

# Ceres

## Product Catalogue



**Q-FLEX**

[www.q-flex.fi](http://www.q-flex.fi) [info@q-flex.fi](mailto:info@q-flex.fi)  
+358 2 4894 500

- IP67 Mated Or Unmated
- Metal or Plastic
- Mating Style: 2 or 3 Points Lock Bayonet, Screw Thread, Push Lock
- Assembly Style: Solder, Screw-in, PCB 180°, PCB 90°, Crimp
- Power, Data / Signal, Hybrid
- Flammability UL 94V-0
- UV Resistant



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IP 67



Corrosion  
Resistant



High Mating  
Durability



UV  
Resistant



UL  
Recognized

# PRODUCT SELECTION GUIDE

## Circular (Ceres, X-Lok, M)

	Mating Style						Materials	No. of Contacts	Contacts		Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	High Speed		Salt Spray (Connector Mated)
	2 Points Lock	3 Points Lock	Push Lock	Push Pull	Screw Thread	Others			Gold Plated	Silver Plated					Cat. 5e	Cat. 6A	
<b>Ceres Series</b>																	
Mini	•				•		B	2-6	•		250V	2A-5A	26-24	2,000			500h
Standard	•				•		B	2-12	•		250-600V	2A-10A 5A+2A 10A+5A	26-20	2,000			500h
Middle	•	•			•		P	2-18	•	•	250-600V	2A-20A 5A+2A 10A+2A 10A+5A	24-14	2,000			500h
Large	•				•		B	2-22	•	•	250-600V	2A-20A 20A+2A 20A+5A	26-16	2,000			500h
Macro	•						P	31	•		200V	5A	26	2,000			500h
PLD			•				P	2-4	•		250V	5A	26-20	2,000			500h
MAB	•						P	4	•		250V	10A	20	2,000			500h
GBD		•					P	8	•		250V	10A+5A	24-20	2,000			500h
<b>X-LOK Series</b>																	
Mini / LED			•				B	2-33	•		30-630V	0.5A-16A 5A-10A	32-14	1,000	•	•	500h
Standard			•				P	2-8	•		300-600V	5A-10A 10A+5A	26-16	1,000			500h
Middle			•				P	2-12	•	•	300-600V	5A-20A 10A+5A	26-12	1,000			500h
Large			•				B	2-100	•	•	60V (0.5A) 300-600V	0.5A-20A 20A+5A 50A	32-26	1,000			500h
Macro			•				P	4-31	•	•	300-600V	50A+5A	22-8	1,000			500h
<b>M Series</b>																	
M5					•		M	3-4	•		60V	1A	26	1,000			48h
Guided M8 / LED					•	Snap-in	B	2-6	•		30-60V	1.5A-3A 3A+1.5A	24-22	1,000			48h
M8 / LED					•	Snap-in	B	3-13	•		30-60V	0.5A-3A	32-22	1,000			48h
M10.5					•		M	2-5	•		30V	2A	24	1,000			48h
M12 A / LED			•	•			B	3-28	•		30-250V	0.5A-4A	30-22	1,000	•		48h
M12 B / LED			•	•			B	5	•		60V	4A	26-22	1,000			48h
M12 D / LED			•	•			B	4	•		250V	4A	26-22	1,000	•		48h
M12 I			•	•			B	5	•		60V	4A	22	1,000			48h
M12 K / LED			•	•			B	3-5	•		630V	12A, 16A	14	1,000			48h
M12 L / LED			•	•			B	2-5	•		63V	16A	14	1,000			48h
M12 M / LED			•	•			B	3-6	•		630V	8A	16	1,000			48h
M12 S			•	•			B	3-4	•		630V	12A	16	1,000			48h
M12 T			•	•			B	2-4	•		63V	12A	16	1,000			48h
M12 X			•	•			M	8	•		30-60V	0.5A	26	1,000		•	48h
M23					•		M	6	•		600V	28A	14-12	1,000			48h

Remarks:  
**Materials:** P (Plastic), M (Metal), B (Both)  
**Assemble Style:** R0 (Receptacle), RW (Receptacle With Wires), RP (Receptacle With Pigtail), RC (Receptacle With Overmolded Cable), OC (Overmolded With Cables), FI (Field Installable)  
**Vibration:** (1) 10-500 Hz @Amplitude 0.35mm; (2) 10-55Hz @Amplitude 1.52mm  
**Operation Temperature & IP Rating:** R0 (Receptacle), RW (Receptacle With Wires), OC (Overmolded With Cables), FI (Field Installable)



# PRODUCT SELECTION GUIDE

## Circular (FLOS, Power, RBL, DeepTronica)

	Mating Style						Materials	No. of Contacts	Contacts		Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector Mated)
	2 Points Lock	3 Points Lock	Push Lock	Push Pull	Screw Thread	Others			Gold Plated	Silver Plated					
<b>FLOS Series</b>															
B				•			M	2-32	•		160-700V	1.5A-25A	28-16	5,000	144h
K				•			M	2-32	•		160-700V	1.5A-25A	28-16	5,000	144h
K (FLOS+)				•			M	2-32	•		160-700V	1.5A-25A	28-16	5,000	1000h
C				•			M	2-19	•		160-700V	1.5A-20A	28-16	3,000	144h
S				•			M	1	•		260-1000V	15A	28-16	3,000	144h
Y				•		Break Away	M	2-26	•		260-1000V	5A-14A	28-16	5,000	96h
P				•			P	2-14	•		200-400V	2A-10A	28-16	2,000	
N				•			M	2-19	•		200-800V	5A-22A	28-16	3,000	144h
<b>Power Series</b>															
PWE					•		P	5-7	•		277V	8A	20-17	500	500h
PWF					•		P	2-4	•		277V	12A	18-15	500	500h
PWG					•		P	4	•		277V	16A	18-14	500	500h
PWC	•	•					P	3	•		277V	20A	14-12	500	500h
PWCU	•	•					P	4 & 12	•		277V	20A+2A	14-12, 24-22	500	500h
PWH		•			•		P	3, 5	•		660V (AC) 1000V (DC)	25A	12	500	500h
PWL		•					P	3	•		300V	30A	14-8	500	500h
PWM		•					P	2	•		600V	50A	9-8	500	720h
PWMU		•					P	2+2, 2+4	•		600V	50A+2A	9-8, 22-20	500	720h
PWN		•					P	2	•		600V	70A	8-6	500	720h
PWNU		•					P	2+2, 2+4	•		600V	70A + 2A	8-6, 22-20	500	720h
PWP		•					P	2 & 3	•		600V	80A	4	500	720h
PWPD		•					P	2+2, 2+4, 3+2, 3+4	•		600V	80A+5A	4, 20	500	720h
PWX		•					P	9 (30A) 14 (30A+5A) 5 (50A) 12 (50A+5A) 4 (80A) 7 (80A+5A)	•		300-600V	30A, 30A+5A 50A, 50A+5A 80A, 80A+5A	22-20, 14-8, 9-8, 4	500	720h
<b>RBL Series</b>															
Middle			With Latch				P	2-9	•		300V	5A-10A 10A+5A	20-16	250	48h
Large			With Latch				P	2-18	•		300V	5A-20A 20A+5A	24-12	250	48h
<b>DeepTronica</b>															
Bathypelagic (4,000 m)				•			B								
AbyssoPelagic (6,000 m)				•			B	1-27			200V-1000V	2A-50A	22-8	500-1,000	1000h
Hadopelagic (11,000 m)				•			B								

Remarks:  
**Materials:** P (Plastic), M (Metal), B (Both)  
**Assemble Style:** RO (Receptacle), RW (Receptacle With Wires), RP (Receptacle With Pigtail), RC (Receptacle With Overmolded Cable), OC (Overmolded With Cables), FI (Field Installable)  
**Vibration:** (1) 10-500 Hz @Amplitude 0.35mm; (2) 10-55Hz @Amplitude 1.52mm  
**Operation Temperature & IP Rating:** RO (Receptacle), RW (Receptacle With Wires), OC (Overmolded With Cables), FI (Field Installable)



# PRODUCT SELECTION GUIDE

## Circular (HS-Lok, NMEA 2000, Mini, Heavy Duty Shielded)

	Mating Style						Materials	No. of Contacts	Contacts		Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector, Mated)
	2 Points Lock	3 Points Lock	Push Lock	Push Pull	Screw Thread	Others			Gold Plated	Silver Plated					
<b>HS-Lok Series</b>															
Q8				•			B	2-6	•		100V (DC), 300V, 300V (AC) + 100V (DC)	2A, 5A, 5A+2A	24-20	2,000	500h
<b>NMEA 2000</b>															
Lite (Micro)				•	•		B	5	•		60V	4A	16*1P+20*1P, 18*1P+22*1P, 22*1P+24*1P	Push Pull 500, Screw Thread 1,000	Metal: 48h, Plastic: 1,000h
Heavy (Mini)					•		M	4-5	•		600V	8A	15*1P+18*1P, 16*1P+18*1P	1,000	
<b>7/8" Mini</b>															
7/8" Mini					•		M	2, 2+PE, 4, 4+PE, 6	•		600V	8A-13A	16	1,000	48h
<b>Heavy Duty Shielded</b>															
Heavy Duty Shielded					*		M	2-14	•		50-300V	5A-40A	22-8	1,000	48h / 500h

Remarks:  
Materials: P (Plastic), M (Metal), B (Both)  
Assemble Style: R0 (Receptacle), RW (Receptacle With Wires), RP (Receptacle With Pigtail), RC (Receptacle With Overmolded Cable), OC (Overmolded With Cables), FI (Field Installable)  
Vibration: (1) 10-500 Hz @Amplitude 0.35mm; (2) 10-55Hz @Amplitude 1.52mm  
Operation Temperature & IP Rating: R0 (Receptacle), RW (Receptacle With Wires), OC (Overmolded With Cables), FI (Field Installable)

# PRODUCT SELECTION GUIDE

(RO) Receptacle				(FI) Field Installable					OC	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
Solder	PCB 180	PCB 90	RW	Solder	Crimp	Screw In	Push In	IDC									
•				•					•	•	(2)		•	UL2238, UL50e	<b>RO:</b> IP68 (Unmated) <b>OC:</b> IP68 (Mated) <b>FI:</b> IP68 (Mated)	◦ <b>RO:</b> -40°C - 105°C ◦ <b>OC:</b> -40°C - 105°C ◦ <b>FI:</b> -40°C - 105°C	
•	•		•	•		•	•		•		(1)	•	•	NMEA 2000	<b>RO:</b> IP68 (Unmated) <b>RW:</b> IP68 (Unmated) <b>OC:</b> IP68 (Mated)	◦ <b>RO:</b> -40°C - 105°C ◦ <b>RW:</b> -20°C - 85°C ◦ <b>OC:</b> -20°C - 85°C	
•	•					•	•		•	94-HB	(1)	•	•	NMEA 2000	<b>FI:</b> IP67 (Mated)	◦ <b>FI:</b> -40°C - 105°C	
•	•		•	•	•	•			•	•	(1)		•		<b>RO:</b> IP68 (Unmated) <b>RW:</b> IP68 (Unmated) <b>OC:</b> IP68 (Mated) <b>FI:</b> IP67 (Mated)	◦ <b>RO:</b> -40°C - 105°C ◦ <b>OC:</b> -40°C - 105°C ◦ <b>FI:</b> -40°C - 105°C	
•				•					•	•	94-HB	(1)	•	•	<b>RO:</b> IP68 (Unmated) <b>OC:</b> IP68 (Mated) <b>FI:</b> IP68 (Mated)	◦ <b>RO:</b> -40°C - 105°C ◦ <b>RW:</b> -20°C - 85°C ◦ <b>OC:</b> -20°C - 85°C ◦ <b>FI:</b> -40°C - 105°C	

# PRODUCT SELECTION GUIDE

## Other IO (RJ45, USB, D-Sub, SSL, HDMI, DVI)

	Mating Style					Materials	No. of Contacts	Gold Plated	Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	High Speed	
	2 Points Lock	3 Points Lock	Push Lock	Screw Thread	Others								Cat. 5e	Cat. 6A
<b>RJ45 Series</b>														
Middle		•		•		B	8		44-57V (DC)	Max. 1.5A	24	750	•	•
Large / I-Adaptor	•	•		•		P	8		44-57V (DC)	Max. 1.5A	24	750	•	
ODVA	•					P	8		44-57V (DC)	Max. 1.5A	24	750	•	
Self-Closing Cover						P	8		44-57V (DC)	Max. 1.5A		750	•	•
<b>USB Series</b>														
Mini USB Type B				•		P		•	30V	1.5A	28*1P + 28*3C	5,000		
Type A	•			•		B		•	30V	USB 2.0: 1.5A USB 3.2Gen1:	28*1P + 24*2C	1,500		
Type B	•			•		B		•	30V	USB 2.0: 1.5A	28*1P + 24*2C	1,500		
Micro USB Swift						M		•	30V (AC) 5V (DC)	1 & 5 Pin: 1.8A 2, 3 & 4 Pin: 1A		10,000		
Micro USB Swift-MU					Snap-in	P		•	30V (AC) 5V (DC)	1 & 5 Pin: 1.8A 2, 3 & 4 Pin: 1A	28	10,000		
Type C Swift-LP						M		•	30V (DC)	Up To 5A	32*1P + 24*1C + 28*1D	10,000		
Type C Swift-LA					Snap-in	P		•	30V (DC)	Up To 3A	32*1P + 24*1C + 28*1D	10,000		
Type C Swift-GG				•		B		•	30V (DC)	Up To 5A	32*1P + 24*1C + 28*1D	10,000		
Type C Swift-XL			•			P		•	30V (DC)	Up To 3A	32*1P + 24*1C + 28*1D	10,000		
<b>D-SUB Series</b>														
Standard				•	Automated Latch	M	9, 15, 25, 37, 50*	•	125V (DC)	5A	24	500		
High Density				•	Automated Latch	M	15, 26, 44, 62*, 78*	•	125V (DC)	2A	26	500		
<b>SSL Series</b>														
SSL1.1			•			P	2-6	•	100V	3A	22	100		
SSL1.2			•			P	2-4	•	250V	5A	22-18	30		
SSL1.3						P	1	•	500V	5A		10		
SSL2.1						P	2	•	600V	12A		20		
SSL2.3						P	2	•	500V	3A		100		
<b>HDMI Series</b>														
Circular				•		P	19	•	30V (AC)	0.5A	26	500		
Rectangular			•		With Latch	P	19	•	30V (AC)	0.5A	26	500		
Mini-HDMI				•		P	19	•	30V (AC)	0.5A	30	500		
<b>DVI Series</b>														
DDD						M	25	•	40V (AC)	1.5A	28	100		
DDS						M	19	•	40V (AC)	1.5A	28	100		
DID						M	29	•	40V (AC)	1.5A	28	100		
DIS						M	23	•	40V (AC)	1.5A	28	100		

Remarks:  
**Materials:** P (Plastic), M (Metal), B (Both)  
**Assemble Style:** RO (Receptacle), RW (Receptacle With Wires), RP (Receptacle With Pigtail), RC (Receptacle With Overmolded Cable), OC (Overmolded With Cables), FI (Field Installable)  
**Vibration:** (1) 10-500 Hz @Amplitude 0.35mm; (2) 10-55Hz @Amplitude 1.52mm  
**Operation Temperature & IP Rating:** RO (Receptacle), RW (Receptacle With Wires), OC (Overmolded With Cables), FI (Field Installable)

# PRODUCT SELECTION GUIDE

High Speed			Salt Spray (Connector, Mated)	RO	RW	RP	OC	FI	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Standard / Compliant / Certifications	Operating Temperature & IP Rating
USB 2.0	USB 3.2 Gen1	USB 3.2 Gen2													
			48h	PCB 90 & 180, Jack 90 & 180			•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ <b>RO</b> : -40°C - 105°C, IP67 (Unmated)
			48h	PCB180, Jack 90 & 180			•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ <b>RP</b> : -20°C - 85°C, IP67 (Unmated) ◦ <b>OC</b> : -20°C - 85°C, IP67P (Mated)
			48h	Jack 180			•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ <b>FI</b> : -40°C - 105°C, IP67 (Mated)
			48h	•					•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	-40°C - 105°C, IP67 (Unmated)
•			48h	•	•					94V-HB	(2)	•	•		◦ <b>RO</b> : -40°C - 105°C, IP67 (Unmated)
•	•		48h	Type 1 & 2, Jack, PCB 180	•		•			•	(2)	•	•		◦ <b>RW</b> : -20°C - 85°C, IP67 (Unmated)
•			48h	Type 1 & 2, Jack, PCB 180	•		•			•	(2)	•	•		◦ <b>OC</b> : -20°C - 85°C, IP67P (Mated)
•			48h	•						•	(2)	•	•		◦ <b>FI</b> : -40°C - 105°C, IP67 (Mated)
•			48h				•			•	(2)	•	•		-30°C - 80°C, IP67/IP68 (Unmated)
•			48h							•	(2)	•	•		-40°C - 80°C, IP67 (Mated)
		•	48h	•						•	(2)	•	•		-40°C - 85°C, IP67 (Unmated)
•	•		48h	•			•			•	(2)	•	•		◦ <b>RO</b> : -40°C - 85°C, IP68 (Unmated)
	•		48h	•						•	(2)	•	•		◦ <b>OC</b> : -20°C - 85°C, IP67 (Mated)
	•	•	48h	•			•			•	(2)	•	•		◦ <b>RO</b> : -40°C - 85°C, IP67 (Unmated)
	•		48h	•						•	(2)	•	•		◦ <b>OC</b> : -20°C - 85°C, IP67 (Mated)
			8h	Solder, PCB 90& 180			•				(2)	•	•		◦ <b>RO</b> : -40°C - 105°C, IP68 (Unmated)
			8h	Solder, PCB 90& 180			•				(2)	•	•		◦ <b>OC</b> : -20°C - 85°C, IP67P (Mated)
															◦ <b>FI</b> : -40°C - 105°C, IP67 (Mated)
				•			•			•	(2)		•	CSA C22.2, UL1977	-40°C - 105°C, Non-IP
				•			•			•	(2)		•	CSA C22.2, UL1977, cUL UL2238+UL50e	-40°C - 105°C, IP68 (Mated)
				•						•	(2)		•	CSA, UL1977	-40°C - 105°C, Non-IP
				•						•	(2)		•	CSA, UL1977	-40°C - 105°C, Non-IP
				•						•	(2)		•		-40°C - 105°C, Non-IP
			48h	•			•			94V-HB	(2)	•	•		◦ <b>RO</b> : -20°C - 85°C, IP67 (Unmated)
			48h	•			•			94V-1	(2)	•	•		◦ <b>OC</b> : -20°C - 85°C, IP67P (Mated)
			48h	•			•			•	(2)	•	•		
			8h	•			•				(2)		•		◦ <b>RO</b> : -40°C - 105°C, IP68 (Unmated)
			8h	•			•				(2)		•		◦ <b>OC</b> : -20°C - 85°C, IP67P (Mated)
			8h	•			•				(2)		•		
			8h	•			•				(2)		•		

# PRODUCT SELECTION GUIDE

## Other IO (Fiber, ZConnect, RF)

	Mating Style			Materials	No. of Contacts	Gold Plated	Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	High Speed	
	2 Points Lock	3 Points Lock	Push Lock								Screw Thread	Others
<b>Fiber Optic Series</b>												
LC		•										
SC		•										
<b>ZConnect Series</b>												
FPC / FFC / WTB				Quick Plug	B	40, 36, 20, 18, 12	•	120V	1A		10	
<b>RF Series</b>												
SMA Type					M	1	•	335 Volts RMS At Sea Level		1.13mm, 1.32mm, 1.37mm, RG178	500	
N Type					M	1	•	1,000 Volts RMS At Sea Level		1.13mm, 1.32mm, 1.37mm, RG142, RG178, G58 A/U	500	

## Other (Cable Joiner, Cable Gland, Protective Vent, LED)

	Mating Style		Materials	No. of Contacts	Contacts				Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Salt Spray (Connector, Mated)	Receptacle
	Push Lock With Latch	Screw Thread			Gold Plated	Nickel Plated	Thermo plastic	SUS316L					
<b>Cable Joiner Series</b>													
M20		•	P	None, 4	•				10A	22-16			
M32	•		P	None, 4	•				15A-30A	16-10			
FICXI Tube (11)		•	P	2-5		•		450V (Non-UL) 600V (UL)	10A-30A	20-12			
FICXI Tube (12)		•	P	2-5		•		450V (Non-UL) 600V (UL)	8A-20A	18-12			
FICXII Tube (13)		•	P	2-5		•		450V (Non-UL) 600V (UL)	8A-20A	18-12			
FICXT Tube (T2)		•	P	2-5		•		450V (Non-UL) 600V (UL)	10A-20A	20-12			
<b>Cable Gland Series</b>													
Cable Gland		•	B									•	
<b>Protective Vent</b>													
M6 Plastic		•	P								1,000h	•	
M12 Snap-in		•	P								1,000h	•	
M12 Stainless		•	M				•				1,000h	•	
M12 Plastic		•	P				•				1,000h	•	
M12 Metal		•	M			•					48h	•	
<b>LED Light Guide</b>													
Ø3mm			B				•	4V				•	
Ø5mm			M				•	4V				•	

Remarks:  
**Materials:** P (Plastic), M (Metal), B (Both)  
**Assemble Style:** R0 (Receptacle), RW (Receptacle With Wires), RP (Receptacle With Pigtail), RC (Receptacle With Overmolded Cable), OC (Overmolded With Cables), FI (Field Installable)  
**Vibration:** (1) 10-500 Hz @Amplitude 0.35mm; (2) 10-55Hz @Amplitude 1.52mm  
**Operation Temperature & IP Rating:** R0 (Receptacle), RW (Receptacle With Wires), OC (Overmolded With Cables), FI (Field Installable)

# PRODUCT SELECTION GUIDE

USB 2.0	High Speed		Salt Spray (Connector, Mated)	RO	RW	RP	OC	FI	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Standard / Compliant / Certifications	Operating Temperature & IP Rating
	USB 3.2 Gen1	USB 3.2 Gen2													
			48h	•				•	•						-40°C - 105°C, IP67 (Mated)
			48h	•				•	•						-40°C - 105°C, IP67 (Mated)
			48h						•				•		-40°C - 110°C, Non-IP
			48h	•								•	•	MIL-C-39012	-40°C - 105°C, IP68 (Unmated)
			48h	•								•	•	MIL-C-39012	-40°C - 105°C, IP68 (Unmated)

Field Installable	UV Resistant	UL 94V-0	Vibration	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
•	•	94V-2		•		IP67	-40°C - 105°C
•	•	•		•	UL6703A	IP67	-40°C - 105°C
•	•	•		•	CSA, UL2238, UL50e	IP68 (Mated)	-40°C - 105°C
•	•	•		•	CSA, UL2238, UL50e	IP68 (Mated)	-40°C - 105°C
•	•	•		•	CSA, UL2238, UL50e	IP68 (Mated)	-40°C - 105°C
•	•	•		•	CSA, UL2238, UL50e	IP68 (Mated)	-40°C - 105°C
•		94V-0 94V-2	(2)	•		IP67 (Mated) IP68 (Mated)	• <b>RO:</b> -20°C - 105°C • <b>FI:</b> -20°C - 105°C
	•	•		•		IP66, IP68	-40°C - 125°C
	•	•		•		IP68, IP69K	-40°C - 125°C
	•	•		•		IP68, IP69K	-40°C - 125°C
	•	•		•		IP68, IP69K	-40°C - 125°C
	•	•		•		IP68, IP69K	-40°C - 125°C
						IP67	• <b>Red &amp; Green:</b> -30°C - 80°C • <b>Others:</b> -40°C - 80°C
						IP67	• <b>Red &amp; Green:</b> -30°C - 80°C • <b>Others:</b> -40°C - 80°C

# Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	Deep Tronica	HS-Lok	NMEA 2000	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Fiber Optics	Zconnect	RF	Cable Joiner	Cable Gland	Vent	LED Light Guide	D-Sub
<b>LED Lighting</b>																								
Architectural Lighting	•	•	•		•	•		•		•		•		•				•		•	•	•		
Outdoor LED Displays	•	•	•	•	•	•				•		•		•				•		•	•	•		
Outdoor Signage	•	•			•	•				•		•		•				•		•	•	•		
Entertainment Lighting & Systems	•	•			•	•		•		•		•		•				•		•	•	•		
Smart City, Street Lighting	•	•			•	•				•		•		•				•		•	•	•		
Tunnel Lighting	•	•	•		•	•				•		•		•				•		•	•	•		
Parking Lighting	•	•			•	•		•		•		•		•				•		•	•	•		
Cruise & Shipyards Lighting	•	•	•		•	•		•	•	•		•		•				•		•	•	•		
High Speed Train & EV Bus	•	•			•	•		•		•	•		•					•		•	•	•		
Commercial Lighting	•	•	•		•	•		•		•		•		•				•		•	•	•		
Refrigeration Lighting	•	•	•		•	•		•		•		•		•				•		•	•	•		
Horticulture Lighting	•	•	•		•	•				•		•		•				•		•	•	•		
Warehouse Lighting	•	•			•	•				•		•		•				•		•	•	•		
Emergency Lighting	•	•	•		•	•		•		•		•		•				•		•	•	•		
UV and Sanitary Lighting	•	•	•		•	•		•		•		•		•				•		•	•	•		
Li-Fi	•	•			•	•				•		•		•				•	•	•	•	•		
Hospital Surgical Lighting & Room	•	•	•		•	•		•		•		•		•				•		•	•	•		
ATEX Lighting	•	•			•	•		•						•				•		•	•	•		
Underwater / Submerged Lighting	•	•			•	•								•				•					•	
<b>Marine</b>																								
Multi-Function Display	•	•	•	•	•	•			•	•	•	•	•		•	•		•	•			•	•	•
Outboard Motors	•	•	•		•	•			•	•	•	•						•			•			
Bilge Pump	•	•	•		•	•			•	•	•	•						•			•			
Heater	•	•	•		•	•		•	•	•	•	•						•		•	•	•		
HVAC (Heating Ventilation Air Conditioning)	•	•	•		•	•		•	•	•	•	•						•		•	•	•		
Fridge	•	•	•		•	•		•	•	•	•							•			•			
Docking System	•	•	•		•	•	•		•	•	•							•			•			
Windlass	•	•	•		•	•			•	•	•							•			•			
Sensors	•	•	•		•	•			•	•	•							•			•			
RADAR	•	•	•		•	•		•	•	•	•	•	•					•	•					
Antenna	•	•	•		•	•		•	•	•	•							•	•					
USB Charger	•	•	•		•	•		•	•	•	•		•					•		•				
Audio System	•	•	•		•	•		•	•	•	•	•	•					•		•	•	•		
Lighting System	•	•	•		•	•		•	•	•	•	•	•	•				•		•	•	•		•
CCTV	•	•	•		•	•		•	•	•	•	•	•					•			•			
Power Controller	•	•	•		•	•			•	•	•							•		•	•	•		•
Autopilot System	•	•	•		•	•			•	•	•							•		•	•	•		•
Automatic Identification System	•	•	•		•	•		•	•	•	•	•						•		•	•	•		•
GPS, Beacon & Lifebuoy	•	•	•		•	•		•	•	•	•	•						•	•					
Sonar / Transducer	•	•	•		•	•			•									•						
Fish-Finders	•	•	•		•	•			•	•	•	•						•						
Chartplotter	•	•	•		•	•			•	•	•	•						•		•	•	•		•
Sailing Instruments	•	•	•		•	•			•	•	•	•						•		•	•	•		•
Shipyards & Cruise	•	•	•		•	•			•	•	•	•						•			•			•
Drilling Systems							•																	
Seaport							•																	
Submarine							•																	
ROVs							•																	
Marine Renewable Energy							•																	
ROTV							•																	
Buoys							•																	
Underwater Vehicles							•																	
Underwater Equipment							•																	
Diving							•																	
<b>Broadband Wireless Access</b>																								
General Small Cells	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
RRH (Remote Radio Head)	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
Wireless Mobile Backhaul	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
High Capacity Mobile Subscriber Unit	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor Base Station Unit	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor LTE	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor AP	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
Subscriber Station	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor Wireless Mesh Router	•	•	•		•	•		•		•	•	•	•				•	•	•	•	•	•	•	•
Base Station Power Supply	•	•		•	•	•		•		•	•						•	•	•	•	•	•	•	•
Communication System																		•						
Outdoor Wireless Mesh Router	•	•			•	•		•		•	•	•	•				•	•	•	•	•	•	•	•

# Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	Deep Tronica	HS-Lok	NMEA 2000	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Fiber Optics	Zconnect	RF	Cable Joiner	Cable Gland	Vent	LED Light Guide	D-Sub	
<b>Industrial Automation</b>																									
Robotic Arm			•	•				•		•	•							•							
Industrial Server / Network	•	•	•	•	•			•		•	•	•	•		•	•	•	•	•			•	•	•	•
Industrial Forklifts (Truck)	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•			•
AVI (Automatic visual inspection)	•	•	•	•	•			•		•	•														
Data Communication System	•	•	•	•	•	•		•		•	•	•	•		•	•			•	•			•	•	•
Industrial Control Center	•	•	•	•	•	•		•		•	•	•	•		•	•						•	•	•	•
Packaging Center	•	•	•	•	•			•		•	•														
Conveyors	•	•	•	•	•			•		•	•														
Sensors			•							•	•								•						
Power Distribution	•	•	•	•	•	•				•	•								•						
Actuators	•	•	•							•	•														
Motor Drives	•	•	•		•	•				•	•														
Industrial PC & Displays	•	•	•	•	•			•		•	•	•	•		•	•				•	•		•	•	•
Machine Tools	•	•	•	•	•	•				•	•														
Switches		•	•							•	•	•	•												•
Production Equipment	•	•	•	•	•	•				•	•	•	•									•	•	•	•
<b>Renewable Energy</b>																									
PV / DC Inverter	•	•	•		•	•				•	•	•							•		•	•	•	•	•
Micro Inverter																				•		•	•	•	•
CSP & CPV	•	•	•		•	•				•	•										•	•	•	•	•
Heliostat	•	•	•		•	•				•	•											•	•	•	•
PV Trackers	•	•	•		•	•				•	•											•	•	•	•
PV ICS (Integrated Control Systems)					•	•				•	•	•										•		•	•
Portable Energy	•	•	•		•	•		•		•	•	•	•												
Communication System	•	•	•	•	•	•				•	•	•	•		•	•	•			•	•	•	•	•	•
PDC (Power Distribution Control)	•	•	•	•	•	•				•	•	•										•	•	•	•
Wind Turbine	•	•	•	•	•	•				•	•	•	•									•	•	•	•
Energy Storage System	•	•	•	•	•	•				•	•	•	•									•	•	•	•
Tidal Power Generation System	•	•	•	•	•	•				•	•	•										•	•	•	•
<b>Heavy Equipment</b>																									
Electronic Toll System	•	•	•	•	•	•		•		•	•	•	•		•	•				•	•	•	•	•	•
Automotive Diagnostics	•	•	•	•	•	•		•		•	•	•	•	•	•	•					•	•	•	•	•
Agriculture Electronic Equipment	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•	•	•	•
Lidar & Radar	•	•	•	•	•					•	•	•	•		•	•									
ADAS (Advanced Driver Assistance Systems)	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•	•	•	•
Telematics & Tracking	•	•	•		•	•		•		•	•	•	•		•	•				•	•	•	•	•	•
Camera & Monitoring	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•	•	•	•
Control System	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•	•	•	•
Display	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•	•	•	•
GPS System	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•	•	•	•
Lighting	•	•	•		•	•				•	•			•							•	•			
Measurement Systems	•	•	•	•	•	•		•		•	•	•	•		•	•					•	•	•	•	•
Sensors		•	•	•	•			•		•	•														
<b>Automated Meter Reading</b>																									
Water Meter	•	•	•	•				•				•	•							•	•	•	•	•	•
Electricity Meter	•	•	•	•				•				•	•								•	•	•	•	•
Gas Meter	•	•	•	•				•				•	•								•	•	•	•	•
Alarm System	•	•	•	•				•				•	•									•	•	•	•
Military Drone	•	•	•	•				•														•	•	•	•
Vehicle Tracking	•	•	•	•				•				•	•									•	•	•	•
Telemetry	•	•	•	•				•				•	•									•	•	•	•
Sewage	•	•	•	•	•	•		•				•	•									•	•	•	•
<b>Rugged IT</b>																									
Telemetry		•	•	•				•				•	•								•	•	•	•	•
Rugged & Military VR and AR		•	•	•				•					•									•	•	•	•
Rugged Notebook				•								•	•		•	•					•	•			•
Night Vision Goggle			•	•				•				•													
Miniature Camera												•									•	•			
Rugged Tablet												•			•	•					•	•			
Communication Devices				•								•	•		•	•					•	•		•	•

# Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	Deep Tronica	HS-Lok	NMEA 2000	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Fiber Optics	Zconnect	RF	Cable Joiner	Cable Gland	Vent	LED Light Guide	D-Sub
<b>Test Equipments</b>																								
Air Flow Measurement	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Gas Detectors	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Precision Surveying	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•		•
Earthquake Monitoring	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Humidity Measurement	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Leak Detectors	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Light Measuring	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Sound Measuring	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Water Measurement	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Weighing Devices	•	•	•	•	•	•		•		•	•	•	•					•	•		•	•		
Weigh Modules	•	•	•	•	•	•		•		•	•	•	•					•	•		•	•		
Heavy-duty Scales	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•		•
Floor Scales	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•		•
Wet Area Weighing	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Dosing Systems	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
In-Motion Weighing	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Borescope	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Image Measurement	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Timers / Timer Display	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Laser Marking System	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Digital Microscopes	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
<b>Hybrid Electric Vehicles</b>																								
Electric Wheelchair	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Electrical and Electronic Speed Control	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Electrical and Electronic Brake System	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Throttle Controller	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Battery Module	•	•	•	•	•	•		•		•	•	•	•					•	•		•	•		
Motor Module	•	•	•	•	•	•		•		•	•	•	•					•	•		•	•		
Gear Shift Module	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Controller Unit	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Charge Plug / Inlet	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Charging Station	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Home Charge Platform	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Hoverboard	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Electric Scooter	•	•	•	•	•	•		•		•	•	•	•					•	•		•	•		
<b>Railway Mass Transit</b>																								
Infotainment Systems	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•		•	•	•	•
In-Vehicle Information System	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•		•	•	•	•
Indication Display	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•		•
Navigation/GPS	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•		•
HVAC (Heating Ventilation Air Conditioning)	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Fuel Leakage Detector	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Broadcasting System	•	•	•	•	•	•		•		•	•	•	•					•	•		•	•		
Vehicle Monitoring	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•		•
Cleaning Control	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Speedometer	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Interior Lighting	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
<b>Mobile Devices</b>																								
DRC (Drone Remote Controller)	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Altimeter	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Barcode Reader	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
GPS Safety Guard	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Portable Lamp	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Gesture Measurement	•	•	•	•	•	•		•		•	•	•	•					•	•			•		
Wearables	•	•	•	•	•	•		•		•	•	•	•					•	•			•		

# Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	Deep Tronica	HS-Lok	NMEA 2000	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Fiber Optics	Zconnect	RF	Cable Joiner	Cable Gland	Vent	LED Light Guide	D-Sub	
<b>Transportation</b>																									
Vehicle Camera	•	•	•	•		•		•					•		•			•			•	•			
Switch			•									•	•					•							•
Dome Vehicle Camera	•	•	•			•												•				•	•		
RFID Reader																		•	•						
Bus GPS	•	•	•	•		•		•				•	•		•	•		•	•						
Displayer	•	•	•	•		•												•							
Outdoor Speaker	•	•	•	•		•												•							
Automotive Winches																		•							
Vehicle Charger	•	•	•			•												•							
Wifi Router												•						•							
Fleet Management	•	•	•	•		•												•							
Digital Video Surveillance System	•	•	•	•	•	•				•	•	•						•						•	
<b>Medical Equipment</b>																									
Medical Displays				•	•							•	•		•	•		•				•			•
Mobile Nursing Carts	•	•			•	•		•		•	•				•	•		•				•	•		•
Non-invasive Devices	•	•		•	•	•		•		•	•	•	•		•	•		•				•	•		•
Electrical Beds	•	•	•		•	•				•	•				•	•		•				•	•		•
Charges	•	•			•	•				•	•				•	•		•				•	•		•
Wheelchair Lift	•	•			•	•				•	•				•	•		•				•	•		•
Wheelchair Stair Lift	•	•			•	•				•	•				•	•		•				•	•		•
Rehabilitation System	•	•			•	•				•	•				•	•		•				•	•		•
<b>Automotive Diagnostics</b>																									
Auto Crash Notification	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•						•
Vehicle Tracking	•	•	•		•	•		•		•	•		•		•	•		•	•				•		•
Vehicle Health Alert & Roadside Assistance	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•						•
Remote Vehicle Diagnostics	•	•	•	•	•	•		•		•	•	•	•	•	•	•		•	•				•	•	•
<b>UAV</b>																									
Commercial Drone	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•	•	•	•
Military Drone	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•	•	•	•
Consumer Drone	•	•	•	•	•	•		•		•	•	•	•		•	•		•	•			•	•	•	•
<b>Lifts &amp; Materials Handling</b>																									
Forklift	•	•	•	•	•	•		•		•	•	•	•		•	•		•				•	•	•	•
Industrial Lift	•	•	•	•	•	•		•		•	•	•	•		•	•		•				•	•	•	•
Materials Handling	•	•	•	•	•	•		•		•	•	•	•		•	•		•				•	•	•	•
<b>Remote Video Response Center</b>																									
Encoders	•	•	•	•	•			•		•	•	•	•		•	•		•	•			•	•		•
Monitoring Station	•	•	•		•	•				•	•	•	•		•	•		•				•			•
CCTV/Dome/IP Camera	•	•	•	•	•			•		•	•	•	•		•	•		•	•		•	•		•	•
Remote Control	•	•			•			•				•	•		•	•		•				•			•
Junction Box	•	•			•							•	•		•	•		•				•	•		•
Automatic LPRS (License Plate Recognition System)	•	•	•	•	•			•		•	•	•	•		•	•		•	•		•	•		•	•
Fingerprint ID												•						•							
Alarm System	•	•	•	•	•			•				•	•		•	•		•	•		•	•		•	•
Sensor			•															•							
<b>Autonomous</b>																									
GPS	•	•	•	•				•		•	•	•	•		•	•		•	•						
Lidar	•	•	•	•				•		•	•	•	•		•	•		•				•	•		
Radar Sensors	•	•	•	•				•		•	•				•	•		•	•						
Video Cameras	•	•	•	•				•		•	•		•		•	•		•				•	•		
Central Computer	•	•	•	•				•		•	•	•	•		•	•		•							
Inertial Measurement Unit	•	•	•	•				•		•	•				•	•		•							
Inertial Navigation Systems	•	•	•	•				•		•	•				•	•		•	•						
<b>Commercial Military</b>																									
Commercial Military				•														•							



Marine

- AIS
- Audio System
- Autopilot System
- Bilge Pump
- Chartplotter
- Power Controller
- RADAR
- Multi-Function Display
- Sensors
- Shipyards & Cruise
- Sonar / Transducer
- USB Charger
- Windlass
- Docking System
- Fish-Finders
- Heater
- Lighting System
- Fridge & Refrigeration
- Outboard & Trolling Motors
- Sailing Instruments
- GPS, Beacon & Lifebuoy
- HVAC (Heating Ventilation Air Conditioning)
- IP and Infrared CCTV & Cameras



LED

- Outdoor LED Displays
- Outdoor Signage
- Parking Lighting
- Refrigeration Lighting
- Smart Street Lights
- ATEX Lighting
- Commercial Lighting
- Tunnel Lighting
- Architectural Lighting
- Emergency Lighting
- Horticulture Lighting
- Warehouse Lighting
- Cruise & Shipyards Lighting
- Li-Fi
- Underwater / Submerged Lighting
- UV and Sanitary Lighting
- Entertainment Lighting & Systems
- Hospital Surgical Lighting & Room
- Train, Bus, Plane & Recreational Vehicles Lighting



Industrial Automation

- Conveyors
- Industrial Control
- Industrial Forklifts
- Industrial Network
- Industrial PC & Displays
- Machine Tools
- Motor Drives
- Packaging
- Power
- Actuators
- AVI (Automatic visual inspection)
- Communication System
- Production Equipment



Broadband Wireless Access

- Outdoor LTE
- Outdoor Repeater
- Outdoor AP
- General Small Cells
- Subscriber Station
- RRH (Remote Radio Head)
- Wireless Mobile Backhaul
- Base Station Power Supply
- Outdoor Base Station Unit
- Outdoor Wireless Mesh Router
- High Capacity Mobile Subscriber Unit



Heavy Equipment

- Control System
- Display
- Electronic Toll System
- Lighting
- GPS System
- Telematics & Tracking
- Automotive Diagnostics
- Camera & Monitoring
- Agriculture Electronic Equipment
- Measurement Systems
- ADAS (Advanced Driver Assistance Systems)



Railway Mass Transit

- Broadcasting System
- Cleaning Control
- Fuel Leakage Detector
- Navigation / GPS
- Speedometer
- Infotainment Systems
- Interior Lighting
- In-Vehicle Information
- Vehicle Monitoring
- HVAC (Heating Ventilation Air Conditioning)
- Indication Display



Renewable Energy

- Communication System
- CSP & CPV
- DC Inverter
- Energy Storage System
- Heliostat
- Portable Energy
- PV Inverter
- PV Trackers
- Tidal Power Generation System
- Wind Turbine
- PDC (Power Distribution Control)



Hybrid Electric Vehicles

- Battery Module
- Charge Plug / Inlet
- Charging Station
- Controller Unit
- Electric Scooter
- Gear Shift Module
- Home Charge Platform
- Hoverboard
- Motor Module
- Throttle Controller
- Electric Wheelchair
- Electrical and Electronic Brake System
- Electrical and Electronic Speed Control



Medical Equipment

- Charges
- Electrical Beds
- Mobile Nursing Carts
- Non-invasive Devices
- Rehabilitation System
- Wheelchair Lift
- Wheelchair Stair Lift



Remote Video Response Center

- CCTV / Dome / IP Camera
- Encoders
- Junction Box
- Monitoring Station
- Remote Control
- Alarm System
- Automatic LPRS (License Plate Recognition System)



Test Equipment

- Air Flow Measurement
- Borescope
- Digital Microscopes
- Dosing Systems
- Earthquake Monitoring
- Floor Scales
- Gas Detectors
- Heavy-duty Scales
- Humidity Measurement
- Image Measurement
- In-Motion Weighing
- Laser Marking System
- Leak Detectors
- Light Measuring
- Precision Surveying
- Sound Measuring
- Timers / Timer Display
- Water Measurement
- Weigh Modules
- Weighing Devices
- Wet Area Weighing



Autonomous

- Central Computer
- GPS
- Inertial Measurement Unit
- Inertial Navigation Systems
- Lidar
- Radar Sensors
- Video Cameras



UAV

- Commercial Drone
- Consumer Drone
- Military Drone



Automotive Diagnostics

- Auto Crash Notification
- Remote Vehicle Diagnostics
- Vehicle Health Alert & Roadside Assistance
- Vehicle Tracking



Mobile Devices

- Altimeter
- Barcode Reader
- DRC (Drone Remote Controller)
- Gesture Measurement
- Portable Lamp



Automated Meter Reading

- Electricity Meter
- Gas Meter
- Sewage
- Telemetry
- Water Meter
- Alarm System
- Military Drone
- Vehicle Tracking



Lifts & Materials Handling

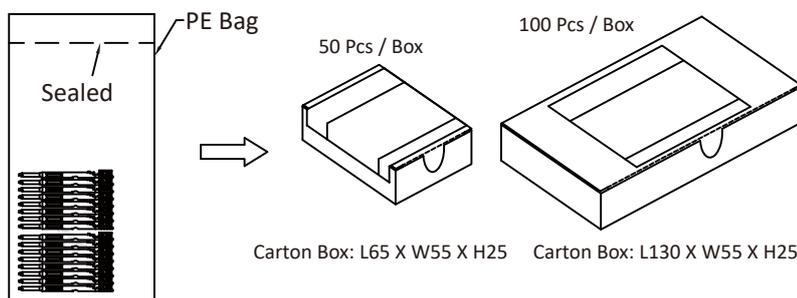
- Forklift
- Industrial Lift
- Materials Handling



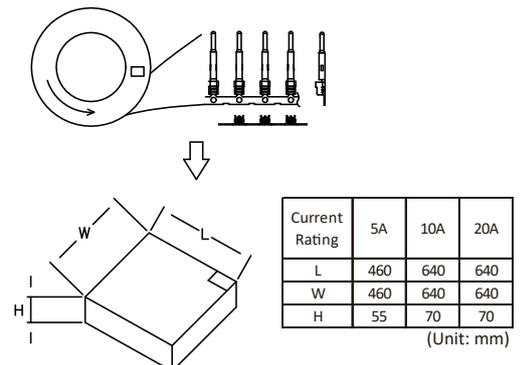
Transportation

- Vehicle Camera
- Dome Vehicle Camera
- Bus GPS
- Displayer
- Outdoor Speaker
- Vehicle Charger
- Fleet Management
- Digital Video Surveillance System

## Packing for Crimp Contacts



5A (3K pcs), 10A (3K pcs), 20A (2K pcs) / Reel



# Product Range Overview

Sub-Series Name	Mini A Size	Standard B Size	Middle C Size	Large D Size
Mating Style	Screw Thread & 2 Points Lock	Screw Thread & 2 Points Lock	Screw Thread & 2 Points Lock & 3 Points Lock	Screw Thread & 2 Points Lock
Plastic Version	✓	✓	✓	✓
Metal Version	✓	✓	-	✓
No. of Contacts	2 ~ 6	2 ~ 12	2 ~ 18	2 ~ 22
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated Silver Plated	Gold Plated Silver Plated
Operating Voltage (AC/DC)	250V	250 ~ 600V	250 ~ 600V	250 ~ 600V
Nominal Current	2A ~ 5A	2A ~ 10A 5A + 2A 10A + 5A	2A ~ 20A 5A + 2A 10A + 2A 10A + 5A	2A ~ 20A 20A + 2A 20A + 5A
Operating Temperature	<ul style="list-style-type: none"> <li>• Receptacle: -40°C ~ 105°C</li> <li>• Receptacle With Cable: -20°C ~ 85°C</li> <li>• Overmolded With Cable: -20°C ~ 85°C</li> <li>• Field Serviceable/Installable: -40°C ~ 105°C</li> </ul>			
Fasten Style of Nut	Front & Rear	Front & Rear	Front & Rear	Front & Rear
Receptacle	✓	✓	✓	✓
Receptacle With Cable	✓	✓	✓	-
Overmolded With Cable	✓	✓	✓	✓
Field Serviceable/Installable	✓	✓	✓	✓
Accessories	✓	✓	✓	✓
Applicable Wire Gauge	26 ~ 24AWG (0.14 ~ 0.25mm <sup>2</sup> )	26 ~ 20AWG (0.14 ~ 0.50mm <sup>2</sup> )	24 ~ 14AWG (0.25 ~ 2.50mm <sup>2</sup> )	26 ~ 16AWG (0.14 ~ 1.50mm <sup>2</sup> )
Mating Cycles (Pin Contact)	2,000 Cycles			
IP Rating	Receptacle, Receptacle With Cable: IP67 (Unmated) Overmolded With Cable, Field Serviceable/Installable: IP67 (Mated)			
Salt Spray (Connector, Mated)	500h	500h	500h	500h
UV Resistant	✓	✓	✓	✓
Flammability Rating	UL94V-0			
Vibration Resistant	Frequency Range 10 ~ 55Hz / Amplitude 1.52mm			
EMI Option	✓	✓	-	✓
ROHS 2.0 Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Certifications	-	UL1977	UL1977	UL1977

# Product Range Overview

Sub-Series Name	Macro E Size	PLD	MAB	GBD
Mating Style	2 Points Lock	Push Lock	2 Points Lock	3 Points Lock
Plastic Version	✓	✓	✓	✓
Metal Version	-	-	-	-
No. of Contacts	31	2 ~ 4	4	8
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Operating Voltage (AC/DC)	200V	250V	250V	250V
Nominal Current	5A	5A	10A	10A + 5A
Operating Temperature	<ul style="list-style-type: none"> <li>• Receptacle: -40°C ~ 105°C</li> <li>• Receptacle With Cable: -20°C ~ 85°C</li> <li>• Overmolded With Cable: -20°C ~ 85°C</li> <li>• Field Serviceable/Installable: -40°C ~ 105°C</li> </ul>			
Fasten Style of Nut	Front & Rear	Front	-	-
Receptacle	✓	✓	-	-
Receptacle With Cable	-	-	-	-
Overmolded With Cable	✓	-	✓	✓
Field Serviceable/Installable	-	✓	-	-
Accessories	✓	-	✓	✓
Applicable Wire Gauge	26AWG (0.14mm <sup>2</sup> )	26 ~ 20AWG (0.14 ~ 0.50mm <sup>2</sup> )	20AWG (0.50mm <sup>2</sup> )	20~24AWG (0.50~0.25mm <sup>2</sup> )
Mating Cycles (Pin Contact)	2,000 Cycles			
IP Rating	Receptacle, Receptacle With Cable: IP67 (Unmated) Overmolded With Cable, Field Serviceable/Installable: IP67 (Mated)			
Salt Spray (Connector, Mated)	500h			
UV Resistant	✓	✓	✓	✓
Flammability Rating	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration Resistant	Frequency Range 10~55Hz / Amplitude 1.52mm			
EMI Option	-	-	-	-
ROHS 2.0 Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Certifications	UL1977	-	-	-

# Contact Configuration

	Mini Size (A)			Standard Size (B)						Middle Size (C)			
	2A (AU) (ASU)	5A (AD)	5A (ASD)	2A (BU) (BSU)	5A (BD)	5A (BSD)	10A (BB)	10A (BSB)	5A+2A (BDU)	10A+5A (BBD)	2A (CU)	5A (CD)	10A (CB)
2 Pin													
		R   C   F	R   C   F		R   C   F		R   C   F						
3 Pin													
		R   C   F	R   C   F		R   C   F		R   C   F						
4 Pin													
	R   C   F				R   C   F	R   C   F	R   C   F	R   C   F					R   C   F
5 Pin													
	R   C   F				R   C   F	R   C   F							R   C   F
6 Pin													
	R   C   F				R   C   F	R   C   F				R   C   F			R   C   F
7 Pin													
					R   C   F	R   C   F						R   C   F	
8 Pin													
					R   C   F	R   C   F			R   C   F			R   C   F	
9 Pin													
												R   C   F	
10 Pin													
				R   C   F								R   C   F	
12 Pin													
				R   C   F								R   C   F	
14 Pin													
												R   C   F	
18 Pin													
											R   C   F		
20 Pin													
21 Pin													
22 Pin													
31 Pin													

R: Receptacle C: Overmolded with Cable F: Field Serviceable/Installable

# Contact Configuration

Middle Size (C)				Large Size (D)						Marco Size (E)	Other Size		
20A (CC)	5A+2A (CDU)	10A+5A (CBD)	10A+2A (CBU)	2A (DU)(DSU)	5A (DD)(DSD)	10A (DB)(DSB)	20A (DC)(DSC)	20A+2A (DCU)	20A+5A (DCD)	5A (ED)	10A+5A (GBD)	10A (MAB)	5A (PLD)
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   F
							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   F				
	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   F			

R: Receptacle C: Overmolded with Cable F: Field Serviceable/Installable

No of Contacts	2		3	
Rated Voltage (AC/DC)	250V		250V	
Nominal Current	5A		5A	
Plastic / Metal	Plastic	Metal	Plastic	Metal
Pin Assignment	MM		MM	
MM: Male Connector Male Contact FF: Female Connector Female Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: min. 2.3mm ~ max 5.0mm

	Solder Type	AAD-02PMMMS-LC7001	-	AAD-03PMMMS-LC7001	-
	180° PCB Type	1AD-02PMMMP-LC7001	-	1AD-03PMMMP-LC7001	-

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: min. 2.3mm ~ max 5.0mm

	Solder Type	AAD-02RMMMS-LC7001	-	AAD-03RMMMS-LC7001	-
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Receptacle, Square Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: min. 2.3mm ~ max 5.0mm

	Solder Type	AAD-02PMMMS-LS7001	AASD-02PMMMS-LS7002	AAD-03PMMMS-LS7001	AASD-03PMMMS-LS7002
	180° PCB Type	1AD-02PMMMP-LS7001	1ASD-02PMMMP-LS7002	1AD-03PMMMP-LS7001	1ASD-03PMMMP-LS7002

Receptacle With Cable, **STRAIGHT**, IP67 (Unmated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02PMMM-LL7A ①	-	AAD-03PMMM-LL7A ①	-
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**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02BMMM-LL7A ①	-	AAD-03BMMM-LL7A ①	-
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	AAD-02BMMMA-LL7001	-	AAD-03BMMMA-LL7001	-
	Crimp Type	AAD-02BMMMC-LL7 ① P0*	-	AAD-03BMMMC-LL7 ① P0*	-

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-AAD02ML-AADML-LA ①	-	AA-AAD03ML-AADML-LA ①	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-AAD02ML-AADFL-LA ①	-	AA-AAD03ML-AADFL-LA ①	-

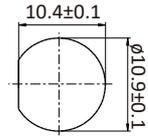
**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-AAD02ML-AADFR-LA ①	-	AA-AAD03ML-AADFR-LA ①	-
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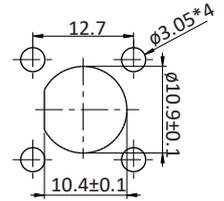
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths \* Upon Request

4		5		6	
250V		250V		250V	
2A		2A		2A	
Plastic	Metal	Plastic	Metal	Plastic	Metal
MM		MM		MM	
AAU-04PMMS-LC7001	-	AAU-05PMMS-LC7001	-	AAU-06PMMS-LC7001	-
1AU-04PMMP-LC7001	-	1AU-05PMMP-LC7001	-	1AU-06PMMP-LC7001	-
AAU-04RMMS-LC7001	-	AAU-05RMMS-LC7001	-	AAU-06RMMS-LC7001	-
AAU-04PMMS-LS7001	AASU-04PMMS-LS7002	AAU-05PMMS-LS7001	AASU-05PMMS-LS7002	AAU-06PMMS-LS7001	AASU-06PMMS-LS7002
1AU-04PMMP-LS7001	-	1AU-05PMMP-LS7001	-	1AU-06PMMP-LS7001	-
AAU-04PMMM-LL7A 11	-	AAU-05PMMM-LL7A 11	-	AAU-06PMMM-LL7A 11	-
AAU-04BMMM-LL7A 11	-	AAU-05BMMM-LL7A 11	-	AAU-06BMMM-LL7A 11	-
AAU-04BMMMA-LL7001	-	AAU-05BMMMA-LL7001	-	AAU-06BMMMA-LL7001	-
AAU-04BMMC-LL7 11 PO*	-	AAU-05BMMC-LL7 11 PO*	-	AAU-06BMMC-LL7 11 PO*	-

## Panel Cut Out



Circular Flange (D Cut)



Square Flange

## Assemble Style



PCB 180°  
(P) Receptacle



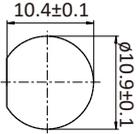
Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



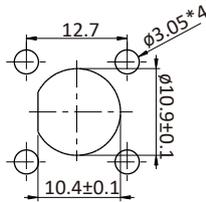
Crimp  
(C) Field Serviceable/Installable

AA-AAU04ML-AAUML-LA 11	-	AA-AAU05ML-AAUML-LA 11	-	AA-AAU06ML-AAUML-LA 11	-
AA-AAU04ML-AAUFL-LA 11	-	AA-AAU05ML-AAUFL-LA 11	-	AA-AAU06ML-AAUFL-LA 11	-
AA-AAU04ML-AAUFR-LA 11	-	AA-AAU05ML-AAUFR-LA 11	-	AA-AAU06ML-AAUFR-LA 11	-

## Panel Cut Out



Circular Flange (D Cut)



Square Flange

## Assemble Style



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	2		3	
Rated Voltage (AC/DC)	250V		250V	
Nominal Current	5A		5A	
Plastic / Metal	Plastic	Metal	Plastic	Metal
Pin Assignment	FF		FF	
FF: Female Connector Female Contact				

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02BFFM-LL7A 11	-	AAD-03BFFM-LL7A 11	-
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02BFFM-LR7A 11	-	AAD-03BFFM-LR7A 11	-
--	--------------------	--------------------	---	--------------------	---

### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-AAD02FL-AADFL-LA 11	-	AA-AAD03FL-AADFL-LA 11	-
--	--	------------------------	---	------------------------	---

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-AAD02FR-AADFR-LA 11	-	AA-AAD03FR-AADFR-LA 11	-
--	--	------------------------	---	------------------------	---

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-AAD02FL-AADFR-LA 11	-	AA-AAD03FL-AADFR-LA 11	-
--	--	------------------------	---	------------------------	---

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | 11 Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	<b>NEW</b>	AAD-02BFFA-LL7001	1ASD-02BFFA-LL7001*	AAD-03BFFA-LL7001	1ASD-03BFFA-LL7001*
	Crimp Type		AAD-02BFFC-LL7 11 P0*	-	AAD-03BFFC-LL7 11 P0*	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

4		5		6	
250V		250V		250V	
2A		2A		2A	
Plastic	Metal	Plastic	Metal	Plastic	Metal
FF		FF		FF	
AAU-04BFFM-LL7A	-	AAU-05BFFM-LL7A	-	AAU-06BFFM-LL7A	-
AAU-04BFFM-LR7A	-	AAU-05BFFM-LR7A	-	AAU-06BFFM-LR7A	-
AA-AAU04FL-AAU FL-LA	-	AA-AAU05FL-AAU FL-LA	-	AA-AAU06FL-AAU FL-LA	-
AA-AAU04FR-AAU FR-LA	-	AA-AAU05FR-AAU FR-LA	-	AA-AAU06FR-AAU FR-LA	-
AA-AAU04FL-AAU FR-LA	-	AA-AAU05FL-AAU FR-LA	-	AA-AAU06FL-AAU FR-LA	-
AAU-04BFFA-LL7001	1ASU-04BFFA-LL7001*	AAU-05BFFA-LL7001	1ASU-05BFFA-LL7001*	AAU-06BFFA-LL7001	1ASU-06BFFA-LL7001*
AAU-04BFFC-LL7  PO*	-	AAU-05BFFC-LL7  PO*	-	AAU-06BFFC-LL7  PO*	-

No of Contacts	2		3	
Rated Voltage (AC/DC)	250V		250V	
Nominal Current	5A		5A	
Plastic / Metal	Plastic	Metal	Plastic	Metal
Pin Assignment	MM		MM	
<b>MM</b> : Male Connector Male Contact <b>FF</b> : Female Connector Female Contact				

**Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Unmated)**  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: min. 2.3mm ~ max 5.0mm

	Solder Type	AAD-02PMM5-SC7001	-	AAD-03PMM5-SC7001	-
	180° PCB Type	1AD-02PMM5-SC7001	-	1AD-03PMM5-SC7001	-

**Receptacle, Square Flange, FRONT Fastened Nut, IP67 (Unmated)**  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: min. 2.3mm ~ max 5.0mm

	Solder Type	AAD-02PMM5-SS7001	AASD-02PMM5-SS7002*	AAD-03PMM5-SS7001	AASD-03PMM5-SS7002*
	180° PCB Type	1AD-02PMM5-SS7001	-	1AD-03PMM5-SS7001	-

**Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Unmated)**  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: min. 2.3mm ~ max 5.0mm

	Solder Type	AAD-02RMM5-SC7001	-	AAD-03RMM5-SC7001	-
	180° PCB Type	-	-	-	-

**Receptacle With Cable, STRAIGHT, IP67 (Unmated)**  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02PMMM-SL7A ①	-	AAD-03PMMM-SL7A ①	-

**STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)**  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02BMMM-SL7A ①*	-	AAD-03BMMM-SL7A ①*	-

**Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)**  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	AAD-02BMM5A-SL7001*	-	AAD-03BMM5A-SL7001*	-
	Crimp Type	<b>NEW</b> AAD-02BMM5C-SL7 ① P0*	-	AAD-03BMM5C-SL7 ① P0*	-

**STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)**  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-AAD02ML-AAD ML-SA ①*	-	AA-AAD03ML-AAD ML-SA ①*	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-AAD02ML-AAD FL-SA ①*	-	AA-AAD03ML-AAD FL-SA ①*	-

**STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)**  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

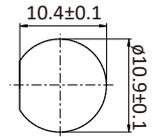
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-AAD02ML-AAD FR-SA ①*	-	AA-AAD03ML-AAD FR-SA ①*	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

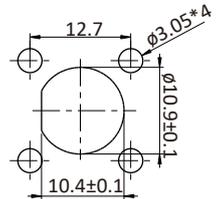
\* Upon Request

4		5		6	
250V		250V		250V	
2A		2A		2A	
Plastic	Metal	Plastic	Metal	Plastic	Metal
MM		MM		MM	
					
AAU-04PMMS-SC7001	-	AAU-05PMMS-SC7001	-	AAU-06PMMS-SC7001	-
1AU-04PMMP-SC7001	-	1AU-05PMMP-SC7001	-	1AU-06PMMP-SC7001	-
AAU-04PMMS-SS7001	AASU-04PMMS-SS7002*	AAU-05PMMS-SS7001	AASU-05PMMS-SS7002*	AAU-06PMMS-SS7001	AASU-06PMMS-SS7002*
1AU-04PMMP-SS7001	-	1AU-05PMMP-SS7001	-	1AU-06PMMP-SS7001	-
AAU-04RMMS-SC7001	-	AAU-05RMMS-SC7001	-	AAU-06RMMS-SC7001	-
-	-	-	-	-	-
AAU-04PMMM-SL7A(11)	-	AAU-05PMMM-SL7A(11)	-	AAU-06PMMM-SL7A(11)	-
AAU-04BMMM-SL7A(11)*	-	AAU-05BMMM-SL7A(11)*	-	AAU-06BMMM-SL7A(11)*	-
AAU-04BMMMA-SL7001*	-	AAU-05BMMMA-SL7001*	-	AAU-06BMMMA-SL7001*	-
AAU-04BMM-C-SL7(11)PO*	-	AAU-05BMM-C-SL7(11)PO*	-	AAU-06BMM-C-SL7(11)PO*	-
AA-AAU04ML-AAUML-SA(11)*	-	AA-AAU05ML-AAUML-SA(11)*	-	AA-AAU06ML-AAUML-SA(11)*	-
AA-AAU04ML-AAUFL-SA(11)*	-	AA-AAU05ML-AAUFL-SA(11)*	-	AA-AAU06ML-AAUFL-SA(11)*	-
AA-AAU04ML-AAUFR-SA(11)*	-	AA-AAU05ML-AAUFR-SA(11)*	-	AA-AAU06ML-AAUFR-SA(11)*	-

## Panel Cut Out



Circular Flange (D Cut)



Square Flange

## Assemble Style



PCB 180°  
(P) Receptacle

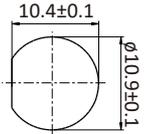


Solder  
(S) Receptacle  
(A) Field Serviceable/Installable

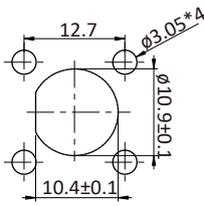


Crimp  
(C) Field Serviceable/Installable

## Panel Cut Out



Circular Flange (D Cut)



Square Flange

## Assemble Style



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	2		3	
Rated Voltage (AC/DC)	250V		250V	
Nominal Current	5A		5A	
Plastic / Metal	Plastic	Metal	Plastic	Metal
Pin Assignment	FF		FF	
MM : Male Connector Male Contact FF: Female Connector Female Contact				

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02BFFM-SL7A <sup>11</sup>	-	AAD-03BFFM-SL7A <sup>11</sup>	-
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	AAD-02BFFM-SR7A <sup>11</sup>	-	AAD-03BFFM-SR7A <sup>11</sup>	-
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-AAD02FL-AADFL-SA <sup>11</sup>	-	AA-AAD03FL-AADFL-SA <sup>11</sup>	-
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### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-AAD02FR-AADFR-SA <sup>11</sup>	-	AA-AAD03FR-AADFR-SA <sup>11</sup>	-
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### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-AAD02FL-AADFR-SA <sup>11</sup>	-	AA-AAD03FL-AADFR-SA <sup>11</sup>	-
--	--	-----------------------------------	---	-----------------------------------	---

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	AAD-02BFFA-SL7001	1ASD-02BFFA-SL7001*	AAD-03BFFA-SL7001	1ASD-03BFFA-SL7001*
	Crimp Type	AAD-02BFFC-SL7 <sup>11</sup> P0*	-	AAD-03BFFC-SL7 <sup>11</sup> P0*	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

4		5		6	
250V		250V		250V	
2A		2A		2A	
Plastic	Metal	Plastic	Metal	Plastic	Metal
FF		FF		FF	
					
AAU-04BFFM-SL7A <sup>11</sup>	-	AAU-05BFFM-SL7A <sup>11</sup>	-	AAU-06BFFM-SL7A <sup>11</sup>	-
AAU-04BFFM-SR7A <sup>11</sup>	-	AAU-05BFFM-SR7A <sup>11</sup>	-	AAU-06BFFM-SR7A <sup>11</sup>	-
AA-AAU04FL-AAUFL-SA <sup>11</sup>	-	AA-AAU05FL-AAUFL-SA <sup>11</sup>	-	AA-AAU06FL-AAUFL-SA <sup>11</sup>	-
AA-AAU04FR-AAUFR-SA <sup>11</sup>	-	AA-AAU05FR-AAUFR-SA <sup>11</sup>	-	AA-AAU06FR-AAUFR-SA <sup>11</sup>	-
AA-AAU04FL-AAUFR-SA <sup>11</sup>	-	AA-AAU05FL-AAUFR-SA <sup>11</sup>	-	AA-AAU06FL-AAUFR-SA <sup>11</sup>	-
AAU-04BFFA-SL7001	1ASU-04BFFA-SL7001*	AAU-05BFFA-SL7001	1ASU-05BFFA-SL7001*	AAU-06BFFA-SL7001	1ASU-06BFFA-SL7001*
AAU-04BFFC-SL7 <sup>11</sup> PO*	-	AAU-05BFFC-SL7 <sup>11</sup> PO*	-	AAU-06BFFC-SL7 <sup>11</sup> PO*	-

## Dust Cap

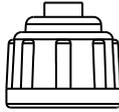


With Rubber Lead

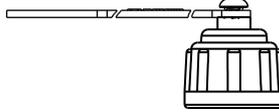
Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
Mini A Size	Receptacle	Cover	Male	With Rubber Lead	CAP-DAAMDPC1

## Waterproof Cap

For Mating with Male Connector



None

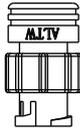


With Rubber Lead

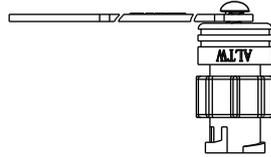


With Chain

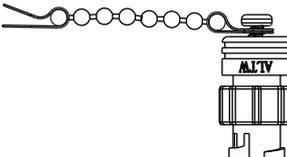
For Mating with Female Connector



None



With Rubber Lead



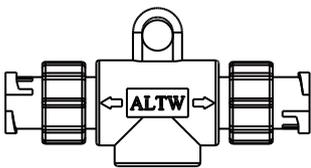
With Chain

7 2 Contacts (1)  
4 ~ 6 Contacts (2)  
3 Contacts (3)

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
Mini A Size	Receptacle	Screw Thread	Male	With Rubber Lead	CAP-WAAMSPC1
		2 Points Lock	Male	With Rubber Lead	CAP-WAAMLPC7
		2 Points Lock	Female	With Rubber Lead	CAP-WAAFLPC1
		2 Points Lock	Male	With Chain	CAP-WAAMLPB7
		2 Points Lock	Female	With Chain	CAP-WAAFLPB1
	Overmolded With Cable Field Serviceable/Installable	Screw Thread	Male	None	CAP-WAAMSMA1
		2 Points Lock	Male	None	CAP-WAAMLMA7
		2 Points Lock	Female	None	CAP-WAAFLMA1

## I Adaptor

1

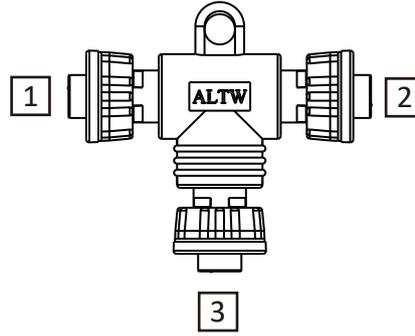


2

5 For Connector 1  
6 For Connector 2  
Connector Gender / Contact Gender  
Male / Male (M)  
Female / Female (F)

Size	Nominal Current	No. of Contacts <sup>3</sup>	Mating Style	
			Screw Thread (7/16"-28 UNS)	2 Points Lock
Mini A Size	2A	04, 05, 06	AA-00 <sup>3</sup> <sup>3</sup> -0 <sup>5</sup> <sup>6</sup> -IS001	AA-00 <sup>3</sup> <sup>3</sup> -0 <sup>5</sup> <sup>6</sup> -IL001
	5A	02, 03		

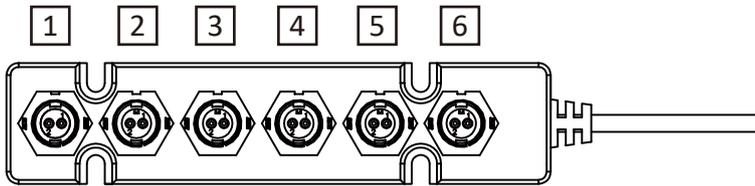
## T Adaptor



- 5 For Connector 1
  - 6 For Connector 2
  - 7 For Connector 3
- Connector Gender / Contact Gender  
 Male / Male (M)  
 Female / Female (F)

Size	Nominal Current	No. of Contacts 2	Mating Style	
			Screw Thread (7/16"-28 UNS)	2 Points Lock
Mini A Size	2A	04, 05, 06	AA-2 2 2-5 6 7-TS001	AA-2 2 2-5 6 7-TL001
	5A	02, 03		

## Distribution Box

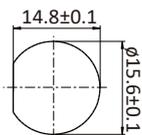


- 8 For Connector 1
  - 9 For Connector 2
  - 10 For Connector 3
  - 11 For Connector 4
  - 12 For Connector 5
  - 13 For Connector 6
- Connector Gender / Contact Gender  
 Male / Male (M)  
 Female / Female (F)  
 Male / Female (H)  
 Female / Male (B)

Size	Nominal Current	No. of Contacts 2	Mating Style	
			Screw Thread (7/16"-28 UNS)	2 Points Lock
Mini A Size	2A	04, 05, 06	A-2 2 2 2 2 2-8 9 10 11 12 13-SAXX	A-2 2 2 2 2 2-8 9 10 11 12 13-LAXX
	5A	02, 03		

\* XX: Choose the cable length: (01)1M ~ (99)99M / PVC UL2464 Cable

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



PCB 180°  
(P) Receptacle



PCB 90°  
(R) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable

No of Contacts	2			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	5A		10A	
Plastic / Metal	Plastic			
Pin Assignment	MM	MF	MM	MF
<b>MM</b> : Male Connector Male Contact <b>FF</b> : Female Connector Female Contact <b>MF</b> : Male Connector Female Contact <b>FM</b> : Female Connector Male Contact				

### Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Unmated)

Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm

	Solder Type	ABD-02PMMS-LC7001	ABD-02PMFS-LC7001	ABB-02PMMS-LC7001	ABB-02PMFS-LC7001
	180° PCB Type	1BD-02PMMP-LC7001	1BD-02PMFP-LC7001	1BB-02PMMP-LC7001	1BB-02PMFP-LC7001
	90° PCB Type	ABD02PMMR-LC7001	-	-	-

### Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Unmated)

Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm

	Solder Type	ABD-02RMMS-LC7001	ABD-02RMFS-LC7001	ABB-02RMMS-LC7001	ABB-02RMFS-LC7001
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### Receptacle With Cable, STRAIGHT, IP67 (Unmated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-02PMMM-LL7A①	ABD-02PMFM-LL7A①	ABB-02PMMM-LL7A①	ABB-02PMFM-LL7A①
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### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-02BMMM-LL7A①	ABD-02BMFM-LL7A①	ABB-02BMMM-LL7A①	ABB-02BMFM-LL7A①*
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### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ABD-02BMMMA-LL7001	ABD-02BMFA-LL7001	ABB-02BMMMA-LL7001	ABB-02BMFA-LL7001*
	Crimp Type	ABD-02BMMMC-LL7①PO	ABD-02BMFC-LL7①PO	ABB-02BMMMC-LL7①PO	ABB-02BMFC-LL7①PO*

### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ABD02ML-ABDML-LA①	-	AA-ABB02ML-ABBML-LA①	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD02ML-ABDFL-LA①	-	AA-ABB02ML-ABBFL-LA①	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ABD02HL-ABDHL-LA①	-	AA-ABB02HL-ABBHL-LA①*
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD02HL-ABDBL-LA①	-	AA-ABB02HL-ABBBL-LA①*

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD02ML-ABDFR-LA①	-	AA-ABB02ML-ABBFR-LA①	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD02HL-ABDBR-LA①	-	AA-ABB02HL-ABBBR-LA①*

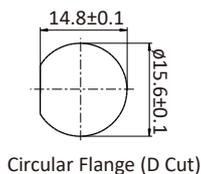
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

3				4			
250 ~ 600V				250 ~ 600V			
5A		10A		5A		10A	
Plastic				Plastic			
MM	MF	MM	MF	MM	MF	MM	MF
ABD-03PMMS-LC7001	ABD-03PMFS-LC7001	ABB-03PMMS-LC7001	ABB-03PMFS-LC7001	ABD-04PMMS-LC7001	ABD-04PMFS-LC7001	ABB-04PMMS-LC7001	ABB-04PMFS-LC7001
1BD-03PMMP-LC7001	1BD-03PMFP-LC7001	1BB-03PMMP-LC7001	1BB-03PMFP-LC7001	1BD-04PMMP-LC7001	1BD-04PMFP-LC7001	1BB-04PMMP-LC7001	1BB-04PMFP-LC7001
ABD03PMMR-LC7001	-	-	-	ABD04PMMR-LC7001	-	-	-
ABD-03RMMS-LC7001	ABD-03RMFS-LC7001	ABB-03RMMS-LC7001	ABB-03RMFS-LC7001	ABD-04RMMS-LC7001	ABD-04RMFS-LC7001	ABB-04RMMS-LC7001	ABB-04RMFS-LC7001
ABD-03PMMM-LL7A <sup>11</sup>	ABD-03PMFM-LL7A <sup>11</sup>	ABB-03PMMM-LL7A <sup>11</sup>	ABB-03PMFM-LL7A <sup>11</sup>	ABD-04PMMM-LL7A <sup>11</sup>	ABD-04PMFM-LL7A <sup>11</sup>	ABB-04PMMM-LL7A <sup>11</sup>	ABB-04PMFM-LL7A <sup>11</sup>
ABD-03BMMM-LL7A <sup>11</sup>	ABD-03BMFM-LL7A <sup>11</sup>	ABB-03BMMM-LL7A <sup>11</sup>	ABB-03BMFM-LL7A <sup>11</sup> *	ABD-04BMMM-LL7A <sup>11</sup>	ABD-04BMFM-LL7A <sup>11</sup>	ABB-04BMMM-LL7A <sup>11</sup>	ABB-04BMFM-LL7A <sup>11</sup> *
ABD-03BMMA-LL7001	ABD-03BMFA-LL7001	ABB-03BMMA-LL7001	ABB-03BMFA-LL7001*	ABD-04BMMA-LL7001	ABD-04BMFA-LL7001	ABB-04BMMA-LL7001	ABB-04BMFA-LL7001*
ABD-03BMCC-LL7 <sup>11</sup> PO	ABD-03BMFC-LL7 <sup>11</sup> PO	ABB-03BMCC-LL7 <sup>11</sup> PO	ABB-03BMFC-LL7 <sup>11</sup> PO*	ABD-04BMCC-LL7 <sup>11</sup> PO	ABD-04BMFC-LL7 <sup>11</sup> PO	ABB-04BMCC-LL7 <sup>11</sup> PO	ABB-04BMFC-LL7 <sup>11</sup> PO*

AA-ABD03ML-ABDML-LA <sup>11</sup>	-	AA-ABB03ML-ABBML-LA <sup>11</sup>	-	AA-ABD04ML-ABDML-LA <sup>11</sup>	-	AA-ABB04ML-ABBML-LA <sup>11</sup>	-
AA-ABD03ML-ABDFL-LA <sup>11</sup>	-	AA-ABB03ML-ABBFL-LA <sup>11</sup>	-	AA-ABD04ML-ABDFL-LA <sup>11</sup>	-	AA-ABB04ML-ABBFL-LA <sup>11</sup>	-
-	AA-ABD03HL-ABDHL-LA <sup>11</sup>	-	AA-ABB03HL-ABBHL-LA <sup>11</sup> *	-	AA-ABD04HL-ABDHL-LA <sup>11</sup>	-	AA-ABB04HL-ABBHL-LA <sup>11</sup> *
-	AA-ABD03HL-ABDBL-LA <sup>11</sup>	-	AA-ABB03HL-ABBBL-LA <sup>11</sup> *	-	AA-ABD04HL-ABDBL-LA <sup>11</sup>	-	AA-ABB04HL-ABBBL-LA <sup>11</sup> *
AA-ABD03ML-ABDFR-LA <sup>11</sup>	-	AA-ABB03ML-ABBFR-LA <sup>11</sup>	-	AA-ABD04ML-ABDFR-LA <sup>11</sup>	-	AA-ABB04ML-ABBFR-LA <sup>11</sup>	-
-	AA-ABD03HL-ABDBR-LA <sup>11</sup>	-	AA-ABB03HL-ABBBL-LA <sup>11</sup> *	-	AA-ABD04HL-ABDBR-LA <sup>11</sup>	-	AA-ABB04HL-ABBBL-LA <sup>11</sup> *

## Panel Cut Out Assemble Style



PCB 180°  
(P) Receptacle



PCB 90°  
(R) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable

No of Contacts	5		6	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	5A		5A	
Plastic / Metal	Plastic		Plastic	
Pin Assignment	MM	MF	MM	MF
<b>MM</b> : Male Connector Male Contact <b>FF</b> : Female Connector Female Contact <b>MF</b> : Male Connector Female Contact <b>FM</b> : Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
 Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm

	Solder Type	ABD-05PMMS-LC7001	ABD-05PMFS-LC7001	ABD-06PMMS-LC7001	ABD-06PMFS-LC7001
	180° PCB Type	1BD-05PMMP-LC7001	1BD-05PMFP-LC7001	1BD-06PMMP-LC7001	1BD-06PMFP-LC7001
	90° PCB Type	ABD05PMMR-LC7001	-	ABD06PMMR-LC7001	-

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
 Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm

	Solder Type	ABD-05RMMS-LC7001	ABD-05RMFS-LC7001	ABD-06RMMS-LC7001	ABD-06RMFS-LC7001
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Receptacle With Cable, **STRAIGHT**, IP67 (Unmated)  
 ① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05PMMM-LL7A <sup>①</sup>	ABD-05PMFM-LL7A <sup>①</sup>	ABD-06PMMM-LL7A <sup>①</sup>	ABD-06PMFM-LL7A <sup>①</sup>
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**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
 ① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05BMMM-LL7A <sup>①</sup>	ABD-05BMFM-LL7A <sup>①</sup>	ABD-026BMMM-LL7A <sup>①</sup>	ABD-06BMFM-LL7A <sup>①</sup>
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
 Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ABD-05BMMMA-LL7001	ABD-05BMFA-LL7001	ABD-06BMMMA-LL7001	ABD-06BMFA-LL7001
	Crimp Type	ABD-05BMMMC-LL7 <sup>①</sup> P0	ABD-05BMFC-LL7 <sup>①</sup> P0	ABD-06BMMMC-LL7 <sup>①</sup> P0	ABD-06BMFC-LL7 <sup>①</sup> P0

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
 ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ABD05ML-ABDML-LA <sup>①</sup>	-	AA-ABD06ML-ABDML-LA <sup>①</sup>	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD05ML-ABDFL-LA <sup>①</sup>	-	AA-ABD06ML-ABDFL-LA <sup>①</sup>	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ABD05HL-ABDHL-LA <sup>①</sup>	-	AA-ABD06HL-ABDHL-LA <sup>①</sup>
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD05HL-ABDBL-LA <sup>①</sup>	-	AA-ABD06HL-ABDBL-LA <sup>①</sup>

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
 ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF

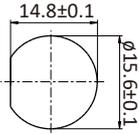
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD05ML-ABDFR-LA <sup>①</sup>	-	AA-ABD06ML-ABDFR-LA <sup>①</sup>	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD05HL-ABDBR-LA <sup>①</sup>	-	AA-ABD06HL-ABDBR-LA <sup>①</sup>

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

6	7		8			10	12
250 ~ 600V	250 ~ 600V		250 ~ 600V			250 ~ 600V	250 ~ 600V
10A+5A	5A		5A	5A+2A		2A	2A
Plastic	Plastic		Plastic			Plastic	Plastic
MF	MM	MF	MM	MF	MF	MM	MM
							
ABBD-06PMFS-LC7001	ABD-07PMMS-LC7001	ABD-07PMFS-LC7001	ABD-08PMMS-LC7001	ABD-08PMFS-LC7001	ABDU-08PMFS-LC7001	ABU-10PMMS-LC7001	ABU-12PMMS-LC7001
1BBD-06PMFP-LC7001	1BD-07PMMP-LC7001	1BD-07PMFP-LC7001	1BD-08PMMP-LC7001	1BD-08PMFP-LC7001	1BDU-08PMFP-LC7001	1BU-10PMMP-LC7001	1BU-12PMMP-LC7001
-	ABD07PMMR-LC7001	-	ABD08PMMR-LC7001	-	-	-	-
ABBD-06RMFS-LC7001	ABD-07RMMS-LC7001	ABD-07RMFS-LC7001	ABD-08RMMS-LC7001	ABD-08RMFS-LC7001	ABDU-08RMFS-LC7001	ABU-10RMMS-LC7001	ABU-12RMMS-LC7001
ABBD-06PMFM-LL7A 11	ABD-07PMMM-LL7A 11	ABD-07PMFM-LL7A 11	ABD-08PMMM-LL7A 11	ABD-08PMFM-LL7A 11	ABDU-08PMFM-LL7A 11	ABU-10PMMM-LL7A 11	ABU-12PMMM-LL7A 11
ABBD-06BMFM-LL7A 11	ABD-07BMMM-LL7A 11	ABD-07BMFM-LL7A 11	ABD-08BMMM-LL7A 11	ABD-08BMFM-LL7A 11	ABDU-08BMFM-LL7A 11*	ABU-10BMMM-LL7A 11	ABU-12BMMM-LL7A 11
ABBD-06BMFA-LL7001	ABD-07BMMA-LL7001	ABD-07BMFA-LL7001	ABD-08BMMA-LL7001	ABD-08BMFA-LL7001	ABDU-08BMFA-LL7001*	-	-
-	ABD-07BMMC-LL7 11 PO	ABD-07BMFC-LL7 11 PO	ABD-08BMMC-LL7 11 PO	ABD-08BMFC-LL7 11 PO	-	-	-
-	AA-ABD07ML-ABDML-LA 11	-	AA-ABD08ML-ABDML-LA 11	-	-	AA-ABU10ML-ABUML-LA 11	AA-ABU12ML-ABUML-LA 11
-	AA-ABD07ML-ABDFL-LA 11	-	AA-ABD08ML-ABDFL-LA 11	-	-	AA-ABU10ML-ABUFL-LA 11	AA-ABU12ML-ABUFL-LA 11
AA-ABBD06HL-ABBDHL-LA 11	-	AA-ABD07HL-ABDHL-LA 11	-	AA-ABD08HL-ABDHL-LA 11	AA-ABDU08HL-ABDUHL-LA 11*	-	-
AA-ABBD06HL-ABDBL-LA 11	-	AA-ABD07HL-ABDBL-LA 11	-	AA-ABD08HL-ABDBL-LA 11	AA-ABDU08HL-ABDUBL-LA 11*	-	-
-	AA-ABD07ML-ABDFR-LA 11	-	AA-ABD08ML-ABDFR-LA 11	-	-	AA-ABU10ML-ABUFR-LA 11	AA-ABU12ML-ABUFR-LA 11
AA-ABBD06HL-ABDBR-LA 11	-	AA-ABD07HL-ABDBR-LA 11	-	AA-ABD08HL-ABDBR-LA 11	AA-ABDU08HL-ABDUBR-LA 11*	-	-

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

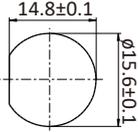
No of Contacts	2				
Rated Voltage (AC/DC)	250 ~ 600V				
Nominal Current	5A		10A		
Plastic / Metal	Plastic				
Pin Assignment	FF	FM	FF	FM	
<b>MM:</b> Male Connector Male Contact <b>FF:</b> Female Connector Female Contact <b>MF:</b> Male Connector Female Contact <b>FM:</b> Female Connector Male Contact					
<b>STRAIGHT</b> , Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ABD-02BFFM-LL7A①	ABD-02BFMM-LL7A①	ABB-02BFFM-LL7A①	ABB-02BFMM-LL7A①
<b>RIGHT ANGLE</b> , Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ABD-02BFFM-LR7A①	ABD-02BFMM-LR7A①	ABB-02BFFM-LR7A①	ABB-02BFMM-LR7A①
<b>STRAIGHT-TO-STRAIGHT</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact	AA-ABD02FL-ABDFL-LA①	-	AA-ABB02FL-ABBFL-LA①	-
	End2: Female Conn Female Contact	-	AA-ABD02BL-ABDBL-LA①	-	AA-ABB02BL-ABBBL-LA①
	End1: Female Conn Male Contact	-	AA-ABD02BR-ABDBR-LA①	-	AA-ABB02BR-ABBBL-LA①
	End2: Female Conn Male Contact	-	-	-	-
<b>RIGHT ANGLE-TO-RIGHT ANGLE</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact	AA-ABD02FR-ABDFR-LA①	-	AA-ABB02FR-ABBFR-LA①	-
	End2: Female Conn Female Contact	-	AA-ABD02BR-ABDBR-LA①	-	AA-ABB02BR-ABBBL-LA①
	End1: Female Conn Male Contact	-	AA-ABD02BR-ABDBR-LA①	-	AA-ABB02BR-ABBBL-LA①
	End2: Female Conn Male Contact	-	-	-	-
<b>STRAIGHT-TO-RIGHT ANGLE</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact	AA-ABD02FL-ABDFR-LA①	-	AA-ABB02FL-ABBFR-LA①	-
	End2: Female Conn Female Contact	-	AA-ABD02BR-ABDBR-LA①	-	AA-ABB02BL-ABBBL-LA①
	End1: Female Conn Male Contact	-	AA-ABD02BR-ABDBR-LA①	-	AA-ABB02BL-ABBBL-LA①
	End2: Female Conn Male Contact	-	-	-	-
Field Serviceable/Installable, <b>STRAIGHT</b> , Without Strain Relief, IP67 (Mated)					
Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm					
	Solder Type	ABD-02BFFA-LL7001	ABD-02BFMA-LL7001	ABB-02BFFA-LL7001	ABB-02BFMA-LL7001
	Crimp Type	ABD-02BFFC-LL7① P0	ABD-02BFMC-LL7① P0	ABB-02BFFC-LL7① P0	ABB-02BFMC-LL7① P0

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

3				4			
250 ~ 600V				250 ~ 600V			
5A		10A		5A		10A	
Plastic				Plastic			
FF	FM	FF	FM	FF	FM	FF	FM
ABD-03BFFM-LL7A 11	ABD-03BFMM-LL7A 11	ABB-03BFFM-LL7A 11	ABB-03BFMM-LL7A 11	ABD-04BFFM-LL7A 11	ABD-04BFMM-LL7A 11	ABB-04BFFM-LL7A 11	ABB-04BFMM-LL7A 11
ABD-03BFFM-LR7A 11	ABD-03BFMM-LR7A 11	ABB-03BFFM-LR7A 11	ABB-03BFMM-LR7A 11	ABD-04BFFM-LR7A 11	ABD-04BFMM-LR7A 11	ABB-04BFFM-LR7A 11	ABB-04BFMM-LR7A 11
AA-ABD03FL-ABDFL-LA 11	-	AA-ABB03FL-ABBFL-LA 11	-	AA-ABD04FL-ABDFL-LA 11	-	AA-ABB04FL-ABBFL-LA 11	-
-	AA-ABD03BL-ABDBL-LA 11	-	AA-ABB03BL-ABBBL-LA 11	-	AA-ABD04BL-ABDBL-LA 11	-	AA-ABB04BL-ABBBL-LA 11
AA-ABD03FR-ABDFR-LA 11	-	AA-ABB03FR-ABBFR-LA 11	-	AA-ABD04FR-ABDFR-LA 11	-	AA-ABB04FR-ABBFR-LA 11	-
-	AA-ABD03BR-ABDBR-LA 11	-	AA-ABB03BR-ABBBR-LA 11	-	AA-ABD04BR-ABDBR-LA 11	-	AA-ABB04BR-ABBBR-LA 11
AA-ABD03FL-ABDFR-LA 11	-	AA-ABB03FL-ABBFR-LA 11	-	AA-ABD04FL-ABDFR-LA 11	-	AA-ABB04FL-ABBFR-LA 11	-
-	AA-ABD03BR-ABDBR-LA 11	-	AA-ABB03BL-ABBBL-LA 11	-	AA-ABD04BR-ABDBR-LA 11	-	AA-ABB04BL-ABBBL-LA 11
ABD-03BFFA-LL7001	ABD-03BFMA-LL7001	ABB-03BFFA-LL7001	ABB-03BFMA-LL7001	ABD-04BFFA-LL7001	ABD-04BFMA-LL7001	ABB-04BFFA-LL7001	ABB-04BFMA-LL7001
ABD-03BFFC-LL7 11 P0	ABD-03BFMC-LL7 11 P0	ABB-03BFFC-LL7 11 P0	ABB-03BFMC-LL7 11 P0	ABD-04BFFC-LL7 11 P0	ABD-04BFMC-LL7 11 P0	ABB-04BFFC-LL7 11 P0	ABB-04BFMC-LL7 11 P0

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	5		6		
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V		
Nominal Current	5A		5A	10A+5A	
Plastic / Metal	Plastic		Plastic		
Pin Assignment	FF	FM	FF	FM	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact					

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05BFFM-LL7A <sup>11</sup>	ABD-05BFMM-LL7A <sup>11</sup>	ABD-06BFFM-LL7A <sup>11</sup>	ABD-06BFMM-LL7A <sup>11</sup>	ABBD-06BFMM-LL7A <sup>11</sup>
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05BFFM-LR7A <sup>11</sup>	ABD-05BFMM-LR7A <sup>11</sup>	ABD-06BFFM-LR7A <sup>11</sup>	ABD-06BFMM-LR7A <sup>11</sup>	ABBD-06BFMM-LR7A <sup>11</sup>
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ABD05FL-ABDFL-LA <sup>11</sup>	-	AA-ABD06FL-ABDFL-LA <sup>11</sup>	-	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ABD05BL-ABDBL-LA <sup>11</sup>	-	AA-ABD06BL-ABDBL-LA <sup>11</sup>	AA-ABBD06BL-ABDBL-LA <sup>11</sup>

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ABD05FR-ABDFR-LA <sup>11</sup>	-	AA-ABD06FR-ABDFR-LA <sup>11</sup>	-	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ABD05BR-ABDBR-LA <sup>11</sup>	-	AA-ABD06BR-ABDBR-LA <sup>11</sup>	AA-ABBD06BR-ABDBR-LA <sup>11</sup>

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ABD05FL-ABDFR-LA <sup>11</sup>	-	AA-ABD06FL-ABDFR-LA <sup>11</sup>	-	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ABD05BR-ABDBR-LA <sup>11</sup>	-	AA-ABD06BR-ABDBR-LA <sup>11</sup>	AA-ABBD06BL-ABDBR-LA <sup>11</sup>

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | 11 Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

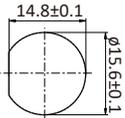
	Solder Type	ABD-05BFFA-LL7001	ABD-05BFMA-LL7001	ABD-06BFFA-LL7001	ABD-06BFMA-LL7001	ABBD-06BFMA-LL7001
	Crimp Type	ABD-05BFFC-LL7 <sup>11</sup> P0	ABD-05BFMC-LL7 <sup>11</sup> P0	ABD-06BFFC-LL7 <sup>11</sup> P0	ABD-06BFMC-LL7 <sup>11</sup> P0	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

7		8			10	12
250 ~ 600V		250 ~ 600V			250 ~ 600V	250 ~ 600V
5A		5A	5A+2A		2A	2A
Plastic		Plastic			Plastic	Plastic
FF	FM	FF	FM	FM	FF	FF
ABD-07BFFM-LL7A <sup>11</sup>	ABD-07BFMM-LL7A <sup>11</sup>	ABD-08BFFM-LL7A <sup>11</sup>	ABD-08BFMM-LL7A <sup>11</sup>	ABDU-08BFMM-LL7A <sup>11</sup>	ABU-10BFFM-LL7A <sup>11</sup>	ABU-12BFFM-LL7A <sup>11</sup>
ABD-07BFFM-LR7A <sup>11</sup>	ABD-07BFMM-LR7A <sup>11</sup>	ABD-08BFFM-LR7A <sup>11</sup>	ABD-08BFMM-LR7A <sup>11</sup>	ABDU-08BFMM-LR7A <sup>11</sup>	ABU-10BFFM-LR7A <sup>11</sup>	ABU-12BFFM-LR7A <sup>11</sup>
AA-ABD07FL-ABDFL-LA <sup>11</sup>	-	AA-ABD08FL-ABDFL-LA <sup>11</sup>	-	-	AA-ABU10FL-ABUFL-LA <sup>11</sup>	AA-ABU12FL-ABUFL-LA <sup>11</sup>
-	AA-ABD07BL-ABDBL-LA <sup>11</sup>	-	AA-ABD08BL-ABDBL-LA <sup>11</sup>	AA-ABDU08BL-ABDUBL-LA <sup>11</sup>	-	-
AA-ABD07FR-ABDFR-LA <sup>11</sup>	-	AA-ABD08FR-ABDFR-LA <sup>11</sup>	-	-	AA-ABU10FR-ABUFR-LA <sup>11</sup>	AA-ABU12FR-ABUFR-LA <sup>11</sup>
-	AA-ABD07BR-ABDBR-LA <sup>11</sup>	-	AA-ABD08BR-ABDBR-LA <sup>11</sup>	AA-ABDU08BR-ABDUBR-LA <sup>11</sup>	-	-
AA-ABD07FL-ABDFR-LA <sup>11</sup>	-	AA-ABD08FL-ABDFR-LA <sup>11</sup>	-	-	AA-ABU10FL-ABUFR-LA <sup>11</sup>	AA-ABU12FL-ABUFR-LA <sup>11</sup>
-	AA-ABD07BR-ABDBR-LA <sup>11</sup>	-	AA-ABD08BR-ABDBR-LA <sup>11</sup>	AA-ABDU08BL-ABDUBR-LA <sup>11</sup>	-	-
ABD-07BFFA-LL7001	ABD-07BFMA-LL7001	ABD-08BFFA-LL7001	ABD-08BFMA-LL7001	ABDU-08BFMA-LL7001	ABU-10BFFA-LL7001	ABU-12BFFA-LL7001
ABD-07BFFC-LL7 <sup>11</sup> PO	ABD-07BFMC-LL7 <sup>11</sup> PO	ABD-08BFFC-LL7 <sup>11</sup> PO	ABD-08BFMC-LL7 <sup>11</sup> PO	-	ABU-10BFFC-LL7 <sup>11</sup> PO*	ABU-12BFFC-LL7 <sup>11</sup> PO*

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



PCB 180°  
(P) Receptacle



PCB 90°  
(R) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable

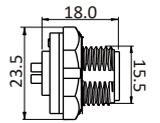


Crimp  
(C) Field Serviceable/Installable

No of Contacts	2			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	5A		10A	
Plastic / Metal	Plastic			
Pin Assignment	MM	MF	MM	MF
MM : Male Connector Male Contact FF : Female Connector Female Contact MF : Male Connector Female Contact FM : Female Connector Male Contact				

### Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Unmated)

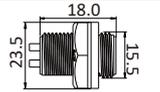
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm



Solder Type	ABD-02PMM5-SC7001	ABD-02PMF5-SC7001	ABB-02PMM5-SC7001	ABB-02PMF5-SC7001
180° PCB Type	1BD-02PMMP-SC7001	1BD-02PMFP-SC7001	1BB-02PMMP-SC7001	1BB-02PMFP-SC7001
90° PCB Type	ABD-02PMMR-SC7001	-	-	-

### Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Unmated)

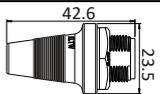
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm



Solder Type	ABD-02RMM5-SC7001	ABD-02RMF5-SC7001	ABB-02RMM5-SC7001	ABB-02RMF5-SC7001
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### Receptacle With Cable, STRAIGHT, IP67 (Unmated)

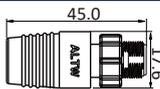
11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>



UL2464, PVC Jacket	ABD-02PMMM-SL7A <sup>11</sup>	ABD-02PMFM-SL7A <sup>11</sup>	ABB-02PMMM-SL7A <sup>11</sup>	ABB-02PMFM-SL7A <sup>11</sup>
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### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

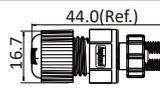
11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>



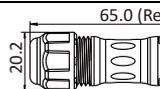
UL2464, PVC Jacket	ABD-02BMMM-SL7A <sup>11*</sup>	ABD-02BMFM-SL7A <sup>11*</sup>	ABB-02BMMM-SL7A <sup>11*</sup>	ABB-02BMFM-SL7A <sup>11*</sup>
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### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | 11 Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm



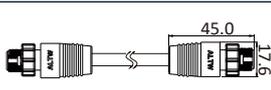
Solder Type	ABD-02BMA-SL7001*	ABD-02BMFA-SL7001*	ABB-02BMA-SL7001*	ABB-02BMFA-SL7001*
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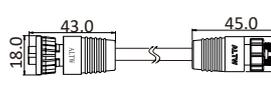
Crimp Type	ABD-02BMC-SL7 <sup>11</sup> P0*	ABD-02BMFC-SL7 <sup>11</sup> P0*	ABB-02BMC-SL7 <sup>11</sup> P0*	ABB-02BMFC-SL7 <sup>11</sup> P0*
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM



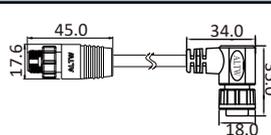
End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ABD02ML-ABDML-SA <sup>11*</sup>	-	AA-ABB02ML-ABBML-SA <sup>11*</sup>	-
End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD02ML-ABDFL-SA <sup>11*</sup>	-	AA-ABB02ML-ABBFL-SA <sup>11*</sup>	-



End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ABD02HL-ABDHL-SA <sup>11*</sup>	-	AA-ABB02HL-ABBHL-SA <sup>11*</sup>
End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD02HL-ABDBL-SA <sup>11*</sup>	-	AA-ABB02HL-ABBBL-SA <sup>11*</sup>

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM



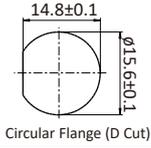
End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD02ML-ABDFR-SA <sup>11*</sup>	-	AA-ABB02ML-ABBFR-SA <sup>11*</sup>	-
End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD02HL-ABDBR-SA <sup>11*</sup>	-	AA-ABB02HL-ABBBR-SA <sup>11*</sup>

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

3				4			
250 ~ 600V				250 ~ 600V			
5A		10A		5A		10A	
Plastic				Plastic			
MM	MF	MM	MF	MM	MF	MM	MF
ABD-03PMMS-SC7001	ABD-03PMFS-SC7001	ABB-03PMMS-SC7001	ABB-03PMFS-SC7001	ABD-04PMMS-SC7001	ABD-04PMFS-SC7001	ABB-04PMMS-SC7001	ABB-04PMFS-SC7001
1BD-03PMMP-SC7001	1BD-03PMFP-SC7001	1BB-03PMMP-SC7001	1BB-03PMFP-SC7001	1BD-04PMMP-SC7001	1BD-04PMFP-SC7001	1BB-04PMMP-SC7001	1BB-04PMFP-SC7001
ABD-03PMMR-SC7001	-	-	-	ABD-04PMMR-SC7001	-	-	-
ABD-03RMMS-SC7001	ABD-03RMFS-SC7001	ABB-03RMMS-SC7001	ABB-03RMFS-SC7001	ABD-04RMMS-SC7001	ABD-04RMFS-SC7001	ABB-04RMMS-SC7001	ABB-04RMFS-SC7001
ABD-03PMMM-SL7A <sup>11</sup>	ABD-03PMFM-SL7A <sup>11</sup>	ABB-03PMMM-SL7A <sup>11</sup>	ABB-03PMFM-SL7A <sup>11</sup>	ABD-04PMMM-SL7A <sup>11</sup>	ABD-04PMFM-SL7A <sup>11</sup>	ABB-04PMMM-SL7A <sup>11</sup>	ABB-04PMFM-SL7A <sup>11</sup>
ABD-03BMMM-SL7A <sup>11</sup> *	ABD-03BMFM-SL7A <sup>11</sup> *	ABB-03BMMM-SL7A <sup>11</sup> *	ABB-03BMFM-SL7A <sup>11</sup> *	ABD-04BMMM-SL7A <sup>11</sup> *	ABD-04BMFM-SL7A <sup>11</sup> *	ABB-04BMMM-SL7A <sup>11</sup> *	ABB-04BMFM-SL7A <sup>11</sup> *
ABD-03BMMA-SL7001*	ABD-03BMFA-SL7001*	ABB-03BMMA-SL7001*	ABB-03BMFA-SL7001*	ABD-04BMMA-SL7001*	ABD-04BMFA-SL7001*	ABB-04BMMA-SL7001*	ABB-04BMFA-SL7001*
ABD-03BMMC-SL7 <sup>11</sup> P0*	ABD-03BMFC-SL7 <sup>11</sup> P0*	ABB-03BMMC-SL7 <sup>11</sup> P0*	ABB-03BMFC-SL7 <sup>11</sup> P0*	ABD-04BMMC-SL7 <sup>11</sup> P0*	ABD-04BMFC-SL7 <sup>11</sup> P0*	ABB-04BMMC-SL7 <sup>11</sup> P0*	ABB-04BMFC-SL7 <sup>11</sup> P0*
AA-ABD03ML-ABDML-SA <sup>11</sup> *	-	AA-ABB03ML-ABBML-SA <sup>11</sup> *	-	AA-ABD04ML-ABDML-SA <sup>11</sup> *	-	AA-ABB04ML-ABBML-SA <sup>11</sup> *	-
AA-ABD03ML-ABDFL-SA <sup>11</sup> *	-	AA-ABB03ML-ABBFL-SA <sup>11</sup>	-	AA-ABD04ML-ABDFL-SA <sup>11</sup> *	-	AA-ABB04ML-ABBFL-SA <sup>11</sup>	-
-	AA-ABD03HL-ABDHL-SA <sup>11</sup> *	-	AA-ABB03HL-ABBHL-SA <sup>11</sup> *	-	AA-ABD04HL-ABDHL-SA <sup>11</sup> *	-	AA-ABB04HL-ABBHL-SA <sup>11</sup> *
-	AA-ABD03HL-ABDBL-SA <sup>11</sup> *	-	AA-ABB03HL-ABBBL-SA <sup>11</sup> *	-	AA-ABD04HL-ABDBL-SA <sup>11</sup> *	-	AA-ABB04HL-ABBBL-SA <sup>11</sup> *
AA-ABD03ML-ABDFR-SA <sup>11</sup> *	-	AA-ABB03ML-ABBFR-SA <sup>11</sup> *	-	AA-ABD04ML-ABDFR-SA <sup>11</sup> *	-	AA-ABB04ML-ABBFR-SA <sup>11</sup> *	-
-	AA-ABD03HL-ABDBR-SA <sup>11</sup> *	-	AA-ABB03HL-ABBRR-SA <sup>11</sup> *	-	AA-ABD04HL-ABDBR-SA <sup>11</sup> *	-	AA-ABB04HL-ABBRR-SA <sup>11</sup> *

## Panel Cut Out Assemble Style



No of Contacts	5		6		
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V		
Nominal Current	5A		5A	10A+5A	
Plastic / Metal	Plastic		Plastic		
Pin Assignment	MM	MF	MM	MF	MF
<b>MM:</b> Male Connector Male Contact <b>FF:</b> Female Connector Female Contact <b>MF:</b> Male Connector Female Contact <b>FM:</b> Female Connector Male Contact					

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm

	Solder Type	ABD-05P <b>MM</b> S-SC7001	ABD-05P <b>M</b> F S-SC7001	ABD-06P <b>MM</b> S-SC7001	ABD-06P <b>M</b> F S-SC7001	ABBD-06P <b>M</b> F S-SC7001
	180° PCB Type	1BD-05P <b>MM</b> P-SC7001	1BD-05P <b>M</b> F P-SC7001	1BD-06P <b>MM</b> P-SC7001	1BD-06P <b>M</b> F P-SC7001	1BBD-06P <b>M</b> F P-SC7001
	90° PCB Type	ABD-05P <b>MM</b> R-SC7001	-	ABD-06P <b>MM</b> R-SC7001	-	-

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.0mm / 4.0mm, (without cap) max. 3.5mm / 5.0mm

	Solder Type	ABD-05R <b>MM</b> S-SC7001	ABD-05R <b>M</b> F S-SC7001	ABD-06R <b>MM</b> S-SC7001	ABD-06R <b>M</b> F S-SC7001	ABBD-06R <b>M</b> F S-SC7001
	90° PCB Type	-	-	-	-	-

Receptacle With Cable, **STRAIGHT**, IP67 (Unmated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05P <b>MM</b> M-SL7A①	ABD-05P <b>M</b> F M-SL7A①	ABD-06P <b>MM</b> M-SL7A①	ABD-06P <b>M</b> F M-SL7A①	ABBD-06P <b>M</b> F M-SL7A①
	Solder Type	ABD-05P <b>MM</b> S-SL7A①	ABD-05P <b>M</b> F S-SL7A①	ABD-06P <b>MM</b> S-SL7A①	ABD-06P <b>M</b> F S-SL7A①	ABBD-06P <b>M</b> F S-SL7A①

**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05B <b>MM</b> M-SL7A①*	ABD-05B <b>M</b> F M-SL7A①*	ABD-06B <b>MM</b> M-SL7A①*	ABD-06B <b>M</b> F M-SL7A①*	ABBD-06B <b>M</b> F M-SL7A①*
	Solder Type	ABD-05B <b>MM</b> S-SL7A①*	ABD-05B <b>M</b> F S-SL7A①*	ABD-06B <b>MM</b> S-SL7A①*	ABD-06B <b>M</b> F S-SL7A①*	ABBD-06B <b>M</b> F S-SL7A①*

Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ABD-05B <b>MM</b> A-SL7001*	ABD-05B <b>M</b> F A-SL7001*	ABD-06B <b>MM</b> A-SL7001*	ABD-06B <b>M</b> F A-SL7001*	ABBD-06B <b>M</b> F A-SL7001*
	Crimp Type	ABD-05B <b>MM</b> C-SL7①P0*	ABD-05B <b>M</b> F C-SL7①P0*	ABD-06B <b>MM</b> C-SL7①P0*	ABD-06B <b>M</b> F C-SL7①P0*	-

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ABD05 <b>M</b> L-ABD <b>M</b> L-SA①*	-	AA-ABD06 <b>M</b> L-ABD <b>M</b> L-SA①*	-	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD05 <b>M</b> L-ABD <b>F</b> L-SA①*	-	AA-ABD06 <b>M</b> L-ABD <b>F</b> L-SA①*	-	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ABD05 <b>H</b> L-ABD <b>H</b> L-SA①*	-	AA-ABD06 <b>H</b> L-ABD <b>H</b> L-SA①*	AA-ABBD06 <b>H</b> L-ABD <b>H</b> L-SA①*
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD05 <b>H</b> L-ABD <b>B</b> L-SA①*	-	AA-ABD06 <b>H</b> L-ABD <b>B</b> L-SA①*	AA-ABBD06 <b>H</b> L-ABD <b>B</b> L-SA①*

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

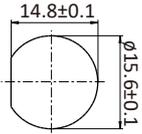
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABD05 <b>M</b> L-ABD <b>F</b> R-SA①*	-	AA-ABD06 <b>M</b> L-ABD <b>F</b> R-SA①*	-	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ABD05 <b>H</b> L-ABD <b>B</b> R-SA①*	-	AA-ABD06 <b>H</b> L-ABD <b>B</b> R-SA①*	AA-ABBD06 <b>H</b> L-ABD <b>B</b> R-SA①*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

7		8			10	12
250 ~ 600V		250 ~ 600V			250 ~ 600V	250 ~ 600V
5A		5A	5A+2A	2A		2A
Plastic		Plastic			Plastic	Plastic
MM	MF	MM	MF	MF	MM	MM
ABD-07PMMS-SC7001	ABD-07PMFS-SC7001	ABD-08PMMS-SC7001	ABD-08PMFS-SC7001	ABDU-08PMFS-SC7001	ABU-10PMMS-SC7001	ABU-12PMMS-SC7001
1BD-07PMMP-SC7001	1BD-07PMFP-SC7001	1BD-08PMMP-SC7001	1BD-08PMFP-SC7001	1BDU-08PMFP-SC7001	1BU-10PMMP-SC7001	1BU-12PMMP-SC7001
ABD-07PMMR-SC7001	-	ABD-08PMMR-SC7001	-	-	-	-
ABD-07RMS-SC7001	ABD-07RMFS-SC7001	ABD-08RMS-SC7001	ABD-08RMFS-SC7001	ABDU-08RMFS-SC7001	ABU-10RMS-SC7001	ABU-12RMS-SC7001
ABD-07PMMM-SL7A <sup>11</sup>	ABD-07PMFM-SL7A <sup>11</sup>	ABD-08PMMM-SL7A <sup>11</sup>	ABD-08PMFM-SL7A <sup>11</sup>	ABDU-08PMFM-SL7A <sup>11</sup>	ABU-10PMMM-SL7A <sup>11</sup>	ABU-12PMMM-SL7A <sup>11</sup>
ABD-07BMMM-SL7A <sup>11</sup> *	ABD-07BMFM-SL7A <sup>11</sup> *	ABD-08BMMM-SL7A <sup>11</sup> *	ABD-08BMFM-SL7A <sup>11</sup> *	ABDU-08BMFM-SL7A <sup>11</sup> *	ABU-10BMMM-SL7A <sup>11</sup> *	ABU-12BMMM-SL7A <sup>11</sup> *
ABD-07BMA-SL7001*	ABD-07BMFA-SL7001*	ABD-08BMA-SL7001*	ABD-08BMFA-SL7001*	ABDU-08BMFA-SL7001*	ABU-10BMA-SL7001*	ABU-12BMA-SL7001*
ABD-07BMC-SL7 <sup>11</sup> PO*	ABD-07BMFC-SL7 <sup>11</sup> PO*	ABD-08BMC-SL7 <sup>11</sup> PO*	ABD-08BMFC-SL7 <sup>11</sup> PO*	-	ABU-10BMC-SL7 <sup>11</sup> PO*	ABU-12BMC-SL7 <sup>11</sup> PO*
AA-ABD07ML-ABDML-SA <sup>11</sup> *	-	AA-ABD08ML-ABDML-SA <sup>11</sup> *	-	-	AA-ABU10ML-ABUML-SA <sup>11</sup> *	AA-ABU12ML-ABUML-SA <sup>11</sup> *
AA-ABD07ML-ABDFL-SA <sup>11</sup> *	-	AA-ABD08ML-ABDFL-SA <sup>11</sup> *	-	-	AA-ABU10ML-ABUFL-SA <sup>11</sup> *	AA-ABU12ML-ABUFL-SA <sup>11</sup> *
-	AA-ABD07HL-ABDHL-SA <sup>11</sup> *	-	AA-ABD08HL-ABDHL-SA <sup>11</sup> *	AA-ABDU08HL-ABDUHL-SA <sup>11</sup> *	-	-
-	AA-ABD07HL-ABDBL-SA <sup>11</sup> *	-	AA-ABD08HL-ABDBL-SA <sup>11</sup> *	AA-ABDU08HL-ABDUBL-SA <sup>11</sup> *	-	-
AA-ABD07ML-ABDFR-SA <sup>11</sup> *	-	AA-ABD08ML-ABDFR-SA <sup>11</sup> *	-	-	AA-ABU10ML-ABUFR-SA <sup>11</sup> *	AA-ABU12ML-ABUFR-SA <sup>11</sup> *
-	AA-ABD07HL-ABDBR-SA <sup>11</sup> *	-	AA-ABD08HL-ABDBR-SA <sup>11</sup> *	AA-ABDU08HL-ABDUBR-SA <sup>11</sup> *	-	-

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder

(A) Field Serviceable/Installable



Crimp

(C) Field Serviceable/Installable

No of Contacts	2			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	5A		10A	
Plastic / Metal	Plastic			
Pin Assignment	FF	FM	FF	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact				

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-02BFFM-SL7A ①	ABD-02BFMM-SL7A ①	ABB-02BFFM-SL7A ①	ABB-02BFMM-SL7A ①
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-02BFFM-SR7A ①	ABD-02BFMM-SR7A ①	ABB-02BFFM-SR7A ①	ABB-02BFMM-SR7A ①
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact	AA-ABD02FL-ABDFL-SA ①	-	AA-ABB02FL-ABBFL-SA ①	-
	End2: Female Conn Female Contact	-	AA-ABD02BL-ABDBL-SA ①	-	AA-ABB02BL-ABBBL-SA ①
	End1: Female Conn Male Contact	-	-	-	-
	End2: Female Conn Male Contact	-	-	-	-

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact	AA-ABD02FR-ABDFR-SA ①	-	AA-ABB02FR-ABBFR-SA ①	-
	End2: Female Conn Female Contact	-	AA-ABD02BR-ABDBR-SA ①	-	AA-ABB02BR-ABBFR-SA ①
	End1: Female Conn Male Contact	-	-	-	-
	End2: Female Conn Male Contact	-	-	-	-

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact	AA-ABD02FL-ABDFR-SA ①	-	AA-ABB02FL-ABBFR-SA ①	-
	End2: Female Conn Female Contact	-	AA-ABD02BL-ABDBR-SA ①	-	AA-ABB02BL-ABBFR-SA ①
	End1: Female Conn Male Contact	-	-	-	-
	End2: Female Conn Male Contact	-	-	-	-

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

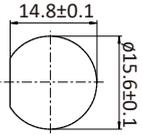
	Solder Type	ABD-02BFFA-SL7001	ABD-02BFMA-SL7001	ABB-02BFFA-SL7001	ABB-02BFMA-SL7001
	Crimp Type	ABD-02BFFC-SL7 ① P0	ABD-02BFMC-SL7 ① P0	ABB-02BFFC-SL7 ① P0	ABB-02BFMC-SL7 ① P0

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

3				4			
250 ~ 600V				250 ~ 600V			
5A		10A		5A		10A	
Plastic				Plastic			
FF	FM	FF	FM	FF	FM	FF	FM
ABD-03BFFM-SL7A <sup>11</sup>	ABD-03BFMM-SL7A <sup>11</sup>	ABB-03BFFM-SL7A <sup>11</sup>	ABB-03BFMM-SL7A <sup>11</sup>	ABD-04BFFM-SL7A <sup>11</sup>	ABD-04BFMM-SL7A <sup>11</sup>	ABB-04BFFM-SL7A <sup>11</sup>	ABB-04BFMM-SL7A <sup>11</sup>
ABD-03BFFM-SR7A <sup>11</sup>	ABD-03BFMM-SR7A <sup>11</sup>	ABB-03BFFM-SR7A <sup>11</sup>	ABB-03BFMM-SR7A <sup>11</sup>	ABD-04BFFM-SR7A <sup>11</sup>	ABD-04BFMM-SR7A <sup>11</sup>	ABB-04BFFM-SR7A <sup>11</sup>	ABB-04BFMM-SR7A <sup>11</sup>
AA-ABD03FL-ABDFL-SA <sup>11</sup>	-	AA-ABB03FL-ABBFL-SA <sup>11</sup>	-	AA-ABD04FL-ABDFL-SA <sup>11</sup>	-	AA-ABB04FL-ABBFL-SA <sup>11</sup>	-
-	AA-ABD03BL-ABDBL-SA <sup>11</sup>	-	AA-ABB03BL-ABBBL-SA <sup>11</sup>	-	AA-ABD04BL-ABDBL-SA <sup>11</sup>	-	AA-ABB04BL-ABBBL-SA <sup>11</sup>
AA-ABD03FR-ABDFR-SA <sup>11</sup>	-	-	-	AA-ABD04FR-ABDFR-SA <sup>11</sup>	-	-	-
-	AA-ABD03BR-ABDBR-SA <sup>11</sup>	-	AA-ABB03BR-ABBBR-SA <sup>11</sup>	-	AA-ABD04BR-ABDBR-SA <sup>11</sup>	-	AA-ABB04BR-ABBBR-SA <sup>11</sup>
AA-ABD03FL-ABDFR-SA <sup>11</sup>	-	AA-ABB03FL-ABBFR-SA <sup>11</sup>	-	AA-ABD04FL-ABDFR-SA <sup>11</sup>	-	AA-ABB04FL-ABBFR-SA <sup>11</sup>	-
-	AA-ABD03BL-ABDBR-SA <sup>11</sup>	-	AA-ABB03BL-ABBBR-SA <sup>11</sup>	-	AA-ABD04BL-ABDBR-SA <sup>11</sup>	-	AA-ABB04BL-ABBBR-SA <sup>11</sup>
ABD-03BFFA-SL7001	ABD-03BFMA-SL7001	ABB-03BFFA-SL7001	ABB-03BFMA-SL7001	ABD-04BFFA-SL7001	ABD-04BFMA-SL7001	ABB-04BFFA-SL7001	ABB-05BFMA-SL7001
ABD-03BFFC-SL7 <sup>11</sup> P0	ABD-03BFMC-SL7 <sup>11</sup> P0	ABB-03BFFC-SL7 <sup>11</sup> P0	ABB-03BFMC-SL7 <sup>11</sup> P0	ABD-04BFFC-SL7 <sup>11</sup> P0	ABD-04BFMC-SL7 <sup>11</sup> P0	ABB-04BFFC-SL7 <sup>11</sup> P0	ABB-05BFMC-SL7 <sup>11</sup> P0

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder

(A) Field Serviceable/Installable



Crimp

(C) Field Serviceable/Installable

No of Contacts	5		6		
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V		
Nominal Current	5A		5A	10A+5A	
Plastic / Metal	Plastic		Plastic		
Pin Assignment	FF	FM	FF	FM	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact					

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05BFFM-SL7A①	ABD-05BFMM-SL7A①	ABD-06BFFM-SL7A①	ABD-06BFMM-SL7A①	ABBD-06BFFM-SL7A①
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABD-05BFFM-SR7A①	ABD-05BFMM-SR7A①	ABD-06BFFM-SR7A①	ABD-06BFMM-SR7A①	ABBD-06BFFM-SR7A①
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact	AA-ABD05FL-ABDFL-SA①	-	AA-ABD06FL-ABDFL-SA①	-	-
	End2: Female Conn Female Contact	-	-	-	-	-
	End1: Female Conn Male Contact	-	AA-ABD05BL-ABDBL-SA①	-	AA-ABD06BL-ABDBL-SA①	AA-ABBD06BL-ABDBL-SA①
	End2: Female Conn Male Contact	-	-	-	-	-

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact	AA-ABD05FR-ABDFR-SA①	-	AA-ABD06FR-ABDFR-SA①	-	-
	End2: Female Conn Female Contact	-	-	-	-	-
	End1: Female Conn Male Contact	-	AA-ABD05BR-ABDBR-SA①	-	AA-ABD06BR-ABDBR-SA①	AA-ABBD06BR-ABDBR-SA①
	End2: Female Conn Male Contact	-	-	-	-	-

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact	AA-ABD05FL-ABDFR-SA①	-	AA-ABD06FL-ABDFR-SA①	-	-
	End2: Female Conn Female Contact	-	-	-	-	-
	End1: Female Conn Male Contact	-	AA-ABD05BL-ABDBR-SA①	-	AA-ABD06BL-ABDBR-SA①	AA-ABBD06BL-ABDBR-SA①
	End2: Female Conn Male Contact	-	-	-	-	-

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

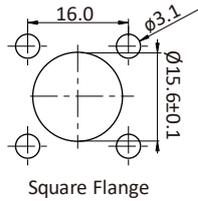
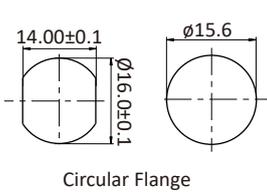
	Solder Type	ABD-05BFFA-SL7001	ABD-05BFMA-SL7001	ABD-06BFFA-SL7001	ABD-06BFMA-SL7001	ABBD-06BFFA-SL7001
	Crimp Type	ABD-05BFFC-SL7①P0	ABD-05BFMC-SL7①P0	ABD-06BFFC-SL7①P0	ABD-06BFMC-SL7①P0	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

7		8			10	12
250 ~ 600V		250 ~ 600V			250 ~ 600V	250 ~ 600V
5A		5A	5A+2A		2A	2A
Plastic		Plastic			Plastic	Plastic
FF	FM	FF	FM	FM	FF	FF
ABD-07BFFM-SL7A <sup>11</sup>	ABD-07BFMM-SL7A <sup>11</sup>	ABD-08BFFM-SL7A <sup>11</sup>	ABD-08BFMM-SL7A <sup>11</sup>	ABDU-08BFFM-SL7A <sup>11</sup>	ABU-10BFFM-SL7A <sup>11</sup>	ABU-12BFFM-SL7A <sup>11</sup>
ABD-07BFFM-SR7A <sup>11</sup>	ABD-07BFMM-SR7A <sup>11</sup>	ABD-08BFFM-SR7A <sup>11</sup>	ABD-08BFMM-SR7A <sup>11</sup>	ABDU-08BFFM-SR7A <sup>11</sup>	ABU-10BFFM-SR7A <sup>11</sup>	ABU-12BFFM-SR7A <sup>11</sup>
AA-ABD07FL-ABDFL-SA <sup>11</sup>	-	AA-ABD08FL-ABDFL-SA <sup>11</sup>	-	-	AA-ABU02FL-ABUFL-SA <sup>11</sup>	AA-ABU12FL-ABUFL-SA <sup>11</sup>
-	AA-ABD07BL-ABDBL-SA <sup>11</sup>	-	AA-ABD08BL-ABDBL-SA <sup>11</sup>	AA-ABDU08BL-ABDUBL-SA <sup>11</sup>	-	-
AA-ABD07FR-ABDFR-SA <sup>11</sup>	-	AA-ABD08FR-ABDFR-SA <sup>11</sup>	-	-	AA-ABU10FR-ABUFR-SA <sup>11</sup>	AA-ABU12FR-ABUFR-SA <sup>11</sup>
-	AA-ABD07BR-ABDBR-SA <sup>11</sup>	-	AA-ABD08BR-ABDBR-SA <sup>11</sup>	AA-ABDU08BR-ABDUBR-SA <sup>11</sup>	-	-
AA-ABD07FL-ABDFR-SA <sup>11</sup>	-	AA-ABD08FL-ABDFR-SA <sup>11</sup>	-	-	AA-ABU02FL-ABUFR-SA <sup>11</sup>	AA-ABU12FL-ABUFR-SA <sup>11</sup>
-	AA-ABD07BL-ABDBR-SA <sup>11</sup>	-	AA-ABD08BL-ABDBR-SA <sup>11</sup>	AA-ABDU08BL-ABDUBR-SA <sup>11</sup>	-	-
ABD-07BFFA-SL7001	ABD-07BFMA-SL7001	ABD-08BFFA-SL7001	ABD-08BFMA-SL7001	ABDU-08BFMA-SL7001	ABU-10BFFA-SL7001	ABU-12BFFA-SL7001
ABD-07BFMC-SL7 <sup>11</sup> P0	ABD-07BFMC-SL7 <sup>11</sup> P0	ABD-08BFMC-SL7 <sup>11</sup> P0	ABD-08BFMC-SL7 <sup>11</sup> P0	-	ABU-10BFFC-SL7 <sup>11</sup> P0*	ABU-12BFFC-SL7 <sup>11</sup> P0*

## Panel Cut Out



## Assemble Style



No of Contacts	4		5
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V
Nominal Current	5A	10A	5A
Plastic / Metal	Metal		Metal
Pin Assignment	MM	MM	MM
MM : Male Connector Male Contact FF : Female Connector Female Contact			

### Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Unmated)

Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: max. 5.0mm

	Solder Type	ABSD-04PMMS-SC7001	ABSB-04RMMS-SC7001	ABSD-05PMMS-SC7001
	180° PCB Type	1BSD-04PMMP-SC7001	-	1BSD-05PMMP-SC7001

### Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Unmated)

Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: max. 7.0mm

	Solder Type	ABSD-04RMMS-SC7001	-	ABSD-05RMMS-SC7001
	180° PCB Type	1BSD-04PMMP-SS7001	-	1BSD-05PMMP-SS7001

### Receptacle, Square Flange, FRONT Fastened Nut, IP67 (Unmated)

Nut Torque Value: 10 ~ 12 kgf.cm | Recommended Panel Thickness: max. 4.4mm

	Solder Type	ABSD-04RMMS-SC7001	-	ABSD-05RMMS-SC7001
	180° PCB Type	1BSD-04PMMP-SS7001	-	1BSD-05PMMP-SS7001

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABSD-04BMMM-SL7A①*	ABSB-04BMMM-SL7A①*	ABSD-05BMMM-SL7A①*

### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ABSD04ML-ABSDML-SA①	AA-ABSB04ML-ABSBML-SA①	AA-ABSD05ML-ABSDML-SA①
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABSD04ML-ABSDFL-SA①	AA-ABSB04ML-ABSBFL-SA①	AA-ABSD05ML-ABSDFL-SA①

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

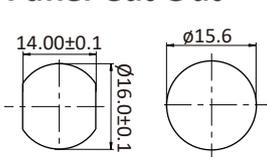
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ABSD04ML-ABSDFR-SA①	AA-ABSB04ML-ABSBFR-SA①	AA-ABSD05ML-ABSDFR-SA①

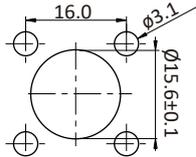
6	7	8	10
250 ~ 600V	250 ~ 600V	250 ~ 600V	250 ~ 600V
5A	5A	5A	2A
Metal	Metal	Metal	Metal
MM	MM	MM	MM
			
ABSD-06PMMS-SC7001	ABSD-07PMMS-SC7001	ABSD-08PMMS-SC7001	ABSU-10PMMS-SC7001
1BSD-06PMMP-SC7001	1BSD-07PMMP-SC7001	1BSD-08PMMP-SC7001	1BSU-10PMMP-SC7001
ABSD-06RMMS-SC7001	ABSD-07RMMS-SC7001	ABSD-08RMMS-SC7001	ABSU-10RMMS-SC7001
1BSD-06PMMP-SS7001	1BSD-07PMMP-SS7001	1BSD-08PMMP-SS7001	-
ABSD-06BMMM-SL7A  *	ABSD-07BMMM-SL7A  *	ABSD-08BMMM-SL7A  *	ABSU-10BMMM-SL7A  *

AA-ABSD06ML-ABSDML-SA 	AA-ABSD07ML-ABSDML-SA 	AA-ABSD08ML-ABSDML-SA 	AA-ABSU10ML-ABSUML-SA 
AA-ABSD06ML-ABSDFL-SA 	AA-ABSD07ML-ABSDFL-SA 	AA-ABSD08ML-ABSDFL-SA 	AA-ABSU10ML-ABSUFL-SA 
AA-ABSD06ML-ABSDFR-SA 	AA-ABSD07ML-ABSDFR-SA 	AA-ABSD08ML-ABSDFR-SA 	AA-ABSU10ML-ABSUFR-SA 

## Panel Cut Out



Circular Flange



Square Flange

## Assemble Style



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	4		5
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V
Nominal Current	5A	10A	5A
Plastic / Metal	Metal		Metal
Pin Assignment	FF		FF
FF : Female Connector Female Contact			

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC, Jacket	ABSD-04BFFM-SL7A <sup>①</sup>	ABSB-04BFFM-SL7A <sup>①</sup>	ABSD-05BFFM-SL7A <sup>①</sup>
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ABSD-04BFFM-SR7A <sup>①</sup>	ABSB-04BFFM-SR7A <sup>①</sup> *	ABSD-05BFFM-SR7A <sup>①</sup>
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ABSD04 FL-ABSDFL-SA <sup>①</sup>	AA-ABSB04 FL-BSBFL-SA <sup>①</sup>	AA-ABSD05 FL-ABSDFL-SA <sup>①</sup>
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### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ABSD04FR-ABSDFR-SA <sup>①</sup>	AA-ABSB04FR-ABSBFR-SA <sup>①</sup> *	AA-ABSD05FR-ABSDFR-SA <sup>①</sup>
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### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ABSD04FL-ABSDFR-SA <sup>①</sup>	AA-ABSB04FL-ABSBFR-SA <sup>①</sup> *	AA-ABSD05FL-ABSDFR-SA <sup>①</sup>
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### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | Recommended Cable O.D.: 4.5 ~ 6.5mm

	Solder Type	ABSD-04BFFA-SL7001*	ABSB-04BFFA-SL7001*	ABSD-05BFFA-SL7001*
	Crimp Type	ABSD-04BFFC-SL7001*	ABSB-04BFFC-SL7001*	ABSD-05BFFC-SL7001*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

6	7	8	10
250 ~ 600V	250 ~ 600V	250 ~ 600V	250 ~ 600V
5A	5A	5A	2A
Metal	Metal	Metal	Metal
FF	FF	FF	FF
			
ABSD-06BFFM-SL7A 	ABSD-07BFFM-SL7A 	ABSD-08BFFM-SL7A 	ABSU-10BFFM-SL7A 
ABSD-06BFFM-SR7A 	ABSD-07BFFM-SR7A 	ABSD-08BFFM-SR7A 	ABSU-10BFFM-SR7A 
AA-ABSD06FL-ABSDFL-SA 	AA-ABSD04FL-ABSDFL-SA 	AA-ABSD04FL-ABSDFL-SA 	AA-ABSU10FL-ABSUFL-SA 
AA-ABSD06FR-ABSDFR-SA 	AA-ABSD07FR-ABSDFR-SA 	AA-ABSD08FR-ABSDFR-SA 	AA-ABSU10FR-ABSUFR-SA 
AA-ABSD06FL-ABSDFR-SA 	AA-ABSD07FL-ABSDFR-SA 	AA-ABSD08FL-ABSDFR-SA 	AA-ABSU10FL-ABSUFR-SA 
ABSD-06BFFA-SL7001*	ABSD-07BFFA-SL7001*	ABSD-08BFFA-SL7001*	ABSU-10BFFA-SL7001*
ABSD-06BFFC-SL7001*	ABSD-07BFFC-SL7001*	ABSD-08BFFC-SL7001*	-

## Dust Cap

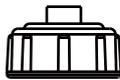


With Rubber Lead

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
Standard Size	Receptacle	Cover	Male	With Rubber Lead	CAP-DABMDCC1
			Male	With Rubber Lead (Longer)	CAP-DABMDCC2
			Male	With Rubber Lead	CAP-DABMDPC3
			Female	With Rubber Lead	CAP-DABFDCC1

## Waterproof Cap

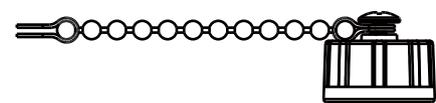
For Mating with Male Connector



None



With Rubber Lead

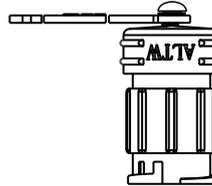


With Chain

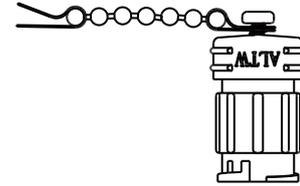
For Mating with Female Connector



None



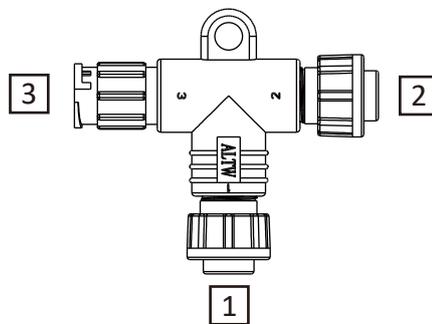
With Rubber Lead



With Chain

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number	
Standard Size	Receptacle	Screw Thread	Male	With Chain	CAP-WABMSPB1	
		Screw Thread	Male	With Rubber Lead	CAP-WABMSPC1	
		Screw Thread	Female	With Rubber Lead	CAP-WABFSPC1	
		2 Points Lock	Male	With Chain	CAP-WABMLPB1	
		2 Points Lock	Female	With Chain	CAP-WABFLPB1	
		2 Points Lock	Male	With Rubber Lead	CAP-WABMLPC1	
	Overmolded With Cable Field Serviceable/Installable		Screw Thread	Male	None	CAP-WABMSMA1
			2 Points Lock	Male	None	CAP-WABMLMA1
			2 Points Lock	Female	None	CAP-WABFLMA1
			2 Points Lock	Female	None	CAP-WABFLMA1

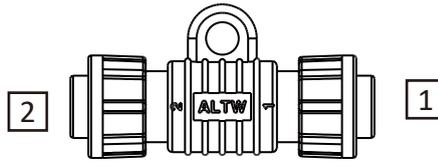
## T Adaptor



- 5 For Connector 1
  - 6 For Connector 2
  - 7 For Connector 3
- Connector Gender / Contact Gender  
 Male / Male (M)  
 Female / Female (F)  
 Male / Female (H)  
 Female / Male (B)

Size	Nominal Current	No. of Contacts <sup>2</sup>	Mating Style	
			Screw Thread (5/8"-27 UNS)	2 Points Lock
Standard Size	2A	10, 12	BA- <sup>2</sup> <sup>2</sup> <sup>2</sup> - <sup>5</sup> <sup>6</sup> <sup>7</sup> -TS001	BA- <sup>2</sup> <sup>2</sup> <sup>2</sup> - <sup>5</sup> <sup>6</sup> <sup>7</sup> -TL001
	5A	02, 03, 04, 05, 06, 07, 08		
	10A	02, 03, 04	AA-BB- <sup>3</sup> <sup>3</sup> <sup>3</sup> - <sup>5</sup> <sup>6</sup> <sup>7</sup> -TS001	AA-BB- <sup>3</sup> <sup>3</sup> <sup>3</sup> - <sup>5</sup> <sup>6</sup> <sup>7</sup> -TL001

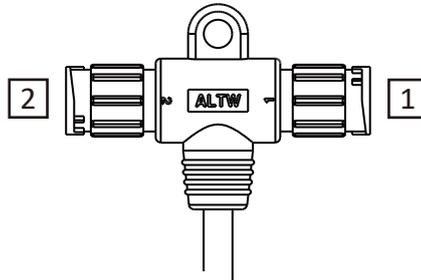
## I Adaptor



- 5 For Connector 1
  - 6 For Connector 2
- Connector Gender / Contact Gender  
 Male / Male (M)  
 Female / Female (F)  
 Male / Female (H)  
 Female / Male (B)

Size	Nominal Current	No. of Contacts 3	Mating Style	
			Screw Thread (5/8"-27 UNS)	2 Points Lock
Standard Size	2A	10, 12	BA-00 3 3-0 5 6 -IS001	BA-00 3 3-0 5 6 -IL001
	5A	02, 03, 04, 05, 06, 07, 08		
	10A	02, 03, 04	AA-BB-00 3 3-0 5 6 -IS001	AA-BB-00 3 3-0 5 6 -IL001

## T Cable

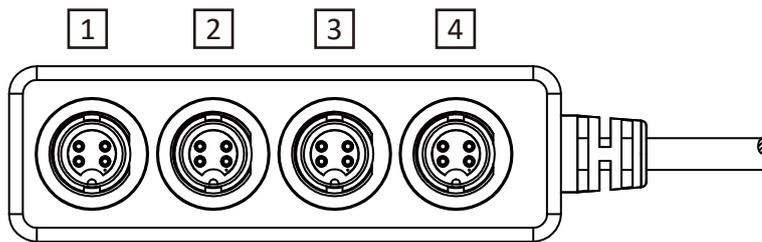


- 5 For Connector 1
  - 6 For Connector 2
- Connector Gender / Contact Gender  
 Male / Male (M)  
 Female / Female (F)  
 Male / Female (H)  
 Female / Male (B)

Size	Nominal Current	No. of Contacts 2	Mating Style	
			Screw Thread (5/8"-27 UNS)	2 Points Lock
Standard Size	2A	10, 12	BA-2 2 00-5 6 0-TSAXX	BA-2 2 00-5 6 0-TLAXX
	5A	02, 03, 04, 05, 06, 07, 08		
	10A	02, 03, 04	AA-BB-3 3 00-5 6 0-TSAXX	AA-BB-3 3 00-5 6 0-TLAXX

\* XX: Choose the cable length: (01) 1M ~ (99) 99M / PVC UL2464 Cable

## Distribution Box

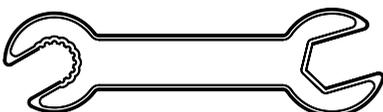


- 6 For Connector 1
  - 7 For Connector 2
  - 8 For Connector 3
  - 9 For Connector 4
- Connector Gender / Contact Gender  
 Male / Male (M)  
 Female / Female (F)  
 Male / Female (H)  
 Female / Male (B)

Size	Nominal Current	No. of Contacts 2	Mating Style	
			Screw Thread (5/8"-27 UNS)	2 Points Lock
Standard Size	2A	04, 05, 06	B-2 2 2 2-6 7 8 9-SAXX	B-2 2 2 2-6 7 8 9-LAXX
	5A	02, 03		
	10A	02, 03, 04	AA-BB-2 2 2 2-6 7 8 9-SAXX	AA-BB-2 2 2 2-6 7 8 9-LAXX

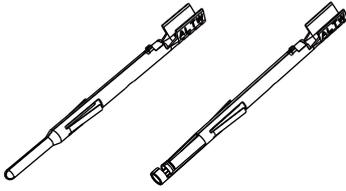
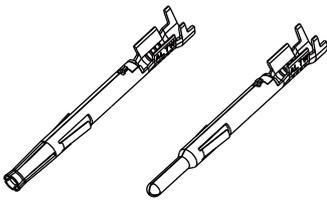
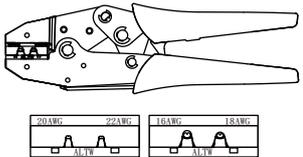
\* XX: Choose the cable length: (01) 1M ~ (99) 99M / PVC UL2464 Cable

## Wrench



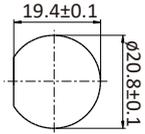
Part Number: TOL-171801

## Contacts & Crimp Tool

					
5A		10A/20A		Crimp Tool	
Nominal Current	Contact Gender	Part Number	Packing ⑥	Crimp Tool	
5A	Male	ASSP-05-M-A-C-⑥	<b>(SA)</b> 50pcs / Box <b>(SB)</b> 100pcs / Box <b>(RE)</b> 5A 3,000pcs / Reel 10A 3,000pcs / Reel 20A 2,000pcs / Reel	ASST-C-05-W-A (22 ~ 20AWG   0.34 ~ 0.50mm <sup>2</sup> )	
	Female	ASSP-05-F-A-C-⑥			
10A	Male	ASSP-10-M-A-C-⑥			ASST-C-10-W-B (18 ~ 16AWG   1.50 ~ 0.75mm <sup>2</sup> )
	Female	ASSP-10-F-A-C-⑥			

## Panel Cut Out

## Assemble Style



Circular Flange (D Cut)



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable

No of Contacts	2		3	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	20A		20A	
Plastic / Metal	Plastic		Plastic	
Pin Assignment	MM	MF	MM	MF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACC-02PMM5-LC7001	ACC-02PMF5-LC7001	ACC-03PMM5-LC7001	ACC-03PMF5-LC7001
	180° PCB Type	1CC-02PMP-LC7001	-	1CC-03PMP-LC7001	-

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACC-02RMM5-LC7001	-	ACC-03RMM5-LC7001	-

Receptacle With Cable, **STRAIGHT**, IP67 (Unmated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup> | Recommended Panel Thickness: (with cap) max. 2.0mm, (without cap) max. 3.0mm

	UL2464, PVC Jacket	-	-	-	-

**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACC-02BMMM-LL7A①*	-	ACC-03BMMM-LL7A①*	-

Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ACC-02BMMMA-LL7001*	ACC-02BMFA-LL7001*	ACC-03BMMMA-LL7001*	ACC-03BMFA-LL7001*
	Crimp Type	ACC-02BMMC-LL7①P0*	ACC-02BMFC-LL7①P0*	ACC-03BMMC-LL7①P0*	ACC-03BMFC-LL7①P0*
	Screw-In Type	ACC-02BMMB-LL7①P0*	ACC-02BMFB-LL7①P0*	ACC-03BMMB-LL7①P0*	ACC-03BMFB-LL7①P0*

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ACC02ML-ACCML-LA①*	-	AA-ACC03ML-ACCML-LA①*	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACC02ML-ACCFL-LA①*	-	AA-ACC03ML-ACCFL-LA①*	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ACC02HL-ACCFL-LA①*	-	AA-ACC03HL-ACCFL-LA①*
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ACC02HL-ACCBL-LA①*	-	AA-ACC03HL-ACCBL-LA①*

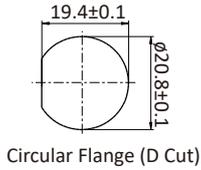
**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACC02ML-ACCFL-LA①*	-	AA-ACC03ML-ACCFL-LA①*	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ACC02HL-ACCBL-LA①*	-	AA-ACC03HL-ACCBL-LA①*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Panel Cut Out Assemble Style



No of Contacts	4			5	
Rated Voltage (AC/DC)	250 ~ 600V			250 ~ 600V	
Nominal Current	2A	10A		10A	
Plastic / Metal	Plastic			Plastic	
Pin Assignment	MM	MM	MF	MM	MF
<b>MM:</b> Male Connector Male Contact <b>FF:</b> Female Connector Female Contact <b>MF:</b> Male Connector Female Contact <b>FM:</b> Female Connector Male Contact					

### Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Unmated)

Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	-	ACB-04PMM S-LC7001	ACB-04PMFS-LC7001	ACB-05PMM S-LC7001	ACB-05PMFS-LC7001
	180° PCB Type	1CU-04PMM P-LC7001	1CB-04PMM P-LC7001	1CB-04PMFP-LC7001	1CB-05PMM P-LC7001	1CB-05PMFP-LC7001

### Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Unmated)

Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	-	ACB-04RMM S-LC7001	ACB-04RMFS-LC7001	ACB-05RMM S-LC7001	ACB-05RMFS-LC7001
	180° PCB Type	1CU-04RMM P-LC7001	1CB-04RMM P-LC7001	1CB-04RMFP-LC7001	1CB-05RMM P-LC7001	1CB-05RMFP-LC7001

### Receptacle With Cable, STRAIGHT, IP67 (Unmated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup> | Recommended Panel Thickness: (with cap) max. 2.0mm, (without cap) max. 3.0mm

	UL2464, PVC Jacket	-	ACB-04PMMM-LL7A <sup>①</sup>	ACB-04PMFM-LL7A <sup>①</sup>	ACB-05PMMM-LL7A <sup>①</sup>	ACB-05PMFM-LL7A <sup>①</sup>
	Solder Type	-	ACU-04PMMM-LL7A <sup>①</sup> *	ACU-04PMFM-LL7A <sup>①</sup> *	ACU-05PMMM-LL7A <sup>①</sup> *	ACU-05PMFM-LL7A <sup>①</sup> *

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACU-04BMMM-LL7A <sup>①</sup> *	ACB-04BMMM-LL7A <sup>①</sup> *	ACB-04BMFM-LL7A <sup>①</sup> *	ACB-05BMMM-LL7A <sup>①</sup> *	ACB-05BMFM-LL7A <sup>①</sup> *
	Solder Type	ACU-04BMM A-LL7001*	ACB-04BMM A-LL7001*	ACB-04BMF A-LL7001*	ACB-05BMM A-LL7001*	ACB-05BMF A-LL7001*

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ACU-04BMM A-LL7001*	ACB-04BMM A-LL7001*	ACB-04BMF A-LL7001*	ACB-05BMM A-LL7001*	ACB-05BMF A-LL7001*
	Crimp Type	ACU-04BMM C-LL7 <sup>①</sup> P0*	ACB-04BMM C-LL7 <sup>①</sup> P0*	ACB-04BMF C-LL7 <sup>①</sup> P0*	ACB-05BMM C-LL7 <sup>①</sup> P0*	ACB-05BMF C-LL7 <sup>①</sup> P0*

### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ACU04ML-ACUML-LA <sup>①</sup> *	AA-ACB04ML-ACBML-LA <sup>①</sup> *	-	AA-ACB05ML-ACBML-LA <sup>①</sup> *	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACU04ML-ACUFL-LA <sup>①</sup> *	AA-ACB04ML-ACBFL-LA <sup>①</sup> *	-	AA-ACB05ML-ACBFL-LA <sup>①</sup> *	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	-	AA-ACB04HL-ACBHL-LA <sup>①</sup> *	-	AA-ACB05HL-ACBHL-LA <sup>①</sup> *
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	-	AA-ACB04HL-ACBBL-LA <sup>①</sup> *	-	AA-ACB05HL-ACBBL-LA <sup>①</sup> *

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

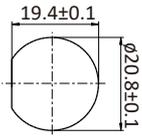
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACU04ML-ACUFR-LA <sup>①</sup> *	AA-ACB04ML-ACBFR-LA <sup>①</sup> *	-	AA-ACB05ML-ACBFR-LA <sup>①</sup> *	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	-	AA-ACB04HL-ACBB R-LA <sup>①</sup> *	-	AA-ACB05HL-ACBB R-LA <sup>①</sup> *

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

6		7		8			
250 ~ 600V		250 ~ 600V		250 ~ 600V			
10A		5A		5A		10A+2A	
Plastic		Plastic		Plastic			
MM	MF	MM	MF	MM	MF	MM	MF
ACB-06PMMS-LC7001	ACB-06PMFS-LC7001	ACD-07PMMS-LC7001	ACD-07PMFS-LC7001	ACD-08PMMS-LC7001	ACD-08PMFS-LC7001	ACBU-08PMMS-LC7001*	ACBU-08PMFS-LC7001*
1CB-06PMMP-LC7001	1CB-06PMFP-LC7001	1CD-07PMMP-LC7001	1CD-07PMFP-LC7001	1CD-08PMMP-LC7001	1CD-08PMFP-LC7001	1CBU-08PMMP-LC7001*	1CBU-08PMFP-LC7001*
ACB-06RMMS-LC7001	ACB-06RMFS-LC7001	ACD-07RMMS-LC7001	ACD-07RMFS-LC7001	ACD-08RMMS-LC7001	ACD-08RMFS-LC7001	-	-
ACB-06PMMM-LL7A⑪	ACB-06PMFM-LL7A⑪	ACD-07PMMM-LL7A⑪	ACD-07PMFM-LL7A⑪	ACD-08PMMM-LL7A⑪	ACD-08PMFM-LL7A⑪	-	-
ACB-06BMMM-LL7A⑪*	ACB-06BMFM-LL7A⑪*	ACD-07BMMM-LL7A⑪*	ACD-07BMFM-LL7A⑪	ACD-08BMMM-LL7A⑪*	ACD-08BMFM-LL7A⑪	ACBU-08BMMM-LL7A⑪*	ACBU-08BMFM-LL7A⑪*
ACB-06BMMA-LL7001*	ACB-06BMFA-LL7001*	ACD-07BMMA-LL7001	ACD-07BMFA-LL7001	ACD-08BMMA-LL7001	ACD-08BMFA-LL7001	ACBU-08BMMA-LL7001*	ACBU-08BMFA-LL7001*
ACB-06BMMC-LL7⑪PO*	ACB-06BMFC-LL7⑪PO*	ACD-07BMMC-LL7⑪PO*	ACD-07BMFC-LL7⑪PO	ACD-08BMMC-LL7⑪PO*	ACD-08BMFC-LL7⑪PO	ACBU-08BMMC-LL7⑪PO*	ACBU-08BMFC-LL7⑪PO*
AA-ACB06ML-ACBML-LA⑪*	-	AA-ACD07ML-ACDML-LA⑪	-	AA-ACD08ML-ACDML-LA⑪	-	AA-ACBU08ML-ACBUML-LA⑪*	-
AA-ACB06ML-ACBFL-LA⑪*	-	AA-ACD07ML-ACDFL-LA⑪	-	AA-ACD08ML-ACDFL-LA⑪	-	AA-ACBU08ML-ACBUFL-LA⑪*	-
-	AA-ACB06HL-ACBHL-LA⑪*	-	AA-ACD07HL-ACDHL-LA⑪	-	AA-ACD08HL-ACDHL-LA⑪	-	AA-ACBU08HL-ACBUHL-LA⑪*
-	AA-ACB06HL-ACBBL-LA⑪*	-	AA-ACD07HL-ACDBL-LA⑪	-	AA-ACD08HL-ACDBL-LA⑪	-	AA-ACBU08HL-ACBUBL-LA⑪*
AA-ACB06ML-ACBFR-LA⑪*	-	AA-ACD07ML-ACDFR-LA⑪	-	AA-ACD08ML-ACDFR-LA⑪	-	AA-ACB08ML-ACBFR-LA⑪*	-
-	AA-ACB06HL-ACBBL-LA⑪*	-	AA-ACD07HL-ACDBR-LA⑪*	-	AA-ACD08HL-ACDBR-LA⑪*	-	AA-ACBU08HL-ACBUBL-LA⑪*

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable

No of Contacts	8		9		10	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V		250 ~ 600V	
Nominal Current	10A+5A		5A		5A	
Plastic / Metal	Plastic		Plastic		Plastic	
Pin Assignment	MM	MF	MM	MF	MM	MF
<b>MM:</b> Male Connector Male Contact <b>FF:</b> Female Connector Female Contact <b>MF:</b> Male Connector Female Contact <b>FM:</b> Female Connector Male Contact						

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACBD-08PMM S-LC7001	ACBD-08PMF S-LC7001	ACD-09PMM S-LC7001	ACD-09PMF S-LC7001	ACD-10PMM S-LC7001	ACD-10PMF S-LC7001
	180° PCB Type	1CBD-08PMM P-LC7001	1CBD-08PMF P-LC7001	1CD-09PMM P-LC7001	1CD-09PMF P-LC7001	1CD-10PMM P-LC7001	1CD-10PMF P-LC7001

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	-	-	ACD-09RMM S-LC7001	ACD-09RMF S-LC7001	ACD-10RMM S-LC7001	ACD-10RMF S-LC7001

Receptacle With Cable, **STRAIGHT**, IP67 (Unmated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup> | Recommended Panel Thickness: (with cap) max. 2.0mm, (without cap) max. 3.0mm

	UL2464, PVC Jacket	-	-	ACD-09PMM M-LL7A ①	ACD-09PMF M-LL7A ①	ACD-10PMM M-LL7A ①	ACD-10PMF M-LL7A ①

**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACBD-08BMM M-LL7A ①*	ACBD-08BMF M-LL7A ①*	ACD-09BMM M-LL7A ①*	ACD-09BMF M-LL7A ①	ACD-10BMM M-LL7A ①*	ACD-10BMF M-LL7A ①

Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ACBD-08BMM A-LL7001*	ACBD-08BMF A-LL7001*	ACD-09BMM A-LL7001	ACD-09BMF A-LL7001	ACD-10BMM A-LL7001	ACD-10BMF A-LL7001
	Crimp Type	ACBD-08BMM C-LL7 ① P0*	ACBD-08BMF C-LL7 ① P0*	ACD-09BMM C-LL7 ① P0*	ACD-09BMF C-LL7 ① P0	ACD-10BMM C-LL7 ① P0*	ACD-10BMF C-LL7 ① P0

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ACBD08ML-ACBDML-LA ①*	-	AA-ACD09ML-ACDML-LA ①	-	AA-ACD10ML-ACDML-LA ①	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACBD08ML-ACBDFL-LA ①*	-	AA-ACD09ML-ACDFL-LA ①	-	AA-ACD10ML-ACDFL-LA ①	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ACBD08HL-ACBDHL-LA ①*	-	AA-ACD09HL-ACDHL-LA ①	-	AA-ACD10HL-ACDHL-LA ①
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ACBD08HL-ACBDBL-LA ①*	-	AA-ACD09HL-ACDBL-LA ①	-	AA-ACD10HL-ACDBL-LA ①

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACBD08ML-ACBDFR-LA ①*	-	AA-ACD09ML-ACDFR-LA ①	-	AA-ACD10ML-ACDFR-LA ①	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ACBD08HL-ACBDBR-LA ①*	-	AA-ACD09HL-ACDBR-LA ①*	-	AA-ACD10HL-ACDBR-LA ①*

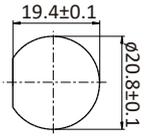
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

12				14			
250 ~ 600V				250 ~ 600V			
5A		5A+2A		5A		5A+2A	
Plastic				Plastic			
MM	MF	MM	MF	MM	MF	MM	MF
ACD-12PMMS-LC7001	ACD-12PMFS-LC7001	ACDU-12PMMS-LC7001	ACDU-12PMFS-LC7001	ACD-14PMMS-LC7001	ACD-14PMFS-LC7001	ACDU-14PMMS-LC7001	ACDU-14PMFS-LC7001
1CD-12PMMP-LC7001	1CD-12PMFP-LC7001	1CDU-12PMMP-LC7001	1CDU-12PMFP-LC7001	1CD-14PMMP-LC7001	1CD-14PMFP-LC7001	1CDU-14PMMP-LC7001	1CDU-14PMFP-LC7001
ACD-12RMMS-LC7001	ACD-12RMFS-LC7001	-	-	ACD-14RMMS-LC7001	ACD-14RMFS-LC7001	-	-
ACD-12PMMM-LL7A⑪	ACD-12PMFM-LL7A⑪	-	-	ACD-14PMMM-LL7A⑪	ACD-14PMFM-LL7A⑪	-	-
ACD-12BMMM-LL7A⑪*	ACD-12BMFM-LL7A⑪	ACDU-12BMMM-LL7A⑪*	ACDU-12BMFM-LL7A⑪*	ACD-14BMMM-LL7A⑪*	ACD-14BMFM-LL7A⑪	ACDU-14BMMM-LL7A⑪*	ACDU-14BMFM-LL7A⑪*
ACD-12BMMA-LL7001	ACD-12BMFA-LL7001	ACDU-12BMMA-LL7001*	ACDU-12BMFA-LL7001*	ACD-14BMMA-LL7001	ACD-14BMFA-LL7001	ACDU-14BMMA-LL7001*	ACDU-14BMFA-LL7001*
ACD-12BMMC-LL7⑪P0*	ACD-12BMFC-LL7⑪P0	ACDU-12BM MC-LL7⑪P0*	ACDU-12BMFC-LL7⑪P0*	ACD-14BM MC-LL7⑪P0*	ACD-14BMFC-LL7⑪P0	ACDU-14BM MC-LL7⑪P0*	ACDU-14BMFC-LL7⑪P0*

AA-ACD12ML-ACDML-LA⑪	-	AA-ACDU12ML-ACDUML-LA⑪*	-	AA-ACD14ML-ACDML-LA⑪	-	AA-ACDU14ML-ACDUML-LA⑪*	-
AA-ACD12ML-ACDFL-LA⑪	-	AA-ACDU12ML-ACDUFL-LA⑪*	-	AA-ACD14ML-ACDFL-LA⑪	-	AA-ACDU14ML-ACDUFL-LA⑪*	-
-	AA-ACD12HL-ACDHL-LA⑪	-	AA-ACDU12HL-ACDUHL-LA⑪*	-	AA-ACD14HL-ACDHL-LA⑪	-	AA-ACDU14HL-ACDUHL-LA⑪*
-	AA-ACD12HL-ACDBL-LA⑪	-	AA-ACDU12HL-ACDUBL-LA⑪*	-	AA-ACD14HL-ACDBL-LA⑪	-	AA-ACDU14HL-ACDUBL-LA⑪*
AA-ACD12ML-ACDFR-LA⑪	-	AA-ACDU12ML-ACDUFR-LA⑪*	-	AA-ACD14ML-ACDFR-LA⑪	-	AA-ACDU14ML-ACDUFR-LA⑪*	-
-	AA-ACD12HL-ACDBR-LA⑪*	-	AA-ACDU12HL-ACDUBR-LA⑪*	-	AA-ACD14HL-ACDBR-LA⑪*	-	AA-ACDU14HL-ACDUBR-LA⑪*

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	2		3	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	20A		20A	
Plastic / Metal	Plastic		Plastic	
Pin Assignment	FF	FM	FF	FM
FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact				

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACC-02BFFM-LL7A 11	ACC-02BFMM-LL7A 11	ACC-03BFFM-LL7A 11	ACC-03BFMM-LL7A 11
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACC-02BFFM-LR7A 11*	ACC-02BFMM-LR7A 11*	ACC-03BFFM-LR7A 11*	ACC-03BFMM-LR7A 11*
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACC02FL-ACCFL-LA 11	-	AA-ACC03FL-ACCFL-LA 11	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACC02BL-ACCBL-LA 11	-	AA-ACC03BL-ACCBL-LA 11

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACC02FR-ACCFR-LA 11*	-	AA-ACC03FR-ACCFR-LA 11*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACC02BR-ACCBR-LA 11*	-	AA-ACC03BR-ACCBR-LA 11*

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACC02FL-ACCFR-LA 11*	-	AA-ACC03FL-ACCFR-LA 11*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACC02BL-ACCBR-LA 11*	-	AA-ACC03BL-ACCBR-LA 11*

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | 11 Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

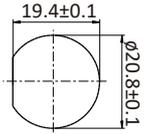
	Solder Type	ACC-02BFFA-LL7001	ACC-02BFMA-LL7001*	ACC-03BFFA-LL7001	ACC-03BFMA-LL7001*
	<b>NEW</b> Crimp Type	ACC-02BFFC-LL7 11 P0	ACC-02BMFC-LL7 11 P0	ACC-03BFFC-LL7 11 P0	ACC-03BMFC-LL7 11 P0
	Screw-In Type	ACC-02BFFB-LL7 11 P0*	ACC-02BMFB-LL7 11 P0*	ACC-03BFFB-LL7 11 P0*	ACC-03BMFB-LL7 11 P0*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

4			5		6		7	
250 ~ 600V			250 ~ 600V		250 ~ 600V		250 ~ 600V	
2A	10A		10A		10A		5A	
Plastic			Plastic		Plastic		Plastic	
FF	FF	FM	FF	FM	FF	FM	FF	FM
ACU-04BFFM-LL7A11	ACB-04BFFM-LL7A11	ACB-04BFMM-LL7A11	ACB-05BFFM-LL7A11	ACB-05BFMM-LL7A11	ACB-06BFFM-LL7A11	ACB-06BFMM-LL7A11	ACD-07BFFM-LL7A11	ACD-07BFMM-LL7A11
ACU-04BFFM-LR7A11*	ACB-04BFFM-LR7A11*	ACB-04BFMM-LR7A11*	ACB-05BFFM-LR7A11*	ACB-05BFMM-LR7A11*	ACB-06BFFM-LR7A11*	ACB-06BFMM-LR7A11*	ACD-07BFFM-LR7A11	ACD-07BFMM-LR7A11*
AA-ACU04FL-ACUFL-LA11	AA-ACB04FL-ACBFL-LA11	-	AA-ACB05FL-ACBFL-LA11	-	AA-ACB06FL-ACBFL-LA11	-	AA-ACD07FL-ACDFL-LA11	-
-	-	AA-ACB04BL-ACBBL-LA11	-	AA-ACB05BL-ACBBL-LA11	-	AA-ACB06BL-ACBBL-LA11	-	AA-ACD07BL-ACDBL-LA11
AA-ACU04FR-ACUFR-LA11*	AA-ACB04FR-ACBFR-LA11*	-	AA-ACB05FR-ACBFR-LA11*	-	AA-ACB06FR-ACBFR-LA11*	-	AA-ACD07FR-ACDFR-LA11	-
-	-	AA-ACB04BR-ACBBL-LA11*	-	AA-ACB05BR-ACBBL-LA11*	-	AA-ACB06BR-ACBBL-LA11*	-	AA-ACD07BL-ACDBL-LA11
AA-ACU04FL-ACUFR-LA11*	AA-ACB04FL-ACBFR-LA11*	-	AA-ACB05FL-ACBFR-LA11*	-	AA-ACB06FL-ACBFR-LA11*	-	AA-ACD07FL-ACDFR-LA11	-
-	-	AA-ACB04BL-ACBBL-LA11*	-	AA-ACB05BL-ACBBL-LA11*	-	AA-ACB06BL-ACBBL-LA11*	-	AA-ACD07BL-ACDBL-LA11*
ACU-04BFFA-LL7001	ACB-04BFFA-LL7001	ACB-04BFMA-LL7001	ACB-05BFFA-LL7001	ACB-05BFMA-LL7001	ACB-06BFFA-LL7001	ACB-06BFMA-LL7001	ACD-07BFFA-LL7001	ACD-07BFMA-LL7001
ACU-04BFFC-LL711P0*	ACB-04BFFC-LL711P0	ACB-04BFMC-LL711P0	ACB-05BFFC-LL711P0	ACB-05BFMC-LL711P0	ACB-06BFFC-LL711P0	ACB-06BFMC-LL711P0	ACD-07BFFC-LL711P0*	ACD-07BFMC-LL711P0
-	-	-	-	-	-	-	-	-

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder

(A) Field Serviceable/Installable



Crimp

(C) Field Serviceable/Installable

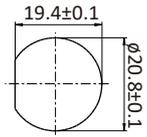
No of Contacts	8				
Rated Voltage (AC/DC)	250 ~ 600V				
Nominal Current	5A		10A+2A		
Plastic / Metal	Plastic				
Pin Assignment	FF	FM	FF	FM	
FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact					
STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ACD-08BFFM-LL7A ⑪	ACD-08BFMM-LL7A ⑪	ACBU-08BFFM-LL7A ⑪	ACBU-08BFMM-LL7A ⑪*
RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ACD-08BFFM-LR7A ⑪	ACD-08BFMM-LR7A ⑪*	ACBU-08BFFM-LR7A ⑪*	ACBU-08BFMM-LR7A ⑪*
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACD08FL-ACDFL-LA ⑪	-	AA-ACBU08FL-ACBUFL-LA ⑪*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACD08BL-ACDBL-LA ⑪	-	AA-ACBU08BL-ACBUBL-LA ⑪
RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACD08FR-ACDFR-LA ⑪	-	AA-ACBU08FR-ACBDFR-LA ⑪*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACD08BL-ACDBL-LA ⑪	-	AA-ACBU08BR-ACBUBR-LA ⑪*
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACD08FL-ACDFR-LA ⑪	-	AA-ACBU08FL-ACBUFR-LA ⑪*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACD08BL-ACDBR-LA ⑪*	-	AA-ACBU08BL-ACBUBR-LA ⑪*
Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)					
Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ⑪ Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm					
	Solder Type	ACD-08BFFA-LL7001	ACD-08BFMA-LL7001	ACBU-08BFFA-LL7001*	ACBU-08BFMA-LL7001*
	Crimp Type	ACD-08BFFC-LL7 ⑪ P0*	ACD-08BFMC-LL7 ⑪ P0	ACBU-08BFFC-LL7 ⑪ P0*	ACBU-08BFMC-LL7 ⑪ P0*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

8		9		10		12	
250 ~ 600V		250 ~ 600V		250 ~ 600V		250 ~ 600V	
10A+5A		5A		5A		5A	
Plastic		Plastic		Plastic		Plastic	
FF	FM	FF	FM	FF	FM	FF	FM
ACBD-08BFFM-LL7A <b>11</b>	ACBD-08BFMM-LL7A <b>11</b>	ACD-09BFFM-LL7A <b>11</b>	ACD-09BFMM-LL7A <b>11</b>	ACD-10BFFM-LL7A <b>11</b>	ACD-10BFMM-LL7A <b>11</b>	ACD-12BFFM-LL7A <b>11</b>	ACD-12BFMM-LL7A <b>11</b>
ACBD-08BFFM-LL7A <b>11</b> *	ACBD-08BFMM-LL7A <b>11</b> *	ACD-09BFFM-LL7A <b>11</b>	ACD-09BFMM-LL7A <b>11</b> *	ACD-10BFFM-LL7A <b>11</b>	ACD-10BFMM-LL7A <b>11</b> *	ACD-12BFFM-LL7A <b>11</b>	ACD-12BFMM-LL7A <b>11</b> *
AA-ACBD08FL-ACBDFL-LA <b>11</b>	-	AA-ACD09FL-ACDFL-LA <b>11</b>	-	AA-ACD10FL-ACDFL-LA <b>11</b>	-	AA-ACD12FL-ACDFL-LA <b>11</b>	-
-	AA-ACBD08BL-ACBDBL-LA <b>11</b>	-	AA-ACD09BL-ACDBL-LA <b>11</b>	-	AA-ACD10BL-ACDBL-LA <b>11</b>	-	AA-ACD12BL-ACDBL-LA <b>11</b>
AA-ACBD08FR-ACBDFR-LA <b>11</b> *	-	AA-ACD09FR-ACDFR-LA <b>11</b>	-	AA-ACD10FR-ACDFR-LA <b>11</b>	-	AA-ACD12FR-ACDFR-LA <b>11</b>	-
-	AA-ACBD08BR-ACBD BR-LA <b>11</b> *	-	AA-ACD09BL-ACDBL-LA <b>11</b>	-	AA-ACD10BL-ACDBL-LA <b>11</b>	-	AA-ACD12BL-ACDBL-LA <b>11</b>
AA-ACBD08FL-ACBDFR-LA <b>11</b> *	-	AA-ACD09FL-ACDFR-LA <b>11</b>	-	AA-ACD10FL-ACDFR-LA <b>11</b>	-	AA-ACD12FL-ACDFR-LA <b>11</b>	-
-	AA-ACBD08BL-ACBDBR-LA <b>11</b> *	-	AA-ACD09BL-ACDBR-LA <b>11</b> *	-	AA-ACD10BL-ACDBR-LA <b>11</b> *	-	AA-ACD12BL-ACDBR-LA <b>11</b> *
ACBD-08BFFA-LL7001	ACBD-08BFMA-LL7001	ACD-09BFFA-LL7001	ACD-09BFMA-LL7001	ACD-10BFFA-LL7001	ACD-10BFMA-LL7001	ACD-12BFFA-LL7001	ACD-12BFMA-LL7001
ACBD-08BFFC-LL7 <b>11</b> P0*	ACBD-08BFMC-LL7 <b>11</b> P0*	ACD-09BFFC-LL7 <b>11</b> P0*	ACD-09BFMC-LL7 <b>11</b> P0	ACD-10BFFC-LL7 <b>11</b> P0*	ACD-10BFMC-LL7 <b>11</b> P0	ACD-12BFFC-LL7 <b>11</b> P0*	ACD-12BFMC-LL7 <b>11</b> P0

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

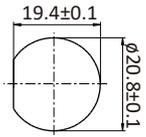
No of Contacts	12		14			
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V			
Nominal Current	5A+2A		5A		5A+2A	
Plastic / Metal	Plastic		Plastic			
Pin Assignment	FF	FM	FF	FM	FF	FM
FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact						
<b>STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)</b>						
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>						
	UL2464, PVC Jacket	ACDU-12BFFM-LL7A①	ACDU-12BFMM-LL7A①	ACD-14BFFM-LL7A①	ACD-14BFMM-LL7A①	ACDU-14BFFM-LL7A①
<b>RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)</b>						
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>						
	UL2464, PVC Jacket	ACDU-12BFFM-LR7A①*	ACDU-12BFMM-LR7A①*	ACD-14BFFM-LR7A①	ACD-14BFMM-LR7A①*	ACDU-14BFFM-LR7A①*
<b>STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>						
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM						
	End1: Female Conn Female Contact	AA-ACDU12FL-ACDUFL-LA①	-	AA-ACD14FL-ACDFL-LA①	-	AA-ACDU14FL-ACDUFL-LA①
	End2: Female Conn Female Contact	-	AA-ACDU12BL-ACDUFL-LA①	-	AA-ACD14BL-ACDFL-LA①	-
	End1: Female Conn Male Contact	-	AA-ACDU12BL-ACDUFL-LA①	-	AA-ACD14BL-ACDFL-LA①	-
	End2: Female Conn Male Contact	-	-	-	-	AA-ACDU14BL-ACDUFL-LA①
<b>RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>						
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM						
	End1: Female Conn Female Contact	AA-ACDU12FR-ACDUFR-LA①*	-	AA-ACD14FR-ACDFR-LA①	-	AA-ACDU14FR-ACDUFR-LA①*
	End2: Female Conn Female Contact	-	AA-ACDU12BR-ACDUFR-LA①*	-	AA-ACD14BR-ACDFR-LA①	-
	End1: Female Conn Male Contact	-	AA-ACDU12BR-ACDUFR-LA①*	-	AA-ACD14BR-ACDFR-LA①	-
	End2: Female Conn Male Contact	-	-	-	-	AA-ACDU14BR-ACDUFR-LA①*
<b>STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>						
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM						
	End1: Female Conn Female Contact	AA-ACDU12FL-ACDUFR-LA①*	-	AA-ACD14FL-ACDFR-LA①	-	AA-ACDU14FL-ACDUFR-LA①*
	End2: Female Conn Female Contact	-	AA-ACDU12BL-ACDUFR-LA①*	-	AA-ACD14BL-ACDFR-LA①	-
	End1: Female Conn Male Contact	-	AA-ACDU12BL-ACDUFR-LA①*	-	AA-ACD14BL-ACDFR-LA①	-
	End2: Female Conn Male Contact	-	-	-	-	AA-ACDU14BL-ACDUFR-LA①*
<b>Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)</b>						
Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm						
	Solder Type	ACDU-12BFFA-LL7001	ACDU-12BFMA-LL7001	ACD-14BFFA-LL7001	ACD-14BFMA-LL7001	ACDU-14BFFA-LL7001
	Crimp Type	ACDU-12BFFC-LL7①P0*	ACDU-12BMFC-LL7①P0*	ACD-14BFFC-LL7①P0*	ACD-14BFMC-LL7①P0	ACDU-14BFFC-LL7①P0*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Panel Cut Out

## Assemble Style



Circular Flange (D Cut)



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable

No of Contacts	2	3	4		
Rated Voltage (AC/DC)	250 ~ 600V	250 ~ 600V	250 ~ 600V		
Nominal Current	20A	20A	2A	10A	
Plastic / Metal	Plastic	Plastic	Plastic		
Pin Assignment	MM	MM	MM	MM	MF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact					

### Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Unmated)

Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACC-02PMM5-SC7001	ACC-03PMM5-SC7001	1CU-04PMP-SC7001	ACB-04PMM5-SC7001	ACB-04PMF5-SC7001
	180° PCB Type	1CC-02PMP-SC7001	1CC-03PMP-SC7001	-	1CB-04PMP-SC7001	1CB-04PMFP-SC7001

### Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Unmated)

Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACC-02RMM5-SC7001	ACC-03RMM5-SC7001	-	ACB-04RMM5-SC7001	ACB-04RMF5-SC7001

### Receptacle With Cable, STRAIGHT, IP67 (Unmated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup> | Recommended Panel Thickness: (with cap) max. 2.0mm, (without cap) max. 3.0mm

	UL2464, PVC Jacket	-	-	-	ACB-04PMMM-SL7A <sup>①</sup>	ACB-04PMFM-SL7A <sup>①</sup>

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACC-02BMMM-SL7A <sup>①</sup> *	ACC-03BMMM-SL7A <sup>①</sup> *	ACU-04BMMM-SL7A <sup>①</sup> *	ACB-04BMMM-SL7A <sup>①</sup> *	ACB-04BMFM-SL7A <sup>①</sup> *

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ACC-02BMMMA-SL7001*	ACC-03BMMMA-SL7001*	ACU-04BMMMA-SL7001*	ACB-04BMMMA-SL7001*	ACB-04BMFA-SL7001*
	Crimp Type	ACC-02BMMC-SL7 <sup>①</sup> P0*	ACC-03BMMC-SL7 <sup>①</sup> P0*	ACU-04BMMC-SL7 <sup>①</sup> P0*	ACB-04BMMC-SL7 <sup>①</sup> P0*	ACB-04BMFC-SL7 <sup>①</sup> P0*
	Screw-In Type	ACC-02BMMB-SL7 <sup>①</sup> P0*	ACC-03BMMB-SL7 <sup>①</sup> P0*	-	-	-

### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

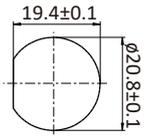
	End1: Male Conn Male Contact	AA-ACC02ML-ACCML-SA <sup>①</sup> *	AA-ACC03ML-ACCML-SA <sup>①</sup> *	AA-ACU04ML-ACUML-SA <sup>①</sup> *	AA-ACB04ML-ACBML-SA <sup>①</sup> *	-
	End2: Male Conn Male Contact					
	End1: Male Conn Male Contact	AA-ACC02ML-ACCFL-SA <sup>①</sup> *	AA-ACC03ML-ACCFL-SA <sup>①</sup> *	AA-ACU04ML-ACUFL-SA <sup>①</sup> *	AA-ACB04ML-ACBFL-SA <sup>①</sup> *	-
	End2: Female Conn Female Contact					
	End1: Male Conn Female Contact	-	-	-	-	AA-ACB04HL-ACBHL-SA <sup>①</sup> *
	End2: Male Conn Female Contact					
	End1: Male Conn Female Contact	-	-	-	-	AA-ACB04HL-ACBBL-SA <sup>①</sup> *
	End2: Female Conn Male Contact					

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact	AA-ACC02ML-ACCFR-SA <sup>①</sup> *	AA-ACC03ML-ACCFR-SA <sup>①</sup> *	AA-ACU04ML-ACUFR-SA <sup>①</sup> *	AA-ACB04ML-ACBFR-SA <sup>①</sup> *	-
	End2: Female Conn Female Contact					
	End1: Male Conn Female Contact	-	-	-	-	AA-ACB04HL-ACBBL-SA <sup>①</sup> *
	End2: Female Conn Male Contact					

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable

No of Contacts	5		6	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	10A		10A	
Plastic / Metal	Plastic		Plastic	
Pin Assignment	MM	MF	MM	MF
<b>MM</b> : Male Connector Male Contact <b>FF</b> : Female Connector Female Contact <b>MF</b> : Male Connector Female Contact <b>FM</b> : Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
 Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACB-05PMMS-SC7001	ACB-05PMFS-SC7001	ACB-06PMMS-SC7001	ACB-06PMFS-SC7001
	180° PCB Type	1CB-05PMMP-SC7001	1CB-05PMFP-SC7001	1CB-06PMMP-SC7001	1CB-06PMFP-SC7001

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
 Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACB-05RMMS-SC7001	ACB-05RMFS-SC7001	ACB-06RMMS-SC7001	ACB-06RMFS-SC7001
	180° PCB Type	1CB-05RMP-SC7001	1CB-05RMFP-SC7001	1CB-06RMP-SC7001	1CB-06RMFP-SC7001

Receptacle With Cable, **STRAIGHT**, IP67 (Unmated)  
 ① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup> | Recommended Panel Thickness: (with cap) max. 2.0mm, (without cap) max. 3.0mm

	UL2464, PVC Jacket	ACB-05PMMM-SL7A ①	ACB-05PMFM-SL7A ①	ACB-06PMMM-SL7A ①	ACB-06PMFM-SL7A ①
	180° PCB Type	1CB-05PMP-SL7A ①	1CB-05PMFP-SL7A ①	1CB-06PMP-SL7A ①	1CB-06PMFP-SL7A ①

**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
 ① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACB-05BMMM-SL7A ①*	ACB-05BMFM-SL7A ①*	ACB-06BMMM-SL7A ①*	ACB-06BMFM-SL7A ①*
	180° PCB Type	1CB-05BMP-SL7A ①*	1CB-05BMFP-SL7A ①*	1CB-06BMP-SL7A ①*	1CB-06BMFP-SL7A ①*

Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
 Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ACB-05BMMMA-SL7001*	ACB-05BMFA-SL7001*	ACB-06BMMMA-SL7001*	ACB-06BMFA-SL7001*
	Crimp Type	ACB-05BMMMC-SL7 ①PO*	ACB-05BMFC-SL7 ①PO*	ACB-06BMMMC-SL7 ①PO*	ACB-06BMFC-SL7 ①PO*

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
 ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ACB05ML-ACBML-SA ①*	-	AA-ACB06ML-ACBML-SA ①*	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACB05ML-ACBFL-SA ①*	-	AA-ACB06ML-ACBFL-SA ①*	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ACB05HL-ACBHL-SA ①*	-	AA-ACB06HL-ACBHL-SA ①*
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ACB05HL-ACBBL-SA ①*	-	AA-ACB06HL-ACBBL-SA ①*
	End1: Female Conn Male Contact End2: Male Conn Male Contact	-	AA-ACB05FL-ACBML-SA ①*	-	AA-ACB06FL-ACBML-SA ①*

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
 ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ACB05ML-ACBFR-SA ①*	-	AA-ACB06ML-ACBFR-SA ①*	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ACB05HL-ACBBR-SA ①*	-	AA-ACB06HL-ACBBR-SA ①*

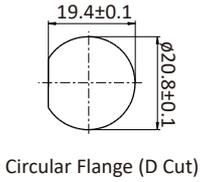
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

7		8						9	
250 ~ 600V		250 ~ 600V						250 ~ 600V	
5A		5A		10A+2A		10A+5A		5A	
Plastic		Plastic						Plastic	
MM	MF	MM	MF	MM	MF	MM	MF	MM	MF
ACD-07PMMS-SC7001	ACD-07PMFS-SC7001	ACD-08PMMS-SC7001	ACD-08PMFS-SC7001	ACBU-08PMMS-SC7001*	ACBU-08PMFS-SC7001*	ACBD-08PMMS-SC7001*	ACBD-08PMFS-SC7001	ACD-09PMMS-SC7001	ACD-09PMFS-SC7001
1CD-07PMMP-SC7001	1CD-07PMFP-SC7001	1CD-08PMMP-SC7001	1CD-08PMFP-SC7001	1CBU-08PMMP-SC7001*	1CBU-08PMFP-SC7001*	1CBD-08PMMP-SC7001*	1CBD-08PMFP-SC7001	1CD-09PMMP-SC7001	1CD-09PMFP-SC7001
ACD-07RMMMS-SC7001	ACD-07RMFS-SC7001	ACD-08RMMMS-SC7001	ACD-08RMFS-SC7001	-	-	-	-	ACD-09RMMMS-SC7001	ACD-09RMFS-SC7001
ACD-07PMMM-SL7A <sup>11</sup>	ACD-07PMFM-SL7A <sup>11</sup>	ACD-08PMMM-SL7A <sup>11</sup>	ACD-08PMFM-SL7A <sup>11</sup>	-	-	-	-	ACD-09PMMM-SL7A <sup>11</sup>	ACD-09PMFM-SL7A <sup>11</sup>
ACD-07BMMM-SL7A <sup>11</sup> *	ACD-07BMFM-SL7A <sup>11</sup> *	ACD-08BMMM-SL7A <sup>11</sup> *	ACD-08BMFM-SL7A <sup>11</sup> *	ACBU-08BMMM-SL7A <sup>11</sup> *	ACBU-08BMFM-SL7A <sup>11</sup> *	ACBD-08BMMM-SL7A <sup>11</sup> *	ACBD-08BMFM-SL7A <sup>11</sup> *	ACD-09BMMM-SL7A <sup>11</sup> *	ACD-09BMFM-SL7A <sup>11</sup> *
ACD-07BMMA-SL7001*	ACD-07BMFA-SL7001*	ACD-07BMMA-SL7001*	ACD-07BMFA-SL7001*	ACBU-08BMMA-SL7001*	ACBU-08BMFA-SL7001*	ACBD-08BMMA-SL7001*	ACBD-08BMFA-SL7001*	ACD-09BMMA-SL7001*	ACD-09BMFA-SL7001*
ACD-07BMMC-SL7 <sup>11</sup> P0*	ACD-07BMFC-SL7 <sup>11</sup> P0*	ACD-07BMMC-SL7 <sup>11</sup> P0*	ACD-07BMFC-SL7 <sup>11</sup> P0*	ACBU-08BMMC-SL7 <sup>11</sup> P0*	ACBD-08BMFC-SL7 <sup>11</sup> P0*	ACBD-08BMMC-SL7 <sup>11</sup> P0*	ACBD-08BMFC-SL7 <sup>11</sup> P0*	ACD-09BMMC-SL7 <sup>11</sup> P0*	ACD-09BMFC-SL7 <sup>11</sup> P0*

AA-ACD07ML-ACDML-SA <sup>11</sup> *	-	AA-ACD08ML-ACDML-SA <sup>11</sup> *	-	AA-ACBU08ML-ACBUML-SA <sup>11</sup> *	-	AA-ACDU08ML-ACDUML-SA <sup>11</sup> *	-	AA-ACD09ML-ACDML-SA <sup>11</sup> *	-
AA-ACD07ML-ACDFL-SA <sup>11</sup> *	-	AA-ACD08ML-ACDFL-SA <sup>11</sup> *	-	AA-ACBU08ML-ACBUFL-SA <sup>11</sup> *	-	AA-ACDU08ML-ACDUFL-SA <sup>11</sup> *	-	AA-ACD09ML-ACDFL-SA <sup>11</sup> *	-
-	AA-ACD07HL-ACDHL-SA <sup>11</sup> *	-	AA-ACD08HL-ACDHL-SA <sup>11</sup> *	-	AA-ACBU08HL-ACBUHL-SA <sup>11</sup> *	-	AA-ACBD08HL-ACBDHL-SA <sup>11</sup> *	-	AA-ACD09HL-ACDHL-SA <sup>11</sup> *
-	AA-ACD07HL-ACDBL-SA <sup>11</sup> *	-	AA-ACD08HL-ACDBL-SA <sup>11</sup> *	-	AA-ACBU08HL-ACBUBL-SA <sup>11</sup> *	-	AA-ACBD08HL-ACBDBL-SA <sup>11</sup> *	-	AA-ACD09HL-ACDBL-SA <sup>11</sup> *
AA-ACD07ML-ACDFR-SA <sup>11</sup> *	-	AA-ACD08ML-ACDFR-SA <sup>11</sup> *	-	AA-ACBU08ML-ACBUFR-SA <sup>11</sup> *	-	AA-ACBD08ML-ACBDFR-SA <sup>11</sup> *	-	AA-ACD09ML-ACDFR-SA <sup>11</sup> *	-
-	AA-ACD07HL-ACDBR-SA <sup>11</sup> *	-	AA-ACD08HL-ACDBR-SA <sup>11</sup> *	-	AA-ACBU08HL-ACBUBR-SA <sup>11</sup> *	-	AA-ACBD08HL-ACBDBR-SA <sup>11</sup> *	-	AA-ACD09HL-ACDBR-SA <sup>11</sup> *

## Panel Cut Out Assemble Style



No of Contacts	10		12	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	5A		5A	
Plastic / Metal	Plastic		Plastic	
Pin Assignment	MM	MF	MM	MF
<b>MM</b> : Male Connector Male Contact <b>FF</b> : Female Connector Female Contact <b>MF</b> : Male Connector Female Contact <b>FM</b> : Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
 Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACD-10 <b>MM</b> S-SC7001	ACD-10 <b>PMFS</b> -SC7001	ACD-12 <b>PMMS</b> -SC7001	ACD-12 <b>PMFS</b> -SC7001
	180° PCB Type	1CD-10 <b>PMMP</b> -SC7001	1CD-10 <b>PMFP</b> -SC7001	1CD-12 <b>PMMP</b> -SC7001	1CD-12 <b>PMFP</b> -SC7001

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
 Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: (with cap) max. 2.8mm, (without cap) max. 4.0mm

	Solder Type	ACD-10 <b>RMMS</b> -SC7001	ACD-10 <b>RMFS</b> -SC7001	ACD-12 <b>RMMS</b> -SC7001	ACD-12 <b>RMFS</b> -SC7001
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Receptacle With Cable, **STRAIGHT**, IP67 (Unmated)  
 ① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup> | Recommended Panel Thickness: (with cap) max. 2.0mm, (without cap) max. 3.0mm

	UL2464, PVC Jacket	ACD-10 <b>PM</b> MM-SL7A <sup>①</sup>	ACD-10 <b>PM</b> FM-SL7A <sup>①</sup>	ACD-12 <b>PM</b> MM-SL7A <sup>①</sup>	ACD-12 <b>PM</b> FM-SL7A <sup>①</sup>
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**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
 ① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACD-10 <b>B</b> MM-SL7A <sup>①*</sup>	ACD-10 <b>B</b> FM-SL7A <sup>①*</sup>	ACD-12 <b>B</b> MM-SL7A <sup>①*</sup>	ACD-12 <b>B</b> FM-SL7A <sup>①*</sup>
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
 Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ACD-10 <b>B</b> MM-A-SL7001*	ACD-10 <b>B</b> FM-A-SL7001*	ACD-12 <b>B</b> MM-A-SL7001*	ACD-12 <b>B</b> FM-A-SL7001*
	Crimp Type	ACD-10 <b>B</b> MM-C-SL7 <sup>①</sup> PO*	ACD-10 <b>B</b> FM-C-SL7 <sup>①</sup> PO*	ACD-12 <b>B</b> MM-C-SL7 <sup>①</sup> PO*	ACD-12 <b>B</b> FM-C-SL7 <sup>①</sup> PO*

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
 ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact	AA-ACD10 <b>ML</b> -ACDML-SA <sup>①*</sup>	-	AA-ACD12 <b>ML</b> -ACDML-SA <sup>①*</sup>	-
	End2: Male Conn Male Contact	AA-ACD10 <b>ML</b> -ACDML-SA <sup>①*</sup>	-	AA-ACD12 <b>ML</b> -ACDML-SA <sup>①*</sup>	-
	End1: Male Conn Male Contact	AA-ACD10 <b>ML</b> -ACDFL-SA <sup>①*</sup>	-	AA-ACD12 <b>ML</b> -ACDFL-SA <sup>①*</sup>	-
	End2: Female Conn Female Contact	AA-ACD10 <b>ML</b> -ACDFL-SA <sup>①*</sup>	-	AA-ACD12 <b>ML</b> -ACDFL-SA <sup>①*</sup>	-
	End1: Male Conn Female Contact	-	AA-ACD10 <b>HL</b> -ACDHL-SA <sup>①*</sup>	-	AA-ACD12 <b>HL</b> -ACDHL-SA <sup>①*</sup>
	End2: Male Conn Female Contact	-	AA-ACD10 <b>HL</b> -ACDHL-SA <sup>①*</sup>	-	AA-ACD12 <b>HL</b> -ACDHL-SA <sup>①*</sup>
End1: Male Conn Female Contact	-	AA-ACD10 <b>HL</b> -ACDBL-SA <sup>①*</sup>	-	AA-ACD12 <b>HL</b> -ACDBL-SA <sup>①*</sup>	
End2: Female Conn Male Contact	-	AA-ACD10 <b>HL</b> -ACDBL-SA <sup>①*</sup>	-	AA-ACD12 <b>HL</b> -ACDBL-SA <sup>①*</sup>	

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
 ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact	AA-ACD10 <b>ML</b> -ACDFR-SA <sup>①*</sup>	-	AA-ACD12 <b>ML</b> -ACDFR-SA <sup>①*</sup>	-
	End2: Female Conn Female Contact	AA-ACD10 <b>ML</b> -ACDFR-SA <sup>①*</sup>	-	AA-ACD12 <b>ML</b> -ACDFR-SA <sup>①*</sup>	-
End1: Male Conn Female Contact	-	AA-ACD10 <b>HL</b> -ACDBR-SA <sup>①*</sup>	-	AA-ACD12 <b>HL</b> -ACDBR-SA <sup>①*</sup>	
End2: Female Conn Male Contact	-	AA-ACD10 <b>HL</b> -ACDBR-SA <sup>①*</sup>	-	AA-ACD12 <b>HL</b> -ACDBR-SA <sup>①*</sup>	

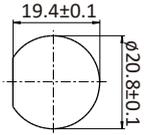
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

12		14			
250 ~ 600V		250 ~ 600V			
5A+2A		5A		5A+2A	
Plastic		Plastic			
MM	MF	MM	MF	MM	MF
					
ACDU-12PMMS-SC7001	ACDU-12PMFS-SC7001	ACD-14PMMS-SC7001	ACD-14PMFS-SC7001	ACDU-14PMMS-SC7001	ACDU-14PMFS-SC7001
1CDU-12PMMP-SC7001	1CDU-12PMFP-SC7001	1CD-14PMMP-SC7001	1CD-14PMFP-SC7001	1CDU-14PMMP-SC7001	1CDU-14PMFP-SC7001
-	-	ACD-14RMMMS-SC7001	ACD-14RMFS-SC7001	-	-
-	-	ACD-14PMMM-SL7A 11	ACD-14PMFM-SL7A 11	-	-
ACDU-12BMMM-SL7A 11*	ACDU-12BMFM-SL7A 11*	ACD-14BMMM-SL7A 11*	ACD-14BMFM-SL7A 11*	ACDU-14BMMM-SL7A 11*	ACDU-14BMFM-SL7A 11*
ACDU-12BMMA-SL7001*	ACDU-12BMFA-SL7001*	ACD-14BMMA-SL7001*	ACD-14BMFA-SL7001*	ACDU-14BMMA-SL7001*	ACDU-14BMFA-SL7001*
ACDU-12BMMC-SL7 11 P0*	ACDU-12BMFC-SL7 11 P0*	-	ACD-14BMFC-SL7 11 P0*	ACDU-14BMMC-SL7 11 P0*	ACDU-14BMFC-SL7 11 P0*

AA-ACBD12ML-ACBDML-SA 11*	-	AA-ACD14ML-ACDML-SA 11*	-	AA-ACBD14ML-ACBDML-SA 11*	-
AA-ACBD12ML-ACBDFL-SA 11*	-	AA-ACD14ML-ACDFL-SA 11*	-	-	-
-	AA-ACDU12HL-ACDUHL-SA 11*	-	AA-ACD14HL-ACDHL-SA 11*	-	AA-ACDU14HL-ACDUHL-SA 11*
-	AA-ACDU12HL-ACDUBL-SA 11*	-	AA-ACD14HL-ACDBL-SA 11*	-	AA-ACDU14HL-ACDUBL-SA 11*
AA-ACDU12ML-ACDUFR-SA 11*	-	AA-ACD14ML-ACDFR-SA 11*	-	AA-ACDU14ML-ACDUFR-SA 11*	-
-	AA-ACDU12HL-ACDUBR-SA 11*	-	AA-ACD14HL-ACDBR-SA 11*	-	AA-ACDU14HL-ACDUBR-SA 11*

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	2	3	4		
Rated Voltage (AC/DC)	250 ~ 600V	250 ~ 600V	250 ~ 600V		
Nominal Current	20A	20A	2A	10A	
Plastic / Metal	Plastic	Plastic	Plastic		
Pin Assignment	FF	FF	FF	FF	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact					

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>

	UL2464, PVC Jacket	ACC-02BFFM-SL7A ①	ACC-03BFFM-SL7A ①	ACU-04BFFM-SL7A ①	ACB-04BFFM-SL7A ①	ACB-04BFMM-SL7A ①
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>

	UL2464, PVC Jacket	ACC-02BFFM-SR7A ①*	ACC-03BFFM-SR7A ①*	ACU-04BFFM-SR7A ①*	ACB-04BFFM-SR7A ①*	ACB-04BFMM-SR7A ①*
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACC02FL-ACCFL-SA ①	AA-ACC03FL-ACCFL-SA ①	AA-ACU04FL-ACUFL-SA ①	AA-ACB04FL-ACBFL-SA ①	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	-	-	-	AA-ACB04BL-ACBBL-SA ①

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACC02FR-ACCFR-SA ①*	AA-ACC03FR-ACCFR-SA ①*	AA-ACU04FR-ACUFR-SA ①*	AA-ACB04FR-ACBFR-SA ①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	-	-	-	AA-ACB04BR-ACBBR-SA ①*

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACC02FL-ACCFR-SA ①*	AA-ACC03FL-ACCFR-SA ①*	AA-ACU04FL-ACUFR-SA ①*	AA-ACB04FL-ACBFR-SA ①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	-	-	-	AA-ACB04BL-ACBBR-SA ①*

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

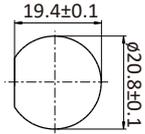
	Solder Type	ACC-02BFFA-SL7001	ACC-03BFFA-SL7001	ACU-04BFFA-SL7001	ACB-04BFFA-SL7001	ACB-04BFMA-SL7001
	<b>NEW</b> Crimp Type	ACC-02BFFC-SL7 ① P0	ACC-03BFFC-SL7 ① P0	ACU-04BFFC-SL7 ① P0*	ACB-04BFFC-SL7 ① P0	ACB-04BFMC-SL7 ① P0
	Crimp Type	ACC-02BFFB-SL7 ① P0*	ACC-03BFFB-SL7 ① P0*	-	-	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

5		6		7		8	
250 ~ 600V							
10A		10A		5A		5A	
Plastic		Plastic		Plastic		Plastic	
FF	FM	FF	FM	FF	FM	FF	FM
ACB-05BFFM-SL7A	ACB-05BFMM-SL7A	ACB-06BFFM-SL7A	ACB-06BFMM-SL7A	ACD-07BFFM-SL7A	ACD-07BFMM-SL7A	ACD-08BFFM-SL7A	ACD-08BFMM-SL7A
ACB-05BFFM-SR7A	ACB-05BFMM-SR7A	ACB-06BFFM-SR7A	ACB-06BFMM-SR7A	ACD-07BFFM-SR7A	ACD-07BFMM-SR7A	ACD-08BFFM-SR7A	ACD-08BFMM-SR7A
AA-ACB05FL-ACBFL-SA	-	AA-ACB06FL-ACBFL-SA	-	AA-ACD07FL-ACDFL-SA	-	AA-ACD08FL-ACDFL-SA	-
-	AA-ACB05BL-ACBBL-SA	-	AA-ACB06BL-ACBBL-SA	-	AA-ACD07BL-ACDBL-SA	-	AA-ACD08BL-ACDBL-SA
AA-ACB05FR-ACBFR-SA	-	AA-ACB06FR-ACBFR-SA	-	AA-ACD07FR-ACDFR-SA	-	AA-ACD08FR-ACDFR-SA	-
-	-	-	-	-	AA-ACD07BR-ACDBR-SA	-	AA-ACD08BR-ACDBR-SA
AA-ACB05FL-ACBFR-SA	-	AA-ACB06FL-ACBFR-SA	-	AA-ACD07FL-ACDFR-SA	-	AA-ACD08FL-ACDFR-SA	-
-	AA-ACB05BL-ACBFR-SA	-	AA-ACB06BL-ACBFR-SA	-	AA-ACD07BL-ACDBR-SA	-	AA-ACD08BL-ACDBR-SA
ACB-05BFFA-SL7001	ACB-05BFMA-SL7001	ACB-06BFFA-SL7001	ACB-06BFMA-SL7001	ACD-07BFFA-SL7001	ACD-07BFMA-SL7001	ACD-08BFFA-SL7001	ACD-08BFMA-SL7001
ACB-05BFFC-SL7	ACB-05BFMC-SL7	ACB-06BFFC-SL7	ACB-06BFMC-SL7	ACD-07BFFC-SL7	ACD-07BFMC-SL7	ACD-08BFFC-SL7	ACD-08BFMC-SL7
-	-	-	-	-	-	-	-

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

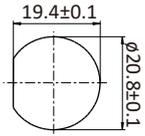
No of Contacts	8				
Rated Voltage (AC/DC)	250 ~ 600V				
Nominal Current	10A+2A		10A+5A		
Plastic / Metal	Plastic				
Pin Assignment	FF	FM	FF	FM	
FF: Female Connector Female Contact FM: Female Connector Male Contact					
<b>STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)</b>					
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ACBU-08BFFM-SL7A ⑪*	ACBU-08BFMM-SL7A ⑪*	ACBD-08BFFM-SL7A ⑪	ACBD-08BFMM-SL7A ⑪
<b>RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)</b>					
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ACBU-08BFFM-SR7A ⑪*	ACBU-08BFMM-SR7A ⑪*	ACBD-08BFFM-SR7A ⑪*	ACBD-08BFMM-SR7A ⑪*
<b>STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACBU08FL-ACBUFL-SA ⑪*	-	AA-ACBD08FL-ACBDFL-SA ⑪	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACBU-08BL-ACBUBL-SA ⑪	-	AA-ACBD08BL-ACBDBL-SA ⑪
<b>RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACBU08FR-ACBUFR-SA ⑪*	-	AA-ACBD08FR-ACBDFR-SA ⑪*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACBU08BR-ACBUBR-SA ⑪*	-	AA-ACBD08BR-ACBDBR-SA ⑪*
<b>STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACBU08FL-ACBUFR-SA ⑪*	-	AA-ACBD08FL-ACBDFR-SA ⑪*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACBU08BL-ACBUBR-SA ⑪*	-	AA-ACBD08BL-ACBDBR-SA ⑪*
<b>Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)</b>					
Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ⑪ Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm					
	Solder Type	ACBU-08BFFA-SL7001*	ACBU-08BFMA-SL7001*	ACBD-08BFFA-SL7001	ACBD-08BFMA-SL7001
	Crimp Type	ACBU-08BFFC-SL7 ⑪ P0*	ACBU-08BFMC-SL7 ⑪ P0*	ACBD-08BFFC-SL7 ⑪ P0	ACBD-08BFMC-SL7 ⑪ P0*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

9		10		12			
250 ~ 600V		250 ~ 600V		250 ~ 600V			
5A		5A		5A		5A+2A	
Plastic		Plastic		Plastic			
FF	FM	FF	FM	FF	FM	FF	FM
ACD-09BFFM-SL7A 11	ACD-09BFMM-SL7A 11	ACD-10BFFM-SL7A 11	ACD-10BFMM-SL7A 11	ACD-12BFFM-SL7A 11	ACD-12BFMM-SL7A 11	ACDU-12BFFM-SL7A 11	ACDU-12BFMM-SL7A 11
ACD-09BFFM-SR7A 11 *	ACD-09BFMM-SR7A 11 *	ACD-10BFFM-SR7A 11 *	ACD-10BFMM-SR7A 11 *	ACD-12BFFM-SR7A 11 *	ACD-12BFMM-SR7A 11 *	ACDU-12BFFM-SR7A 11 *	ACDU-12BFMM-SR7A 11 *
AA-ACD09FL-ACDFL-SA 11	-	AA-ACD10FL-ACDFL-SA 11	-	AA-ACD12FL-ACDFL-SA 11	-	AA-ACDU12FL-ACDUFL-SA 11	-
-	AA-ACD09BL-ACDBL-SA 11	-	AA-ACD10BL-ACDBL-SA 11	-	AA-ACD12BL-ACDBL-SA 11	-	AA-ACDU12BL-ACDUBL-SA 11
AA-ACD09FR-ACDFR-SA 11 *	-	AA-ACD10FR-ACDFR-SA 11 *	-	AA-ACD12FR-ACDFR-SA 11 *	-	AA-ACDU12FR-ACDUFR-SA 11 *	-
-	AA-ACD09BR-ACDBR-SA 11 *	-	AA-ACD10BR-ACDBR-SA 11 *	-	AA-ACD12BR-ACDBR-SA 11 *	-	AA-ACDU12BR-ACDUBR-SA 11 *
AA-ACD09FL-ACDFR-SA 11 *	-	AA-ACD10FL-ACDFR-SA 11 *	-	AA-ACD07FL-ACDFR-SA 11 *	-	AA-ACDU12FL-ACDUFR-SA 11 *	-
-	AA-ACD09BL-ACDBR-SA 11 *	-	AA-ACD10BL-ACDBR-SA 11 *	-	AA-ACD07BL-ACDBR-SA 11 *	-	AA-ACDU12BL-ACDUBR-SA 11 *
ACD-09BFFA-SL7001	ACD-09BFMA-SL7001	ACD-10BFFA-SL7001	ACD-10BFMA-SL7001	ACD-12BFFA-SL7001	ACD-12BFMA-SL7001	ACDU-12BFFA-SL7001	ACDU-12BFMA-SL7001
ACD-09BFFC-SL7 11 P0	ACD-09BFMC-SL7 11 P0	ACD-10BFFC-SL7 11 P0	ACD-10BFMC-SL7 11 P0	ACD-12BFFC-SL7 11 P0	ACD-12BFMC-SL7 11 P0	ACDU-12BFFC-SL7 11 P0 *	ACBU-12BFMC-SL7 11 P0 *

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	14			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	5A		5A+2A	
Plastic / Metal	Plastic			
Pin Assignment	FF	FM	FF	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact				

**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACD-14BFFM-SL7A ①	ACD-14BFMM-SL7A ①	ACDU-14BFFM-SL7A ①	ACDU-14BFMM-SL7A ①
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**RIGHT ANGLE**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ACD-14BFFM-SR7A ①*	ACD-14BFMM-SR7A ①*	ACDU-14BFFM-SR7A ①*	ACDU-14BFMM-SR7A ①*
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**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACD14FL-ACDFL-SA ①	-	AA-ACDU14FL-ACDUFL-SA ①	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACD14BL-ACDBL-SA ①	-	AA-ACDU14BL-ACDUBL-SA ①

**RIGHT ANGLE-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACD14FR-ACDFR-SA ①*	-	AA-ACDU14FR-ACDUFR-SA ①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACD14BR-ACDBR-SA ①*	-	AA-ACDU14BR-ACDUBR-SA ①*

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ACD14FL-ACDFR-SA ①*	-	AA-ACDU14FL-ACDUFR-SA ①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ACD14BL-ACDBR-SA ①*	-	AA-ACDU14BL-ACDUBR-SA ①*

Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)

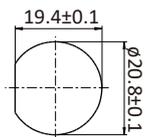
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ACD-14BFFA-SL7001	ACD-14BFMA-SL7001	ACDU-14BFFA-SL7001	ACDU-14BFMA-SL7001
	Crimp Type	ACD-14BFFC-SL7 ① P0	ACD-14BFMC-SL7 ① P0	ACDU-14BFFC-SL7 ① P0*	ACDU-14BFMC-SL7 ① P0*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder  
(S) Receptacle

(A) Field Serviceable/Installable



Crimp

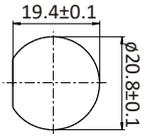
(C) Field Serviceable/Installable

No of Contacts	8	
Rated Voltage (AC/DC)	250 ~ 600V	
Nominal Current	10A+2A	
Plastic / Metal	Plastic	
Pin Assignment	Males / Female Conn. Hybrid (Power+Signal) Contact	
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact	(D) Female Power+Male Signal (E) Male Power+Female Signal	
Receptacle, Circular Flange, <b>FRONT</b> Fastened Nut, IP67 (Unmated) Nut Torque Value: 11.5 ~ 14 kgf.cm   Recommended Panel Thickness: (with cap) max. 3.0mm, (without cap) max. 4.0mm		
	Solder Type Male Power+Female Signal	ACBU-08PMES-TC7001
	Solder Type Female Power+Male Signal	ACBU-08PMDs-TC7001
<b>STRAIGHT</b> , Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)		
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>		
	UL2464, PVC Jacket Male Power+Female Signal	ACBU-08BMEM-TL7A ⑪*
	UL2464, PVC Jacket Female Power+Male Signal	ACBU-08BMDM-TL7A ⑪*
<b>STRAIGHT-TO-STRAIGHT</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)		
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>		
	End 1: (V) Male Conn Male Power Female Signal Contact End 2: (V) Male Conn Male Power Female Signal Contact	AA-ACBU08VL-ACBUVL-TA ⑪*
	End 1: (U) Male Conn Female Power Male Signal Contact End 2: (U) Male Conn Female Power Male Signal Contact	AA-ACBU08UL-ACBUUL-TA ⑪*
	End 1: (V) Male Conn Male Power Female Signal Contact End 2: (W) Female Conn Female Power Male Signal Contact	AA-ACBU08VL-ACBUWL-TA ⑪*
	End 1: (U) Male Conn Female Power Male Signal Contact End 2: (X) Female Conn Male Power Female Signal Contact	AA-ACBU08UL-ACBUXL-TA ⑪*
<b>STRAIGHT-TO-RIGHT ANGLE</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)		
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>		
	End 1: (V) Male Conn Male Power Female Signal Contact End 2: (W) Female Conn Female Power Male Signal Contact	AA-ACBU08VL-ACBUWR-TA ⑪*
	End 1: (U) Male Conn Female Power Male Signal Contact End 2: (X) Female Conn Male Power Female Signal Contact	AA-ACBU08UL-ACBUXR-TA ⑪*
Field Serviceable/Installable, <b>STRAIGHT</b> , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ⑪ Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm		
	Solder Type Male Power+Female Signal	ACBU-08BMEA-TL7001*
	Solder Type Female Power+Male Signal	ACBU-08BMEC-TL7 ⑪P0*
	Crimp Type Male Power+Female Signal	ACBU-08BMdA-TL7001*
	Crimp Type Female Power+Male Signal	ACBU-08BMdC-TL7 ⑪P0*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Panel Cut Out Assemble Style



Circular Flange (D Cut)



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	8	
Rated Voltage (AC/DC)	250 ~ 600V	
Nominal Current	10A+2A	
Plastic / Metal	Plastic	
Pin Assignment	Males / Female Conn. Hybrid (Power+Signal) Contact	
<b>MM:</b> Male Connector Male Contact <b>(D)</b> Female Power+Male Signal <b>FF:</b> Female Connector Female Contact <b>(E)</b> Male Power+Female Signal <b>MF:</b> Male Connector Female Contact <b>FM:</b> Female Connector Male Contact		
Receptacle With Cable, <b>STRAIGHT</b> , IP67 (Unmated) ① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>		
	UL2464, PVC Jacket Male Power+Female Signal	ACBU-08BF <b>DM</b> -TL7A ①
	UL2464, PVC Jacket Female Power+Male Signal	ACBU-08BF <b>EM</b> -TL7A ①
RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated) ① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>		
	UL2464, PVC Jacket Male Power+Female Signal	ACBU-08BF <b>DM</b> -TR7A ①*
	UL2464, PVC Jacket Female Power+Male Signal	ACBU-08BF <b>EM</b> -TR7A ①*
STRAIGHT-TO-STRaight, Overmolded Double-Ended Cable Assembly, IP67 (Mated) ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>		
	End 1: <b>(W)</b> Female Conn Female Power Male Signal Contact End 2: <b>(W)</b> Female Conn Female Power Male Signal Contact	AA-ACBU08 <b>WL</b> -ACBU <b>WL</b> -TA ①
	End 1: <b>(X)</b> Female Conn Male Power Female Signal Contact End 2: <b>(X)</b> Female Conn Male Power Female Signal Contact	AA-ACBU08 <b>XL</b> -ACBU <b>XL</b> -TA ①
RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated) ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>		
	End 1: <b>(W)</b> Female Conn Female Power Male Signal Contact End 2: <b>(W)</b> Female Conn Female Power Male Signal Contact	AA-ACBU08 <b>WR</b> -ACBU <b>WR</b> -TA ①*
	End 1: <b>(X)</b> Female Conn Male Power Female Signal Contact End 2: <b>(X)</b> Female Conn Male Power Female Signal Contact	AA-ACBU08 <b>XR</b> -ACBU <b>XR</b> -TA ①*
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated) ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>		
	End 1: <b>(W)</b> Female Conn Female Power Male Signal Contact End 2: <b>(W)</b> Female Conn Female Power Male Signal Contact	AA-ACBU08 <b>WL</b> -ACBU <b>WR</b> -TA ①*
	End 1: <b>(X)</b> Female Conn Male Power Female Signal Contact End 2: <b>(X)</b> Female Conn Male Power Female Signal Contact	AA-ACBU08 <b>XL</b> -ACBU <b>XR</b> -TA ①*
Field Serviceable/Installable, <b>STRAIGHT</b> , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ① Seal Color: <b>(A)</b> All Seals, <b>(S)</b> Red, OD 5.0~6.0mm, <b>(M)</b> Yellow, OD 6.0~8.0mm, <b>(L)</b> Blue, OD 8.0~10.0mm		
	Solder Type Male Power+Female Signal	ACBU-08BF <b>DA</b> -TL7001
	Solder Type Female Power+Male Signal	ACBU-08BF <b>EA</b> -TL7001
	Crimp Type Male Power+Female Signal	ACBU-08BF <b>DC</b> -TL7 ① P0*
	Crimp Type Female Power+Male Signal	ACBU-08BF <b>EC</b> -TL7 ① P0*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Dust Cap



With Rubber Lead

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
Middle Size	Receptacle	Cover	Male	With Rubber Lead	CAP-DACMDPC1
			Female	With Rubber Lead	CAP-DACFDCC1

## Dummy Cap



Size	Mating Part	Mating Style	Part Number
Middle Size	For Enclosure	Screw Thread	CAP-CACFSBA1

## Wrench



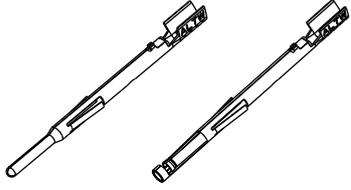
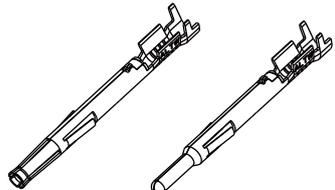
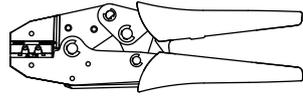
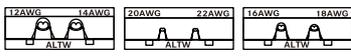
Part Number: TOL-152501  
TOL-152502

## Waterproof Cap

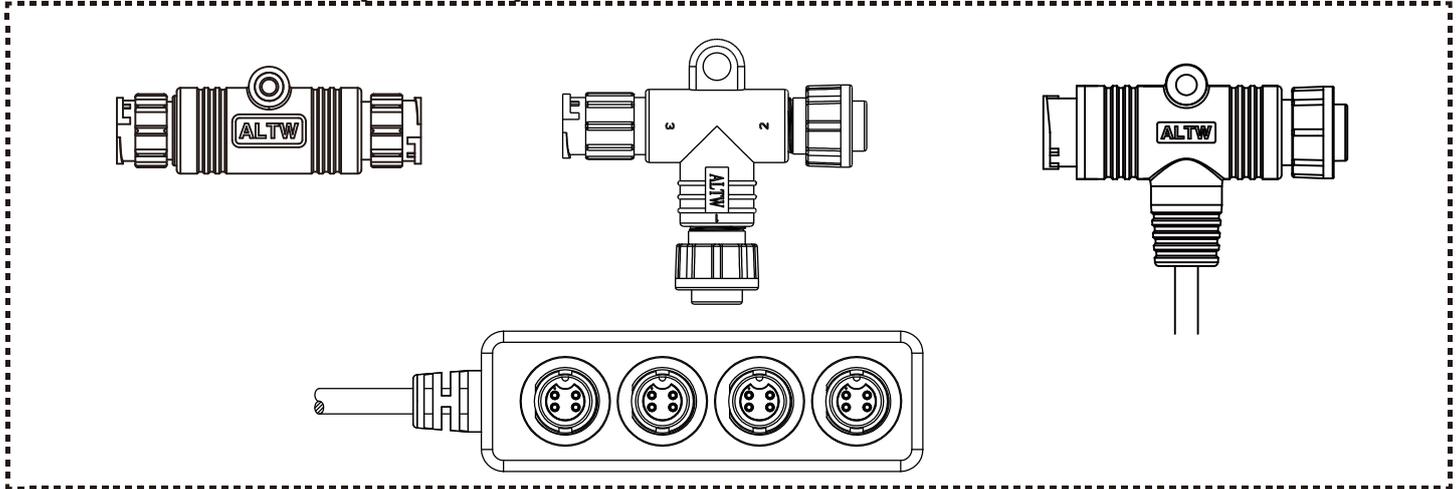
For Mating with Male Connector				
	None	With Rubber Lead	With Chain	With Fish Line
	For Mating with Female Connector			
		None	With Rubber Lead	With Chain

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
Middle Size	Receptacle	Screw Thread	Male	With Chain	CAP-WACMSPB1
		Screw Thread	Male	With Rubber Lead	CAP-WACMSPC1
		2 Points Lock	Male	With Chain	CAP-WACMLPB1
		2 Points Lock	Female	With Chain	CAP-WACFLPB1
		2 Points Lock	Female	With Rubber Lead	CAP-WACFLPC1
	Overmolded With Cable & Field Installable	Screw Thread	Male	None	CAP-WACMSMA1
		Screw Thread	Male	With Fish Line	CAP-WACMSPD1
		2 Points Lock	Male	None	CAP-WACMLMA1
		2 Points Lock	Male	None	CAP-WACMLPC1
		2 Points Lock	Female	None	CAP-WACFLMA1

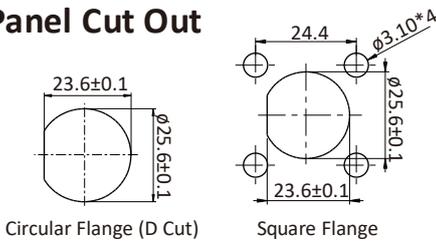
## Contacts & Crimp Tool

				
5A		10A/20A		
5A		10A/20A		Crimp Tool
Nominal Current	Contact Gender	Part Number	Packages <sup>6</sup>	Crimp Tool
5A	Male	ASSP-05-M-A-C- <sup>6</sup>	<b>(SA)</b> 50pcs / Box <b>(SB)</b> 100pcs / Box <b>(RE)</b> 5A 3,000pcs / Reel 10A 3,000pcs / Reel 20A 2,000pcs / Reel	ASST-C-05-W-A (22 ~ 20AWG   0.34 ~ 0.50mm <sup>2</sup> )
	Female	ASSP-05-F-A-C- <sup>6</sup>		ASST-C-10-W-B (18 ~ 16AWG   1.50 ~ 0.75mm <sup>2</sup> )
10A	Male	ASSP-10-M-A-C- <sup>6</sup>		ASST-C-20-W-C (14 ~ 12AWG   2.50 ~ 4.00mm <sup>2</sup> )
	Female	ASSP-10-F-A-C- <sup>6</sup>		
20A	Male	ASSP-20-M-A-C- <sup>6</sup>		
	Female	ASSP-20-F-A-C- <sup>6</sup>		

## Customization - Upon Request



## Panel Cut Out



## Assemble Style



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable



Screw In  
(B) Field Serviceable/Installable

No of Contacts	2		3	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	20A		20A	
Plastic / Metal	Plastic		Plastic	
Pin Assignment	MM	MF	MM	MF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-02PMM S-LC7001	-	ADC-03PMM S-LC7001	-
	180° PCB Type	1DC-02PMM P-LC7001	1DC-02PMF P-LC7001	1DC-03PMM P-LC7001	1DC-03PMF P-LC7001

Receptacle, Square Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-02PMM S-LS7001	-	ADC-03PMM S-LS7001	-
	180° PCB Type	1DC-02PMM P-LS7001	-	1DC-03PMM P-LS7001	-

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-02RMM S-LC7001	-	ADC-03RMM S-LC7001	-
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**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADC-02BMMM-LL7A ①*	ADC-02BMF M-LL7A ①*	ADC-03BMMM-LL7A ①*	ADC-03BMF M-LL7A ①*
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

(Solder) (Screw-in, Crimp)	Solder Type	ADC-02BMM A-LL7001*	ADC-02BMF A-LL7001*	ADC-03BMM A-LL7001*	ADC-03BMF A-LL7001*
	Crimp Type	ADC-02BMM C-LL7 ① P0*	ADC-02BMF C-LL7 ① P0*	ADC-03BMM C-LL7 ① P0*	ADC-03BMF C-LL7 ① P0*
	Screw In Type	1DC-02BMM B-LL7 ① PP	1DC-02BMF B-LL7 ① PP	1DC-03BMM B-LL7 ① PP	1DC-03BMF B-LL7 ① PP

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	(M) End1: Male Conn Male Contact (M) End2: Male Conn Male Contact	AA-ADC02ML-ADCML-LA ①*	-	AA-ADC03ML-ADCML-LA ①*	-
	(M) End1: Male Conn Male Contact (F) End2: Female Conn Female Contact	AA-ADC02ML-ADCFL-LA ①*	-	AA-ADC03ML-ADCFL-LA ①*	-
	(H) End1: Male Conn Female Contact (H) End2: Male Conn Female Contact	-	AA-ADC02HL-ADCHL-LA ①*	-	AA-ADC03HL-ADCHL-LA ①*
	(H) End1: Male Conn Female Contact (B) End2: Female Conn Male Contact	-	AA-ADC02HL-ADCBL-LA ①*	-	AA-ADC03HL-ADCBL-LA ①*

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

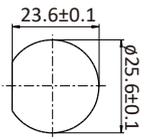
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	(M) End1: Male Conn Male Contact (F) End2: Female Conn Female Contact	AA-ADC02ML-ADCFR-LA ①*	-	AA-ADC03ML-ADCFR-LA ①*	-
	(H) End1: Male Conn Female Contact (B) End2: Female Conn Male Contact	-	AA-ADC02HL-ADCBR-LA ①*	-	AA-ADC03HL-ADCBR-LA ①*

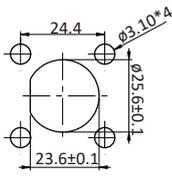
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Panel Cut Out



Circular Flange (D Cut)



Square Flange

## Assemble Style



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable



Screw In  
(B) Field Serviceable/Installable

No of Contacts	4		5	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	20A		20A	
Plastic / Metal	Plastic		Plastic	
Pin Assignment	MM	MF	MM	MF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-04PMMMS-LC7001	-	ADC-05PMMMS-LC7001	-
	180° PCB Type	1DC-04PMPM-LC7001	1DC-04PMFP-LC7001	1DC-05PMPM-LC7001	1DC-05PMFP-LC7001

Receptacle, Square Flange, **FRONT** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-04PMMMS-LS7001	-	ADC-05PMMMS-LS7001	-
	180° PCB Type	1DC-04PMPM-LS7001	-	1DC-05PMPM-LS7001	-

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-04RMMMS-LC7001	-	ADC-05RMMMS-LC7001	-
	180° PCB Type	-	-	-	-

**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

**11** Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADC-04BMMM-LL7A <sup>11</sup> *	ADC-04BMFM-LL7A <sup>11</sup> *	ADC-05BMMM-LL7A <sup>11</sup> *	ADC-05BMFM-LL7A <sup>11</sup> *
	[Hybrid] UL2464, PVC Jacket Male Power+Female Signal	-	-	-	-
	[Hybrid] UL2464, PVC Jacket Female Power+Male Signal	-	-	-	-

Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | **11** Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	(Solder) Solder Type	ADC-04BMMMA-LL7001*	ADC-04BMFMA-LL7001*	ADC-05BMMMA-LL7001*	ADC-05BMFMA-LL7001*
	(Screw-in, Crimp) Crimp Type	ADC-04BMMMC-LL7 <sup>11</sup> P0*	ADC-04BMFMC-LL7 <sup>11</sup> P0*	ADC-05BMMMC-LL7 <sup>11</sup> P0*	ADC-05BMFMC-LL7 <sup>11</sup> P0*
	Screw In Type	1DC-04BMMB-LL7 <sup>11</sup> PP	1DC-04BMFB-LL7 <sup>11</sup> PP	1DC-05BMMB-LL7 <sup>11</sup> PP	1DC-05BMFB-LL7 <sup>11</sup> PP

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

**11** Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	(M) End1: Male Conn Male Contact (M) End2: Male Conn Male Contact	AA-ADC04ML-ADCML-LA <sup>11</sup> *	-	AA-ADC05ML-ADCML-LA <sup>11</sup> *	-
	(M) End1: Male Conn Male Contact (F) End2: Female Conn Female Contact	AA-ADC04ML-ADCFL-LA <sup>11</sup> *	-	AA-ADC05ML-ADCFL-LA <sup>11</sup> *	-
	(H) End1: Male Conn Female Contact (H) End2: Male Conn Female Contact	-	AA-ADC04HL-ADCHL-LA <sup>11</sup> *	-	AA-ADC05HL-ADCHL-LA <sup>11</sup> *
	(H) End1: Male Conn Female Contact (B) End2: Female Conn Male Contact	-	AA-ADC04HL-ADCBL-LA <sup>11</sup> *	-	AA-ADC05HL-ADCBL-LA <sup>11</sup> *

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

**11** Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	(M) End1: Male Conn Male Contact (F) End2: Female Conn Female Contact	AA-ADC04ML-ADCFR-LA <sup>11</sup> *	-	AA-ADC05ML-ADCFR-LA <sup>11</sup> *	-
	(H) End1: Male Conn Female Contact (B) End2: Female Conn Male Contact	-	AA-ADC04HL-ADCBR-LA <sup>11</sup> *	-	AA-ADC05HL-ADCBR-LA <sup>11</sup> *

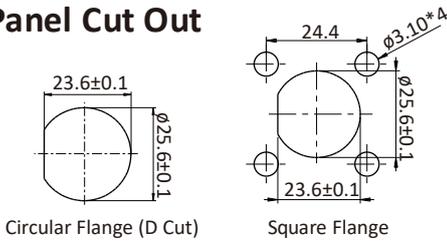
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

6		7		18		20	21	22
250 ~ 600V		250 ~ 600V		250 ~ 600V		250 ~ 600V	250 ~ 600V	250 ~ 600V
20A		20A		5A		2A	2A	2A
Plastic		Plastic		Plastic		Plastic	Plastic	Plastic
MM	MF	MM	MF	MM	MF	MM	MM	MM
ADC-06PMMS-LC7001	-	ADC-07PMMS-LC7001	-	ADD-18PMMS-LC7001	ADD-18PMFS-LC7001	ADU-20PMMS-LC7001	ADU-21PMMS-LC7001	ADU-22PMMS-LC7001
1DC-06PMMP-LC7001	1DC-06PMFP-LC7001	1DC-07PMMP-LC7001	1DC-07PMFP-LC7001	1DD-18PMMP-LC7001	1DD-18PMFP-LC7001	1DU-20PMMP-LC7001	1DU-21PMMP-LC7001	1DU-22PMMP-LC7001
ADC-06PMMS-LS7001	-	ADC-07PMMS-LS7001	-	ADD-18PMMS-LS7001	ADD-18PMFS-LS7001	-	-	-
1DC-06PMMP-LS7001	-	1DC-07PMMP-LS7001	-	1DD-18PMMP-LS7001	1DD-18PMFP-LS7001	-	-	-
ADC-06RMMS-LC7001	-	ADC-07RMMS-LC7001	-	ADD-18RMMS-LC7001	ADD-18RMFS-LC7001	-	-	-
ADC-06BMMM-LL7A(11)*	ADC-06BMFM-LL7A(11)*	ADC-07BMMM-LL7A(11)*	ADC-07BMFM-LL7A(11)*	ADD-18BMMM-LL7A(11)	ADD-18BMFM-LL7A(11)	ADU-20BMMM-LL7A(11)*	ADU-21BMMM-LL7A(11)*	ADU-22BMMM-LL7A(11)*
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
ADC-06BMMA-LL7001*	ADC-06BMFA-LL7001*	ADC-07BMMA-LL7001*	ADC-07BMFA-LL7001*	ADD-18BMMA-LL7001	ADD-18BMFA-LL7001	ADU-20BMMA-LL7001*	ADU-21BMMA-LL7001*	ADU-22BMMA-LL7001*
ADC-06BMMC-LL7(11)P0*	ADC-06BMFC-LL7(11)P0*	ADC-07BMMC-LL7(11)P0*	ADC-07BMFC-LL7(11)P0*	ADD-18BMMC-LL7(11)P0*	ADD-18BMFC-LL7(11)P0	ADU-20BMMC-LL7(11)P0*	ADU-21BMMC-LL7(11)P0*	ADU-22BMMC-LL7(11)P0*
1DC-06BMMB-LL7(11)PP	1DC-06BMFB-LL7(11)PP	1DC-07BMMB-LL7(11)PP	1DC-07BMFB-LL7(11)PP	-	-	-	-	-

AA-ADC06ML-ADCML-LA(11)*	-	AA-ADC07ML-ADCML-LA(11)*	-	AA-ADD18ML-ADDML-LA(11)	-	AA-ADU20ML-ADUML-LA(11)*	AA-ADU21ML-ADUML-LA(11)*	AA-ADU22ML-ADUML-LA(11)*
AA-ADC06ML-ADCFL-LA(11)*	-	AA-ADC07ML-ADCFL-LA(11)*	-	AA-ADD18ML-ADDFL-LA(11)	-	AA-ADU20ML-ADUFL-LA(11)*	AA-ADU21ML-ADUFL-LA(11)*	AA-ADU22ML-ADUFL-LA(11)*
-	AA-ADC06HL-ADCHL-LA(11)*	-	AA-ADC07HL-ADCHL-LA(11)*	-	AA-ADD18HL-ADDHL-LA(11)	-	-	-
-	AA-ADC06HL-ADCBL-LA(11)*	-	AA-ADC07HL-ADCBL-LA(11)*	-	AA-ADD18HL-ADDBL-LA(11)	-	-	-
AA-ADC06ML-ADCFR-LA(11)*	-	AA-ADC07ML-ADCFR-LA(11)*	-	AA-ADD18ML-ADDFR-LA(11)	-	AA-ADU20ML-ADUFR-LA(11)*	AA-ADU21ML-ADUFR-LA(11)*	AA-ADU22ML-ADUFR-LA(11)*
-	AA-ADC06HL-ADCBR-LA(11)*	-	AA-ADC07HL-ADCBR-LA(11)*	-	AA-ADD18HL-ADDBR-LA(11)*	-	-	-

## Panel Cut Out



## Assemble Style



No of Contacts	8	10	12
Rated Voltage (AC/DC)	250 ~ 600V	250 ~ 600V	250 ~ 600V
Nominal Current	20A+2A	10A	20A+5A
Plastic / Metal	Plastic	Plastic	Plastic
Pin Assignment MM: Male Connector Male Contact FF: Female Connector Female Contact (D) Female Power+Male Signal (E) Male Power+Female Signal			

Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	[Hybrid] Solder Type Male Power+Female Signal	ADCU-08PMES-LC7001	-	ADCD-12PMES-LC7001
	[Hybrid] Solder Type Female Power+Male Signal	ADCU-08PMD5-LC7001	-	ADCD-12PMD5-LC7001
	[Hybrid] 180° PCB Type Female Power+Male Signal	-	-	1DCD-12PMDP-LC7001

STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>

	UL2464, PVC Jacket	-	ADB-10BMMM-LL7A ①	-
	[Hybrid] UL2464, PVC Jacket Male Power+Female Signal	ADCU-08B MEM-LL7B ①	-	ADCD-12B MEM-LL7A ①
	[Hybrid] UL2464, PVC Jacket Female Power+Male Signal	ADCU-08B MDM-LL7B ①	-	ADCD-12B MDM-LL7A ①

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	(M) End1: Male Conn Male Contact	-	AA-ADB10ML-ADBML-LA ①	-
	(M) End2: Male Conn Male Contact	-	AA-ADB10ML-ADBFL-LA ①	-
	(V) End 1: Male Conn Male Power Female Signal Contact	AA-ADCU08VL-ADCUVL-LA ①*	-	AA-ADCD12VL-ADCDVL-TA ①
	(V) End 2: Male Conn Male Power Female Signal Contact	AA-ADCU08VL-ADCUWL-LA ①*	-	AA-ADCD12VL-ADCDWL-TA ①
	(U) End 1: Male Conn Female Power Male Signal Contact	AA-ADCU08UL-ADCUUL-LA ①	-	AA-ADCD12UL-ADCDUL-LA ①
	(U) End 2: Male Conn Female Power Male Signal Contact	AA-ADCU08UL-ADCUXL-LA ①	-	AA-ADCD12UL-ADCDXL-LA ①
	(X) End 2: Female Conn Male Power Female Signal Contact	-	-	-
	(F) End2: Female Conn Female Contact	-	AA-ADB10ML-ADBFR-LA ①*	-

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	(M) End1: Male Conn Male Contact	-	AA-ADB10ML-ADBFR-LA ①*	-
	(V) End 1: Male Conn Male Power Female Signal Contact	AA-ADCU08VL-ADCUWR-LA ①*	-	AA-ADCD12VL-ADCDWR-TA ①
	(U) End 1: Male Conn Female Power Male Signal Contact	AA-ADCU08UL-ADCUXR-LA ①*	-	AA-ADCD12UL-ADCDXR-LA ①
	(X) End 2: Female Conn Male Power Female Signal Contact	-	-	-

Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	-	ADB-10BMMMA-LL7001*	-
	[Hybrid] Solder Type Male Power+Female Signal	ADCU-08BMEA-LL7001	-	ADCD-12BMEA-LL7001
	[Hybrid] Solder Type Female Power+Male Signal	ADCU-08BMDA-LL7001	-	ADCD-12BMDA-LL7001
	Crimp Type	-	ADB-10BMMC-LL7 ① PO*	-
	[Hybrid] Crimp Type Female Power+Male Signal	ADCU-08BMDC-LL7 ① PO*	-	ADCD-12BMDC-LL7 ① PO*
	[Hybrid] Crimp Type Male Power+Female Signal	ADCU-08BMEC-LL7 ① PO*	-	ADCD-12BMEC-LL7 ① PO

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

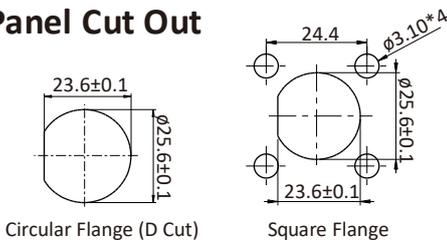
\* Upon Request

No of Contacts		2	3		
Rated Voltage (AC/DC)		250 ~ 600V	250 ~ 600V		
Nominal Current		20A	20A		
Plastic / Metal		Plastic	Plastic		
Pin Assignment		FF	FM	FF	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact					
<b>STRAIGHT</b> , Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ADC-02BFFM-LL7A ⑪	ADC-02BFMM-LL7A ⑪*	ADC-03BFFM-LL7A ⑪	ADC-03BFMM-LL7A ⑪*
<b>RIGHT ANGLE</b> , Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ADC-02BFFM-LR7A ⑪*	ADC-02BFMM-LR7A ⑪*	ADC-03BFFM-LR7A ⑪*	ADC-03BFMM-LR7A ⑪*
<b>STRAIGHT-TO-STRAIGHT</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: <b>(F)</b> FF, <b>(B)</b> FM					
	<b>(F)</b> End1: Female Conn Female Contact	AA-ADC02FL-ADCFL-LA ⑪	-	AA-ADC03FL-ADCFL-LA ⑪	-
	<b>(F)</b> End2: Female Conn Female Contact	-	AA-ADC02BL-ADCBL-LA ⑪*	-	AA-ADC03BL-ADCBL-LA ⑪*
	<b>(B)</b> End1: Female Conn Male Contact	-	AA-ADC02BL-ADCBL-LA ⑪*	-	AA-ADC03BL-ADCBL-LA ⑪*
	<b>(B)</b> End2: Female Conn Male Contact	-	-	-	-
<b>RIGHT ANGLE-TO-RIGHT ANGLE</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: <b>(F)</b> FF, <b>(B)</b> FM					
	<b>(F)</b> End1: Female Conn Female Contact	AA-ADC02FR-ADCFR-LA ⑪*	-	AA-ADC03FR-ADCFR-LA ⑪*	-
	<b>(F)</b> End2: Female Conn Female Contact	-	AA-ADC02BR-ADCBR-LA ⑪*	-	AA-ADC03BR-ADCBR-LA ⑪*
	<b>(B)</b> End1: Female Conn Male Contact	-	AA-ADC02BR-ADCBR-LA ⑪*	-	AA-ADC03BR-ADCBR-LA ⑪*
	<b>(B)</b> End2: Female Conn Male Contact	-	-	-	-
<b>STRAIGHT-TO-RIGHT ANGLE</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: <b>(F)</b> FF, <b>(B)</b> FM					
	<b>(F)</b> End1: Female Conn Female Contact	AA-ADC02FL-ADCFR-LA ⑪*	-	AA-ADC03FL-ADCFR-LA ⑪*	-
	<b>(F)</b> End2: Female Conn Female Contact	-	AA-ADC02BL-ADCBR-LA ⑪*	-	AA-ADC03BL-ADCBR-LA ⑪*
	<b>(B)</b> End1: Female Conn Male Contact	-	AA-ADC02BL-ADCBR-LA ⑪*	-	AA-ADC03BL-ADCBR-LA ⑪*
	<b>(B)</b> End2: Female Conn Male Contact	-	-	-	-
Field Serviceable/Installable, <b>STRAIGHT</b> , Without Strain Relief, IP67 (Mated)					
Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ⑪ Seal Color: <b>(A)</b> All Seals, <b>(S)</b> Red, OD 5.0~6.0mm, <b>(M)</b> Yellow, OD 6.0~8.0mm, <b>(L)</b> Blue, OD 8.0~10.0mm					
	Solder Type	ADC-02BFFA-LL7001	ADC-02BFMA-LL7001*	ADC-03BFFA-LL7001	ADC-03BFMA-LL7001*
	Crimp Type	ADC-02BFFC-LL7 ⑪ P0	ADC-02BFMC-LL7 ⑪ P0*	ADC-03BFFC-LL7 ⑪ P0	ADC-03BFMC-LL7 ⑪ P0*
	Screw In Type	1DC-02BFFB-LL7 ⑪ PP	1DC-02BFMB-LL7001	1DC-03BFFB-LL7 ⑪ PP	1DC-03BFMB-LL7001

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Panel Cut Out



## Assemble Style



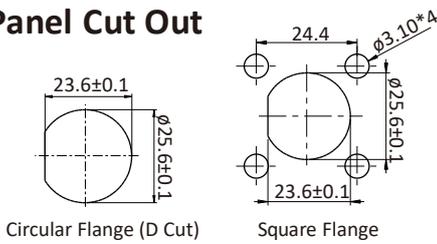
No of Contacts		4		5	
Rated Voltage (AC/DC)		250 ~ 600V		250 ~ 600V	
Nominal Current		20A		20A	
Plastic / Metal		Plastic		Plastic	
Pin Assignment		FF	FM	FF	FM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact					
<b>STRAIGHT</b> , Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ADC-04BFFM-LL7A <sup>①</sup>	ADC-04BFMM-LL7A <sup>①*</sup>	ADC-05BFFM-LL7A <sup>①</sup>	ADC-05BFMM-LL7A <sup>①*</sup>
<b>RIGHT ANGLE</b> , Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)					
① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>					
	UL2464, PVC Jacket	ADC-04BFFM-LR7A <sup>①*</sup>	ADC-04BFMM-LR7A <sup>①*</sup>	ADC-05BFFM-LR7A <sup>①*</sup>	ADC-05BFMM-LR7A <sup>①*</sup>
<b>STRAIGHT-TO-STRAIGHT</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	(F) End1: Female Conn Female Contact (F) End2: Female Conn Female Contact	AA-ADC04FL-ADCFL-LA <sup>①</sup>	-	AA-ADC05FL-ADCFL-LA <sup>①</sup>	-
	(B) End1: Female Conn Male Contact (B) End2: Female Conn Male Contact	-	AA-ADC04BL-ADCBL-LA <sup>①*</sup>	-	AA-ADC05BL-ADCBL-LA <sup>①*</sup>
<b>RIGHT ANGLE-TO-RIGHT ANGLE</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	(F) End1: Female Conn Female Contact (F) End2: Female Conn Female Contact	AA-ADC04FR-ADCFR-LA <sup>①*</sup>	-	AA-ADC05FR-ADCFR-LA <sup>①*</sup>	-
	(B) End1: Female Conn Male Contact (B) End2: Female Conn Male Contact	-	AA-ADC04BR-ADCBR-LA <sup>①*</sup>	-	AA-ADC05BR-ADCBR-LA <sup>①*</sup>
<b>STRAIGHT-TO-RIGHT ANGLE</b> , Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: (F) FF, (B) FM					
	(F) End1: Female Conn Female Contact (F) End2: Female Conn Female Contact	AA-ADC04FL-ADCFR-LA <sup>①*</sup>	-	AA-ADC05FL-ADCFR-LA <sup>①*</sup>	-
	(B) End1: Female Conn Male Contact (B) End2: Female Conn Male Contact	-	AA-ADC04BL-ADCBR-LA <sup>①*</sup>	-	AA-ADC05BL-ADCBR-LA <sup>①*</sup>
Field Serviceable/Installable, <b>STRAIGHT</b> , Without Strain Relief, IP67 (Mated)					
Sealing Nut Torque Value: 8 ~ 15 kgf.cm   ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm					
	Solder Type	ADC-04BFFA-LL7001	ADC-04BFMA-LL7001*	ADC-05BFFA-LL7001	ADC-05BFMA-LL7001*
	Crimp Type	ADC-04BFFC-LL7 <sup>①</sup> P0	ADC-04BFMC-LL7 <sup>①</sup> P0*	ADC-05BFFC-LL7 <sup>①</sup> P0	ADC-05BFMC-LL7 <sup>①</sup> P0*
	Screw In Type	1DC-04BFFB-LL7 <sup>①</sup> PP	1DC-04BFMB-LL7001	1DC-05BFFB-LL7 <sup>①</sup> PP	1DC-05BFMB-LL7001

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

6		7		18		20	21	22
250 ~ 600V		250 ~ 600V		250 ~ 600V		250 ~ 600V	250 ~ 600V	250 ~ 600V
20A		20A		5A		2A	2A	2A
Plastic		Plastic		Plastic		Plastic	Plastic	Plastic
FF	FM	FF	FM	FF	FM	FF	FF	FF
ADC-06B FFM-LL7A <b>11</b>	ADC-06B FMM-LL7A <b>11</b> *	ADC-07B FFM-LL7A <b>11</b>	ADC-07B FMM-LL7A <b>11</b> *	ADD-18B FFM-LL7A <b>11</b>	ADD-18B FMM-LL7A <b>11</b>	ADU-20B FFM-LL7A <b>11</b>	ADU-21B FFM-LL7A <b>11</b>	ADU-22B FFM-LL7A <b>11</b>
ADC-06B FFM-LR7A <b>11</b> *	ADC-06B FMM-LR7A <b>11</b> *	ADC-07B FFM-LR7A <b>11</b> *	ADC-07B FMM-LR7A <b>11</b> *	ADD-18B FFM-LR7A <b>11</b>	ADD-18B FMM-LR7A <b>11</b> *	ADU-20B FFM-LR7A <b>11</b> *	ADU-21B FFM-LR7A <b>11</b> *	ADU-22B FFM-LR7A <b>11</b> *
AA-ADC06FL-ADCFL-LA <b>11</b>	-	AA-ADC07FL-ADCFL-LA <b>11</b>	-	AA-ADD18FL-ADDFL-LA <b>11</b>	-	AA-ADU20FL-ADUFL-LA <b>11</b>	AA-ADU21FL-ADUFL-LA <b>11</b>	AA-ADU22FL-ADUFL-LA <b>11</b>
-	AA-ADC06BL-ADCBL-LA <b>11</b> *	-	AA-ADC07BL-ADCBL-LA <b>11</b> *	-	AA-ADD18BL-ADDBL-LA <b>11</b>	-	-	-
AA-ADC06FR-ADCFR-LA <b>11</b> *	-	AA-ADC07FR-ADCFR-LA <b>11</b> *	-	AA-ADD18FR-ADDFR-LA <b>11</b>	-	AA-ADU20FR-ADUFR-LA <b>11</b> *	AA-ADU21FR-ADUFR-LA <b>11</b> *	AA-ADU22FR-ADUFR-LA <b>11</b> *
-	AA-ADC06BR-ADCBR-LA <b>11</b> *	-	AA-ADC07BR-ADCBR-LA <b>11</b> *	-	AA-ADD18BR-ADDBR-LA <b>11</b> *	-	-	-
AA-ADC06FL-ADCFR-LA <b>11</b> *	-	AA-ADC07FL-ADCFR-LA <b>11</b> *	-	AA-ADD18FL-ADDFR-LA <b>11</b>	-	AA-ADU20FL-ADUFR-LA <b>11</b> *	AA-ADU21FL-ADUFR-LA <b>11</b> *	AA-ADU22FL-ADUFR-LA <b>11</b> *
-	AA-ADC06BL-ADCBR-LA <b>11</b> *	-	AA-ADC07BL-ADCBR-LA <b>11</b> *	-	AA-ADD18BL-ADDBR-LA <b>11</b> *	-	-	-
ADC-06BFFA-LL7001	ADC-06BFMA-LL7001*	ADC-07BFFA-LL7001	ADC-07BFMA-LL7001*	ADD-18BFFA-LL7001	ADD-18BFMA-LL7001	ADU-20BFFA-LL7001*	ADU-21BFFA-LL7001*	ADU-22BFFA-LL7001*
ADC-06BFFC-LL7 <b>11</b> P0	ADC-06BFMC-LL7 <b>11</b> P0*	ADC-07BFFC-LL7 <b>11</b> P0	ADC-07BFMC-LL7 <b>11</b> P0*	ADD-18BFFC-LL7 <b>11</b> P0*	ADD-18BFMC-LL7 <b>11</b> P0	ADU-20BFFC-LL7 <b>11</b> P0*	ADU-21BFFC-LL7 <b>11</b> P0*	ADU-22BFFC-LL7 <b>11</b> P0*
1DC-06BFFB-LL7 <b>11</b> PP	1DC-06BFMB-LL7001	1DC-07BFFB-LL7 <b>11</b> PP	1DC-07BFMB-LL7001	-	-	-	-	-

## Panel Cut Out



## Assemble Style



No of Contacts	8	10	12
Rated Voltage (AC/DC)	250 ~ 600V	250 ~ 600V	250 ~ 600V
Nominal Current	20A+2A	10A	20A+5A
Plastic / Metal	Plastic	Plastic	Plastic
Pin Assignment			

**STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)**  
 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	-	ADB-10BFFM-LL7A <sup>1)</sup>	-
	UL2464, PVC Jacket Male Power+Female Signal	ADCU-08BFEM-LL7B <sup>1)</sup>	-	ADCD-12BFEM-LL7A <sup>1)</sup>
	UL2464, PVC Jacket Female Power+Male Signal	ADCU-08BFDM-LL7B <sup>1)</sup>	-	ADCD-12BFDM-LL7A <sup>1)</sup>

**RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)**  
 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	-	ADB-10BFFM-LR7A <sup>1)</sup> *	-
	UL2464, PVC Jacket Male Power+Female Signal	ADCU-08BFEM-LL7B <sup>1)</sup> *	-	ADCD-12BFEM-LR7A <sup>1)</sup>
	UL2464, PVC Jacket Female Power+Male Signal	ADCU-08BFDM-LR7B <sup>1)</sup> *	-	ADCD-12BFDM-LR7A <sup>1)</sup>

**STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)**  
 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	(F) End1: Female Conn Female Contact (F) End2: Female Conn Female Contact	-	AA-ADB10FL-ADBFL-LA <sup>1)</sup>	-
	(X) End 1: Female Conn Male Power Female Signal Contact (X) End 2: Female Conn Male Power Female Signal Contact	AA-ADCU08GL-ADCUGL-LA <sup>1)</sup>	-	AA-ADCD12GL-ADCDGL-LA <sup>1)</sup>
	(W) End 1: Female Conn Female Power Male Signal Contact (W) End 2: Female Conn Female Power Male Signal Contact	AA-ADCU08AL-ADCUAL-LA <sup>1)</sup>	-	AA-ADCD12AL-ADCDAL-TA <sup>1)</sup>

**RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)**  
 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

	(F) End1: Female Conn Female Contact (F) End2: Female Conn Female Contact	-	AA-ADB10FR-ADBFR-LA <sup>1)</sup> *	-
	(X) End 1: Female Conn Male Power Female Signal Contact (X) End 2: Female Conn Male Power Female Signal Contact	AA-ADCU08XR-ADCXR-LA <sup>1)</sup> *	-	AA-ADCD12XR-ADCDXR-LA <sup>1)</sup>
	(W) End 1: Female Conn Female Power Male Signal Contact (W) End 2: Female Conn Female Power Male Signal Contact	AA-ADCU08WR-ADCWR-LA <sup>1)</sup> *	-	AA-ADCD12WR-ADCDWR-TA <sup>1)</sup>

**STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)**  
 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF

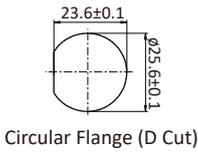
	(F) End1: Female Conn Female Contact (F) End2: Female Conn Female Contact	-	AA-ADB10FL-ADBFR-LA <sup>1)</sup> *	-
	(W) End 1: Female Conn Female Power Male Signal Contact (W) End 2: Female Conn Female Power Male Signal Contact	AA-ADCU08WL-ADCWR-LA <sup>1)</sup> *	-	AA-ADCD12WL-ADCDWR-TA <sup>1)</sup>
	(X) End 1: Female Conn Male Power Female Signal Contact (X) End 2: Female Conn Male Power Female Signal Contact	AA-ADCU08XL-ADCXR-LA <sup>1)</sup> *	-	AA-ADCD12XL-ADCDXR-LA <sup>1)</sup>

**Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)**  
 Sealing Nut Torque Value: 8 ~ 15 kgf.cm | Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

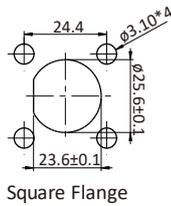
	Solder Type	-	ADB-10BFFA-LL7001*	-
	Solder Female Power+Male Signal	ADCU-08BFDA-LL7001	-	ADCD-12BFDA-LL7001
	[Hybrid] Solder Type Male Power+Female Signal	ADCU-08BFEA-LL7001	-	ADCD-12BFEA-LL7001
	Crimp Type	<b>NEW</b>	ADB-10BFFC-LL7 <sup>1)</sup> PO*	-
	Crimp Type Male Power+Female Signal	ADCU-08BFEC-LL7 <sup>1)</sup> PO*	-	ADCD-12BFEC-LL7 <sup>1)</sup> PO*
	Crimp Type Female Power+Male Signal	ADCU-08BFDC-LL7 <sup>1)</sup> PO*	-	ADCD-12BFDC-LL7 <sup>1)</sup> PO

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths  
 \* Upon Request

## Panel Cut Out



Circular Flange (D Cut)



Square Flange

## Assemble Style



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable



Screw In  
(B) Field Serviceable/Installable

No of Contacts	2			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	20A			
Plastic / Metal	Plastic		Metal	
Pin Assignment	MM	MF	MM	MF
MM : Male Connector Male Contact FF : Female Connector Female Contact MF : Male Connector Female Contact FM : Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67/IP68 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	ADC-02PMMMS-SC7001	-	-	-
	180° PCB Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	1DC-02PMMMP-SC7001	1DC-02PMFPP-SC7001	-	-

Receptacle, Square Flange, **FRONT** Fastened Nut, IP67/IP68 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	ADC-02PMMMS-SS7001	-	ADSC-02PMMMS-SS8001*	ADSC-02PMFMS-SS8001*
	180° PCB Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	1DC-02PMMMP-SS7001	-	1DSC-02PMMMP-SS8001*	1DSC-02PMFPP-SS8001*

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-02RMMMS-SC7001	-	-	-
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**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADC-02BMMM-SL7A①*	ADC-02BMFM-SL7A①*	ADSC-02BMMM-SL7A①*	ADSC-02BMFM-SL7A①*
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ADC-02BMMMA-SL7001*	ADC-02BMFA-SL7001*	-	-
	Crimp Type	ADC-02BMMMC-SL7①P0*	ADC-02BMFC-SL7①P0*	-	-
	Screw In Type	1DC-02BMMB-SL7①PP	1DC-02BMFB-SL7①P0*	-	-

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ADC02ML-ADCML-SA①*	-	AA-ADSC02ML-ADSCML-SA①*	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADC02ML-ADCFL-SA①*	-	AA-ADSC02ML-ADSCFL-SA①*	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ADC02HL-ADCHL-SA①*	-	AA-ADSC02HL-ADSCHL-SA①*
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ADC02HL-ADCBL-SA①*	-	AA-ADSC02HL-ADSCBL-SA①*

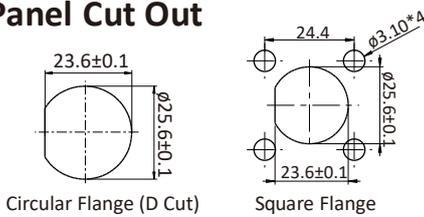
**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADC02ML-ADCFR-SA①*	-	AA-ADSC02ML-ADSCFR-SA①*	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ADC02HL-ADCBR-SA①*	-	AA-ADSC02HL-ADSCBR-SA①*

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

## Panel Cut Out



## Assemble Style



No of Contacts	3			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	20A			
Plastic / Metal	Plastic		Metal	
Pin Assignment	MM	MF	MM	MF
MM : Male Connector Male Contact FF : Female Connector Female Contact MF : Male Connector Female Contact FM : Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67/IP68 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	ADC-03PMMMS-SC7001	-	-	-
	180° PCB Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	1DC-03PMMFP-SC7001	1DC-03PMFPP-SC7001	-	-

Receptacle, Square Flange, **FRONT** Fastened Nut, IP67/IP68 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	ADC-03PMMSS-SS7001	-	ADSC-03PMMSS-SS8001*	ADSC-03PMFSS-SS8001*
	180° PCB Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	1DC-03PMMFP-SS7001	-	1DSC-03PMMFP-SS8001*	1DSC-03PMFPP-SS8001*

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-03RMMMS-SC7001	-	-	-
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**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADC-03BMMM-SL7A ①*	ADC-03BMFM-SL7A ①*	ADSC-03BMMM-SL7A ①*	ADSC-03BMFM-SL7A ①*
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ADC-03BMMMA-SL7001*	ADC-03BMFA-SL7001*	-	-
	Crimp Type	ADC-03BMMMC-SL7 ①P0*	ADC-03BMFC-SL7 ①P0*	-	-
	Screw In Type	1DC-03BMMMB-SL7 ①PP	1DC-03BMFB-SL7 ①P0*	-	-

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ADC03ML-ADCML-SA ①*	-	AA-ADSC03ML-ADSCML-SA ①*	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADC03ML-ADCFL-SA ①*	-	AA-ADSC03ML-ADSCFL-SA ①*	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ADC03HL-ADCHL-SA ①*	-	AA-ADSC03HL-ADSCHL-SA ①*
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ADC03HL-ADCBL-SA ①*	-	AA-ADSC03HL-ADSCBL-SA ①*

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADC03ML-ADCFR-SA ①*	-	AA-ADSC03ML-ADSCFR-SA ①*	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ADC03HL-ADCBR-SA ①*	-	AA-ADSC03HL-ADSCBR-SA ①*

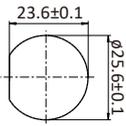
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

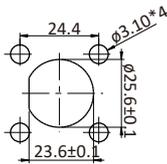
4				5			
250 ~ 600V				250 ~ 600V			
20A				20A			
Plastic		Metal		Plastic		Metal	
MM	MF	MM	MF	MM	MF	MM	MF
ADC-04PMMS-SC7001	-	-	-	ADC-05PMMS-SC7001	-	-	-
1DC-04PMMP-SC7001	1DC-04PMFP-SC7001	-	-	1DC-05PMMP-SC7001	1DC-05PMFP-SC7001	-	-
ADC-04PMMS-SS7001	-	ADSC-04PMMS-SS8001*	ADSC-04PMFS-SS8001*	ADC-05PMMS-SS7001	-	ADSC-05PMMS-SS8001*	ADSC-05PMFS-SS8001*
1DC-04PMMP-SS7001	-	1DSC-04PMMP-SS8001*	1DSC-04PMFP-SS8001*	1DC-05PMMP-SS7001	-	1DSC-05PMMP-SS8001*	1DSC-05PMFP-SS8001*
ADC-04RMMMS-SC7001	-	-	-	ADC-05RMMMS-SC7001	-	-	-
ADC-04BMMM-SL7A 11*	ADC-04BMFM-SL7A 11*	ADSC-04BMMM-SL7A 11*	ADSC-04BMFM-SL7A 11*	ADC-05BMMM-SL7A 11*	ADC-05BMFM-SL7A 11*	ADSC-05BMMM-SL7A 11*	ADSC-05BMFM-SL7A 11*
ADC-04BMMA-SL7001*	ADC-04BMFA-SL7001*	-	-	ADC-05BMMA-SL7001*	ADC-05BMFA-SL7001*	-	-
ADC-04BMMC-SL7 11P0*	ADC-04BMFC-SL7 11P0*	-	-	ADC-05BMMC-SL7 11P0*	ADC-05BMFC-SL7 11P0*	-	-
1DC-04BMMB-SL7 11PP	1DC-04BMFB-SL7 11P0*	-	-	1DC-05BMMB-SL7 11PP	1DC-05BMFB-SL7 11P0*	-	-

AA-ADC04ML-ADCML-SA 11*	-	AA-ADSC04ML-ADSCML-SA 11*	-	AA-ADSC05ML-ADSCML-SA 11*	-	AA-ADSC05ML-ADSCML-SA 11*	-
AA-ADC04ML-ADCFL-SA 11*	-	AA-ADSC04ML-ADSCML-SA 11*	-	AA-ADC05ML-ADCFL-SA 11*	-	AA-ADSC05ML-ADSCFL-SA 11*	-
-	AA-ADC04HL-ADCHL-SA 11*	-	AA-ADSC04HL-ADSCHL-SA 11*	-	AA-ADC05HL-ADCHL-SA 11*	-	AA-ADSC05HL-ADSCHL-SA 11*
-	AA-ADC04HL-ADCBL-SA 11*	-	AA-ADSC04HL-ADSCBL-SA 11*	-	AA-ADC05HL-ADCBL-SA 11*	-	AA-ADSC05HL-ADSCBL-SA 11*
AA-ADC04ML-ADCFR-SA 11*	-	AA-ADSC04ML-ADSCFR-SA 11*	-	AA-ADC05ML-ADCFR-SA 11*	-	AA-ADSC05ML-ADSCFR-SA 11*	-
-	AA-ADC04HL-ADCBR-SA 11*	-	AA-ADSC04HL-ADSCBR-SA 11*	-	AA-ADC05HL-ADCBR-SA 11*	-	AA-ADSC05HL-ADSCBR-SA 11*

## Panel Cut Out



Circular Flange (D Cut)



Square Flange

## Assemble Style



PCB 180°  
(P) Receptacle



Solder  
(S) Receptacle  
(A) Field Serviceable/Installable



Crimp  
(C) Field Serviceable/Installable



Screw In  
(B) Field Serviceable/Installable

No of Contacts	6			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	20A			
Plastic / Metal	Plastic		Metal	
Pin Assignment	MM	MF	MM	MF
MM : Male Connector Male Contact FF : Female Connector Female Contact MF : Male Connector Female Contact FM : Female Connector Male Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67/IP68 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	ADC-06PMMMS-SC7001	-	-	-
	180° PCB Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	1DC-06PMMPP-SC7001	1DC-06PMFP-SC7001	-	-

Receptacle, Square Flange, **FRONT** Fastened Nut, IP67/IP68 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	ADC-06PMMMS-SS7001	-	ADSC-06PMMMS-SS8001*	ADSC-06PMFSS-SS8001*
	180° PCB Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	1DC-06PMMPP-SS7001	-	1DSC-06PMMPP-SS8001*	1DSC-06PMFPP-SS8001*

Receptacle, Circular Flange, **REAR** Fastened Nut, IP67 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type	ADC-06RMMMS-SC7001	-	-	-
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**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)  
① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADC-06BMMM-SL7A①*	ADC-06BMFM-SL7A①*	ADSC-06BMMM-SL7A①*	ADSC-06BMFM-SL7A①*
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)  
Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

<p>(Solder) (Screw-in, Crimp) <b>NEW</b></p>	Solder Type	ADC-06BMMMA-SL7001*	ADC-06BMFA-SL7001*	-	-
	Crimp Type	ADC-06BMMCP-SL7①PO*	ADC-06BMFC-SL7①PO*	-	-
	Screw In Type	1DC-06BMMB-SL7①PP	1DC-06BMFB-SL7①PO*	-	-

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ADC06ML-ADCML-SA①*	-	AA-ADSC06ML-ADSCML-SA①*	-
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADC06ML-ADCFL-SA①*	-	AA-ADSC06ML-ADSCFL-SA①*	-
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-ADC06HL-ADCHL-SA①*	-	AA-ADSC06HL-ADSCHL-SA①*
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ADC06HL-ADCBL-SA①*	-	AA-ADSC06HL-ADSCBL-SA①*

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)  
① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF, (H) MF, (B) FM

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADC06ML-ADCFR-SA①*	-	AA-ADSC06ML-ADSCFR-SA①*	-
	End1: Male Conn Female Contact End2: Female Conn Male Contact	-	AA-ADC06HL-ADCBR-SA①*	-	AA-ADSC06HL-ADSCBR-SA①*

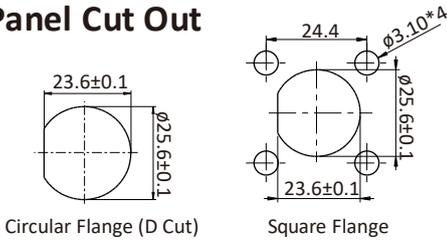
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

7				10				18			
250 ~ 600V				250 ~ 600V				250 ~ 600V			
20A				10A				5A			
Plastic		Metal		Metal		Plastic		Metal			
MM	MF	MM	MF	MM	MM	MF	MM	MF			
ADC-07PMMS-SC7001	-	-	-	ADSB-10PMMS-SS8001*	ADD-18PMMS-SC7001	ADD-18PMFS-SC7001	-	-			
1DC-07PMMP-SC7001	1DC-07PMFP-SC7001	-	-	1DSB-10PMMP-SS8001*	1DD-18PMMP-SC7001	1DD-18PMFP-SC7001	-	-			
ADC-07PMMS-SS7001	-	ADSC-07PMMS-SS8001*	ADSC-07PMFS-SS8001*	-	ADD-18PMMS-SS7001	ADD-18PMFS-SS7001	ADSD-18PMMS-SS8001*	ADSD-18PMFS-SS8001			
1DC-07PMMP-SS7001	-	1DSC-07PMMP-SS8001*	1DSC-07PMFP-SS8001*	-	-	1DD-18PMFP-SS7001	1DSD-18PMMP-SS8001*	1DSD-18PMFP-SS8001			
ADC-07RMMMS-SC7001	-	-	-	-	ADD-18RMMMS-SC7001	ADD-18RMFS-SC7001	-	-			
ADC-07BMMM-SL7A 11*	ADC-07BMFM-SL7A 11*	ADSC-07BMMM-SL7A 11*	ADSC-07BMFM-SL7A 11*	ADSB-10BMMM-SL7A 11*	ADD-18BMMM-SL7A 11*	ADD-18BMFM-SL7A 11*	ADSD-18BMMM-SL7A 11*	ADSD-18BMFM-SL7A 11*			
ADC-07BMMMA-SL7001*	ADC-07BMFA-SL7001*	-	-	-	ADD-18BMMMA-SL7001*	ADD-18BMFA-SL7001*	-	-			
ADC-07BMMC-SL7 11 P0*	ADC-07BMFC-SL7 11 P0*	-	-	-	ADD-18BMMC-SL7 11 P0*	ADD-18BMFC-SL7 11 P0*	-	-			
1DC-07BMMB-SL7 11 PP	1DC-07BMFB-SL7 11 P0*	-	-	-	-	-	-	-			

AA-ADC07ML-ADCML-SA 11*	-	AA-ADSC07ML-ADSCML-SA 11*	-	AA-ADSB10ML-ADSBML-SA 11*	AA-ADD18ML-ADDML-SA 11*	-	AA-ADSD18ML-ADSDML-SA 11*	-
AA-ADC07ML-ADCFL-SA 11*	-	AA-ADSC07ML-ADSCFL-SA 11*	-	AA-ADSB10ML-ADSBFL-SA 11*	AA-ADD18ML-ADDFL-SA 11*	-	AA-ADSD18ML-ADSDFL-SA 11*	-
-	AA-ADC07HL-ADCHL-SA 11*	-	AA-ADSC07HL-ADSCHL-SA 11*	-	-	AA-ADD18HL-ADDHL-SA 11*	-	AA-ADSD18HL-ADSDHL-SA 11*
-	AA-ADC07HL-ADCBL-SA 11*	-	AA-ADSC07HL-ADSCBL-SA 11*	-	-	AA-ADD18HL-ADDBL-SA 11*	-	AA-ADSD18HL-ADSDBL-SA 11*
AA-ADC07ML-ADCFR-SA 11*	-	AA-ADSC07ML-ADCFR-SA 11*	-	AA-ADSB10ML-ADSBFR-SA 11*	AA-ADD18ML-ADDFR-SA 11*	-	AA-ADSD18ML-ADSDFR-SA 11*	-
-	AA-ADC07HL-ADCBR-SA 11*	-	AA-ADSC07HL-ADCBR-SA 11*	-	-	AA-ADD18HL-ADDBR-SA 11*	-	AA-ADSD18HL-ADSDBR-SA 11*

## Panel Cut Out



## Assemble Style



No of Contacts	20		21	
Rated Voltage (AC/DC)	250 ~ 600V		250 ~ 600V	
Nominal Current	2A		2A	
Plastic / Metal	Plastic	Metal	Plastic	Metal
Pin Assignment	MM		MM	
MM : Male Connector Male Contact FF : Female Connector Female Contact				

Receptacle, Circular Flange, **FRONT** Fastened Nut, IP67/IP68 (Unmated)  
Nut Torque Value: 11.5 ~ 14 kgf.cm | Recommended Panel Thickness: min. 1.8mm ~ max 4.0mm

	Solder Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	ADU-20PMM S-SC7001	ADSU-20PMM S-SS8001 *	ADU-21PMM S-SC7001	ADSU-21PMM S-SS8001 *
	180° PCB Type Plastic: IP67 (Unmated) Metal: IP68 (Unmated)	1DU-20PMM P-SC7001	1DSU-20PMM P-SS8001 *	1DU-21PMM P-SC7001	1DSU-21PMM P-SS8001 *

**STRAIGHT**, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADU-20BMMM-SL7A 11*	ADSU-20BMMM-SL7A 11*	ADU-21BMMM-SL7A 11*	ADSU-21BMMM-SL7A 11*
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Field Serviceable/Installable, **STRAIGHT**, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | 11 Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	<b>NEW</b> Solder Type	ADU-20BMM A-SL7001 *	-	ADU-21BMM A-SL7001 *	-
	Crimp Type	ADU-20BMM C-SL7 11 P0 *	-	ADU-21BMM C-SL7 11 P0 *	-

**STRAIGHT-TO-STRAIGHT**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	End1: Male Conn Male Contact End2: Male Conn Male Contact	AA-ADU20ML-ADUML-SA 11*	AA-ADSU20ML-ADSUML-SA 11*	AA-ADU21ML-ADUML-SA 11*	AA-ADSU21ML-ADSUML-SA 11*
	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADU20ML-ADUFL-SA 11*	AA-ADSU20ML-ADSUFL-SA 11*	AA-ADU21ML-ADUFL-SA 11*	AA-ADSU21ML-ADSUFL-SA 11*

**STRAIGHT-TO-RIGHT ANGLE**, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (M) MM, (F) FF

	End1: Male Conn Male Contact End2: Female Conn Female Contact	AA-ADU20ML-ADUFR-SA 11*	AA-ADSU20ML-ADSUFR-SA 11*	AA-ADU21ML-ADUFR-SA 11*	AA-ADSU21ML-ADSUFR-SA 11*
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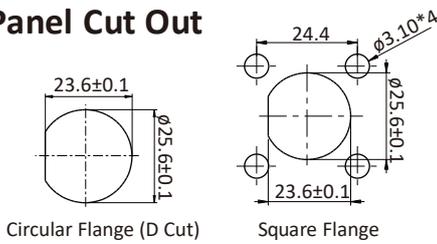
<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

22	
250 ~ 600V	
2A	
Plastic	Metal
MM	
	
ADU-22PMM5-SC7001	ADSU-22PMM5-SS8001*
1DU-22PMP-SC7001	1DSU-22PMP-SS8001*
ADU-22BMMM-SL7A <sup>11</sup> *	ADSU-22BMMM-SL7A <sup>11</sup> *
ADU-22BMM-A-SL7001*	-
ADU-22B MM-C-SL7 <sup>11</sup> PO*	-

AA-ADU22ML-ADUML-SA <sup>11</sup> *	AA-ADSU22ML-ADSUML-SA <sup>11</sup> *
AA-ADU22ML-ADUFL-SA <sup>11</sup> *	AA-ADSU22ML-ADSUFL-SA <sup>11</sup> *
AA-ADU22ML-ADUFR-SA <sup>11</sup> *	AA-ADSU22ML-ADSUFR-SA <sup>11</sup> *

## Panel Cut Out



## Assemble Style



No of Contacts	2			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	20A			
Plastic / Metal	Plastic		Metal	
Pin Assignment	FF	FM	FF	FM
FF : Female Connector Female Contact FM : Female Connector Male Contact				

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>

	UL2464, PVC Jacket	ADC-02BFFM-SL7A①	ADC-02BFMM-SL7A①*	ADSC-02BFFM-SL7A①*	ADSC-02BFMM-SL7A①
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>

	UL2464, PVC Jacket	ADC-02BFFM-SR7A①*	ADC-02BFMM-SR7A①*	ADSC-02BFFM-SR7A①*	ADSC-02BFMM-SR7A①
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADC02FL-ADCFL-SA①	-	AA-ADSC02FL-ADSCFL-SA①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADC02BL-ADCBL-SA①*	-	AA-ADSC02BL-ADSCBL-SA①

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADC02FR-ADCFR-SA①*	-	AA-ADSC02FR-ADSCFR-SA①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADC02BR-ADCBR-SA①*	-	AA-ADSC02BR-ADSCBR-SA①

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADC02FL-ADCFR-SA①*	-	AA-ADSC02FL-ADSCFR-SA①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADC02BL-ADCBR-SA①*	-	AA-ADSC02BL-ADSCBR-SA①

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

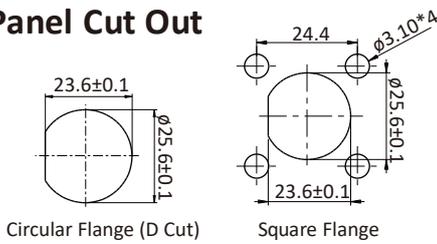
(Solder)   (Screw-in, Crimp) 	Solder Type	ADC-02BFFA-SL7001	ADC-02BFMA-SL7001*	-	-
	Crimp Type	NEW ADC-02BFFC-SL7①P0	ADC-02BFMC-SL7①P0*	-	-
	Screw In Type	NEW 1DC-02BFFB-SL7①PP	1DC-02BFMB-SL7001	-	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

3				4			
250 ~ 600V				250 ~ 600V			
20A				20A			
Plastic		Metal		Plastic		Metal	
FF	FM	FF	FM	FF	FM	FF	FM
ADC-03BFFM-SL7A 11	ADC-03BFMM-SL7A 11*	ADSC-03BFFM-SL7A 11*	ADSC-03BFMM-SL7A 11	ADC-04BFFM-SL7A 11	ADC-04BFMM-SL7A 11*	ADSC-04BFFM-SL7A 11*	ADSC-04BFMM-SL7A 11
ADC-03BFFM-SR7A 11	ADC-03BFMM-SR7A 11*	ADSC-03BFFM-SR7A 11*	ADSC-03BFMM-SR7A 11	ADC-04BFFM-SR7A 11	ADC-04BFMM-SR7A 11*	ADSC-04BFFM-SR7A 11*	ADSC-04BFMM-SR7A 11
AA-ADC03FL-ADCFL-SA 11	-	AA-ADSC03FL-ADSCFL-SA 11*	-	AA-ADC04FL-ADCFL-SA 11	-	AA-ADSC04FL-ADSCFL-SA 11*	-
-	AA-ADC03BL-ADCBL-SA 11*	-	AA-ADSC03BL-ADSCBL-SA 11	-	AA-ADC04BL-ADCBL-SA 11*	-	AA-ADSC04BL-ADSCBL-SA 11
AA-ADC03FR-ADCFR-SA 11*	-	AA-ADSC03FR-ADSCFR-SA 11*	-	AA-ADC04FR-ADCFR-SA 11*	-	AA-ADSC04FR-ADSCFR-SA 11*	-
-	AA-ADC03BR-ADCBR-SA 11*	-	AA-ADSC03BR-ADSCBR-SA 11	-	AA-ADC04BR-ADCBR-SA 11*	-	AA-ADSC04 BR-ADSCBR-SA 11
AA-ADC03FL-ADCFR-SA 11*	-	AA-ADSC03FL-ADSCFR-SA 11*	-	AA-ADC04FL-ADCFR-SA 11*	-	AA-ADSC04FL-ADSCFR-SA 11*	-
-	AA-ADC03BL-ADCBR-SA 11*	-	AA-ADSC03BL-ADSCBR-SA 11	-	AA-ADC04BL-ADCBR-SA 11*	-	AA-ADSC04 BL-ADSCBR-SA 11
ADC-03BFFA-SL7001	ADC-03BFMA-SL7001*	-	-	ADC-04BFFA-SL7001	ADC-04BFMA-SL7001*	-	-
ADC-03BFFC-SL7 11 P0	ADC-03BFMC-SL7 11 P0*	-	-	ADC-04BFFC-SL7 11 P0	ADC-04BFMC-SL7 11 P0*	-	-
1DC-03BFFB-SL7 11 PP	1DC-03BFMB-SL7001	-	-	1DC-04BFFB-SL7 11 PP	1DC-04BFMB-SL7001	-	-

## Panel Cut Out



## Assemble Style



No of Contacts	5			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	20A			
Plastic / Metal	Plastic		Metal	
Pin Assignment	FF	FM	FF	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact				

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADC-05BFFM-SL7A 11	ADC-05BFMM-SL7A 11 *	ADSC-05BFFM-SL7A 11 *	ADSC-05BFMM-SL7A 11
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

11 Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADC-05BFFM-SR7A 11 *	ADC-05BFMM-SR7A 11 *	ADSC-05BFFM-SR7A 11 *	ADSC-05BFMM-SR7A 11
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADC05FL-ADCFL-SA 11	-	AA-ADSC05FL-ADSCFL-SA 11 *	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADC05BL-ADCBL-SA 11 *	-	AA-ADSC05BL-ADSCBL-SA 11

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADC05FR-ADCFR-SA 11 *	-	AA-ADSC05FR-ADSCFR-SA 11 *	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADC05BR-ADCBR-SA 11 *	-	AA-ADSC05BR-ADSCBR-SA 11

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADC05FL-ADCFR-SA 11 *	-	AA-ADSC05FL-ADSCFR-SA 11 *	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADC05BL-ADCBR-SA 11 *	-	AA-ADSC05BL-ADSCBR-SA 11

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | 11 Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

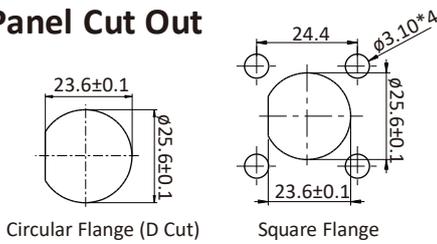
	Solder Type	ADC-05BFFA-SL7001	ADC-05BFMA-SL7001*	-	-
	Crimp Type	ADC-05BFFC-SL7 11 P0	ADC-05BFMC-SL7 11 P0*	-	-
	Screw In Type	1DC-05BFFB-SL7 11 PP	1DC-05BFMB-SL7001	-	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

6				7				10
250 ~ 600V				250 ~ 600V				250 ~ 600V
20A				20A				10A
Plastic		Metal		Plastic		Metal		Metal
FF	FM	FF	FM	FF	FM	FF	FM	FF
ADC-06BFFM-SL7A 11	ADC-06BFMM-SL7A 11*	ADSC-06BFFM-SL7A 11*	ADSC-06BFMM-SL7A 11	ADC-07BFFM-SL7A 11	ADC-07BFMM-SL7A 11*	ADSC-07BFFM-SL7A 11*	ADSC-07BFMM-SL7A 11	ADSB-10BFFM-SL7A 11*
ADC-06BFFM-SR7A 11*	ADC-06BFMM-SR7A 11*	ADSC-06BFFM-SR7A 11*	ADSC-06BFMM-SR7A 11	ADC-07BFFM-SR7A 11*	ADC-07BFMM-SR7A 11*	ADSC-07BFFM-SR7A 11*	ADSC-07BFMM-SR7A 11	ADSB-10BFFM-SR7A 11*
AA-ADC06FL-ADCFL-SA 11	-	AA-ADSC06FL-ADSCFL-SA 11*	-	AA-ADC07FL-ADCFL-SA 11	-	AA-ADSC07FL-ADSCFL-SA 11*	-	AA-ADSB10FL-ADSBFL-SA 11*
-	AA-ADC06BL-ADCBL-SA 11*	-	AA-ADSC06BL-ADSCBL-SA 11	-	AA-ADC07BL-ADCBL-SA 11*	-	AA-ADSC07BL-ADSCBL-SA 11	-
AA-ADC06FR-ADCFR-SA 11*	-	AA-ADSC06FR-ADSCFR-SA 11*	-	AA-ADC07FR-ADCFR-SA 11*	-	AA-ADSC07FR-ADSCFR-SA 11*	-	AA-ADSB10FR-ADSBFR-SA 11*
-	AA-ADC06BR-ADCBR-SA 11*	-	AA-ADSC06BR-ADSCBR-SA 11	-	AA-ADC07BR-ADCBR-SA 11*	-	AA-ADSC07BR-ADSCBR-SA 11	-
AA-ADC06FL-ADCFR-SA 11*	-	AA-ADSC06FL-ADSCFR-SA 11*	-	AA-ADC07FL-ADCFR-SA 11*	-	AA-ADSC07FL-ADSCFR-SA 11*	-	AA-ADSB10FL-ADSBFR-SA 11*
-	AA-ADC06BL-ADCBR-SA 11*	-	AA-ADSC06BL-ADSCBR-SA 11	-	AA-ADC07BL-ADCBR-SA 11*	-	AA-ADSC07BL-ADSCBR-SA 11	-
ADC-06BFFA-SL7001	ADC-06BFMA-SL7001*	-	-	ADC-07BFFA-SL7001	ADC-07BFMA-SL7001*	-	-	-
ADC-06BFFC-SL7 11 P0	ADC-06BFMC-SL7 11 P0*	-	-	ADC-07BFFC-SL7 11 P0	ADC-07BFMC-SL7 11 P0*	-	-	-
1DC-06BFFB-SL7 11 PP	1DC-06BFMB-SL7001	-	-	1DC-07BFFB-SL7 11 PP	1DC-07BFMB-SL7001	-	-	-

## Panel Cut Out



## Assemble Style



Solder



Crimp

(A) Field Serviceable/Installable (C) Field Serviceable/Installable

No of Contacts	18			
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	5A			
Plastic / Metal	Plastic		Metal	
Pin Assignment	FF	FM	FF	FM
FF: Female Connector Female Contact FM: Female Connector Male Contact				

### STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADD-18BFFM-SL7A ①①	ADD-18BFMM-SL7A ①①	ADSD-18BFFM-SL7A ①①*	ADSD-18BFMM-SL7A ①①
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### RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)

① Cable Length: (01) 1M ~ (99) 99M<sup>1)</sup>

	UL2464, PVC Jacket	ADD-18BFFM-SR7A ①①	ADD-18BFMM-SR7A ①①*	ADSD-18BFFM-SR7A ①①*	ADSD-18BFMM-SR7A ①①
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### STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADD18FL-ADDFL-SA ①①	-	AA-ADSD18FL-ADSDFL-SA ①①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADD18BL-ADDBL-SA ①①	-	AA-ADSD18BL-ADSDBL-SA ①①

### RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADD18FR-ADDFR-SA ①①	-	AA-ADSD18FR-ADSDFR-SA ①①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADD18BR-ADDBR-SA ①①*	-	AA-ADSD18BR-ADSDBR-SA ①①

### STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M<sup>1)</sup> | Connector / Contact Gender: (F) FF, (B) FM

	End1: Female Conn Female Contact End2: Female Conn Female Contact	AA-ADD18FL-ADDFR-SA ①①	-	AA-ADSD18FL-ADSDFR-SA ①①*	-
	End1: Female Conn Male Contact End2: Female Conn Male Contact	-	AA-ADD18BL-ADDBR-SA ①①*	-	AA-ADSD18BL-ADSDBR-SA ①①

### Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)

Sealing Nut Torque Value: 8 ~ 15 kgf.cm | ① Seal Color: (A) All Seals, (S) Red, OD 5.0~6.0mm, (M) Yellow, OD 6.0~8.0mm, (L) Blue, OD 8.0~10.0mm

	Solder Type	ADD-18BFFA-SL7001	ADD-18BFMA-SL7001	-	-
	Crimp Type	ADD-18BFFC-SL7 ①① PO*	ADD-18BFMC-SL7 ①① PO	-	-

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

\* Upon Request

20		21		22	
250 ~ 600V		250 ~ 600V		250 ~ 600V	
2A		2A		2A	
Plastic	Metal	Plastic	Metal	Plastic	Metal
FF		FF		FF	
ADU-20AFFM-SL7A 11	ADSU-20BFFM-SL7A 11*	ADU-21AFFM-SL7A 11	ADSU-21BFFM-SL7A 11*	ADU-22AFFM-SL7A 11	ADSU-22BFFM-SL7A 11*
ADU-20BFFM-SR7A 11*	ADSU-20BFFM-SR7A 11*	ADU-21BFFM-SR7A 11*	ADSU-21BFFM-SR7A 11*	ADU-22BFFM-SR7A 11*	ADSU-22BFFM-SR7A 11*
AA-ADU20FL-ADUFL-SA 11	AA-ADSU20FL-ADSUFL-SA 11*	AA-ADU21FL-ADUFL-SA 11	AA-ADSU21FL-ADSUFL-SA 11*	AA-ADU22FL-ADUFL-SA 11	AA-ADSU22FL-ADSUFL-SA 11*
-	-	-	-	-	-
AA-ADU20FR-ADUFR-SA 11*	AA-ADSU20FR-ADSUFR-SA 11*	AA-ADU21FR-ADUFR-SA 11*	AA-ADSU21FR-ADSUFR-SA 11*	AA-ADU22FR-ADUFR-SA 11*	AA-ADSU22FR-ADSUFR-SA 11*
-	-	-	-	-	-
AA-ADU20FL-ADUFR-SA 11*	AA-ADSU20FL-ADSUFR-SA 11*	AA-ADU21FL-ADUFR-SA 11*	AA-ADSU21FL-ADSUFR-SA 11*	AA-ADU22FL-ADUFR-SA 11*	AA-ADSU22FL-ADSUFR-SA 11*
-	-	-	-	-	-
ADU-20BFFA-SL7001*	-	ADU-21BFFA-SL7001*	-	ADU-22BFFA-SL7001*	-
ADU-20BFFC-SL7 11 P0*	-	ADU-21BFFC-SL7 11 P0*	-	ADU-22BFFC-SL7 11 P0*	-

## Dust Cap



With Rubber Lead

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
Large Size	Receptacle	Cover	Male	With Rubber Lead	CAP-DADMDPC1

## Waterproof Cap

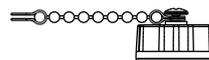
For Mating with Male Connector



None



With Rubber Lead

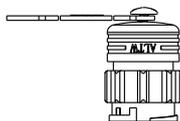


With Chain

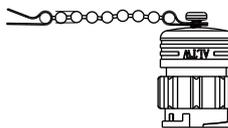
For Mating with Female Connector



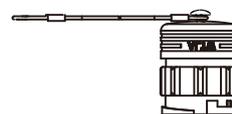
None



With Rubber Lead



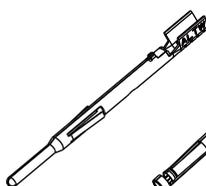
With Chain



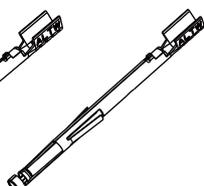
With Fish Line

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
Large Size	Receptacle	Screw Thread	Male	With Chain	CAP-WADMSPB1
		Screw Thread	Male	With Rubber Lead	CAP-WADMSPC1
		2 Points Lock	Female	With Rubber Lead	CAP-WADFLPC1
		2 Points Lock	Male	With Chain	CAP-WADMLPB1
		2 Points Lock	Female	With Chain	CAP-WADFLPB1
	Overmolded With Cable & Field Serviceable/Installable	Screw Thread	Male	None	CAP-WADMSMA1
		2 Points Lock	Male	None	CAP-WADMLMA1
		2 Points Lock	Female	None	CAP-WADFLMA1
		2 Points Lock	Female	With Fish Line	CAP-WADFLMD1

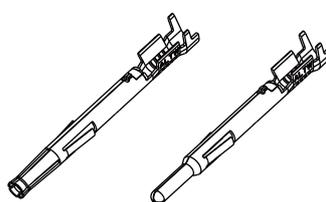
## Contacts & Crimp Tool



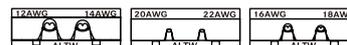
5A



10A/20A

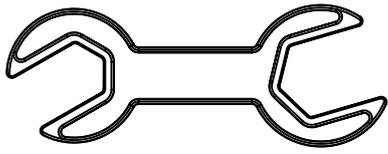


Crimp Tool



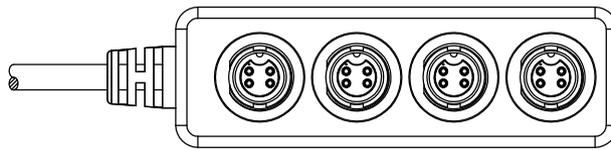
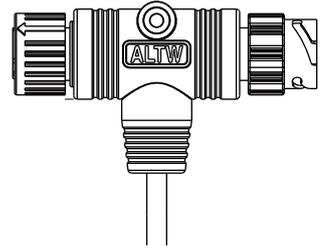
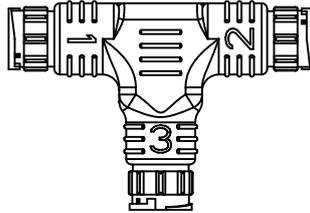
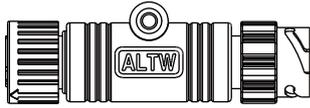
Nominal Current	Contact Gender	Part Number	Packages <sup>6</sup>	Crimp Tool
5A	Male	ASSP-05-M-A-C- <sup>6</sup>	<b>(SA)</b> 50pcs / Box <b>(SB)</b> 100pcs / Box <b>(RE)</b> 5A 3,000pcs / Reel 10A 3,000pcs / Reel 20A 2,000pcs / Reel	ASST-C-05-W-A (22 ~ 20AWG   0.34 ~ 0.50mm <sup>2</sup> )
	Female	ASSP-05-F-A-C- <sup>6</sup>		ASST-C-10-W-B (18 ~ 16AWG   1.50 ~ 0.75mm <sup>2</sup> )
10A	Male	ASSP-10-M-A-C- <sup>6</sup>		ASST-C-20-W-C (14 ~ 12AWG   2.50 ~ 4.00mm <sup>2</sup> )
	Female	ASSP-10-F-A-C- <sup>6</sup>		
20A	Male	ASSP-20-M-A-C- <sup>6</sup>		
	Female	ASSP-20-F-A-C- <sup>6</sup>		

## Wrench



Part Number: TOL-222901

## Customization - Upon Request





# Macro E Size & Other Sizes

No of Contacts	4	8	
Rated Voltage (AC/DC)	250V	205V	
Nominal Current	10A	10A+5A	
Size	MAB	GBD	
Plastic / Metal	Plastic	Plastic	
Pin Assignment	MF/FM	MM/FF	
<b>MM:</b> Male Connector Male Contact <b>FF:</b> Female Connector Female Contact <b>MF:</b> Male Connector Female Contact <b>FM:</b> Female Connector Male Contact			
<b>MAB: Lock Bayonet (2 Points)</b>			
<b>STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)</b>			
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>			
	UL2464, PVC Jacket	MAB-04AMFM-LL7A <sup>⑪</sup>	-
<b>STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>			
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: <b>(H)</b> MF, <b>(B)</b> FM			
	M Conn F Contact To M Conn F Contact	-	AA-MAB08HL-MABHL-LA <sup>⑪</sup>
	End1: Male Conn Female Contact End2: Male Conn Female Contact	-	AA-MAB08HL-MABBL-LA <sup>⑪</sup>
<b>STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)</b>			
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>			
	UL2464, PVC Jacket	MAB-04AFMM-LL7A <sup>⑪</sup>	-
<b>STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>			
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: <b>(B)</b> FM			
	End1: Female Conn Male Contact End2: Female Conn Male Contact	AA-MAB04BL-MABBL-LA <sup>⑪</sup>	-
<b>GBD: Lock Bayonet (3 Points)</b>			
<b>STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)</b>			
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>			
	UL2464, PVC Jacket	-	GBD-08BMMM-TL7A <sup>⑪</sup>
<b>STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>			
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: <b>(M)</b> MM, <b>(F)</b> FF			
	End1: Male Conn Male Contact End2: Male Conn Male Contact	-	AA-GBD08ML-GBDML-TA <sup>⑪</sup>
	End1: Male Conn Male Contact End2: Female Conn Female Contact	-	AA-GBD08ML-GBDFL-TA <sup>⑪</sup>
<b>STRAIGHT, Overmolded Cable Assembly, Free Cable End, Without Strain Relief, IP67 (Mated)</b>			
⑪ Cable Length: (01) 1M ~ (99) 99M <sup>1)</sup>			
	UL2464, PVC Jacket	-	GBD-08BFFM-TL7A <sup>⑪</sup>
<b>STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)</b>			
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M <sup>1)</sup>   Connector / Contact Gender: <b>(F)</b> FF			
	End1: Female Conn Female Contact End2: Female Conn Female Contact	-	AA-GBD08FL-GBDFL-TA <sup>⑪</sup>

<sup>1)</sup> Standard Lengths: 1M, 2M, 3M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

## Dust Cap



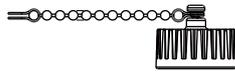
With Rubber Lead

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
PLD	Receptacle	Cover	Male	With Rubber Lead	CAP-DPLMDPC1

## Waterproof Cap



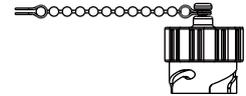
None



With Chain



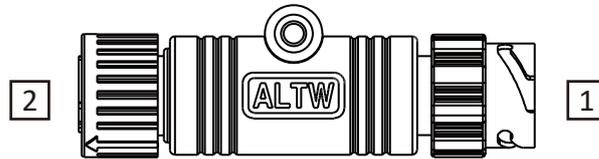
None



With Chain

Size	Mating Part	Mating Style	Gender of Mating Part	Attachment	Part Number
GBD	Receptacle	3 Points Lock	Male	With Chain	CAP-WEBMTPB1
		3 Points Lock	Female	With Chain	CAP-WEBFTPB1
	Overmolded With Cable & Field Serviceable/Installable	3 Points Lock	Male	None	CAP-WEBMTMA1
		3 Points Lock	Female	None	CAP-WEBFTMA1

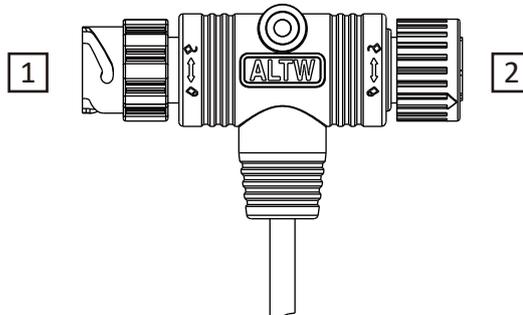
## I Adaptor



- 6 For Connector 1
- 7 For Connector 2
- Connector Gender / Contact Gender
- Male / Male (M)
- Female / Female (F)

Size	Nominal Current	No. of Contacts	Mating Style
			Screw Thread
GBD	10A+5A	08	GA-000808-0 6 7 -IT001

## T Cable



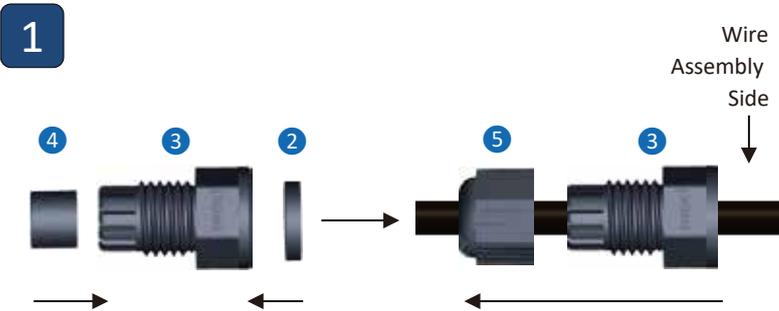
- 5 For Connector 1
- 6 For Connector 2
- Connector Gender / Contact Gender
- Male / Male (M)
- Female / Female (F)

Size	Nominal Current	No. of Contacts	Mating Style
			3 Points Lock
GBD	10A+5A	08	GA-080800- 5 6 0-TTAXX

\* XX: Choose the cable length: (01) 1M ~ (99) 99M / PVC UL2464 Cable



Nominal Current	2A	5A	10A	20A
Wire Range	26 ~ 24 AWG (0.14 ~ 0.25mm <sup>2</sup> )	24 ~ 20 AWG (0.25 ~ 0.50mm <sup>2</sup> )	20 ~ 16 AWG (0.50 ~ 1.50mm <sup>2</sup> )	16 ~ 12 AWG (0.50 ~ 4.00mm <sup>2</sup> )
Cable O.D. (Unit: mm)	<b>Mini &amp; Standard Size</b> 4.5 ~ 6.5 <b>Middle Size</b> 4.0 ~ 9.6 <b>Large Size</b> 5.5 ~ 10.8		<b>Mini &amp; Standard Size</b> 4.5 ~ 6.5 <b>Middle Size</b> 4.0 ~ 9.6	<b>Middle Size</b> 4.0 ~ 9.6 <b>Large Size</b> 5.5 ~ 10.8

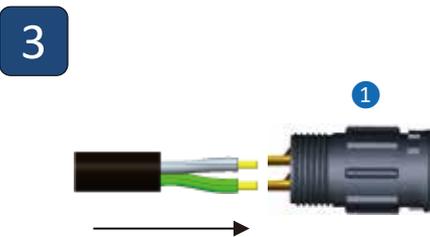


Pre-assemble ④ & ② into ③.  
Follow the order from ⑤ to ③ and put components through cable accordingly, no need to assemble here.

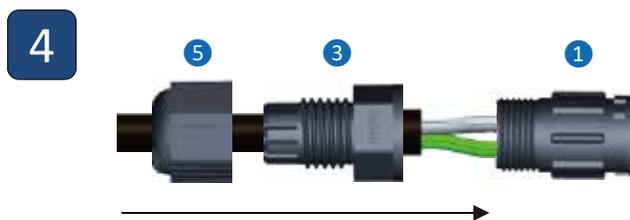


(Unit: mm)	(A) Jacket	(B) Insulation
<b>Mini Size</b>	8.0 ~ 12.0	3.0 ~ 4.0
<b>Standard Size</b>	11.0 ~ 15.0	3.0 ~ 4.0
<b>Middle Size</b>	14.0 ~ 18.0	3.0 ~ 4.0
<b>Large Size</b>	17.0 ~ 21.0	3.0 ~ 4.0

Follow suggested stripping length of (A) Jacket, (B) Insulation.

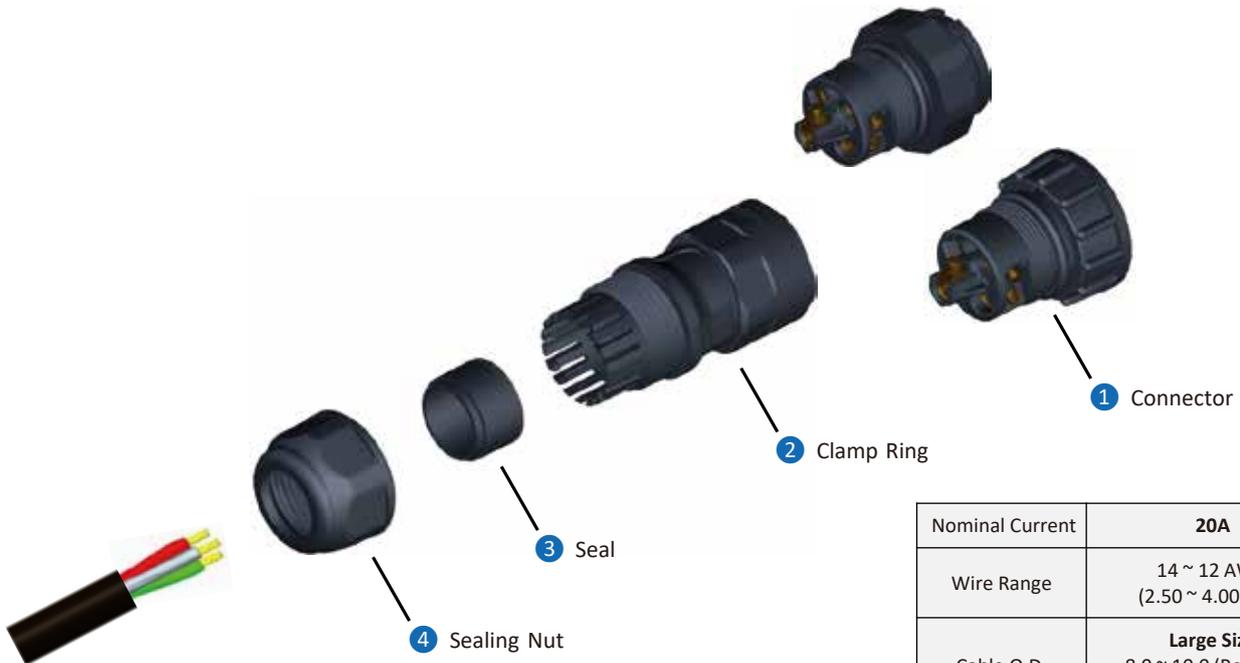


Solder wires onto contacts.

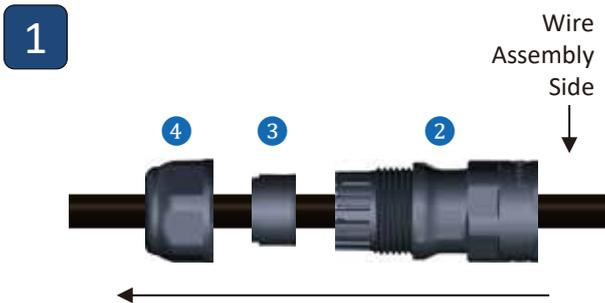


Follow the order ③ → ①, ⑤ → ③ to assemble all components.  
And tighten ① & ③, ③ & ⑤ with suggested torque force.

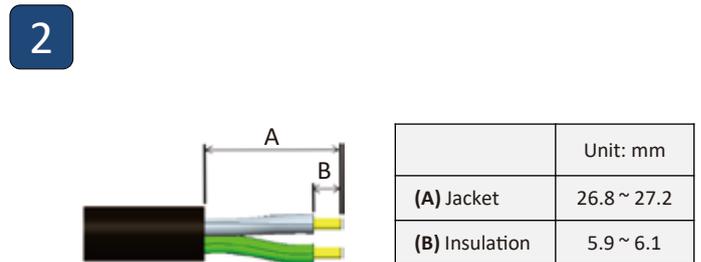
	① & ③ & ⑤
Torque Force (Unit: kgf-cm)	6.0 ~ 8.0



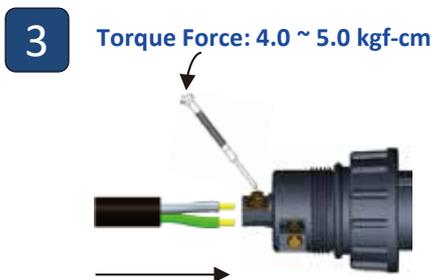
Nominal Current	<b>20A</b>
Wire Range	14 ~ 12 AWG (2.50 ~ 4.00mm <sup>2</sup> )
Cable O.D. (Unit: mm)	<b>Large Size</b> 8.0 ~ 10.0 (Red Seal) 10.1 ~ 12.0 (Yellow Seal) 12.1 ~ 14.0 (Blue Seal)



Follow the order from ④ to ② and put components through cable accordingly, no need to assemble here.



Follow suggested stripping length of (A) Jacket, (B) Insulation.

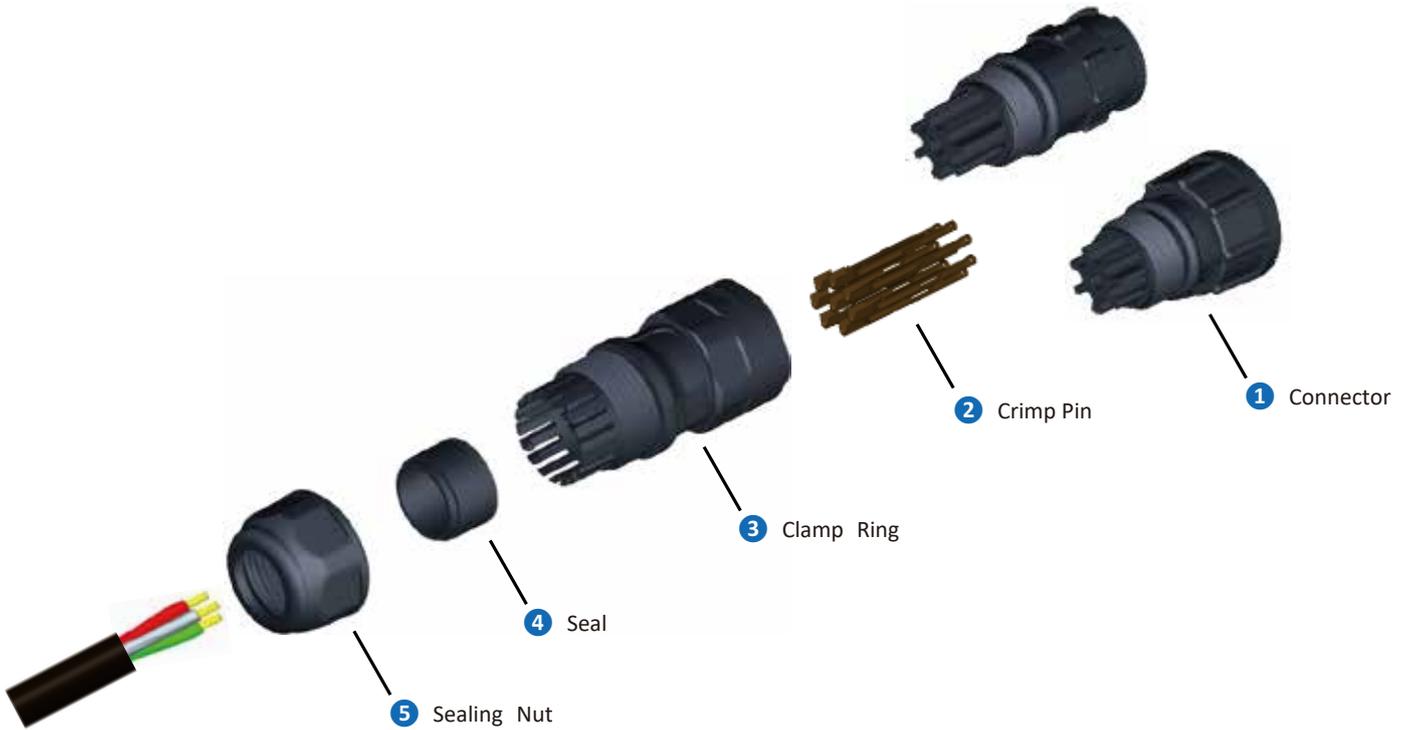


Insert wires into contacts until the conductors are completely covered. Then tighten the screw by screw driver.



Follow the order ② → ①, ④ → ② to assemble all components. And tighten ① & ②, ② & ④ with suggested torque force.

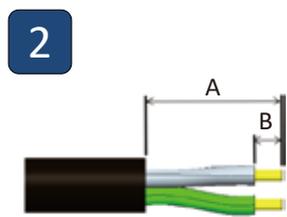
	① & ②	② & ④
Torque Force (Unit: kgf-cm)	6.0 ~ 8.0	8.0 ~ 15.0



Nominal Current	5A		10A	20A	
Wire Range	22 ~ 20 AWG (0.34 ~ 0.50mm <sup>2</sup> )		18 ~ 16 AWG (0.75 ~ 1.50mm <sup>2</sup> )	14 ~ 12 AWG (2.50 ~ 4.00mm <sup>2</sup> )	
Cable O.D. (Unit: mm)	<b>Standard &amp; Middle Size</b> 5.0 ~ 6.0 (Red Seal) 6.1 ~ 8.0 (Yellow Seal) 8.1 ~ 10.0 (Blue Seal)	<b>Large Size</b> 8.0 ~ 10.0 (Red Seal) 10.0 ~ 12.0 (Yellow Seal) 12.0 ~ 14.0 (Blue Seal)	<b>Middle Size</b> 5.0 ~ 6.0 (Red Seal) 6.1 ~ 8.0 (Yellow Seal) 8.1 ~ 10.0 (Blue Seal)	<b>Middle Size</b> 5.0 ~ 6.0 (Red Seal) 6.1 ~ 8.0 (Yellow Seal) 8.1 ~ 10.0 (Blue Seal)	<b>Large Size</b> 8.0 ~ 10.0 (Red Seal) 10.0 ~ 12.0 (Yellow Seal) 12.0 ~ 14.0 (Blue Seal)

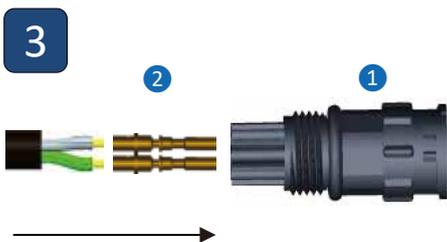


Follow the order from 5 to 3 and put components through cable accordingly, no need to assemble here.



(Unit: mm)	(A) Jacket	(B) Insulation
5A	16.0 ~ 18.0	3.5 ~ 4.0
10A	16.0 ~ 18.0	5.0 ~ 5.5
20A	18.0 ~ 20.0	5.0 ~ 5.5

Follow suggested stripping length of (A) Jacket, (B) Insulation.



Terminate conductors onto crimp contacts and insert them into 1 until you hear click sound.



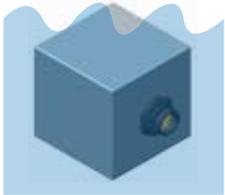
Follow the order 3 → 1, 4 → 3, 5 → 3 to assemble all components. And tighten 1 & 3, 3 & 5 with suggested torque force.

	1 & 3	3 & 5
Torque Force (Unit: kgf-cm)	6.0 ~ 8.0	8.0 ~ 15.0

# Ingress Protection (IP) Rating Guide

## Waterproof Definition

### Unmated Waterproof



Standalone waterproof or waterproof is assured even without its counterpart. The water will not go through the inner portion of the exposed connector as it is entirely sealed.

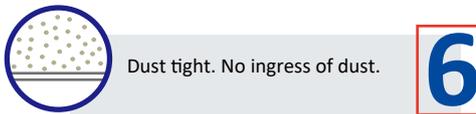
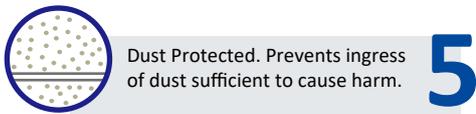
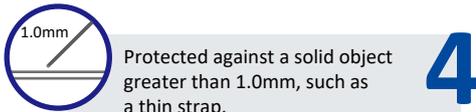
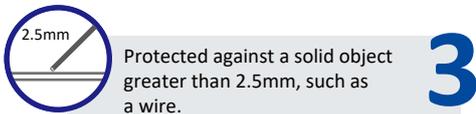
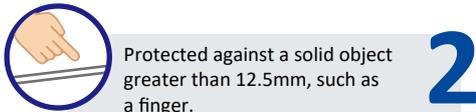
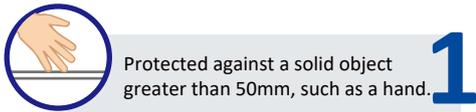
### Mated Waterproof



Waterproof is only assured when mated and locked tightly to its counterpart.

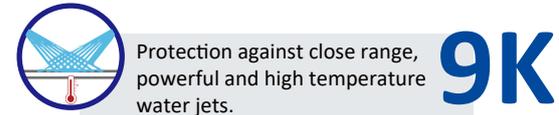
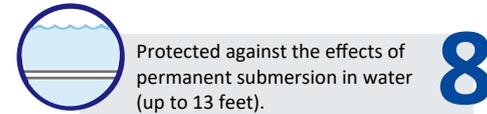
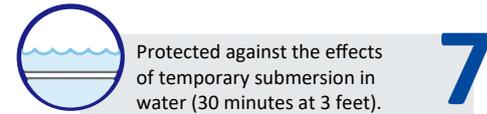
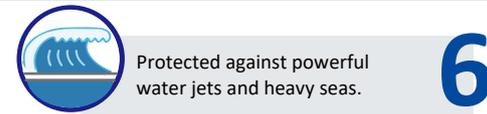
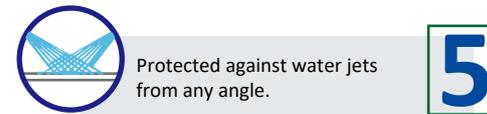
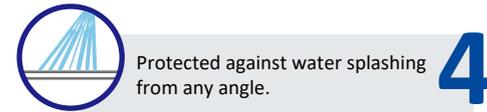
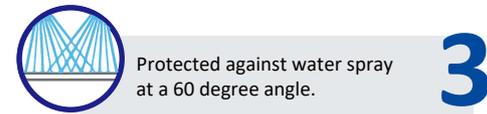
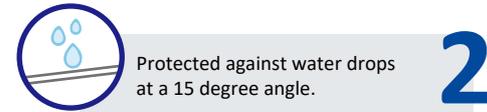
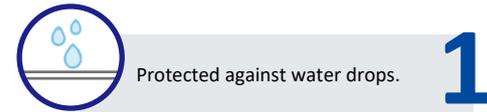
#### 1st Digit - SOLIDS

Degree of protection against solid objects



#### 2nd Digit - LIQUIDS

Degree of protection against water



Example:



**IP 65**

Protected against water jets from any angle.

Dust tight. No ingress of dust.

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## Amphenol LTW Technology Co., Ltd.

5F-3, No.51, Sec.4, Zhongyang Rd., Tucheng Dist., New Taipei City 236 Taiwan

Telephone : +886-2-7741-6888 Fax : +886-2-7741-6999

Email : sales@ltw-tech.com Web: amphenolltw.com

## Kunshan Factory

No.62, DaTong Road, Development Zone, Kunshan City, JiangSu Province 215333 China

Telephone : +86-512-5761-0501 Fax : +86-512-5761-0515

## For further information, please contact :

Luc Kan | Sales and Marketing

Email : luc@ltw-tech.com

