



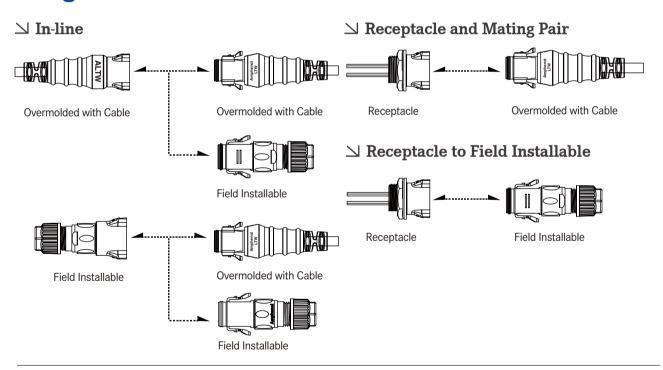


**CATALOGUE** 

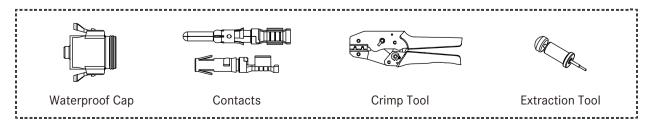
## **RBL Connector**



## **Range Overview**



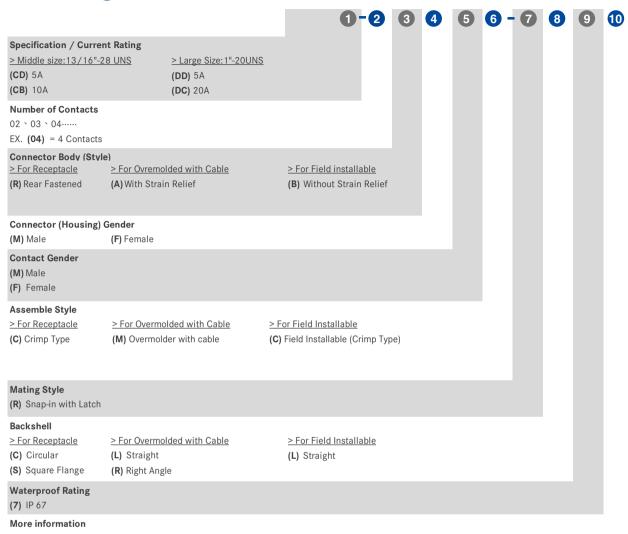
#### △ Accessories



# **Specification**

Identifications	C Size (Middle Size: 13/16"-28 UNS) / D-Size (Large Size:1"20UNS)
Description	Receptacle with Wire Harness Overmolded with Cable Field Installable
Current Rating / Data	5A, 10A, 20A
Material	Contacts: Copper Alloy, Gold Plated Connector Body (Housing): m-PPE, 540Z, Black
Waterproof Rating	IP67
Temperature Range	Receptacle with Wire Harness: -40°C ~ 105°C  Overmolded with Cable: -20°C ~ 80°C  Field Installable: -40°C ~ 105°C
Contact Resistance	$\leq 10 m\Omega$
Insulation Resistance	$\geq 100 M\Omega$ at DC500V
Durability	250 cycles
Dielectric Withstand Voltage	1,000V plus 2 times the rated voltage / 1 minute
More to know	Salt Spray Corrosion Test: 48H Standard Cable Length: 01~99M

## **Ordering Information**



> For Receptacle with Wirehamess

(□)+(■): Wire Type + Wire Length

e.g. (A10) = UL1015 Wire + 10 CM

(□): Wire Type (A) UL1015 Wire

(■): Wire Length (10) 10CM

(B) UL1430 Wire (30)30CM > For Overmolded with Cable

(□)+(■): Cable Type + Cable Length

(□): Cable Type (A) UL2464 Cable

(**D**)UL21388 Cable (E) SJTW Cable

(■): Cable Length From 1M to 99M

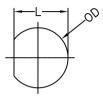
e.g.(01)= 1M

# **Physical Dimension**

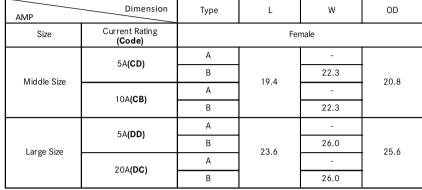
#### **∠** Receptacle

Panel Cut-Out

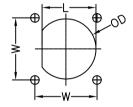
A Backshell: Circular



B Backshell: Square Flange

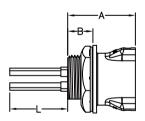


Unit: mm



**Connector Dimension** 

A Backshell: Circular



AMP	Dimension	Α	В	OD	L(cm)	Panel Thickness Max
Size	Current Rating (Code)	Female				
Middle Size	5A <b>(CD)</b>	29.5	11.0	29.5	10 / 30	5.0
Wildelic Olze	10A <b>(CB)</b>	27.5				
Large Size	5A <b>(DD)</b>	20.4	28.4 10.3	36.0	10 / 30	5.0
Large Size	20A <b>(DC)</b>	20.4				5.0

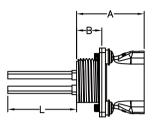
Unit: mm



#### **∠** Receptacle

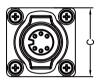
Connector Dimension

**B** Backshell: Square Flange



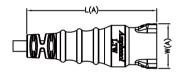
AMP	Dimension	Α	В	С	L(cm)	Panel Thickness Max
Size	Current Rating (Code)	Female				
Middle Size	5A <b>(CD)</b>	29.5	11.0	30.0	10 / 30	
Wildale Oize	10A <b>(CB)</b>	27.5	11.0	50.0	10 / 30	ı
Large Size	5A <b>(DD)</b>	28.4	10.3	36.0	10 / 30	
Edi go oizo	20A <b>(DC)</b>	20.1	10.5			-

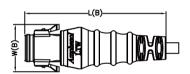
Unit: mm



#### □ Overmolded with Cable

With Strain Relief / Straight





Dimension AMP		L		W	
Size	Current Rating (Code)	Female (A)	Male (B)	Female (A)	Male (B)
Middle Size	5A <b>(CD)</b>	79.4 (Ref.)	86.3 (Ref.)	27.3	28.8
Wildule Size	10A <b>(CB)</b>	7 7.4 (Nel.)	00.3 (Nel.)	27.5	
Large Size	5A <b>(DD)</b>	90.0 (Ref.)	97.0 (Ref.)	32.5	24.2
	20A <b>(DC)</b>	70.0 (Rel.)	77.0 (Rel.)	32.3	34.3

Unit: mm

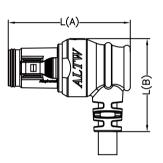
#### ○ Overmolded with Cable

With Strain Relief / Right Angle



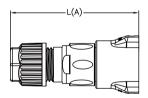
AMP	Dimension	L(A)	L(B)	W	
Size	Size Current Rating (Code)		Male		
Middle Size	5A <b>(CD)</b>	53.8	40.6	28.8	
Wildlie Size	10A <b>(CB)</b>	33.0	40.0	20.0	

Unit: mm

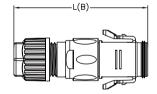


#### **∠** Field Installable

Without Strain Relief / Straight









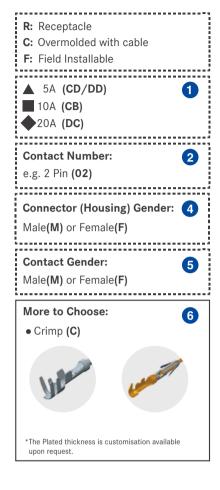
AMP	Dimension	L	-	V	V	
Size	Current Rating (Code)	Female (A)	Male (B)	Female (A)	Male (B)	
Middle Size	5A <b>(CD)</b>	60.9 (Ref.)	63.5 (Ref.)	27.3	28.0	
iviluale Size	10A <b>(CB)</b>	00.9 (Nel.)	00.5 (Nel.)	27.5	26.0	
Large Size	20A <b>(DC)</b>	68.9 (Ref.)	72.5 (Ref.)	32.5	34.3	

Unit: mm

# **Contact Configuration**

	Middle Size (C)							
		5A (	(CD)		10A <b>(CB)</b>			
4 5	MM	FF	MF	FM	ММ	FF	MF	FM
2 Pin (02)	C F	R C F	C F	R C F	C F	R C F	C F	R C F
3 Pin ( <b>03</b> )	C F	R C F	C F	R C F	F C	R C F	C F	R C F
4 Pin ( <b>04</b> )	C F	R C F	C F	R C F	C F	R C F	C F	R C F
5 Pin ( <b>05</b> )	C C	C R	-C	C R				
6 Pin (06)	C C	C R	C	C R				
7 Pin ( <b>07</b> )	C C	C R	C C	C R				
8 Pin (08)	C C	C R	C	C R				
9 Pin (09)	C C	C R	c c	C R				
10 Pin (10)				·				
12 Pin (12)								
14 Pin (14)								
18 Pin (18)								

		Large Size (D)						
		5A (	(DD)		20A <b>(DC)</b>			
4 5	ММ	FF	MF	FM	MM	FF	MF	FM
2 Pin (02)					C F	R C F	C F	R C F
3 Pin (03)					C F	R C F	C F	R C F
4 Pin ( <b>04</b> )					C F	R C F	C F	R C F
5 Pin ( <b>05</b> )								
6 Pin ( <b>06</b> )								
7 Pin ( <b>07</b> )								
8 Pin (08)								
9 Pin ( <b>09</b> )								
10 Pin			(AAA)					
(10) 12 Pin	C C	C R		C R				
(12)	С	C R	С	C R				
14 Pin (14)	<u>C</u>	C R	C C	C R				
18 Pin								
(18)	С	C R	С	C R				





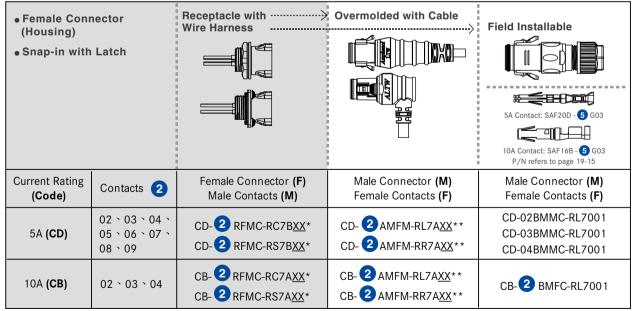
## **Find Our Standard Products**

#### Middle Size: 13/16"-28 UNS > Receptacle with Wire Harness and Mating Pair

Female Connector     (Housing)     Snap-in with Latch		Receptacle with	Overmolded with Cable	Field Installable  5A Contact: SAM20D - 6 G03  10A Contact: SAM16B - 6 G03  P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector ( <b>M</b> ) Male Contacts ( <b>M</b> )	Male Connector (M) Male Contacts (M)
5A <b>(CD)</b>	02 \ 03 \ 04 \ 05 \ 06 \ 07 \ 08 \ 09	CD- 2 RFFC-RC7B <u>XX</u> * CD- 2 RFFC-RS7B <u>XX</u> *	CD-2 AMMM-RL7A <u>XX</u> ** CD-2 AMMM-RR7A <u>XX</u> **	CD-02BMMC-RL7001 CD-03BMMC-RL7001 CD-04BMMC-RL7001
10A <b>(CB)</b>	02 \ 03 \ 04	CB- 2 RFFC-RC7AXX* CB- 2 RFFC-RS7AXX*	CB- <b>2</b> AMMM-RL7A <u>XX</u> ** CB- <b>2</b> AMMM-RR7A <u>XX</u> **	CB-2 BMMC-RL7001

<sup>\*</sup>  $\underline{XX}$ : Choose the wire harness length: (10) 10cm; (30) 30cm

## $\triangle$ Middle Size: 13/16"-28 UNS > Receptacle with Wire Harness and Mating Pair



<sup>\*</sup> XX: Choose the wire harness length: (10) 10cm; (30) 30cm

<sup>\*\*</sup> XX: Choose the cable length from 01~99m

<sup>\*\*</sup>  $\underline{XX}\!:$  Choose the cable length from 01~99m

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

Female Connector     (Housing)     Snap-in with Latch		Overmolded with Cable	Overmolded with Cable	Field Installable  5A Contact: SAM20D - 3 G03  10A Contact: SAM16B - 3 G03  P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector (M) Male Contacts (M)	Male Connector ( <b>M</b> ) Male Contacts ( <b>M</b> )
5A <b>(CD)</b>	02 \ 03 \ 04 \ 05 \ 06 \ 07 \ 08 \ 09	CD-2 AFFM-RL7AXX*	CD-2 AMMM-RL7A <u>XX</u> * CD-2 AMMM-RR7A <u>XX</u> *	CD-02BMMC-RL7001 CD-03BMMC-RL7001 CD-04BMMC-RL7001
10A <b>(CB)</b>	02 \ 03 \ 04	CB-2 AFFM-RL7AXX*	CB-2 AMMM-RL7AXX* CB-2 AMMM-RR7AXX*	CB-2 BMMC-RL7001

<sup>\*</sup>  $\underline{XX}\!\!:$  Choose the cable length from 01~99m

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

Female Connector     (Housing)     Snap-in with Latch		Overmolded with Cable	Overmolded with Cable	Field Installable  5A Contact: SAF20D - 3 G03  10A Contact: SAF16B - 3 G03  P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Male Contacts <b>(M)</b>	Male Connector ( <b>M</b> ) Female Contacts ( <b>F</b> )	Male Connector (M) Female Contacts (F)
5A <b>(CD)</b>	02 \ 03 \ 04 \ 05 \ 06 \ 07 \ 08 \ 09	CD-2 AFMM-RL7AXX	CD- 2 AMFM-RL7AXX* CD- 2 AMFM-RR7AXX*	CD-02BMFC-RL7001 CD-03BMFC-RL7001 CD-04BMFC-RL7001
10A <b>(CB)</b>	02 \ 03 \ 04	CB- 2 AFMM-RL7AXX*	CB- 2 AMFM-RL7A <u>XX</u> * CB- 2 AMFM-RR7A <u>XX</u> *	CB- 2 BMFC-RL7001

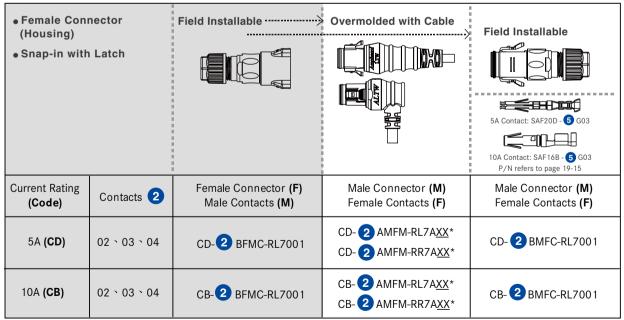
 $<sup>^{\</sup>star}$  XX: Choose the cable length from 01~99m

#### Middle Size: 13/16"-28 UNS >In-line

<ul><li>Female Condition (Housing)</li><li>Snap-in with</li></ul>		Field Installable	Overmolded with Cable	Field Installable  5A Contact: SAM20D - 3 G03  10A Contact: SAM16B - 3 G03  P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
5A <b>(CD)</b>	02 \ 03 \ 04	CD-2 BFFC-RL7001	CD- 2 AMMM-RL7AXX* CD- 2 AMMM-RR7AXX*	CD-2 BMMC-RL7001
10A <b>(CB)</b>	02 \ 03 \ 04	CB-2 BFFC-RL7001	CB- 2 AMMM-RL7AXX* CB- 2 AMMM-RR7AXX*	CB- 2 BMMC-RL7001

<sup>\*</sup>  $\underline{XX}\!\!:$  Choose the cable length from 01~99m

### → Middle Size: 13/16"-28 UNS >In-line



<sup>\*</sup>  $\underline{XX}$ : Choose the cable length from 01~99m

#### □ Large Size: 1"-20UNS > Receptacle with Wire Harness and Mating Pair

• Female Connector (Housing)		Receptacle with ······ Wire Harness	Overmolded with Cable	Field Installable
• Snap-in with Latch				
				20A Contact: SAM12C - <b>5</b> G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector ( <b>M</b> ) Male Contacts ( <b>M</b> )	Male Connector (M) Male Contacts (M)
5A <b>(DD)</b>	10 \ 12 \ 14 \ 18	DD- 2 RFFC-RC7B <u>XX</u> * DD- 2 RFFC-RS7B <u>XX</u> *	DD- 2 AMMM-RL7AXX**	
20A <b>(DC)</b>	02 \ 03 \ 04	DC-2 RFFC-RC7A <u>XX</u> * DC-2 RFFC-RS7A <u>XX</u> *	DC- 2 AMMM-RL7AXX**	DC- 2 BMMC-RL7001

<sup>\*</sup> XX: Choose the wire harness length: (10) 10cm; (30) 30cm

## □ Large Size: 1"-20UNS > Receptacle with Wire Harness and Mating Pair

Female Connector     (Housing)		Receptacle with	Overmolded with Cable	Field Installable
Snap-in with Latch				
				20A Contact: SAF12C - 5 G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Male Contacts <b>(M)</b>	Male Connector <b>(M)</b> Female Contacts <b>(F)</b>	Male Connector <b>(M)</b> Female Contacts <b>(F)</b>
5A <b>(DD)</b>	10 \ 12 \ 14	DD- 2 RFMC-RC7B <u>XX</u> * DD- 2 RFMC-RS7B <u>XX</u> *	DD- 2 AMFM-RL7AXX**	
20A <b>(DC)</b>	02 \ 03 \ 04	DC-2 RFMC-RC7AXX* DC-2 RFMC-RS7AXX*	DC- 2 AMFM-RL7AXX**	DC- 2 BMFC-RL7001

<sup>\*</sup> XX: Choose the wire harness length: (10) 10cm; (30) 30cm

<sup>\*\*</sup>  $\underline{XX}$ : Choose the cable length from 01~99m

<sup>\*\*</sup>  $\overline{XX}$ : Choose the cable length from 01~99m

## □ Large Size: 1"-20UNS >In-Line

Female Connector     (Housing)     Snap-in with Latch		Overmolded with Cable	Overmolded with Cable	Field Installable
				20A Contact: SAM 12C - <b>5</b> G03
Current Rating		Female Connector ( <b>F</b> )	Male Connector ( <b>M</b> )	P/N refers to page 19-15  Male Connector (M)
(Code)	Contacts 2	Female Contacts <b>(F)</b>	Male Contacts (M)	Male Contacts (M)
5A <b>(DD)</b>	10 \ 12 \ 14 \ 18	DD- 2 AFFM-RL7A <u>XX</u> *	DD- 2 AMMM-RL7A <u>XX</u> *	
20A <b>(DC)</b>	02 \ 03 \ 04	DC-2 AFFM-RL7A <u>XX</u> *	DC- 2 AMMM-RL7A <u>XX</u> *	DC-2 BMMC-RL7001

<sup>\*</sup>  $\underline{XX}$ : Choose the cable length from 01~99m

### □ Large Size: 1"-20UNS >In-Line

• Female Connector (Housing)		Overmolded with Cable>	Overmolded with Cable	Field Installable
● Snap-in with Latch				
				20A Contact: SAF12C - <b>(5)</b> G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector (F) Male Contacts (M)	Male Connector (M) Female Contacts (F)	Male Connector (M) Female Contacts (F)
5A <b>(DD)</b>	10 \ 12 \ 14	DD- 2 AFMM-RL7AXX*	DD- 2 AMFM-RL7A <u>XX</u> *	
20A <b>(DC)</b>	02 \ 03 \ 04	DC-2 AFMM-RL7AXX*	DC- 2 AMFM-RL7AXX*	DC- 2BMFC-RL7001

<sup>\*</sup>  $\underline{XX}$ : Choose the cable length from 01~99m

### □ Large Size: 1"-20UNS >In-Line

• Female Connector (Housing)		Field Installable	Overmolded with Cable	Field Installable
• Snap-in with Latch				
				20A Contact: SAM12C - <b>5</b> G03
				P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector <b>(M)</b> Male Contacts <b>(M)</b>	Male Connector ( <b>M</b> ) Male Contacts ( <b>M</b> )
5A <b>(DD)</b>	10 \ 12 \ 14 \ 18		DD- 2 AMMM-RL7A <u>XX</u> *	
20A <b>(DC)</b>	02 \ 03 \ 04	DC-2 BFFC-RL7001	DC- 2 AMMM-RL7A <u>XX</u> *	DC- 2BMMC-RL7001

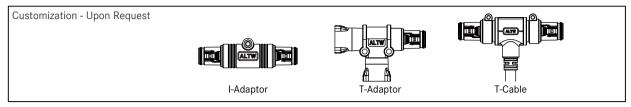
<sup>\*</sup> XX: Choose the cable length from 01~99m

### □ Large Size: 1"-20UNS >In-Line

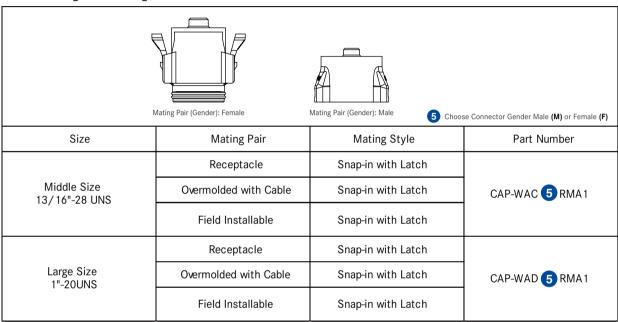
Female Connector     (Housing)		Field Installable	Overmolded with Cable	Field Installable
● Snap-in with Latch				
				20A Contact: SAF12C - <b>5</b> G03
				P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Male Contacts <b>(M)</b>	Male Connector <b>(M)</b> Female Contacts <b>(F)</b>	Male Connector (M) Female Contacts (F)
5A <b>(DD)</b>	10 \ 12 \ 14 \ 18		DD- 2 AMFM-RL7A <u>XX</u> *	
20A <b>(DC)</b>	02 \ 03 \ 04	DC-2 BFMC-RL7001	DC- 2 AMFM-RL7A <u>XX</u> *	DC- 2 BMFC-RL7001

<sup>\*</sup> XX: Choose the cable length from 01~99m

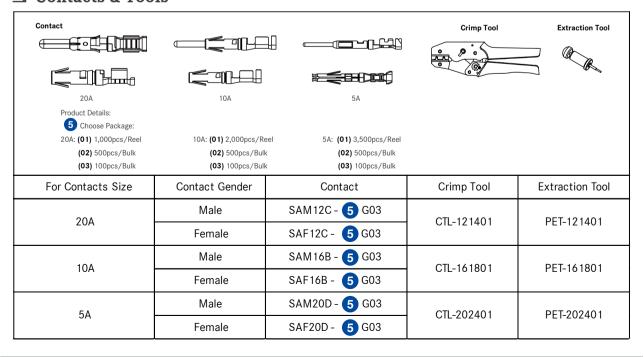
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#### □ Contacts & Tools



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