



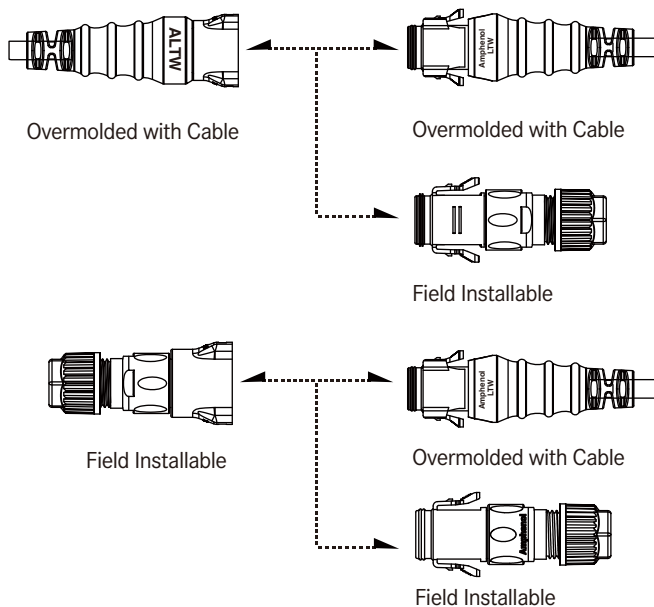
CATALOGUE

RBL Connector

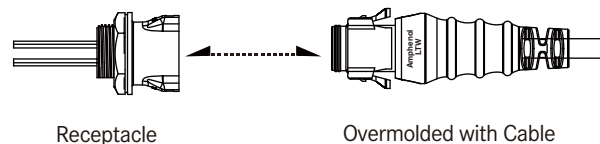


Range Overview

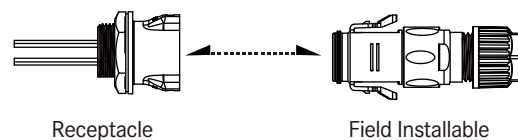
┘ In-line



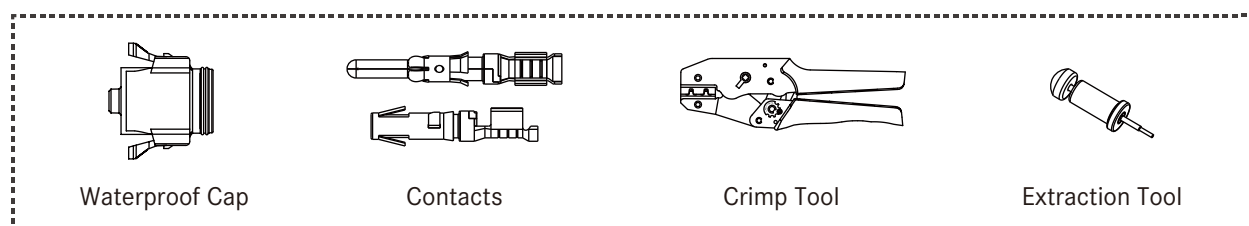
┘ Receptacle and Mating Pair



┘ Receptacle to Field Installable



┘ 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	$\leq 10\text{m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$ 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

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

Ordering Information

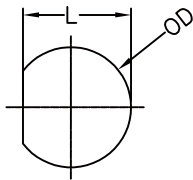
1		2		3		4		5		6		7		8		9		10											
Specification / Current Rating																													
> Middle size: 13 / 16"-28 UNS										> Large Size: 1"-20UNS																			
(CD) 5A										(DD) 5A																			
(CB) 10A										(DC) 20A																			
Number of Contacts																													
02 、 03 、 04.....																													
EX. (04) = 4 Contacts																													
Connector Body (Style)																													
> For Receptacle										> For Ovremolded with Cable										> For Field installable									
(R) Rear Fastened										(A) With Strain Relief										(B) Without Strain Relief									
Connector (Housing) Gender																													
(M) Male										(F) Female																			
Contact Gender																													
(M) Male																													
(F) Female																													
Assembly Style																													
> For Receptacle										> For Overmolded with Cable										> For Field Installable									
(C) Crimp Type										(M) Overmolder with cable										(C) Field Installable (Crimp Type)									
Mating Style																													
(R) Snap-in with Latch																													
Backshell																													
> For Receptacle										> For Overmolded with Cable										> For Field Installable									
(C) Circular										(L) Straight										(L) Straight									
(S) Square Flange										(R) Right Angle																			
Waterproof Rating																													
(7) IP 67																													
More information																													
> For Receptacle with Wireharness										> For Overmolded with Cable																			
(□)+(■) : Wire Type + Wire Length										(□)+(■) : Cable Type + Cable Length																			
e.g. (A10) = UL1015 Wire + 10 CM																													
(□) : Wire Type					(■) : Wire Length					(□) : Cable Type					(■) : Cable Length														
(A) UL1015 Wire					(10) 10CM					(A) UL2464 Cable					From 1M to 99M														
(B) UL1430 Wire					(30) 30CM					(D) UL21388 Cable					e.g.(01)= 1M														
										(E) SJTW Cable																			

Physical Dimension

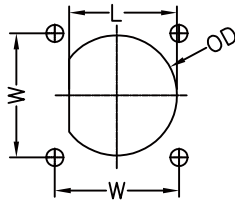
Receptacle

Panel Cut-Out

A Backshell: Circular



B Backshell: Square Flange

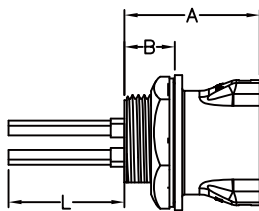


AMP		Dimension	Type	L	W	OD
Size	Current Rating (Code)	Female				
Middle Size	5A(CD)	A	19.4	-	20.8	
		B		22.3		
	10A(CB)	A		-		
		B		22.3		
Large Size	5A(DD)	A	23.6	-	25.6	
		B		26.0		
	20A(DC)	A		-		
		B		26.0		

Unit: mm

Connector Dimension

A Backshell: Circular



AMP		Dimension	A	B	OD	L(cm)	Panel Thickness Max
Size	Current Rating (Code)	Female					
Middle Size	5A(CD)	29.5	11.0	29.5	10 / 30	5.0	
	10A(CB)						
Large Size	5A(DD)	28.4	10.3	36.0	10 / 30	5.0	
	20A(DC)						

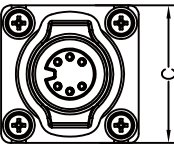
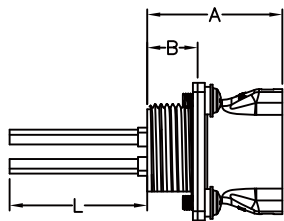
Unit: mm

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

Receptacle

Connector Dimension

B Backshell: Square Flange

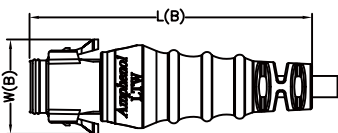
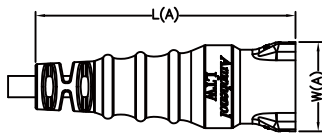


AMP		Dimension		A	B	C	L(cm)	Panel Thickness Max
Size	Current Rating (Code)	Female						
Middle Size	5A(CD)	29.5	11.0	30.0	10 / 30	—		
	10A(CB)							
Large Size	5A(DD)	28.4	10.3	36.0	10 / 30	—		
	20A(DC)							

Unit: mm

Overmolded with Cable

With Strain Relief / Straight

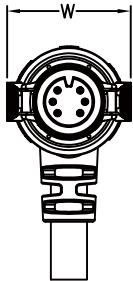


AMP		Dimension		L		W	
Size	Current Rating (Code)	Female (A)	Male (B)	Female (A)	Male (B)	Female (A)	Male (B)
Middle Size	5A(CD)	79.4 (Ref.)	86.3 (Ref.)	27.3	28.8		
	10A(CB)						
Large Size	5A(DD)	90.0 (Ref.)	97.0 (Ref.)	32.5	34.3		
	20A(DC)						

Unit: mm

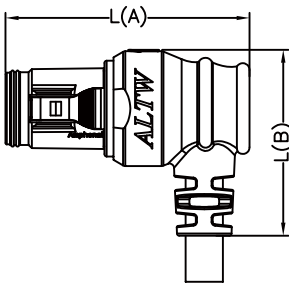
Overmolded with Cable

With Strain Relief / Right Angle



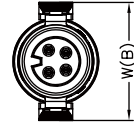
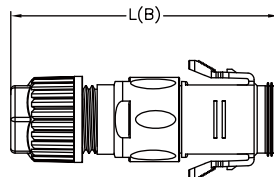
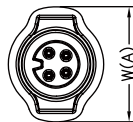
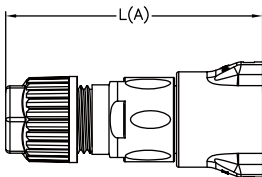
AMP		Dimension	L(A)	L(B)	W
Size	Current Rating (Code)	Male			
Middle Size	5A(CD)	53.8	40.6	28.8	
	10A(CB)				

Unit: mm



Field Installable

Without Strain Relief / Straight



AMP		Dimension		L		W	
Size	Current Rating (Code)	Female (A)	Male (B)	Female (A)	Male (B)	Female (A)	Male (B)
Middle Size	5A(CD)	60.9 (Ref.)	63.5 (Ref.)	27.3	28.0		
	10A(CB)						
Large Size	20A(DC)	68.9 (Ref.)	72.5 (Ref.)	32.5	34.3		

Unit: mm

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

Contact Configuration

	Middle Size (C)							
	5A (CD)				10A (CB)			
4 5	MM	FF	MF	FM	MM	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 (03)	 C F	 R C F	 C F	 R C F	 C F	 R C F	 C F	 R C F
4 Pin (04)	 C F	 R C F	 C F	 R C F	 C F	 R C F	 C F	 R C F
5 Pin (05)	 C	 C R	 C	 C R				
6 Pin (06)	 C	 C R	 C	 C R				
7 Pin (07)	 C	 C R	 C	 C R				
8 Pin (08)	 C	 C R	 C	 C R				
9 Pin (09)	 C	 C R	 C	 C R				
10 Pin (10)								
12 Pin (12)								
14 Pin (14)								
18 Pin (18)								

	Large Size (D)							
	5A (DD)				20A (DC)			
4 5	MM	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 (04)								
					C F	R C F	C F	R C F
5 Pin (05)								
6 Pin (06)								
7 Pin (07)								
8 Pin (08)								
9 Pin (09)								
10 Pin (10)								
	C	C R	C	C R				
12 Pin (12)								
	C	C R	C	C R				
14 Pin (14)								
	C	C R	C	C R				
18 Pin (18)								
	C	C R	C	C R				

R: Receptacle

C: Overmolded with cable

F: Field Installable

▲ 5A (CD/DD)

■ 10A (CB)

◆ 20A (DC)

Contact Number:

e.g. 2 Pin (02)

Connector (Housing) Gender:

Male(M) or Female(F)

Contact Gender:

Male(M) or Female(F)

More to Choose:

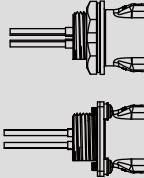
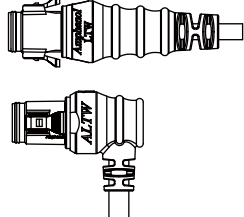
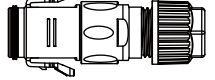
● Crimp (C)



*The Plated thickness is customisation available upon request.

Find Our Standard Products

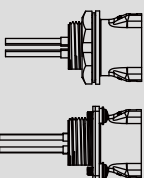
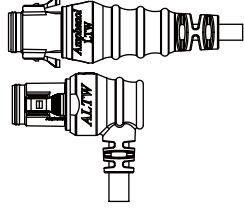
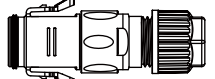
Middle Size: 13/16"-28 UNS > Receptacle with Wire Harness and Mating Pair

- Female Connector (Housing) - Snap-in with Latch		Receptacle with Wire Harness	Overmolded with Cable	Field Installable
				 5A Contact: SAM20D - 5 G03 10A Contact: SAM16B - 5 G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
5A (CD)	02 、 03 、 04 、 05 、 06 、 07 、 08 、 09	CD- 2 RFFC-RC7BXX* CD- 2 RFFC-RS7BXX*	CD- 2 AMMM-RL7AXX** CD- 2 AMMM-RR7AXX**	CD-02BMMC-RL7001 CD-03BMMC-RL7001 CD-04BMMC-RL7001
10A (CB)	02 、 03 、 04	CB- 2 RFFC-RC7AXX* CB- 2 RFFC-RS7AXX*	CB- 2 AMMM-RL7AXX** CB- 2 AMMM-RR7AXX**	CB- 2 BMMC-RL7001

* XX: Choose the wire harness length: (10) 10cm; (30) 30cm

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

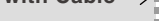
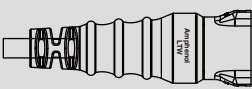
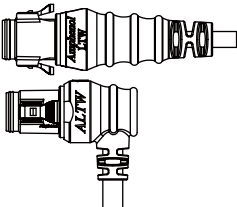
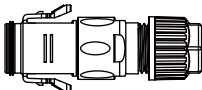
Middle Size: 13/16"-28 UNS > Receptacle with Wire Harness and Mating Pair

- Female Connector (Housing) - Snap-in with Latch		Receptacle with Wire Harness	Overmolded with Cable	Field Installable
				 5A Contact: SAF20D - 5 G03 10A Contact: SAF16B - 5 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 (CD)	02 、 03 、 04 、 05 、 06 、 07 、 08 、 09	CD- 2 RFMC-RC7BXX* CD- 2 RFMC-RS7BXX*	CD- 2 AMFM-RL7AXX** CD- 2 AMFM-RR7AXX**	CD-02BMMC-RL7001 CD-03BMMC-RL7001 CD-04BMMC-RL7001
10A (CB)	02 、 03 、 04	CB- 2 RFMC-RC7AXX* CB- 2 RFMC-RS7AXX*	CB- 2 AMFM-RL7AXX** CB- 2 AMFM-RR7AXX**	CB- 2 BMFC-RL7001

* XX: Choose the wire harness length: (10) 10cm; (30) 30cm

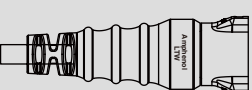
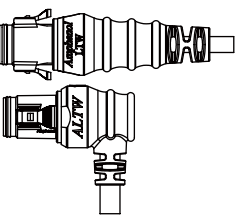
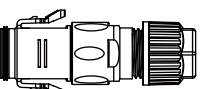
** XX: Choose the cable length from 01~99m

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 - 5 G03  10A Contact: SAM16B - 5 G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
5A (CD)	02 、 03 、 04 、 05 、 06 、 07 、 08 、 09	CD- 2 AFFM-RL7A XX *	CD- 2 AMMM-RL7A XX * CD- 2 AMMM-RR7A XX *	CD-02BMMC-RL7001 CD-03BMMC-RL7001 CD-04BMMC-RL7001
10A (CB)	02 、 03 、 04	CB- 2 AFFM-RL7A XX *	CB- 2 AMMM-RL7A XX * CB- 2 AMMM-RR7A XX *	CB- 2 BMMC-RL7001

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

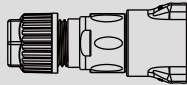
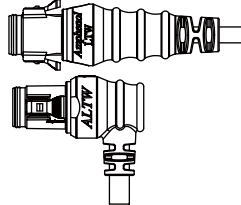
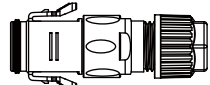
Middle Size: 13/16"-28 UNS > In-Line

- Female Connector (Housing) - Snap-in with Latch		Overmolded with Cable  	Overmolded with Cable  	Field Installable   5A Contact: SAF20D - 5 G03  10A Contact: SAF16B - 5 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 (CD)	02 、 03 、 04 、 05 、 06 、 07 、 08 、 09	CD- 2 AFMM-RL7A XX	CD- 2 AMFM-RL7A XX * CD- 2 AMFM-RR7A XX *	CD-02BMFC-RL7001 CD-03BMFC-RL7001 CD-04BMFC-RL7001
10A (CB)	02 、 03 、 04	CB- 2 AFMM-RL7A XX *	CB- 2 AMFM-RL7A XX * CB- 2 AMFM-RR7A XX *	CB- 2 BMFC-RL7001

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

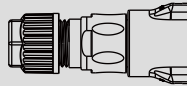
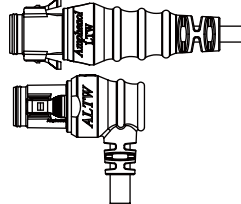
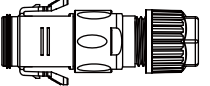
【Note】 Design and specification are subject to change without notice.

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

- Female Connector (Housing) - Snap-in with Latch		Field Installable	Overmolded with Cable	Field Installable
				 5A Contact: SAM20D - 5 G03 10A Contact: SAM16B - 5 G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
5A (CD)	02 、 03 、 04	CD- 2 BFFC-RL7001	CD- 2 AMMM-RL7A XX * CD- 2 AMMM-RR7A XX *	CD- 2 BMMC-RL7001
10A (CB)	02 、 03 、 04	CB- 2 BFFC-RL7001	CB- 2 AMMM-RL7A XX * CB- 2 AMMM-RR7A XX *	CB- 2 BMMC-RL7001

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

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

- Female Connector (Housing) - Snap-in with Latch		Field Installable	Overmolded with Cable	Field Installable
				 5A Contact: SAF20D - 5 G03 10A Contact: SAF16B - 5 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 (CD)	02 、 03 、 04	CD- 2 BFMC-RL7001	CD- 2 AMFM-RL7A XX * CD- 2 AMFM-RR7A XX *	CD- 2 BMFC-RL7001
10A (CB)	02 、 03 、 04	CB- 2 BFMC-RL7001	CB- 2 AMFM-RL7A XX * CB- 2 AMFM-RR7A XX *	CB- 2 BMFC-RL7001

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

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

Female Connector (Housing) Snap-in with Latch		Receptacle with Wire Harness	Overmolded with Cable	Field Installable 20A Contact: SAM12C - 5 G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
5A (DD)	10、12、14、18	DD- 2 RFFC-RC7BXX* DD- 2 RFFC-RS7BXX*	DD- 2 AMMM-RL7AXX**	--
20A (DC)	02、03、04	DC- 2 RFFC-RC7AXX* DC- 2 RFFC-RS7AXX*	DC- 2 AMMM-RL7AXX**	DC- 2 BMMC-RL7001

* XX: Choose the wire harness length: **(10)** 10cm; **(30)** 30cm

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

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

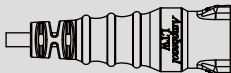
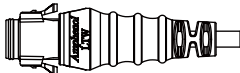
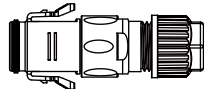
Female Connector (Housing) Snap-in with Latch		Receptacle with Wire Harness	Overmolded with Cable	Field Installable 20A Contact: SAF12C - 5 G03 P/N refers to page 19-15
Current Rating (Code)	Contacts 2	Female Connector (F) Male Contacts (M)	Male Connector (M) Female Contacts (F)	Male Connector (M) Female Contacts (F)
5A (DD)	10、12、14	DD- 2 RFMC-RC7BXX* DD- 2 RFMC-RS7BXX*	DD- 2 AMFM-RL7AXX**	--
20A (DC)	02、03、04	DC- 2 RFMC-RC7AXX* DC- 2 RFMC-RS7AXX*	DC- 2 AMFM-RL7AXX**	DC- 2 BMFC-RL7001

* XX: Choose the wire harness length: **(10)** 10cm; **(30)** 30cm

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

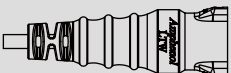
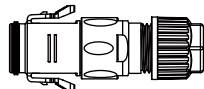
【Note】 Design and specification are subject to change without notice.

Large Size: 1"-20UNS >In-Line

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

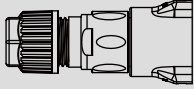
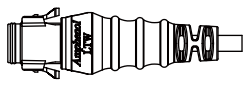
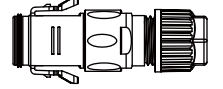
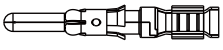
* XX: Choose the cable length from 01~99m

Large Size: 1"-20UNS >In-Line

- Female Connector (Housing) - Snap-in with Latch		Overmolded with Cable 	Overmolded with Cable 	Field Installable   20A Contact: SAF12C - 5 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 (DD)	10 、 12 、 14	DD- 2 AFMM-RL7A <u>XX</u> *	DD- 2 AMFM-RL7A <u>XX</u> *	--
20A (DC)	02 、 03 、 04	DC- 2 AFMM-RL7A <u>XX</u> *	DC- 2 AMFM-RL7A <u>XX</u> *	DC- 2 BMFC-RL7001

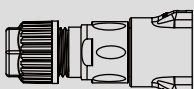
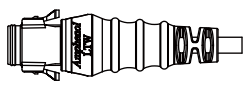
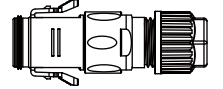
* XX: Choose the cable length from 01~99m

Large Size: 1"-20UNS >In-Line

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

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

Large Size: 1"-20UNS >In-Line

- Female Connector (Housing) - Snap-in with Latch		Field Installable 	Overmolded with Cable 	Field Installable   20A Contact: SAF12C-5 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 (DD)	10、12、14、18	--	DD-② AMFM-RL7A <u>XX</u> *	--
20A (DC)	02、03、04	DC-② BFMC-RL7001	DC-② AMFM-RL7A <u>XX</u> *	DC-② BMFC-RL7001

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

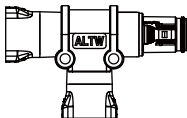
【Note】 Design and specification are subject to change without notice.

I-Adaptor, T-Adaptor & T-Cable

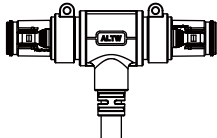
Customization - Upon Request



I-Adaptor

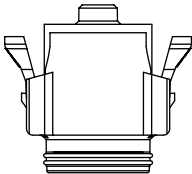


T-Adaptor

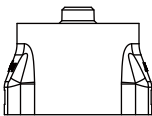


T-Cable

Waterproof Cap



Mating Pair (Gender): Female



Mating Pair (Gender): Male

5 Choose Connector Gender Male (M) or Female (F)

Size	Mating Pair	Mating Style	Part Number
Middle Size 13/16"-28 UNS	Receptacle	Snap-in with Latch	CAP-WAC 5 RMA1
	Overmolded with Cable	Snap-in with Latch	
	Field Installable	Snap-in with Latch	
Large Size 1"-20UNS	Receptacle	Snap-in with Latch	CAP-WAD 5 RMA1
	Overmolded with Cable	Snap-in with Latch	
	Field Installable	Snap-in with Latch	

Contacts & Tools

Contact 20A 10A 5A Product Details: 5 Choose Package: 20A: (01) 1,000pcs/Reel (02) 500pcs/Bulk (03) 100pcs/Bulk 10A: (01) 2,000pcs/Reel (02) 500pcs/Bulk (03) 100pcs/Bulk 5A: (01) 3,500pcs/Reel (02) 500pcs/Bulk (03) 100pcs/Bulk			Crimp Tool	Extraction Tool
For Contacts Size	Contact Gender	Contact	Crimp Tool	Extraction Tool
20A	Male	SAM12C - 5 G03	CTL-121401	PET-121401
	Female	SAF12C - 5 G03		
10A	Male	SAM16B - 5 G03	CTL-161801	PET-161801
	Female	SAF16B - 5 G03		
5A	Male	SAM20D - 5 G03	CTL-202401	PET-202401
	Female	SAF20D - 5 G03		

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Fax: : +86-512-5761-0515

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Sales & Marketing Department | Email : sales@ltw-tech.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

[SAF16B-02G03](#) [PET-121401](#) [SAF20D-02G03](#) [SAM20D-02G03](#) [SAM16B-02G03](#) [SAF12C-02G03](#) [SAM12C-02G03](#)
[CTL-121401](#) [SAF12C-01G03](#) [SAF20D-01G03](#) [SAF12C-03G03](#) [SAF20D-03G03](#) [SAM12C-03G03](#) [SAF16B-03G03](#)
[SAM16B-03G03](#) [CTL-161801](#) [CTL-202401](#) [DD-14RFFC-RS7B10](#) [DD-18RFFC-RC7B30](#) [SAM20D-01G03](#) [DD-](#)
[14RFFC-RC7B10](#) [SAM20D-03G03](#)