                      | 26       | HDB-26PFFP-QA8001<br>HDB-26PFFP-QB8001<br>HDB-26PFFP-QL8001<br>HDB-26PFFS-QL8001    | -                                       | HDB-26BMMA-QL7001                                                                     |

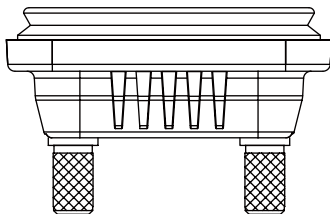
# Accessories

## ▾ Dust Cap

| <div>Customization – Upon Request</div> <div></div> <div>11 Rubber Lead: Vertical type (1) / Horizontal type (2)</div> |                        |                                                                                  |                      |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------|----------------------|----------------|
| Type                                                                                                                                                                                                                                                                                      |                        | Mating Pairs                                                                     | Mating Pair (Gender) | P/N            |
| Standard D-SUB                                                                                                                                                                                                                                                                            | High Density D-SUB     |                                                                                  |                      |                |
| Standard (9 pins)                                                                                                                                                                                                                                                                         | High Density (15 Pins) | Receptacle<br>(With horizontal rubber lead)                                      | Male                 | CAP-DD1MDPC2   |
|                                                                                                                                                                                                                                                                                           |                        | Receptacle and Overmolded with Cable<br>(With horizontal / Vertical rubber lead) |                      | CAP-DD1MDMA1   |
|                                                                                                                                                                                                                                                                                           |                        | Receptacle                                                                       | Female               | CAP-DD1FDPC 11 |
|                                                                                                                                                                                                                                                                                           |                        | Receptacle and Overmolded with Cable                                             |                      | CAP-DD1FDMA1   |
| Standard (15 pins)                                                                                                                                                                                                                                                                        | High Density (26 Pins) | Receptacle and Overmolded with Cable                                             | Male                 | CAP-DD2MDMA1   |
|                                                                                                                                                                                                                                                                                           |                        | Receptacle and Overmolded with Cable                                             | Female               | CAP-DD2FDMA1   |
| Standard (25 pins)                                                                                                                                                                                                                                                                        | High Density (44 Pins) | Receptacle and Overmolded with Cable                                             | Male                 | CAP-DD3MDMA1   |
|                                                                                                                                                                                                                                                                                           |                        | Receptacle<br>(With horizontal rubber lead)                                      | Female               | CAP-DD3FDPC1   |
|                                                                                                                                                                                                                                                                                           |                        | Receptacle and Overmolded with Cable                                             |                      | CAP-DD3FDMA1   |

## Waterproof Cap

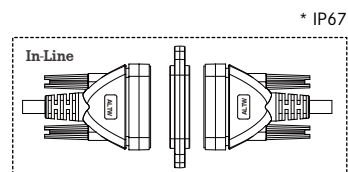
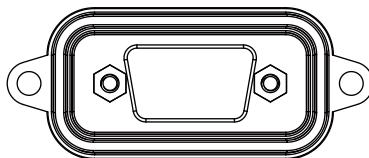
Customization – Upon Request



| Type               |                        | Mating Pairs | Mating Style | Mating Pair (Gender) | P/N          |
|--------------------|------------------------|--------------|--------------|----------------------|--------------|
| Standard D-SUB     | High Density D-SUB     |              |              |                      |              |
| Standard (9 pins)  | High Density (15 Pins) | Receptacle   | Screw Thread | Male & Female        | CAP-WD1CSPA1 |
| Standard (15 pins) | High Density (26 Pins) | Receptacle   | Screw Thread | Male & Female        | CAP-WD2CSPA1 |
| Standard (25 pins) | High Density (44 Pins) | Receptacle   | Screw Thread | Male & Female        | CAP-WD3CSPA1 |

## Joint

Customization – Upon Request



| Type               |                        | Mating Style | P/N               |
|--------------------|------------------------|--------------|-------------------|
| Standard D-SUB     | High Density D-SUB     |              |                   |
| Standard (9 pins)  | High Density (15 Pins) | Screw Thread | DJ1-00JNNA-SL7001 |
| Standard (15 pins) | High Density (26 Pins) | Screw Thread | DJ2-00JNNA-SL7001 |
| Standard (25 pins) | High Density (44 Pins) | Screw Thread | DJ3-00JNNA-SL7001 |

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