

# Amphenol LTW Innovation in Waterproof Solution



**CATALOGUE** 

# **Power Connector**



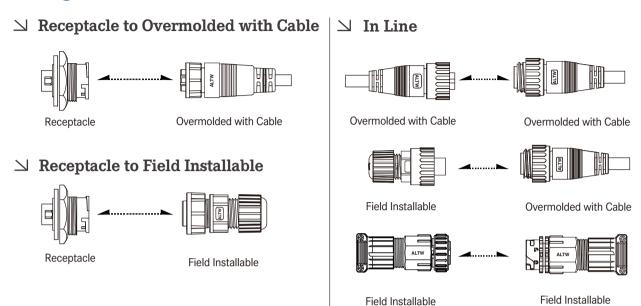




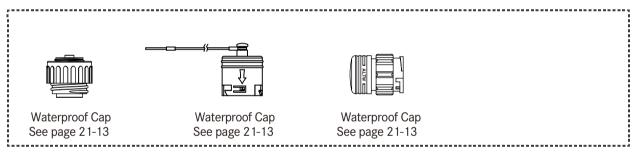




# **Range Overview**



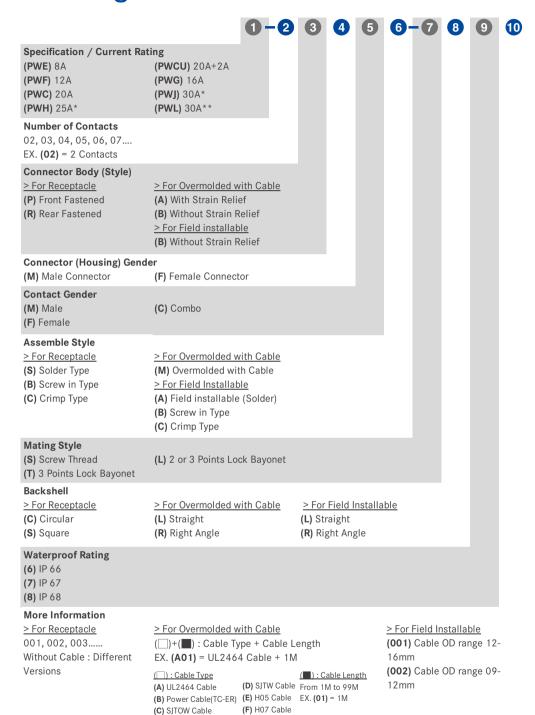
#### △ Accessories



# **Specification**

Identifications	Power Connector
Description	Receptacle Overmolded with Cable Field Installable
Current Rating / Data	8A, 12A, 16A, 20A, 25A, 30A, 10A+2A, 20A+2A
Material	Contacts: Copper Alloy, Gold Plated Connector Body (Housing) : Nylon+GF, UL Recognized, PPE
Waterproof Rating	IP66~68
Temperature Range	Receptacle: -40°C ~ +105°C  Overmolded with Cable: -20°C ~ +80°C  Field Installable: -40°C ~ +105°C
Contact Resistance	$\leq 5 \text{m}\Omega$
Insulation Resistance	$\geq 100 M\Omega$ at DC500V
Durability	500 cycles
Breakdown Voltage	≥ AC1000V / 1 minute
More to know	Standard Cable Length: 01~99M

# **Ordering Information**



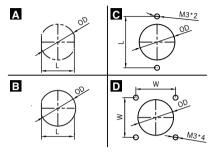
<sup>\*</sup> Recommended For Inverter Application

<sup>\*\*</sup> Recommended For LED Application

# **Physical Dimension**

# **△** Receptacle Cut-Out

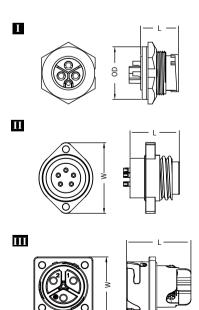
Panel Cut-Out



Connector(Housing) Gender Current Ranting*		L/W	OD	L/W	OD
Connector Gender	Туре	Ma	ale	e Fem	
8A <b>(PWE)</b>	С	31.1	21.55	31.1	21.55
12A <b>(PWF)</b>	С	31.1	21.55	31.1	21.55
16A <b>(PWG)</b>	С	31.1	21.60	31.1	21.60
20A <b>(PWC)</b>	В	19.4	20.80	-	-
054 (8)4(1)	В	30.2	32.00	-	-
25A <b>(PWH)</b>	А	23.2	25.20	-	-
20A+2A <b>(PWCU)</b>	В	19.4	20.80	-	-
30A <b>(PWL)</b>	D	23.0	23.00	-	-
30A <b>(PWJ)</b>	А	23.2	25.20	-	-

Unit: mm

#### **Connector Dimension**

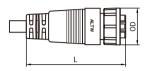


Connector(Housing)						Recommend
Gender		L		OD / W		Panel
Current Ranting*	Туре					Thickness
Connector Gender		Female	Male	Female	Male	Female & Male
8A <b>(PWE)</b>	II	27.50	26.50	38.00	38.00	-
12A <b>(PWF)</b>	II	27.50	26.50	38.00	38.00	-
16A <b>(PWG)</b>	II	32.40	31.00	38.00	38.00	-
20A <b>(PWC)</b>	I	-	18.00	-	25.00	4.5 mm Max.
25 A ( <b>DW</b> H)	т	-	55.00	-	40.00	5.0 mm Max
25A <b>(PWH)</b>	I	-	47.00	-	35.00	0.5~8 mm
20A+2A <b>(PWCU)</b>	I	-	18.00	-	25.00	4.5 mm Max.
30A <b>(PWL)</b>	III	-	34.60	-	31.80	-
30A <b>(PWJ)</b>	I	-	47.00	-	35.00	0.5~8 mm

Unit: mm

<sup>\*</sup>Current rating represents a maximum value for a largest wire size recommended for use.

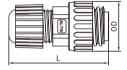
#### □ Overmolded with Cable



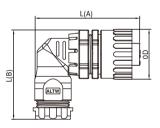
Connector(Housing) Gender	L	-	OD	
Current Ranting*	Female	Male	Female	Male
8A <b>(PWE)</b>	70.3	72.0	30.2	30.2
12A <b>(PWF)</b>	70.3	72.0	30.2	30.2
20A <b>(PWC)</b>	60.0	65.5	22.2 (L)** 23.0 (T)**	18.0
25A <b>(PWH)</b>	91.55	100.4	40.0	31.75
20A+2A <b>(PWCU)</b>	60.0	65.5	22.2	18.0

\*\* (L) 2 Points Lock Bayonet | (T) 3 Points Lock Bayonet

## □ Field Installable



(See 3rd top-right hand chart)



(See bottom right hand chart)

Connector(Housing)	L		OI	)
Gender Current Ranting*	Female	Male	Female	Male
8A (PWE)	60.7	60.4	30.2	30.2
12A <b>(PWF)</b>	60.7	60.4	30.2	30.2
16A <b>(PWG)</b>	67.0	67.0	30.2	30.2
20A (PWC)	48.15	-	22.2	-
20A+2A ( <b>PWCU</b> )	88.4	91.0	33.0	26.9
20A+2A (PWCO)	48.15	-	22.2	-
25A <b>(PWH)</b>	87.4	84.1	38.0	38.0
30A (PWL)	92.14	-	35.2	-
30A (PWJ)	87.4	84.1	38.0	38.0

Connector(Housing) Gender	L [A]	L [B]	OD
Current Ranting	Female / Male	Female / Male	Female / Male
16A <b>(PWG)</b>	62.0	54.0	30.2

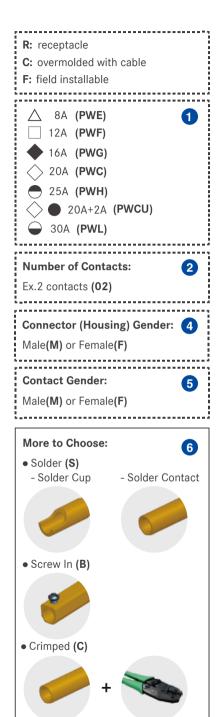
Unit: mm

<sup>\*</sup>Current rating represents a maximum value for a largest wire size recommended for use. [Note] Design and specification are subject to change without notice.

# **Contact Configuration**

	8A <b>(PWE)</b>		12A <b>(PWF)</b>		16A <b>(PWG)</b>		20A <b>(PWC)</b>	
45	MM or FF	MF or FM	MM or FF	MF or FM	MM or FF	MF or FM	MM or FF	MF or FM
2Contacts (02)			R C F					
3Contacts (03)			R C F				R C	R C
4Contacts (04)			R C F		( )   F			
5Contacts (05)	A A A A A B C F							
6Contacts (06)	$ \begin{pmatrix} \Delta & \Delta \\ \Delta & \Delta \end{pmatrix} $ R   C   F							
7Contacts (07)	$ \begin{pmatrix} \Delta & \Delta \\ \Delta & \Delta & \Delta \\ \Delta & \Delta \end{pmatrix} $ R C F							
12Contacts (12)								

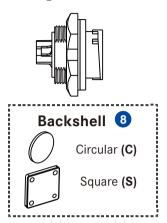
25A ( <b>PWH)</b>			.+2A /CU)	30A (PWL)/(PWJ)		
MM or FF	MF or FM	MM or FF	MF or FM	MM or FF	MF or FM	
R C				R F	R F	
		R C F	R C F			
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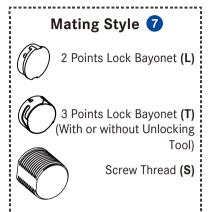


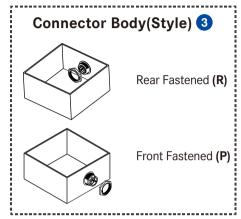


# **Product Features**

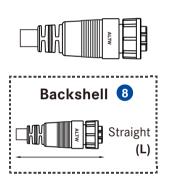
#### **∠** Receptacle



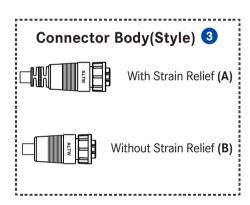




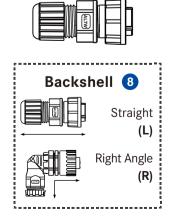
#### □ Overmolded with Cable

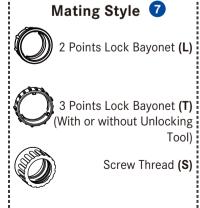


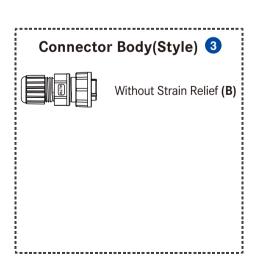




#### **∠** Field Installable







# **Find Our Standard Products**

#### ☑ In-line

Male Connect     Male Contact     Screw Thread	s	Overmolded with Cable —>	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts 2	Male Connector (M) Male Contacts (M)	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>
8A (PWE)	05,06,07	PWE- 2 AMMM-SL7A <u>XX</u> *	PWE- 2 AFFM-SL7A <u>XX</u> *	PWE- 2 BFFA-SL7001
12A <b>(PWF)</b>	02,03,04	PWF- 2 AMMM-SL7A <u>XX</u> *	PWF- 2 AFFM-SL7A <u>XX</u> *	PWF- 2 BFFA-SL7001
25A <b>(PWH)</b>	03	PWH-03AMMM-SL7A <u>XX</u> *	PWH-03AFFM-SL7A <u>XX</u> *	-

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

# ☑ In-line

Female Connector (Housing)     Female Contacts     Screw Thread		Overmolded with Cable	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector ( <b>M</b> ) Male Contacts ( <b>M</b> )	Male Connector (M) Male Contacts (M)
8A <b>(PWE)</b>	05,06,07	PWE- 2 AFFM-SL7AXX*	PWE- 2 AMMM-SL7AXX*	PWE- 2 BMMA-SL7001
12A <b>(PWF)</b>	02,03,04	PWF- 2 AFFM-SL7A <u>XX</u> *	PWF- 2 AMMM-SL7AXX*	PWF- 2 BMMA-SL7001
25A <b>(PWH)</b>	03	PWH-03AFFM-SL7A <u>XX</u> *	PWH-03AMMM-SL7A <u>XX</u> *	-
				* XX: Choose the cable length from 01~99m

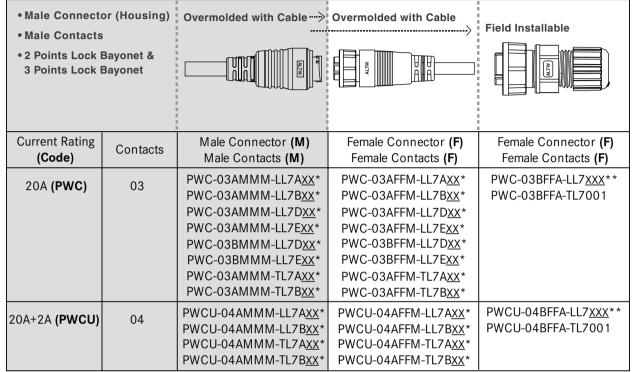
### 

Female Connector (Housing)     Female Contacts     Screw Thread		Field Installable  3 Choose straight (L) or right angle (R)	Overmolded with Cable	Field Installable  Solution (R)  6 Choose straight (L) or right angle (R)
Current Rating (Code)	Contacts 2	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
8A <b>(PWE)</b>	05~07	PWE-2 BFFA-SL7001	-	PWE-2BMMA-SL7001
12A <b>(PWF)</b>	02~04	PWF- 2 BFFA-SL7001	-	PWF-2BMMA-SL7001
16A <b>(PWG)</b>	04	PWG-04BFFB-S <b>8</b> 7 <u>XXX</u> *	-	PWG-04BMMB-S <b>8</b> 7 <u>XXX</u> *

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

<sup>\*</sup> XXX: Choose Pin Plated: Gold Plated (001), Silver Plated (002) to Tin Plated (003)

#### ✓ In-line



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

#### • Female Connector (Housing) Overmolded with Cable Overmolded with Cable Field Installable Female Contacts • 2 Points Lock Bayonet **Current Rating** Male Connector (M) Female Connector (F) Contacts (Code) Female Contacts (F) Male Contacts (M) 20A (PWC) 03 PWC-03AFFM-LL7AXX\* PWC-03AMMM-LL7AXX\* PWC-03AFFM-LL7BXX\* PWC-03AMMM-LL7BXX\* PWC-03AFFM-LL7DXX\* PWC-03AMMM-LL7DXX\* PWC-03AFFM-LL7EXX\* PWC-03AMMM-LL7EXX\* PWCU-04AFFM-LL7AXX\* 20A+2A (PWCU) (1+3)PWCU-04AMMM-LL7AXX\* PWCU-04AFFM-LL7BXX\* PWCU-04AMMM-LL7BXX\*

<sup>\*\*</sup> XXX: Select UL (002) or Non-UL (001)

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

#### ☑ In-line

• Female Connect • Female Contact • 3 Points Lock E	ets	Field Installable ALTW	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Male Connector ( <b>M</b> ) Male Contacts ( <b>M</b> )	Male Connector (M) Male Contacts (M)
20A+2A <b>(PWCU)</b>	(6+6)	PWCU-12BFFA-TL7001	-	PWCU-12BMMA-TL7001

## ☑ In-line

Male Connector     Male Contacts     3 Points Lock     Unlock Tool Net     (Part Number: All	Bayonet	Field Installable	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts	Male Connector <b>(M)</b> Male Contacts <b>(M)</b>	Female Connector <b>(F)</b> Female Contacts <b>(F)</b>	Female Connector <b>(F)</b> ** Female Contacts <b>(F)</b>
25A <b>(PWH)</b>	05	PWH-05BMMC-LL8 <u>XXX</u> *	-	PWH-05BFFC-LL8 <u>XXX</u> *
30A <b>(PWJ)</b>	03	PWJ-03BMMB-LL8 <u>XXX</u> *	-	PWJ-03BFFB-LL8 <u>XXX</u> *

<sup>\*</sup>  $\underline{XXX}$ : Choose the cable OD range 12 ~ 16mm (001) or OD 09 ~ 12mm (002)

<sup>\*\*</sup> The unlock tool is packed with the female conncetor to sell.

## ☑ In-line

• Male Connector (Housing)     • Female Contacts     • 3 Points Lock Bayonet     • Unlock Tool Needed     (Part Number: ANB00010649)		Field Installable	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts	Male Connector (M) Female Contacts (F)	Female Connector <b>(F)</b> Male Contacts <b>(M)</b>	Female Connector <b>(F)</b> ** Male Contacts <b>(M)</b>
25A <b>(PWH)</b>	05	PWH-05BMFC-LL8 <u>XXX</u> *	-	PWH-05BFMC-LL8 <u>XXX</u> *
30A <b>(PWJ)</b>	03	PWJ-03BMFB-LL8 <u>XXX</u> *	-	PWJ-03BFMB-LL8 <u>XXX</u> *

<sup>\*</sup> XXX: Choose the cable OD range12~16mm (001) or OD 09~12mm (002) 
\*\* The unlock tool is packed with the female connector to sell.

## ☑ In-line

Male Connector (Housing)     Male Contacts     2 Points Lock Bayonet &     3 Points Lock Bayonet		Overmolded with Cable>	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts	Male Connector <b>(M)</b> Female Contacts <b>(F)</b>	Female Connector <b>(F)</b> Male Contacts <b>(M)</b>	Female Connector <b>(F)</b> Male Contacts <b>(M)</b>
20A (PWC)	03	PWC-03AMFM-LL7AXX* PWC-03AMFM-LL7BXX* PWC-03AMFM-LL7DXX* PWC-03AMFM-LL7DXX* PWC-03BMFM-LL7DXX* PWC-03BMFM-LL7EXX* PWC-03AMFM-TL7AXX* PWC-03AMFM-TL7BXX	PWC-03AFMM-LL7AXX* PWC-03AFMM-LL7BXX* PWC-03AFMM-LL7DXX* PWC-03AFMM-LL7EXX* PWC-03BFMM-LL7EXX* PWC-03BFMM-LL7EXX* PWC-03AFMM-TL7AXX* PWC-03AFMM-TL7BXX*	PWC-03BFMA-LL7 <u>XXX</u> **
20A+2A <b>(PWCU)</b>	04	PWCU-04AMFM-LL7A <u>XX</u> * PWCU-04AMFM-LL7B <u>XX</u> *	PWCU-04AFMM-LL7A <u>XX</u> * PWCU-04AFMM-LL7B <u>XX</u> *	

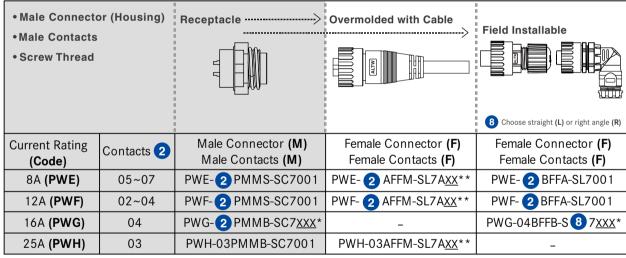
<sup>\*</sup>XX: Choose the cable cable length from 1~99m \*\* XXX: Select UL (002) or Non-UL (001)

#### □ Receptacle and Mating Pair

• Female Contac • Female Contac • Screw Thread	-	Receptacle	Overmolded with Cable	Field Installable  Solution (L) or right angle (R)
Current Rating (Code)	Contacts 2	Female Connector (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
8A <b>(PWE)</b>	05~07	PWE- 2 PFFS-SC7001	PWE- 2 AMMM-SL7A <u>XX</u> **	PWE-2BMMA-SL7001
12A <b>(PWF)</b>	02~04	PWF- 2 PFFS-SC7001	PWF- 2 AMMM-SL7AXX**	PWF-2BMMA-SL7001
16A <b>(PWG)</b>	04	PWG-04PFFB-SC7 <u>XXX</u> *	-	PWG-04BMMB-S <b>8</b> 7 <u>XXX</u> *

<sup>\*</sup> Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)

# □ Receptacle and Mating Pair



<sup>\*</sup> Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)

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

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

# ightharpoonup Receptacle and Mating Pair

Male Connector (Housing)     Male Contacts     2 Points Lock Bayonet		Receptacle	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts	Male Connector (M) Male Contacts (M)	Female Connector (F) Female Contacts (F)	Female Connector (F) Female Contacts (F)
20A (PWC)	03	PWC-03PMMS-LC7001 (UL) PWC-03RMMS-LC7001 (Non UL) PWC-03RMMS-LC7002 (UL)	PWC-03AFFM-LL7A <u>XX</u> * PWC-03AFFM-LL7B <u>XX</u> * PWC-03AFFM-LL7D <u>XX</u> * PWC-03AFFM-LL7E <u>XX</u> * PWC-03BFFM-LL7E <u>XX</u> *	PWC-03BFFA-LL7 <u>XXX</u> **
20A+2A (PWCU)	(3+1)	PWCU-04RMMS-LC7001 (Non UL) PWCU-04RMMS-LC7002 (UL)	PWCU-04AFFM-LL7A <u>XX</u> * PWCU-04AFFM-LL7B <u>XX</u> *	-

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

<sup>\*\*</sup> XXX: Select UL (002) or Non-UL (001)

## □ Receptacle and Mating Pair

Male Connector (Housing)     Male Contacts     3 Points Lock Bayonet		Receptacle	** Cable length from 1~99m for your connector	Field Installable  ***Selecting UL(002) or Non-UL (001)
Current Rating (Code)	Contacts	Male Connector (M) Male Contacts (M)	Female Connector (F) Female Contacts (F)	Female Connector (F) Female Contacts (F)
20A (PWC)	03	PWC-03RMMS-TC7001	PWC-03AFFM-TL7A <u>XX</u> * PWC-03AFFM-TL7B <u>XX</u> *	-
30A (PWL)	03	PWL-03PMMB-TS7001	-	PWL-03BFFA-TL7 <u>XXX</u> **

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

## □ Receptacle and Mating Pair

Male Connector (Housing)     Male Contacts     3 Points Lock Bayonet     PWH For Inverter Application     Unlock Tool Needed (Part Number: ANB00010649)		Receptacle	Overmolded with Cable	Field Installable  UL 6703A Certification (E-Number 346280)
Current Rating (Code)	Contacts	Male Connector (M) Male Contacts (M)	Female Connector (F) Female Contacts (F)	Female Connector (F)* Female Contacts (F)
25A (PWH)	05	PWH-05PMMC-LC8001	-	PWH-05BFFC-LL8XXX**
30A (PWJ)	03	PWJ-03PMMB-LC8001	-	PWJ-03BFFB-LL8 <u>XXX</u> **

 $<sup>^{\</sup>star}$  The unlock tool is packed with the female conncetor to sell.

<sup>\*\*</sup> XXX: Select UL (002) or Non-UL (001)

<sup>\*\*</sup>  $\underline{XXX}\!\!:$  Select the cable OD range12~16mm (001) or OD 09~12mm (002)

## ightharpoonup Receptacle and Mating Pair

□ Receptacle and Mating Pair

Male Connector (Housing)     Female Contacts     2 Points Lock Bayonet &     3 Points Lock Bayonet		Receptacle	Overmolded with Cable	Field Installable
Current Rating (Code)	Contacts	Male Connector (M) Feale Contacts (F)	Female Connector (M) Male Contacts (F)	Female Connector (M) Male Contacts (F)
20A (PWC)	03	PWC-03PMFS-LC7001 PWC-03RMFS-LC7 <u>XXX</u> * PWC-03RMFS-TC7001	PWC-03AFMM-LL7AXX** PWC-03AFMM-LL7BXX** PWC-03AFMM-LL7DXX** PWC-03AFMM-LL7EXX** PWC-03AFMM-TL7AXX** PWC-03AFMM-TL7BXX**	PWC-03BFMA-LL7 <u>XXX</u> * PWC-03BFMA-TL7001
20A+2A (PWCU)	(3+1)	PWCU-04RMFS-LC7 <u>XXX</u> *	PWCU-04AFMM-LL7A <u>XX</u> ** PWCU-04AFMM-LL7B <u>XX</u> **	PWCU-04BFMA-LL7002

- \* XXX: Select UL (002) or Non-UL (001)
- \*\* XX: Choose the proper cable length from 01~99m

Male Connector (Housing)     Female Contacts     3 Points Lock Bayonet		Receptacle	Overmolded with Cable	Field Installable  Non-UL (001)  UL(002)
Current Rating (Code)	Contacts	Male Connector (M) Feale Contacts (F)	Female Connector (F) Male Contacts (M)	Female Connector (F) Male Contacts (M)
30A (PWL)	03	PWL-03PMFB-TS7001	-	PWL-03BFMA-TL7 <u>XXX</u> *

 $^{\star}$  XXX: Select UL (002) or Non-UL (001)

Male Connector (Housing)		Receptacle	Overmolded with Cable	Eletation and the late
• Female Contac	ts	***************************************	······>	Field Installable
• 3 Points Lock E	Bayonet			
PWJ & PWH For Inverter     Application				
Unlock Tool Needed				UL 6703A Certification (E-Number 346280)
Current Rating (Code)	Contacts	Male Connector (M) Female Contacts (F)	Female Connector (F) Male Contacts (M)	Female Connector (F)* Male Contacts (M)
25A (PWH)	05	PWH-05PMFC-LC8001	-	PWH-05BFMC-LL8 <u>XXX</u> **
30A (PWJ)	03	PWJ-03PMFB-LC8001	-	PWJ-03BFMB-LL8 <u>XXX</u> **

<sup>\*</sup> The unlock tool is packed with the female conncetor to sell. \*\* XXX: Select the cable OD range 12~16mm (001) or OD 09~12mm (002)

Memo	
	***************************************
	Scan to visit our website

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