Amphenol
Industrial

# Amphenol LTW

Innovation in Waterproof Solution

CATALOGUE

**IP 68**
**Unmated or Mated**

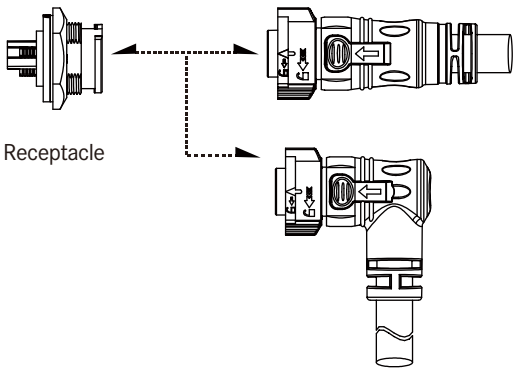
# X-Lok Connector

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

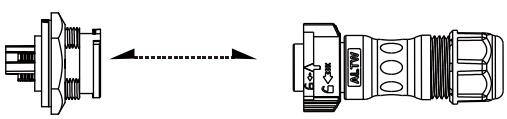
**IP 68**
**Unmated or Mated**

# Range Overview

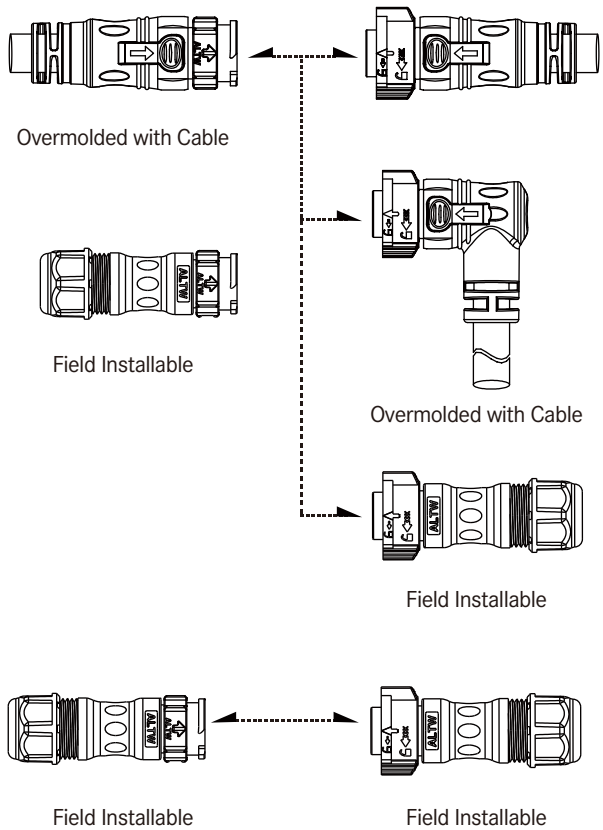
## ↘ Receptacle to Overmolded with Cable



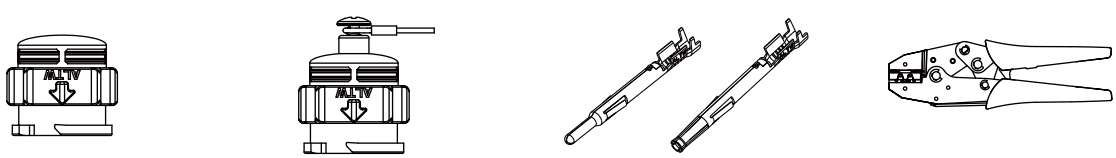

## ↘ Receptacle to Field Installable




## ↘ In-Line




## ↘ Accessories



Waterproof Cap

Waterproof Cap with Fishe Line / Rubber Lead

Contact

Crimp Tool

# Specification

| | |
|---|---|
| **Identifications** | Power Group (B,C,D size)<br>Data Group (B,C,D size)<br>Hybrid Group (B,C,D size) |
| **Mating Style** | Push Lock |
| **Description** | Receptacle<br>Overmolded with Cable<br>Field Installable |
| **Current Rating / Data** | B size (5A, 10A, 10A+5A)<br>C size (5A, 10A, 20A, 10A+5A)<br>D size (5A, 20A, 20A+5A) |
| **Material** | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : Nylon+GF, UL Recognized<br>Gasket & O-ring: Rubber, UL Recognized |
| **Waterproof Rating** | IP68 |
| **Temperature Range** | Receptacle: -40°C~105°C<br>Overmolded With Cable:<br>• Date Group: -20°C~80°C<br>• Power Group: -20°C~105°C<br>• Hybrid Group: -40°C~105°C<br>Field Installable: -40°C~105°C |
| **Contact Resistance** | ≤10mΩ |
| **Insulation Resistance** | ≥100MΩ at DC500V |
| **Durability** | 1000 cycles |
| **Dielectric Withstand Voltage** | 1,000V plus 2 times the rated voltage / 1 minute |
| **More to know** | Standard Cable Length: 01~99M |

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

**IP 68**
**Unmated or Mated**

# Ordering Information

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

**Specification / Current Rating**

| > Standard Size | > Middle Size | > Large Size |
|---|---|---|
| **(BD)** 5A | **(CD)** 5A | **(DD)** 5A |
| **(BB)** 10A | **(CB)** 10A | **(DC)** 20A |
| **(BBD)** 10A+5A | **(CC)** 20A | **(DCD)** 20A+5A |
| | **(CBD)** 10A+5A | |

**Number of Contacts**
02, 03....
e.g. **(02)** = 2 Contacts

**Connector Body (Style)**

| > For Receptacle | > For Overmolded with Cable | > For Field Installable |
|---|---|---|
| **(P)**Front Fastened | **(A)**With Strain Relief | **(B)**With Strain Relief |
| **(R)**Rear Fastened | | |

**Connector (Housing) Gender**
**(M)** Male Connector **(F)** Female Connector

**Contact Gender**
**(M)** Male
**(F)** Female

**Assemble Style**

| > For Receptacle | > For Overmolded with Cable | > For Field Installable |
|---|---|---|
| **(S)** Solder Type | **(M)** Overmolded with Cable | **(A)**Crimp Type |
| **(B)** Screw in Type | | |

**Mating Style**
**(Q)** Push Lock

**Backshell**

| > For Receptacle | > For Overmolded with Cable |
|---|---|
| **(C)** Circular | **(L)** Straight |
| **(S)** Square | **(R)** Right Angle |

**Waterproof Rating**
**(8)** IP68

**More Information**

> For Receptacle
**(001), (002) .....**
For Data Group & Different Versions
**(00P)** For Power Group

> For Overmolded with Cable
(□)+(■) : Cable Type + Cable Length
e.g. **(A01)** = UL2464 Cable + 1M

(□) : Cable Type
**(A)** UL2464 Cable - Upon request
**(D)** UL21388 Cable - Data Group
**(E)** UL SJTW Cable - Power Group
**(F)** UL21996 Cable - Hybrid Group

(■) : Cable Length
From 1M to 99M
e.g. **(01)** = 1M

> For Field Installable
(□)+(■)+(○): Seal Size + Package Options + Application
e.g. **(SN0)** = Seal S + Connector without Contact + for Data Group

(□) : Seal Type
B Size:
**(S)** 5.0~6.0mm
**(M)** 6.0~8.0mm
**(L)** 8.0~10.0mm

C Size:
**(S)** 6.0~8.0mm
**(M)** 8.0~10.0mm
**(L)** 10.0~12.0mm

D Size:
**(S)** 8.0~10.0mm
**(M)** 10.0~12.0mm
**(L)** 12.0~14.0mm

(■) : Package Options
**(N)** Connector without Contact*
**(P)** Connector with Contacts

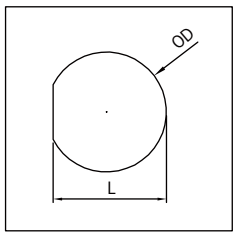
* Contacts are available to be sold in bulk individaully. For furhter information, please refer to page 20-22.

(○): Application
**(0)** For Data Group
**(P)** For Power Group

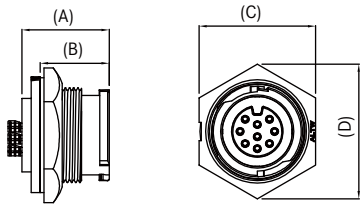
# Physical Dimension | Data Group

## ↘ Receptacle

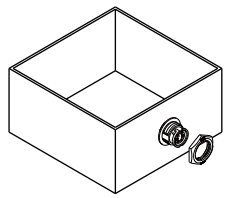
Panel Cut-out




Front Fastened



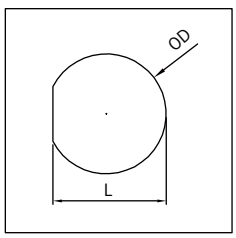

How to Install



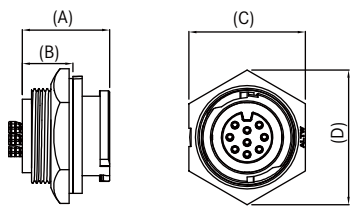
| Size | Current Rating **(Code)** | L | OD | A | B | C | D | Pannel Thickness Max. |
|---|---|---|---|---|---|---|---|---|
| B | 5A **(BD)** | 14.8 | 15.6 | 18.8 | 14.0 | 20.6 | 23.7 | 4 |
| | 10A **(BB)** | | | | | | | |
| C | 5A **(CD)** | 19.4 | 20.8 | 19.0 | 15.0 | 25.4 | 29.3 | 4.2 |
| | 10A **(CB)** | | | | | | | |
| D | 5A **(DD)** | 23.6 | 25.6 | 18.0 | 14.9 | 28.6 | 33.0 | 3.6 |

Unit: mm

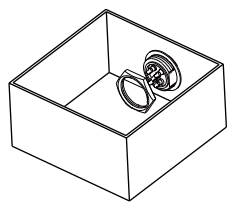
Panel Cut-out




Rear Fastened




How to Install



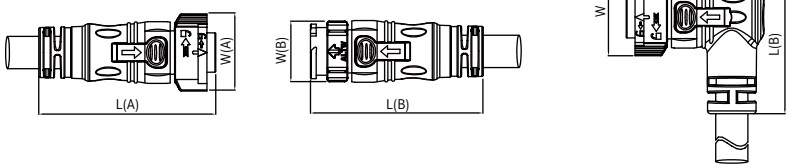
| Size | Current Rating **(Code)** | L | OD | A | B | C | D | Panel Thickness Max. |
|---|---|---|---|---|---|---|---|---|
| B | 5A **(BD)** | 14.8 | 15.6 | 18.6 | 10.8 | 20.6 | 23.7 | 4.5 |
| | 10A **(BB)** | | | | | | | |
| C | 5A **(CD)** | 19.4 | 20.8 | 19.0 | 11.0 | 25.4 | 29.3 | 4.2 |
| | 10A **(CB)** | | | | | | | |
| D | 5A **(DD)** | 23.6 | 25.6 | 18.0 | 14.9 | 28.6 | 33.0 | 3.6 |

Unit: mm

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

**IP 68**
**Unmated or Mated**

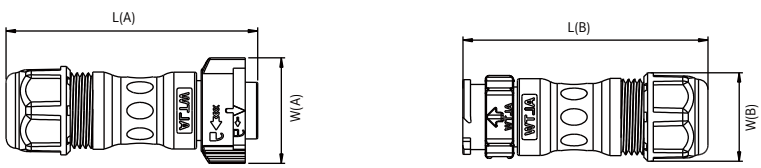
## ↘ Overmolded With Cable




| Size | Current Rating (Code) | Straight Style | | | | Right Angle Style | | |
|---|---|---|---|---|---|---|---|---|
| | | L | | W | | L(A) | L(B) | W |
| | | Female (A) | Male (B) | Female (A) | Male (B) | Female | | |
| B | 5A **(BD)** | 53.4 | 53.0 | 25.0 | 20.1 | 45.2 | 34.5 | 25.0 |
| | 10A **(BB)** | | | | | | | |
| C | 5A **(CD)** | 64.2 | 62.7 | 28.0 | 22.4 | 50.0 | 46.2 | 28.0 |
| | 10A **(CB)** | | | | | | | |
| D | 5A **(DD)** | 62.4 | 61.8 | 36.0 | 27.0 | 63.0 | 49.5 | 36.0 |

Unit: mm

## ↘ Field Installable



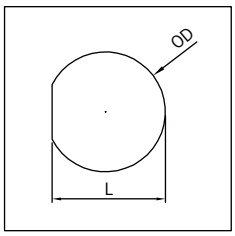

| Size | Current Rating (Code) | Straight Style | | | | Seal Size | | |
|---|---|---|---|---|---|---|---|---|
| | | L | | W | | S | M | L |
| | | Female (A) | Male (B) | Female (A) | Male (B) | | | |
| B | 5A **(BD)** | 66.2 | 66.0 | 25.0 | 20.0 | 5.0~6.0 | 6.0~8.0 | 8.0~10.0 |
| | 10A **(BB)** | | | | | | | |
| C | 5A **(CD)** | 64.2 | 62.7 | 28.0 | 22.4 | 6.0~8.0 | 8.0~10.0 | 10.0~12.0 |
| | 10A **(CB)** | | | | | | | |
| | 20A **(CC)** | | | | | | | |
| D | 5A **(BD)** | 70.2 | 69.0 | 36.0 | 27.0 | 8.0~10.0 | 10.0~12.0 | 12.0~14.0 |
| | 10A **(BB)** | | | | | | | |

Unit: mm

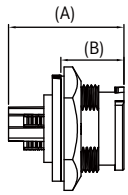
# Physical Dimension | Power Group

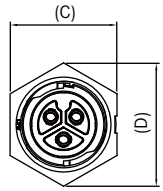
## ↘ Receptacle

Panel Cut-out

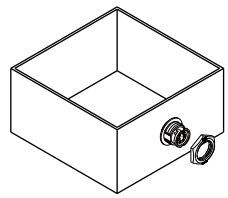



Front Fastened



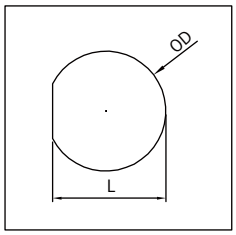

How to Install



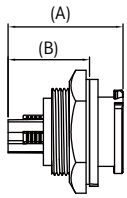
| Size | Current Rating **(Code)** | L | OD | A | B | C | D | Panel Thickness Max. |
|---|---|---|---|---|---|---|---|---|
| B | 5A **(BD)** | 14.8 | 15.6 | 18.8 | 14.0 | 20.6 | 23.7 | 4 |
| | 10A **(BB)** | | | | | | | |
| C | 20A **(CC)** | 19.4 | 20.8 | 27.4 | 15.0 | 25.4 | 29.3 | 4.2 |
| D | 20A **(DC)** | 23.6 | 25.6 | 26.3 | 14.9 | 28.6 | 33.0 | 3.6 |

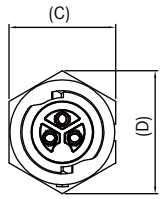
Unit: mm

Panel Cut-out

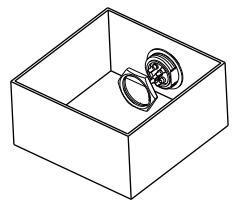



Rear Fastened




How to Install



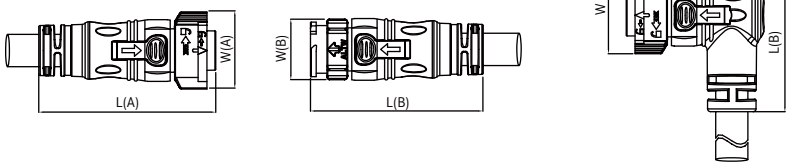
| Size | Current Rating **(Code)** | L | OD | A | B | C | D | Panel Thickness Max. |
|---|---|---|---|---|---|---|---|---|
| B | 5A **(BD)** | 14.8 | 15.6 | 18.6 | 10.8 | 20.6 | 23.7 | 4.5 |
| | 10A **(BB)** | | | | | | | |
| C | 20A **(CC)** | 19.4 | 20.8 | 27.4 | 19.4 | 25.4 | 29.3 | 4.2 |
| D | 20A **(DC)** | 23.6 | 25.6 | 26.3 | 18.1 | 28.6 | 33.0 | 3.6 |

Unit: mm

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

**IP 68**
**Unmated or Mated**

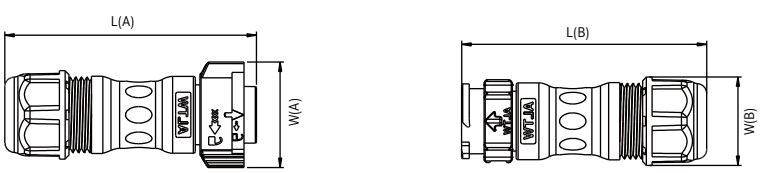
## ↘ Overmolded With Cable




| Size | Current Rating (Code) | Straight Style | | | | Right Angle Style | | |
|---|---|---|---|---|---|---|---|---|
| | | L | | W | | L(A) | L(B) | W |
| | | Female (A) | Male (B) | Female (A) | Male (B) | Female | | |
| B | 5A **(BD)** | 53.4 | 53.0 | 25.0 | 20.1 | 45.2 | 34.5 | 25.0 |
| | 10A **(BB)** | | | | | | | |
| C | 5A **(CD)** | 64.2 | 62.7 | 28.0 | 22.4 | 50.0 | 46.2 | 28.0 |
| | 10A **(CB)** | | | | | | | |
| D | 5A **(DD)** | 62.4 | 61.8 | 36.0 | 27.0 | 63.0 | 49.5 | 36.0 |

Unit: mm

## ↘ Field Installable



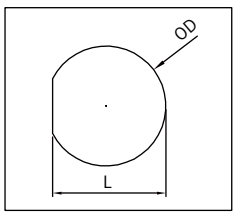

| Size | Current Rating (Code) | Straight Style | | | | Seal Size | | |
|---|---|---|---|---|---|---|---|---|
| | | L | | W | | S | M | L |
| | | Female (A) | Male (B) | Female (A) | Male (B) | | | |
| B | 5A **(BD)** | 66.2 | 66.0 | 25.0 | 20.0 | 5.0~6.0 | 6.0~8.0 | 8.0~10.0 |
| | 10A **(BB)** | | | | | | | |
| C | 5A **(CD)** | 64.2 | 62.7 | 28.0 | 22.4 | 6.0~8.0 | 8.0~10.0 | 10.0~12.0 |
| | 10A **(CB)** | | | | | | | |
| | 20A **(CC)** | | | | | | | |
| D | 5A **(BD)** | 70.2 | 69.0 | 36.0 | 27.0 | 8.0~10.0 | 10.0~12.0 | 12.0~14.0 |
| | 10A **(BB)** | | | | | | | |

Unit: mm

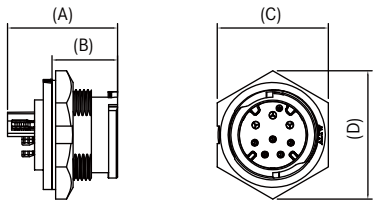
# Physical Dimension | Hybrid Group

## ↘ Receptacle

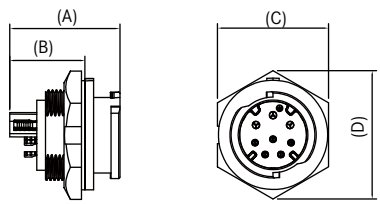
Panel Cut-out




Front Fastened



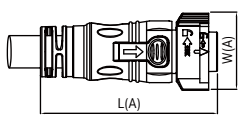

Rear Fastened

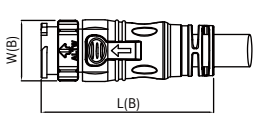


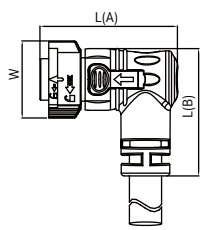

| Size | Current Rating **(Code)** | Fasten Style | L | OD | A | B | C | D | Pannel Thickness Max. |
|---|---|---|---|---|---|---|---|---|---|
| B | 10A+5A **(BBD)** | Front | 14.8 | 15.6 | 26.0 | 14.0 | 20.6 | 23.7 | 4 |
| | | Rear | 14.8 | 15.6 | 24.9 | 17.0 | 20.6 | 23.7 | 4.5 |
| C | 10A+5A **(CBD)** | Front | 19.4 | 20.8 | 25.2 | 15.0 | 25.4 | 29.3 | 4.2 |
| | | Rear | 19.4 | 20.8 | 25.2 | 17.2 | 25.4 | 29.3 | 4.2 |
| D | 20A+5A **(DCD)** | Front | 23.6 | 25.6 | 24.1 | 14.9 | 28.6 | 33.0 | 3.6 |
| | | Rear | 23.6 | 25.6 | 24.1 | 15.9 | 28.6 | 33.0 | 3.6 |

Unit: mm

## ↘ Overmolded With Cable




| Size | Current Rating **(Code)** | Straight Style | | | | Right Angle Style | | |
|---|---|---|---|---|---|---|---|---|
| | | L | | W | | L(A) | L(B) | W |
| | | Female (A) | Male (B) | Female (A) | Male (B) | Female | | |
| B | 10A+5A **(BBD)** | 53.4 | 53.0 | 25.0 | 20.1 | 45.2 | 34.5 | 25.0 |
| C | 10A+5A **(CBD)** | 64.2 | 62.7 | 28.0 | 22.4 | 50.0 | 46.2 | 28.0 |
| D | 20A+5A **(DCD)** | 62.4 | 61.8 | 36.0 | 27.0 | 63.0 | 49.5 | 36.0 |

Unit: mm

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

# Contact Configuration

| | Standard Size (B) | | | | | | | | | | Middle | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Data | | | | Power | | | | Hybrid | | Data | | | |
| | 5A **(BD)** | | 10A **(BB)** | | 5A **(BD)** | | 10A **(BB)** | | 10A+5A **(BBD)** | | 5A **(CD)** | | 10A **(CB)** | |
| ❹❺ | MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM |
| 2 Pin **(02)** | R C F | R C F | R C | R C | | | R C F | R C F | | | | | | |
| 3 Pin **(03)** | R C F | R C F | R C | R C | R C | R C | R C F | R C F | R C | R C | | | | |
| 4 Pin **(04)** | R C F | R C F | R C | | | | R C F | | R C | R C | | | R C F | R C F |
| 5 Pin **(05)** | R C F | R C F | | | | | | | R C | R C | | | R C F | R C F |
| 6 Pin **(06)** | R C F | R C F | | | | | | | R C | R C | | | R C F | |
| 7 Pin **(07)** | R C F | | | | | | | | | | R C F | R C F | | |
| 8 Pin **(08)** | R C F | | | | | | | | | | R C F | R C F | | |
| 9 Pin **(09)** | | | | | | | | | | | R C F | R C F | | |
| 10 Pin **(10)** | | | | | | | | | | | R C F | | | |
| 11 Pin **(11)** | | | | | | | | | | | | | | |
| 12 Pin **(12)** | | | | | | | | | | | R C F | | | |
| 14 Pin **(14)** | | | | | | | | | | | | | | |
| 18 Pin **(18)** | | | | | | | | | | | | | | |

| Size (C) | | | | Large Size (D) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Power | | Hybrid | | Data | | Power | | Hybrid | |
| 20A **(CC)** | | 10A+5A **(CBD)** | | 5A **(DD)** | | 20A **(DC)** | | 20A+5A **(DCD)** | |
| MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM | MM or FF | MF or FM |
| R C F | R C F | | | | | R C F | R C F | | |
| R C F | R C F | | | | | R C F | R C F | | |
| | | R C | R C | | | | | R C | R C |
| | | R C | R C | | | R C F | R C F | R C | R C |
| | | R C | R C | | | | | R C | R C |
| | | R C | R C | | | | | R C | R C |
| | | R C | R C | | | | | R C | R C |
| | | | | | | | | R C | R C |
| | | | | | | | | R C | R C |
| | | | | | | | | R C | R C |
| | | | | | R C F | | | R C | R C |
| | | | | R C F | R C F | | | | |
| | | | | R C F | R C F | | | | |

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

1 5A **(BD/CD/DD)**
10A **(BB/CB)**
20A **(CC/DC)**
10A + 5A **(BBD)**
20A + 5A **(DCD)**

2 **Number of Contacts:**
e.g. 3 Pin **(03)**

4 **Connector (Housing) Gender:**
Male **(M)** or Female **(F)**

5 **Contact Gender:**
Male **(M)** or Female **(F)**

6 **More to Choose:**
- Solder **(S)**
- Crimp **(A)**

For receptacle and overmolded with cable

For field installable

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

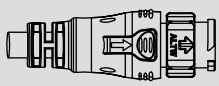
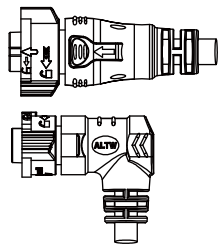
**IP 68**
**Unmated or Mated**

# Find Our Standard Products

## ↘ Standard Size: 5/8"-27 UNS > In-line

- **Male Connector (Housing)**
- **Male Contacts**
- **Push Lock**

**Overmolded with Cable** → **Overmolded with Cable** → **Field Installable**

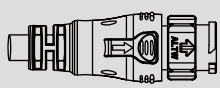
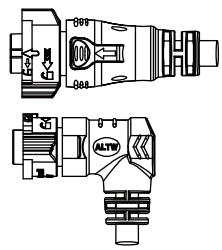
ASSP-2FAC6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts ② | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (BD) | 02,03,04, 05,06,07,08 | BD-②AMMM-QL8DXX* | BD-②AFFM-QL8DXX*<br>BD-②AFFM-QR8DXX* | BD-②BFFA-QL8X¹X²0** |
| | 10A (BB) | 02,03,04 | BB-②AMMM-QL8DXX* | BB-②AFFM-QL8DXX*<br>BB-②AFFM-QR8DXX* | - |
| Power | 5A (BD) | 03 | BD-03AMMM-QL8EXX* | BD-03AFFM-QL8EXX*<br>BD-03AFFM-QR8EXX* | - |
| | 10A (BB) | 02,03,04 | BB-②AMMM-QL8EXX* | BB-②AFFM-QL8EXX*<br>BB-②AFFM-QR8EXX* | BB-②BFFA-QL8X¹X²P** |
| Hybrid | 10A+5A (BBD) | 06 | BBD-06AMMM-QL8FXX* | BBD-06AFFM-QL8FXX*<br>BBD-06AFFM-QR8FXX* | - |

## ↘ Standard Size: 5/8"-27 UNS > In-line

- **Male Connector (Housing)**
- **Female Contacts**
- **Push Lock**

**Overmolded with Cable** → **Overmolded with Cable** → **Field Installable**

ASSP-2FAC6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts ② | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (BD) | 02,03,04, 05,06 | BD-②AMFM-QL8DXX* | BD-②AFMM-QL8DXX*<br>BD-②AFMM-QR8DXX* | BD-②BFMA-QL8X¹X²0** |
| | 10A (BB) | 02,03,04 | BB-②AMFM-QL8DXX* | BB-②AFMM-QL8DXX*<br>BB-②AFMM-QR8DXX* | - |
| Power | 5A (BD) | 03 | BD-03AMFM-QL8EXX* | BD-03AFMM-QL8EXX*<br>BD-03AFMM-QR8EXX* | - |
| | 10A (BB) | 02,03 | BB-②AMFM-QL8EXX* | BB-②AFMM-QL8EXX*<br>BB-②AFMM-QR8EXX* | BB-②BFMA-QL8X¹X²P** |
| Hybrid | 10A+5A (BBD) | 06 | BBD-06AMFM-QL8FXX* | BBD-06AFMM-QL8FXX*<br>BBD-06AFMM-QR8FXX* | - |

*XX: Choose the cable length from 01-99 m

**X¹X²: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X¹: Seal Size
**(S)** 5.0~6.0mm
**(M)** 6.0~8.0mm
**(L)** 8.0~10.0mm

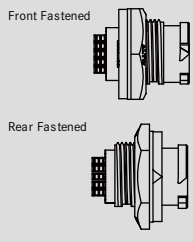
X²: Package Options
**(N)** Connector without Contact
**(P)** Connector with Contacts

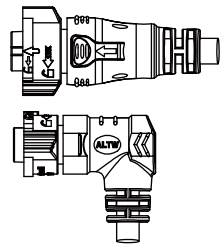
[Contacts are available to be sold in bulk individually. For furhter information, please refer to page 20-22.]

## ↘ Standard Size: 5/8"-27 UNS > Receptacle and Mating Pair

- Male Connector (Housing)
- Male Contacts
- Push Lock

Receptacle → Overmolded with Cable → Field Installable



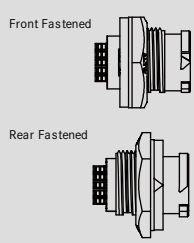
ASSP- 2 FAC 6
P/N refers to page 20-22

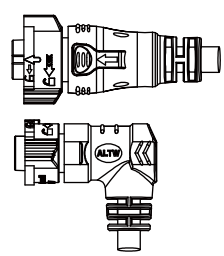
| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (BD) | 02,03,04, 05,06,07,08 | BD- 2 PMMS-QC8001<br>BD- 2 RMMS-QC8001 | BD- 2 AFFM-QL8DXX*<br>BD- 2 AFFM-QR8DXX* | BD- 2 BFFA-QL8X1X20** |
| | 10A (BB) | 02,03,04 | BB- 2 PMMS-QC8001<br>BB- 2 RMMS-QC8001 | BB- 2 AFFM-QL8DXX*<br>BB- 2 AFFM-QR8DXX* | - |
| Power | 5A (BD) | 03 | BD-03PMMS-QC800P<br>BD-03RMMS-QC800P | BD-03AFFM-QL8EXX*<br>BD-03AFFM-QR8EXX* | - |
| | 10A (BB) | 02,03,04 | BB- 2 PMMS-QC800P<br>BB- 2 RMMS-QC800P | BB- 2 AFFM-QL8EXX*<br>BB- 2 AFFM-QR8EXX* | BB- 2 BFFA-QL8X1X2P** |
| Hybrid | 10A+5A (BBD) | 06 | BBD-06PMMS-QC8001<br>BBD-06RMMS-QC8001 | BBD-06AFFM-QL8FXX*<br>BBD-06AFFM-QR8FXX* | - |

## ↘ Standard Size: 5/8"-27 UNS > Receptacle and Mating Pair

- Male Connector (Housing)
- Male Contacts
- Push Lock

Receptacle → Overmolded with Cable → Field Installable



ASSP- 2 FAC 6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (BD) | 02,03,04, 05,06 | BD- 2 RMFS-QC8001<br>BD- 2 PMFS-QC8001 | BD- 2 AFMM-QL8DXX*<br>BD- 2 AFMM-QR8DXX* | BD- 2 BFMA-QL8X1X20** |
| | 10A (BB) | 02,03 | BB- 2 RMFS-QC8001<br>BB- 2 PMFS-QC8001 | BB- 2 AFMM-QL8DXX*<br>BB- 2 AFMM-QR8DXX* | - |
| Power | 5A (BD) | 03 | BD-03RMFS-QC800P<br>BD-03PMFS-QC800P | BD-03AFMM-QL8EXX*<br>BD-03AFMM-QR8EXX* | - |
| | 10A (BB) | 02,03 | BB- 2 RMFS-QC800P<br>BB- 2 PMFS-QC800P | BB- 2 AFMM-QL8EXX*<br>BB- 2 AFMM-QR8EXX* | BB- 2 BFMA-QL8X1X2P** |
| Hybrid | 10A+5A (BBD) | 06 | BBD-06RMFS-QC8001<br>BBD-06PMFS-QC8001 | BBD-06AFMM-QL8FXX*<br>BBD-06AFMM-QR8FXX* | - |

*XX: Choose the cable length from 01-99 m

**X1X2: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X1: Seal Size
(S) 5.0~6.0mm
(M) 6.0~8.0mm
(L) 8.0~10.0mm

X2: Package Options
(N) Connector without Contact
(P) Connector with Contacts

[Contacts are available to be sold in bulk individually. For furhter information, please refer to page 20-22.]

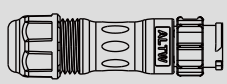
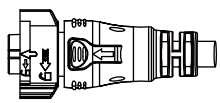
【Note】Design and specification are subject to change without notice.

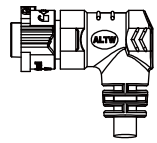
**IP 68**
**Unmated or Mated**

## ↘ Standard Size: 5/8"-27 UNS > In-Line

- **Male Connector (Housing)**
- **Male Contacts**
- **Push Lock**

Field Installable ⇢ Overmolded with Cable ⇢ Field Installable



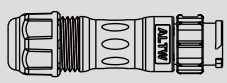
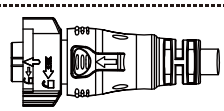
ASSP- 2 FAC 6
P/N refers to page xxx

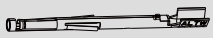
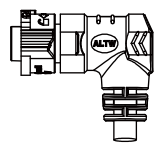
ASSP- 2 FAC 6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (BD) | 02,03,04, 05,06,07,08 | BD- 2 BMMA-QL8X¹X²0** | BD- 2 AFFM-QL8DXX*<br>BD- 2 AFFM-QR8DXX* | BD- 2 BFFA-QL8X¹X²0** |
| Power | 10A (BB) | 02,03,04 | BD- 2 BMMA-QL8X¹X²P** | BB- 2 AFFM-QL8DXX*<br>BB- 2 AFFM-QR8DXX* | BD- 2 BFFA-QL8X¹X²P** |

## ↘ Standard Size: 5/8"-27 UNS > In-Line

Field Installable ⇢ Overmolded with Cable ⇢ Field Installable

ASSP- 2 FAC 6
P/N refers to page xxx

ASSP- 2 FAC 6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (BD) | 02,03,04, 05,06 | BD- 2 BMFA-QL8X¹X²0** | BD- 2 AFMM-QL8DXX*<br>BD- 2 AFMM-QR8DXX* | BD- 2 BFMA-QL8X¹X²0** |
| Power | 10A (BB) | 02,03 | BB- 2 BMFA-QL8X¹X²P** | BB- 2 AFMM-QL8DXX*<br>BB- 2 AFMM-QR8DXX* | BB- 2 BFMA-QL8X¹X²P** |

*XX: Choose the cable length from 01-99 m

**X¹X²: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X¹: Seal Size
**(S)** 5.0~6.0mm
**(M)** 6.0~8.0mm
**(L)** 8.0~10.0mm

X²: Package Options
**(N)** Connector without Contact
**(P)** Connector with Contacts

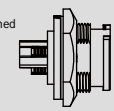
[Contacts are available to be sold in bulk individaully. For furhter information, please refer to page 20-22.]

## ↘ Middle Size 13/16"-28UNS > Receptacle and Mating Pair

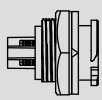
- Male Connector (Housing)
- Male Contacts
- Push Lock

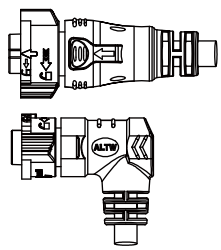
Receptacle → Overmolded with Cable → Field Installable

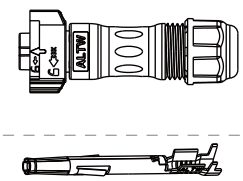
Front Fastened



Rear Fastened









ASSP-2FAC6
P/N refers to page 20-22

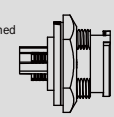
| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 08,09,10,12 | CD-2PMMS-QC8001 | CD-2AFFM-QL8DXX*<br>CD-2AFFM-QR8DXX* | CD-2BFFA-QL8X¹X²0** |
| | 10A (CB) | 04,05,06 | CB-2PMMS-QC8001 | CB-2AFFM-QL8DXX* | CB-2BFFA-QL8X¹X²0** |
| Power | 20A (CC) | 02,03 | CC-2PMMS-QC800P | CC-2AFFM-QL8EXX*<br>CC-2AFFM-QR8EXX* | CC-2BFFA-QL8X¹X²P** |
| Hybrid | 10A+5A (CBD) | 08 | CBD-08PMMS-QC8001 | CBD-08AFFM-QL8FXX*<br>CBD-08AFFM-QR8FXX* | - |

## ↘ Middle Size 13/16"-28UNS > Receptacle and Mating Pair

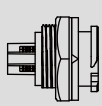
- Male Connector (Housing)
- Male Contacts
- Push Lock

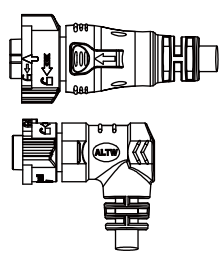
Receptacle → Overmolded with Cable → Field Installable

Front Fastened



Rear Fastened





ASSP-2FAC6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 07,08,09 | CD-2PMFS-QC8001 | CD-2AFMM-QL8DXX*<br>CD-2AFMM-QR8DXX* | CD-2BFMA-QL8X¹X²0** |
| | 10A (CB) | 04,05 | CB-2PMFS-QC8001 | CB-2AFMM-QL8DXX*<br>CB-2AFMM-QL8DXX* | CB-2BFMA-QL8X¹X²0** |
| Power | 20A (CC) | 02,03 | CC-2PMFS-QC800P | CC-2AFMM-QL8EXX*<br>CC-2AFMM-QR8EXX* | CC-2BFMA-QL8X¹X²P** |
| Hybrid | 10A+5A (CBD) | 08 | CBD-08PMFS-QC8001 | CBD-08AFMM-QL8FXX*<br>CBD-08AFMM-QR8FXX* | - |

*XX: Choose the cable length from 01-99 m

**X¹X²: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X¹: Seal Size
**(S)** 6.0~8.0mm
**(M)** 8.0~10.0mm
**(L)** 10.0~12.0mm

X²: Package Options
**(N)** Connector without Contact
**(P)** Connector with Contacts

[Contacts are available to be sold in bulk individaully. For furhter information, please refer to page 20-22.]

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

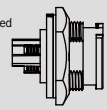
**IP 68**
**Unmated or Mated**

## ↘ Middle Size 13/16"-28UNS > Receptacle and Mating Pair

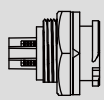
- **Male Connector (Housing)**
- **Male Contacts**
- **Push Lock**

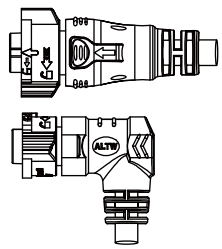
**Receptacle** → **Overmolded with Cable** → **Field Installable**

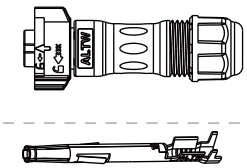
Front Fastened



Rear Fastened









ASSP-2FAC6
P/N refers to page 20-22

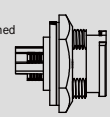
| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 08,09,10,12 | CD-2PMMS-QC8001<br>CD-2RMMS-QC8001 | CD-2AFFM-QL8DXX*<br>CD-2AFFM-QR8DXX* | CD-2BFFA-QL8X¹X²0** |
| | 10A (CB) | 04,05,06 | CB-2PMMS-QC8001<br>CB-2RMMS-QC8001 | CB-2AFFM-QL8DXX* | CB-2BFFA-QL8X¹X²0** |
| Power | 20A (CC) | 02,03 | CC-2PMMS-QC800P<br>CC-2RMMS-QC800P | CC-2AFFM-QL8EXX*<br>CC-2AFFM-QR8EXX* | CC-2BFFA-QL8X¹X²P** |
| Hybrid | 10A+5A (CBD) | 08 | CBD-08PMMS-QC8001<br>CBD-08RMMS-QC8001 | CBD-08AFFM-QL8FXX*<br>CBD-08AFFM-QR8FXX* | - |

## ↘ Middle Size 13/16"-28UNS > Receptacle and Mating Pair

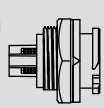
- **Male Connector (Housing)**
- **Female Contacts**
- **Push Lock**

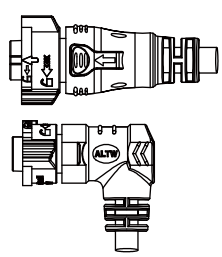
**Receptacle** → **Overmolded with Cable** → **Field Installable**

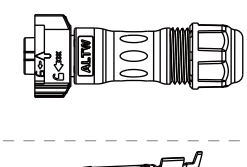
Front Fastened



Rear Fastened







ASSP-2FAC6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 08,09,10,12 | CD-2PMFS-QC8001<br>CD-2RMFS-QC8001 | CD-2AFMM-QL8DXX*<br>CD-2AFMM-QR8DXX* | CD-2BFMA-QL8X¹X²0** |
| | 10A (CB) | 04,05,06 | CB-2PMFS-QC8001<br>CB-2RMFS-QC8001 | CB-2AFMM-QL8DXX* | CB-2BFMA-QL8X¹X²0** |
| Power | 20A (CC) | 02,03 | CC-2PMFS-QC800P<br>CC-2RMFS-QC800P | CC-2AFMM-QL8EXX*<br>CC-2AFMM-QR8EXX* | CC-2BFMA-QL8X¹X²P** |
| Hybrid | 10A+5A (CBD) | 08 | CBD-08PMFS-QC8001<br>CBD-08RMFS-QC8001 | CBD-08AFMM-QL8FXX*<br>CBD-08AFMM-QR8FXX* | - |

*XX: Choose the cable length from 01-99 m

**X¹X²: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X¹: Seal Size
**(S)** 6.0~8.0mm
**(M)** 8.0~10.0mm
**(L)** 10.0~12.0mm

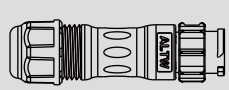
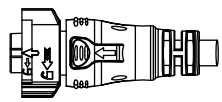
X²: Package Options
**(N)** Connector without Contact
**(P)** Connector with Contacts

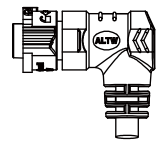
[Contacts are available to be sold in bulk individaully. For furhter information, please refer to page 20-22.]

## ↘ Middle Size 13/16"-28UNS > In-Line

- Male Connector (Housing)
- Male Contacts
- Push Lock

Field Installable ⇢ Overmolded with Cable ⇢ Field Installable



ASSP-2FAC6
P/N refers to page xxx

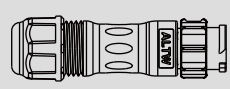
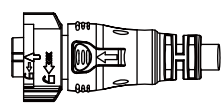
ASSP-2FAC6
P/N refers to page 20-22

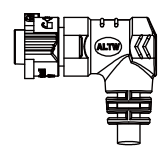
| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 08,09,10,12 | CD-2 BMMA–QL8X¹X²0** | CD-2 AFFM-QL8DXX*<br>CD-2 AFFM-QR8DXX* | CD-2 BFFA-QL8X¹X²0** |
| | 10A (CB) | 04,05,06 | CB-2 BMMA–QL8X¹X²0** | CB-2 AFFM-QL8DXX* | CB-2 BFFA-QL8X¹X²0** |
| Power | 20A (CC) | 02,03 | CC-2 BMMA–QL8X¹X²P** | CC-2 AFFM-QL8EXX*<br>CC-2 AFFM-QR8EXX* | CC-2 BFFA-QL8X¹X²P** |

## ↘ Middle Size 13/16"-28UNS > In-Line

- Male Connector (Housing)
- Male Contacts
- Push Lock

Field Installable ⇢ Overmolded with Cable ⇢ Field Installable



ASSP-2FAC6
P/N refers to page xxx

ASSP-2FAC6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 07,08,09 | CD-2 BMFA-QL8X¹X²0** | CD-2 AFMM-QL8DXX*<br>CD-2 AFMM-QR8DXX* | CD-2 BFMA-QL8X¹X²0** |
| | 10A (CB) | 04,05 | CB-2 BMFA-QL8X¹X²0** | CD-2 AFMM-QL8DXX*<br>CD-2 AFMM-QR8DXX* | CB-2 BFMA-QL8X¹X²0** |
| Power | 20A (CC) | 02,03 | CC-2 BMFA-QL8X¹X²P** | CC-2 AFMM-QL8EXX*<br>CC-2 AFMM-QR8EXX* | CC-2 BFMA-QL8X¹X²P** |

*XX: Choose the cable length from 01-99 m

**X¹X²: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X¹: Seal Size
**(S)** 6.0~8.0mm
**(M)** 8.0~10.0mm
**(L)** 10.0~12.0mm

X²: Package Options
**(N)** Connector without Contact
**(P)** Connector with Contacts

[Contacts are available to be sold in bulk individaully. For furhter information, please refer to page 20-22.]

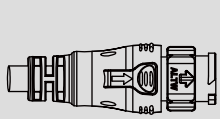
【Note】Design and specification are subject to change without notice.

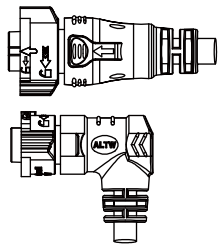
**IP 68**
**Unmated or Mated**

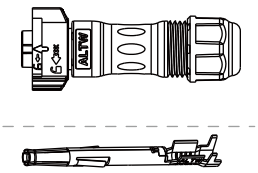
## ↘ Large Size 1"-20UNEF > In-Line

- **Male Connector (Housing)**
- **Male Contacts**
- **Push Lock**

**Overmolded with Cable** → **Overmolded with Cable** → **Field Installable**







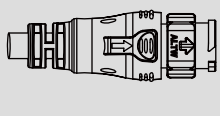
ASSP- 2 FAC 6
P/N refers to page 20-22

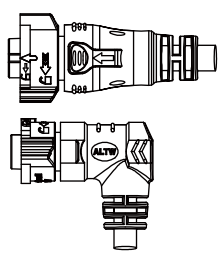
| Group | Current Rating **(Code)** | Contacts 2 | Male Connector **(M)** Male Contacts **(M)** | Female Connector **(F)** Female Contacts **(F)** | Female Connector **(F)** Female Contacts **(F)** |
|---|---|---|---|---|---|
| Data | 5A **(DD)** | 14,18 | DD- 2 AMMM-QL8DXX* | DD- 2 AFFM-QL8DXX*<br>DD- 2 AFFM-QL8DXX* | DD- 2 BFFA-QL8X¹X²0** |
| Power | 20A **(DC)** | 02,03,05 | DC- 2 AMMM-QL8EXX* | DC- 2 AFFM-QL8EXX*<br>DC- 2 AFFM-QL8EXX* | DC- 2 BFFA-QL8X¹X²P** |
| Hybrid | 20A+5A **(DCD)** | 12 | DCD- 2 AMMM-QL8FXX* | DCD- 2 AFFM-QL8FXX*<br>DCD- 2 AFFM-QL8FXX* | - |

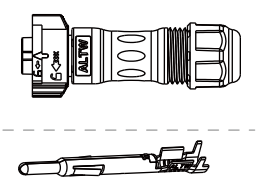
## ↘ Large Size 1"-20UNEF > In-Line

- **Male Connector (Housing)**
- **Female Contacts**
- **Push Lock**

**Overmolded with Cable** → **Overmolded with Cable** → **Field Installable**







ASSP- 2 FAC 6
P/N refers to page 20-22

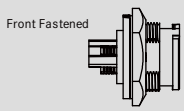
| Group | Current Rating **(Code)** | Contacts 2 | Male Connector **(M)** Female Contacts **(F)** | Female Connector **(F)** Male Contacts **(M)** | Female Connector **(F)** Male Contacts **(M)** |
|---|---|---|---|---|---|
| Data | 5A **(DD)** | 12,14,18 | DD- 2 AMFM-QL8DXX* | DD- 2 AFMM-QL8DXX*<br>DD- 2 AFMM-QL8DXX* | DD- 2 BFMA-QL8X¹X²0** |
| Power | 20A **(DC)** | 02,03,05 | DC- 2 AMFM-QL8EXX* | DC- 2 AFMM-QL8EXX*<br>DC- 2 AFMM-QL8EXX* | DC- 2 BFMA-QL8X¹X²P** |
| Hybrid | 20A+5A **(DCD)** | 12 | DCD- 2 AMFM-QL8FXX* | DCD- 2 AFMM-QL8FXX*<br>DCD- 2 AFMM-QL8FXX* | - |

## ↘ Large Size 1"-20UNEF > Receptacle and Mating Pair

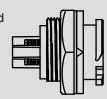
- **Male Connector (Housing)**
- **Male Contacts**
- **Push Lock**

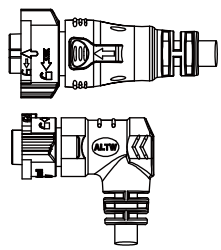
**Receptacle** ⇢ **Overmolded with Cable** ⇢ **Field Installable**

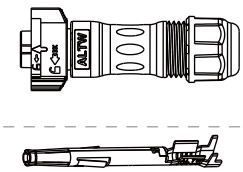
Front Fastened



Rear Fastened









ASSP-2FAC6
P/N refers to page 20-22

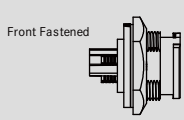
| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 14,18 | DD-2PMMS-QC8001<br>DD-2RMMS-QC8001 | DD-2AFFM-QL8DXX*<br>DD-2AFFM-QR8DXX* | DD-2BFFA-QL8X¹X²0** |
| Power | 10A (DC) | 02,03,05 | DC-2PMMS-QC800P<br>DC-2RMMS-QC800P | DC-2AFFM-QL8DXX* | DC-2BFFA-QL8X¹X²P** |
| Hybrid | 20A+5A (DCD) | 12 | DCD-2PMMS-QC8001<br>DCD-2RMMS-QC8001 | DCD-2AFFM-QL8EXX*<br>DCD-2AFFM-QR8EXX* | - |

## ↘ Large Size 1"-20UNEF > Receptacle and Mating Pair

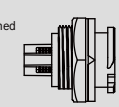
- **Male Connector (Housing)**
- **Female Contacts**
- **Push Lock**

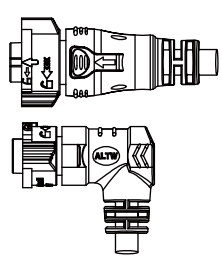
**Receptacle** ⇢ **Overmolded with Cable** ⇢ **Field Installable**

Front Fastened



Rear Fastened





ASSP-2FAC6
P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (CD) | 12,14,18 | DD-2PMFS-QC8001<br>DD-2RMFS-QC8001 | DD-2AFMM-QL8DXX*<br>DD-2AFMM-QR8DXX* | DD-2BFMA-QL8X¹X²0** |
| Power | 10A (DC) | 02,03,05 | DC-2PMFS-QC800P<br>DC-2RMFS-QC800P | DC-2AFMM-QL8DXX* | DC-2BFMA-QL8X¹X²P** |
| Hybrid | 20A+5A (DCD) | 12 | DCD-2PMFS-QC8001<br>DCD-2RMFS-QC8001 | DCD-2AFMM-QL8EXX*<br>DCD-2AFMM-QR8EXX* | - |

*XX: Choose the cable length from 01-99 m

**X¹X²: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X¹: Seal Size
**(S)** 8.0~10.0mm
**(M)** 10.0~12.0mm
**(L)** 12.0~14.0mm

X²: Package Options
**(N)** Connector without Contact
**(P)** Connector with Contacts

[Contacts are available to be sold in bulk individaully. For furhter information, please refer to page 20-22.]

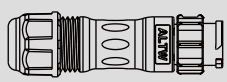
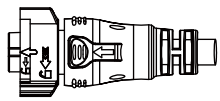
【Note】Design and specification are subject to change without notice.

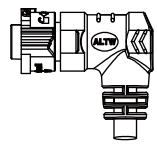
**IP 68**
**Unmated or Mated**

## ↘ Large Size 1"-20UNEF > In-Line

- **Male Connector (Housing)**
- **Male Contacts**
- **Push Lock**

Field Installable ⇢ Overmolded with Cable ⇢ Field Installable



ASSP-2FAC6 — P/N refers to page xxx

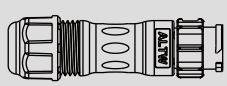
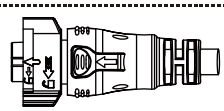
ASSP-2FAC6 — P/N refers to page 20-22

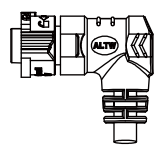
| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Male Contacts (M) | Female Connector (F) Female Contacts (F) | Female Connector (F) Female Contacts (F) |
|---|---|---|---|---|---|
| Data | 5A (DD) | 14,18 | DD-2BMMA-QL8X¹X²0** | DD-2AFFM-QL8DXX*<br>DD-2AFFM-QR8DXX* | DD-2BFFA-QL8X¹X²0** |
| Power | 20A (DC) | 02,03,05 | DC-2BMMA-QL8X¹X²P** | DC-2AFFM-QL8DXX*<br>DC-2AFFM-QR8DXX* | DC-2BFFA-QL8X¹X²P** |

## ↘ Large Size 1"-20UNEF > In-Line

- **Male Connector (Housing)**
- **Female Contacts**
- **Push Lock**

Field Installable ⇢ Overmolded with Cable ⇢ Field Installable



ASSP-2FAC6 — P/N refers to page xxx

ASSP-2FAC6 — P/N refers to page 20-22

| Group | Current Rating (Code) | Contacts 2 | Male Connector (M) Female Contacts (F) | Female Connector (F) Male Contacts (M) | Female Connector (F) Male Contacts (M) |
|---|---|---|---|---|---|
| Data | 5A (DD) | 12,14,18 | DD-2BMFA-QL8X¹X²0** | DD-2AFMM-QL8DXX*<br>DD-2AFMM-QR8DXX* | DD-2BFMA-QL8X¹X²0** |
| Power | 10A (DC) | 02,03,05 | DC-2BMFA-QL8X¹X²P** | DC-2AFMM-QL8DXX*<br>DC-2AFMM-QR8DXX* | DC-2BFMA-QL8X¹X²P** |

*XX: Choose the cable length from 01-99 m

**X¹X²: Seal Size + Package Options
e.g. (SN) = Seal S + Connector without Contact

X¹: Seal Size
**(S)** 8.0~10.0mm
**(M)** 10.0~12.0mm
**(L)** 12.0~14.0mm

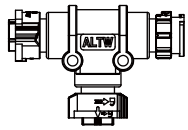
X²: Package Options
**(N)** Connector without Contact
**(P)** Connector with Contacts

[Contacts are available to be sold in bulk individually. For furhter information, please refer to page 20-22.]

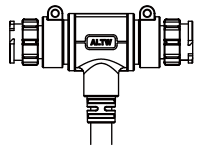
## I-Adaptor, T-Adaptor & T-Cable

Customization - Upon Request

I-Adaptor



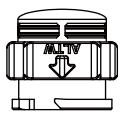

T-Adaptor

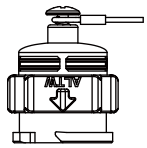



T-Cable

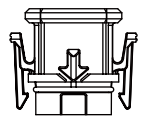
## Waterproof Cap

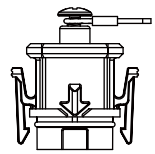
For female connector




For male connector

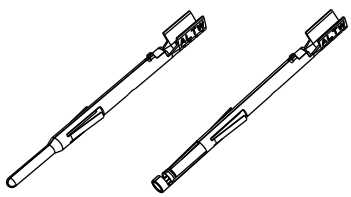




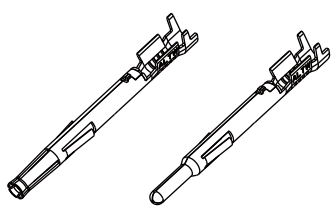
3 More to choose: None **(MA)** / With Rubber Lead **(PC)**
4 More to choose: None **(MA)** / With Fish Line **(CD)**
5 More to choose: None **(A)** / With Fish Line **(D)**

| Size | Mating Pair | Mating Style | Mating Pair (Gender) | P/N |
|---|---|---|---|---|
| Standard Size 5/8"-27 UNS | Receptacle | Push Lock | Male | CAP-WABMQ 3 1 |
| | Overmolded with cable | Push Lock | Female | CAP-WABFQ 4 1 |
| | | | Male | CAP-WABMQM 5 1 |
| Middle Size 13/16"-28 UNS | Receptacle | Push Lock | Male | CAP-WACMQ 3 1<br>CAP-WACMQ 3 2 |
| | Overmolded with cable | Push Lock | Female | CAP-WACFQ 4 1 |
| | | | Male | CAP-WACMQM 5 1<br>CAP-WACMQM 5 2 |
| Large Size 1/20" UNEF | Receptacle | Push Lock | Male | CAP-WADMQ 3 1<br>CAP-WADMQ 3 2 |
| | Overmolded with cable | Push Lock | Female | CAP-WADFQ 4 1 |
| | | | Male | CAP-WADMQM 5 1<br>CAP-WADMQM 5 2 |

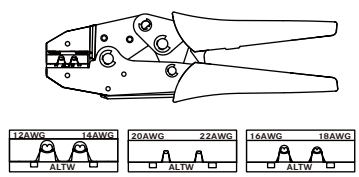
## Contacts & Crimp Tool




5A




10A/20A




Crimp Tool

| Current Rating 2 | Contact Gender | P/N | Packages 6 | Crimp Tool |
|---|---|---|---|---|
| 5A **(05)** | Male | ASSP-05MAC 6 | **(SA)** 50pcs / Bulk<br>**(SB)** 100pcs / Bulk<br>**(SC)** 500pcs / Bulk<br>**(SD)** 1000pcs / Bulk<br>**(RE)** 3000pcs / Bulk | ASST-C-05-W-A (20AWG ~ 22AWG) |
| | Female | ASSP-05FAC 6 | | |
| 10A **(10)** | Male | ASSP-10MAC 6 | | ASST-C-10-W-B (16AWG ~ 18AWG) |
| | Female | ASSP-10MAC 6 | | |
| 20A **(20)** | Male | ASSP-20MAC 6 | | ASST-C-20-W-C (12AWG ~ 14AWG) |
| | Female | ASSP-20FAC 6 | | |

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

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LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

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