

Amphenol LTW Innovation in Waterproof Solution



CATALOGUE

Power Connector



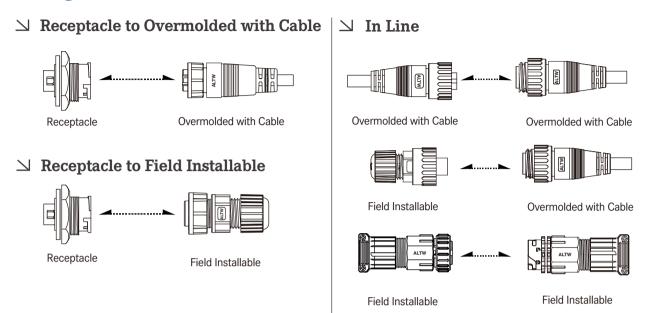




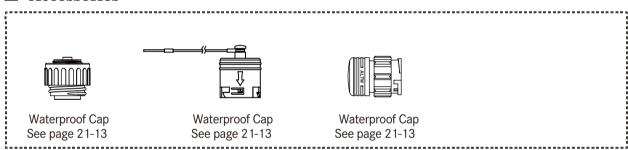




Range Overview



□ Accessories

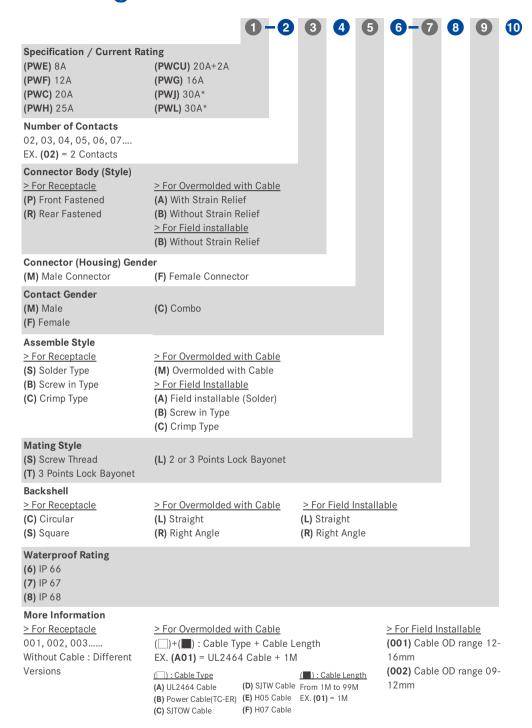


^{*} Design and specification are subject to change without notice.

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



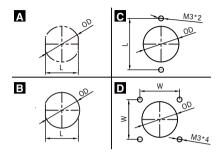
^{* 30}A (PWJ) Recommended For Inverter Application

^{* 30}A (PWL) Recommended For LED Application

Physical Dimension

△ Receptacle Cut-Out

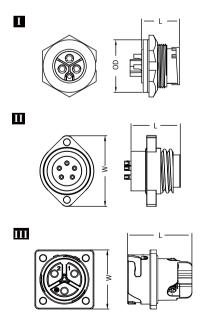
Panel Cut-Out



Connector(Housing) Gender Current Rating		L/W	OD	L/W	OD	
Connector Gender	Type	Ma	ale	Female		
8A (PWE)	С	31.1	21.55	31.1	21.55	
12A (PWF)	С	31.1	21.55	31.1	21.55	
16A (PWG)	С	31.1	21.60	31.1	21.60	
20A (PWC)	В	19.4	20.80	-	-	
OF A (DVA(II)	В	30.2	32.00	-	-	
25A (PWH)	А	23.2	25.20	-	-	
20A+2A (PWCU)	В	19.4	20.80	-	-	
30A (PWL)	D	23.0	23.00	-	-	
30A (PWJ)	А	23.2	25.20	-	-	

Dimensions are shown in millimeters

Connector Dimension

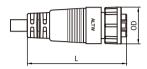


Connector(Housing)		L OD/W		Recommend		
Gender				OD / W		Panel
Current Rating	Туре					Thickness
Connector Gender		Female	Male	Female	Male	Female & Male
8A (PWE)	II	27.50	26.50	38.00	38.00	-
12A (PWF)	II	27.50	26.50	38.00	38.00	-
16A (PWG)	II	32.40	31.00	38.00	38.00	-
20A (PWC)	I	-	18.00	-	25.00	4.5 mm Max.
25 A (DWH)	I	-	55.00	-	40.00	5.0 mm Max.
25A (PWH)	1	-	47.00	-	35.00	0.5~8 mm
20A+2A (PWCU)	I	-	18.00	-	25.00	4.5 mm Max.
30A (PWL)	III	-	34.60	-	31.80	-
30A (PWJ)	I	_	47.00	_	35.00	0.5~8 mm

Dimensions are shown in millimeters

Receptacle I Overmolded with Cable I Field Installable

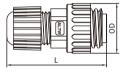
□ Overmolded with Cable



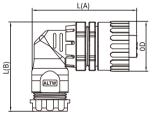
Connector(Housing) Gender	L	-	OD		
Current Ranting	Female	Male	Female	Male	
8A (PWE)	70.3	72.0	30.2	30.2	
12A (PWF)	70.3	72.0	30.2	30.2	
20A (PWC)	60.0	65.5	22.2 (L) 23.0 (T)	18.0	
25A (PWH)	91.55	100.4	40.0	31.75	
20A+2A (PWCU)	60.0	65.5	22.2	18.0	

* (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) Gender	L	=	OI	D
Current Ranting	Female	Male	Female	Male
8A (PWE)	60.7	60.4	30.2	30.2
12A (PWF)	60.7	60.4	30.2	30.2
16A (PWG)	67.0	67.0	30.2	30.2
20A (PWC)	48.15	=	22.2	-
20A+2A (PWCU)	88.4	91.0	33.0	26.9
20A12A (FWCO)	48.15	-	22.2	-
25A (PWH)	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 (PWG)	62.0	54.0	30.2

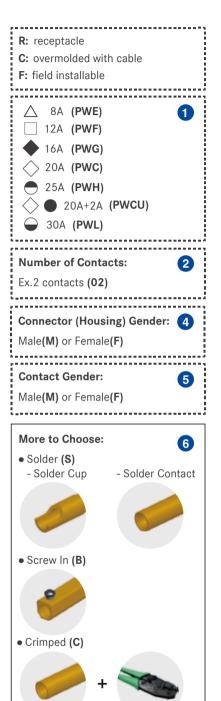
Dimensions are shown in millimeters

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Contact Configuration

	8A (PWE)		12A (PWF)		16A (PWG)		20A (PWC)	
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 (PWH)			x+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			
(e e e e e e e e e e e e e e e e e e e	R F					
		(\$\displaystyle{\pi}\dint{\pi}\displaystyle{\pi}\displaystyle{\pi}\displaystyle{\pi}\displaystyle{\pi}				

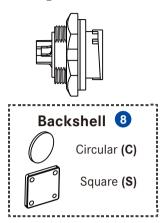


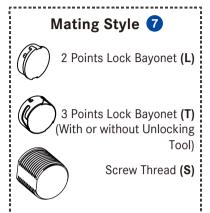
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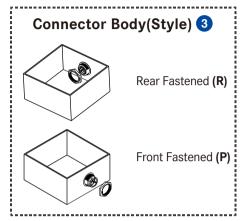


Product Features

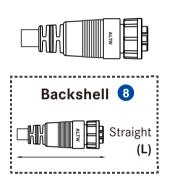
□ Receptacle



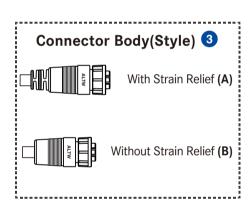




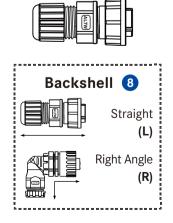
□ Overmolded with Cable

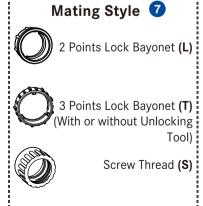


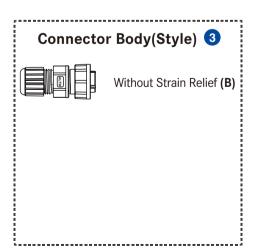




∠ Field Installable







Find Our Standard Products

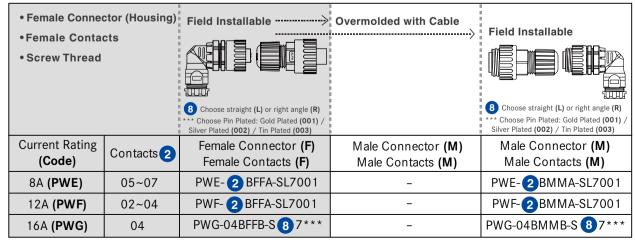
☑ In-line

Male Connector (Housing) Male Contacts		Overmolded with Cable>	Overmolded with Cable	Field Installable
Screw Thread				
		** Selecting the proper cable length from 1~99m for your connector	** Selecting the proper cable length from 1~99m for your connector	
Current Rating (Code)	Contacts 2	Male Connector (M) Male Contacts (M)	Female Connector (F) Female Contacts (F)	Female Connector (F) Female Contacts (F)
8A (PWE)	05,06,07	PWE- 2 AMMM-SL7A**	PWE- 2 AFFM-SL7A**	PWE- 2 BFFA-SL7001
12A (PWF)	02,03,04	PWF- 2 AMMM-SL7A**	PWF- 2 AFFM-SL7A**	PWF- 2 BFFA-SL7001
25A (PWH)	03	PWH-03AMMM-SL7A**	PWH-03AFFM-SL7A**	-

☑ In-line

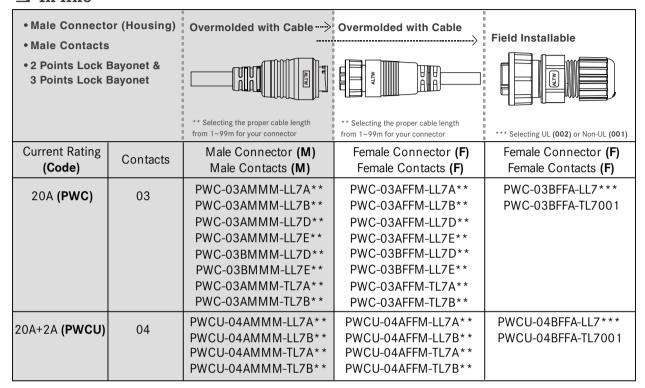
• Female Connector (Housing) • Female Contacts		Overmolded with Cable>	Overmolded with Cable	Field Installable
Screw Thread				
		** Selecting the proper cable length from 1~99m for your connector	** Selecting the proper cable length from 1~99m for your connector	
Current Rating (Code)	Contacts 2	Female Connector (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
8A (PWE)	05,06,07	PWE- 2 AFFM-SL7A**	PWE- 2 AMMM-SL7A**	PWE- 2 BMMA-SL7001
12A (PWF)	02,03,04	PWF- 2 AFFM-SL7A**	PWF- 2 AMMM-SL7A**	PWF- 2 BMMA-SL7001
25A (PWH)	03	PWH-03AFFM-SL7A**	PWH-03AMMM-SL7A**	-

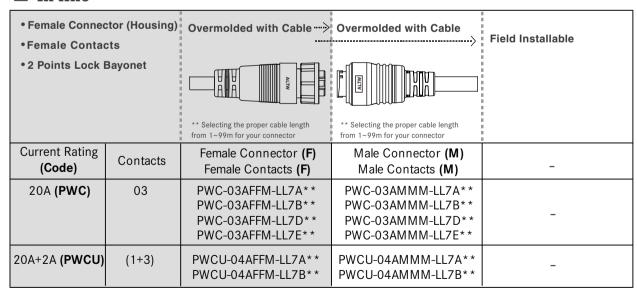
☑ In-line



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√ In-line





☑ 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 (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
20A+2A (PWCU)	(6+6)	PWCU-12BFFA-TL7001	-	PWCU-12BMMA-TL7001

☑ In-line

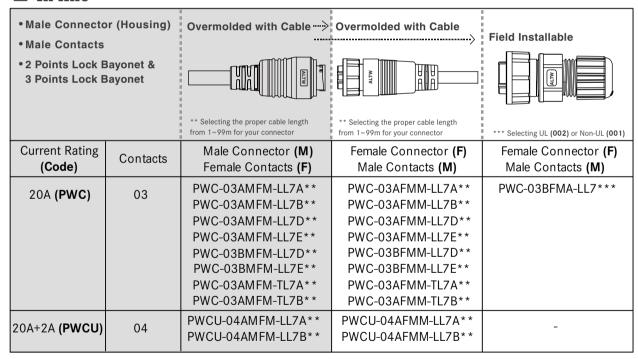
• Male Connects	`	Field Installable	Overmolded with Cable	Field Installable
• 3 Points Lock • Unlock Tool Ne (Part Number: Al	eeded	***Selecting the cable OD range 12~16mm		***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002)
Current Rating (Code)	Contacts	Male Connector (M) Male Contacts (M)	Female Connector (F) Female Contacts (F)	Female Connector (F) Female Contacts (F)
25A (PWH)	05	PWH-05BMMC-LL8***	-	PWH-05BFFC-LL8***
30A (PWJ)	03	PWJ-03BMMB-LL8***	-	PWJ-03BFFB-LL8***

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☑ In-line

Male Connector (Housing) Female Contacts		Field Installable	Overmolded with Cable	Field Installable
• 3 Points Lock Bayonet • Unlock Tool Needed (Part Number: ANB00010649)				
		***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002)		***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002)
Current Rating (Code)	Contacts	Male Connector (M) Female Contacts (F)	Female Connector (F) Male Contacts (M)	Female Connector (F) Male Contacts (M)
05 A (B)A(II)	0.5	DIALL OF DIALECT LLOCK **		PWH-05BFMC-LL8***
25A (PWH)	05	PWH-05BMFC-LL8***	-	PWIN-UDDFIVIC-LLO

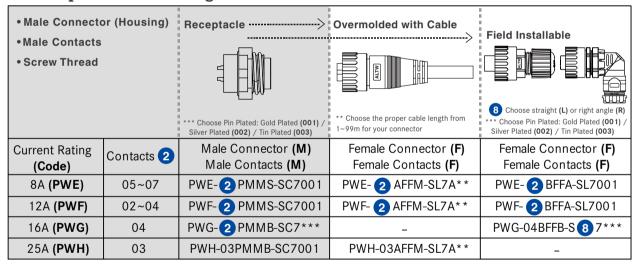
∨ In-line



□ Receptacle and Mating Pair

• Female Connector (Housing) • Female Contacts • Screw Thread		Receptacle	Overmolded with Cable	Field Installable
		*** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)	** Choose the proper cable length from 1~99m for your connector	8 Choose straight (L) or right angle (R) *** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)
Current Rating (Code)	Contacts 2	Female Connector (F) Female Contacts (F)	Male Connector (M) Male Contacts (M)	Male Connector (M) Male Contacts (M)
8A (PWE)	05~07	PWE- 2 PFFS-SC7001	PWE- 2 AMMM-SL7A**	PWE-2BMMA-SL7001
12A (PWF)	02~04	PWF- 2 PFFS-SC7001	PWF- 2 AMMM-SL7A**	PWF-2BMMA-SL7001
16A (PWG)	04	PWG-04PFFB-SC7***	-	PWG-04BMMB-S 8 7***

□ Receptacle and Mating Pair



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ightharpoonup Receptacle and Mating Pair

Male Connecto Male Contacts	r (Housing)	Receptacle	Overmolded with Cable	Field Installable
• 2 Points Lock Bayonet				
			** Selecting the proper cable length from 1~99m for your connector	*** 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-03PMMS-LC7001 (UL) PWC-03RMMS-LC7001 (Non UL) PWC-03RMMS-LC7002 (UL)	PWC-03AFFM-LL7A** PWC-03AFFM-LL7B** PWC-03AFFM-LL7D** PWC-03AFFM-LL7E** PWC-03BFFM-LL7D**	PWC-03BFFA-LL7***
20A+2A (PWCU)	(3+1)	PWCU-04RMMS-LC7001 (Non UL) PWCU-04RMMS-LC7002 (UL)	PWCU-04AFFM-LL7A** PWCU-04AFFM-LL7B**	-

□ Receptacle and Mating Pair

Male Connector (Housing) Male Contacts 3 Points Lock Bayonet		Receptacle	Overmolded with Cable	Field Installable
		_	** Cable length from 1~99m for your connector	***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** PWC-03AFFM-TL7B**	-
30A (PWL)	03	PWL-03PMMB-TS7001	-	PWL-03BFFA-TL7***

□ 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) ***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002)
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-LL8***
30A (PWJ)	03	PWJ-03PMMB-LC8001	-	PWJ-03BFFB-LL8***

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□ Receptacle and Mating Pair

Male Connector (Housing) Female Contacts 2 Points Lock Bayonet & 3 Points Lock Bayonet		Receptacle	Overmolded with Cable ** Cable length from 1~99m for	Field Installable
		***Selecting UL (002) or Non-UL (001)	your connector	***Selecting UL(002) or Non-UL (001)
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*** PWC-03RMFS-TC7001	PWC-03AFMM-LL7A** PWC-03AFMM-LL7B** PWC-03AFMM-LL7D** PWC-03AFMM-LL7E** PWC-03AFMM-TL7A** PWC-03AFMM-TL7B**	PWC-03BFMA-LL7*** PWC-03BFMA-TL7001
20A+2A (PWCU)	(3+1)	PWCU-04RMFS-LC7***	PWCU-04AFMM-LL7A** PWCU-04AFMM-LL7B**	PWCU-04BFMA-LL7002

□ Receptacle and Mating Pair

Male Connector (Housing) Female Contacts 3 Points Lock Bayonet		Receptacle	Overmolded with Cable	Field Installable Non-UL (001) LATW UL(002) ***Selecting UL(002) or Non-UL (001)
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***

Male Connector (Housing)		Receptacle		Field Installable
• Female Contac	ets			
• 3 Points Lock E	Bayonet			
PWJ & PWH For Inverter Application				
• Unlock Tool Ne	eded 🚅			UL 6703A Certification (E-Number 346280)
(Part Number: AN				***Selecting the cable OD range12~16mm (001) or OD 09~12mm (002)
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***
30A (PWJ)	03	PWJ-03PMFB-LC8001	-	PWJ-03BFMB-LL8***

Memo	
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