



Power

Product Catalogue



PWE, PWF & PWG



PWC & PWCU



PWH



PWL



PWM & PWMU



- Nominal Current Up To 80A
- Operating Voltage Up To 600V
- Waterproof IP67 / IP68 / IP69K
- UL / cUL / TUV Certified



cUL



TUV



IP67 / IP68 / IP69K



UV
Resistant



UL 1977
UL 2238

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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	
Ceres Series																	
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	20-24	2,000			500h
X-LOK Series																	
Mini / LED			•				B	2-33	•		30-630V	0.5A-16A	32-14	1,000	•	•	1000h
Standard			•				P	2-8	•		300-600V	5A-10A 10A+5A	26-16	1,000			1000h
Middle			•				P	2-12	•	•	300-600V	5A-20A 10A+5A	26-12	1,000			1000h
Large			•				B	2-100	•	•	60V (0.5A) 300-600V	0.5A-20A 20A+5A 50A 50A+5A	32-6	1,000			1000h
Macro			•				P	4-31	•	•	300-600V	5A 50A+5A 80A+5A	22-2	1,000			1000h
M Series																	
M5					•		M	3-6	•		60V	1A	28-26	1,000			48h
Guided M8 / LED					•	Snap-in	B	2-6	•		30-60V	2A-4A 3A+1.5A	24-22	1,000			48h
M8 / LED					•	Snap-in	B	3-13	•		30-60V	0.5A-4A	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 / LED				•	•		B	3-4	•		630V	12A	16	1,000			48h
M12 T / LED				•	•		B	2-4	•		63V	12A	16	1,000			48h
M12 X				•	•		M	8	•		30-60V	0.5A	26	1,000		•	48h
M12 Y				•	•		B	8	•		60V	0.5A / 6A	20, 26	1,000			48h
M23					•		M	6	•		600V	28A	14-12	1,000			48h

Remarks:

Materials: P (Plastic), M (Metal), B (Both)

Product Selection Guide

	(R0) Receptacle						(FI) Field Installable						OC	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Standard / Compliant	Certifications	Operating Temperature & IP Rating
	Solder	Crimp	SMT	PCB 180	PCB 90	RW	RC	Solder	Crimp	Screw In	Push In	IDC									
Ceres Series																					
Mini	•			•			•	•					•	•	•	(2)	•	•			
Standard	•			•	•		•	•	•				•	•	•	(2)	•	•	UL1977	◦ R0 : -40°C - 105°C, IP67 (Unmated)	
Middle	•			•			•	•	•				•	•	•	(2)		•	UL1977	◦ RW : -20°C - 85°C, IP67 (Unmated)	
Large	•			•				•	•	•			•	•	•	(2)	•	•	UL1977	◦ OC : -20°C - 85°C, IP67 (Mated)	
Macro	•			•									•	•	•	(2)		•	UL1977	◦ FI : -40°C - 105°C, IP67 (Mated)	
PLD	•								•					•	•	(2)		•			
MAB													•	•	•	(2)		•			
GBD													•	•	•	(2)		•			
X-LOK Series																					
Mini / LED	•			•	•			•	•	•	•		•	•	•	(2)	•	•			
Standard	•			•				•	•	•	•		•	•	•	(2)	•	•			
Middle	•			•				•	•	•	•		•	•	•	(2)		•	CSA, UL1977, UL2238, UL50e	◦ R0 & RW : -40°C - 105°C, IP68 (Unmated)	
Large	•			•				•	•	•	•		•	•	•	(2)	•	•			
Macro	•	•		•					•	•			•	•	•	(2)		•			
M Series																					
M5	•			•	•	•							•	•	•	(1)		•	IEC 61076-2-105	◦ R0 : -40°C ~ 105°C, IP67 (Mated / Unmated), IP68 (Unmated), IP69K (Mated)	
Guided M8 / LED	•		•	•	•	•		•	•	•		•	•	•	•	(1)	•	•			
M8 / LED	•		•	•	•	•		•	•	•		•	•	•	•	(1)	•	•	IEC 61076-2-104		
M10.5	•					•							•	•	94-HB	(1)		•			
M12 A / LED	•		•	•	•	•		•	•	•	•	•	•	•	•	(1)	•	•	IEC 61076-2-101		
M12 B / LED	•		•	•	•	•		•	•	•	•	•	•	•	•	(1)	•	•	IEC 61076-2-101		
M12 D / LED	•		•	•	•	•		•	•	•	•	•	•	•	•	(1)	•	•	IEC 61076-2-101		
M12 I	•			•				•					•	•	94-HB	(1)		•			
M12 K / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111		
M12 L / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111		
M12 M / LED	•		•	•	•	•		•	•	•			•	•	•	(1)	•	•	IEC 61076-2-111		
M12 S / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111		
M12 T / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111		
M12 X			•	•	•	•		•	•			•	•	•	•	(1)	•	•	IEC 61076-2-109		
M12 Y				•	•	•		•					•	•	•	(1)	•	•	IEC 61076-2-109		
M23		•							•				•	•	•	(1)	•	•			

Remarks:
Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires), **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)

	Mating Style						Materials	No. of Contacts	Contacts		Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector, Mated)	(R0) Receptacle		
	2 Points Lock	3 Points Lock	Push Lock	Push Pull	Screw Thread	Others			Gold Plated	Silver Plated						Solder	Crimp	Screw In
FLOS Series																		
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	•		
Power Series																		
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		•	
RBL Series																		
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			

Remarks:

Materials: P (Plastic), M (Metal)

Assemble Style: R0 (Receptacle)

Product Selection Guide

	(R0) Receptacle		RW	(FI) Field Installable			OC	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
	PCB 180	PCB 90		Solder	Crimp	Screw In									
FLOS Series															
B	•	•		•	•		•		•	(2)	•	•		IP50 (Mated)	◦ R0 : -40°C - 125°C ◦ OC : -20°C - 85°C ◦ FI : -40°C - 125°C
K	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
K (FLOS+)	•	•		•	•		•		•	(2)	•	•		R0 : IP68 (Unmated) OC : IP68 (Mated) FI : IP68 (Mated)	
C	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
S	•	•		•	•		•		•	(2)	•	•		IP50 (Mated)	
Y	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
P	•	•		•	•		•	•	•	(2)		•		IP50 / IP66 (Mated)	
N	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
Power Series															
PWE				•			•		94-HB	(2)		•	UL1977	IP67 / IP68	◦ R0 : -40°C - 105°C ◦ OC : -20°C ~ 80°C ◦ FI : -40°C ~ 105°C
PWF				•			•		94-HB	(2)		•	UL1977, TUV	IP67 / IP68	
PWG						•	•		•	(2)		•	UL1977	IP67 / IP68	
PWC				•		•	•	•	•	(2)		•	UL1977, TUV/UL2238	IP67 / IP68	
PWCU				•			•	•	•	(2)		•	UL1977, TUV	IP67 / IP68	
PWH					•	•	•	•	•	(2)		•	UL1977, UL6703A, TUV	IP67 / IP68	
PWL				•		•	•	•	•	(2)		•	UL2238/UL1977	IP67 / IP68	
PWM						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWMI						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWN						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWNU						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWP					•		•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWPD					•		•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWX					•		•	•	•			•	UL1977	IP69K (Mated)	
RBL Series															
Middle			•		•		•	•	•	(2)		•	UL1977	RW : IP68 (Unmated) OC : IP68 (Mated) FI : IP67 (Mated)	◦ RW : -40°C ~ 105°C ◦ OC : -20°C ~ 80°C, Data: -20°C ~ 80°C Power: -20°C ~ 105°C Hybrid: -40°C ~ 105°C ◦ FI : -40°C ~ 105°C
Large			•		•		•	•	•	(2)		•			

Remarks:

Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires), **OC** (Overmolded With Cables), **FI** (Field Installable)

Vibration: **(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 (HS-Lok, NMEA 2000, Mini, Heavy Duty Shielded)

	Mating Style		Materials	No. of Contacs	Contacts Gold Plated	Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector, Mated)	(R0) Receptacle			
	Push Pull	Screw Thread									Solder	PCB 180	PCB 90	RW
HS-Lok Series														
Q8	•		B	2-6	•	100V (DC), 300V, 300V (AC) + 100V (DC)	2A 5A 5A+2A	24-20	2,000	500h	•			
NMEA 2000														
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		•	•		
7/8" Mini														
7/8" Mini		•	M	2, 2+PE, 4, 4+PE, 6	•	600V	8A-13A	16	1,000	48h	•	•		•
Heavy Duty Shielded														
Heavy Duty Shielded		*	M	2-14	•	50-300V	5A-40A	22-8	1,000	48h / 500h	•			

Remarks:

Materials: **M** (Metal), **B** (Both)

Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires)

Product Selection Guide

	(FI) Field Installable				OC	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
	Solder	Crimp	Screw In	Push In									
HS-Lok Series													
Q8	•				•	•	(2)			•	UL2238, UL50e	R0: IP68 (Unmated) OC: IP68 (Mated) FI: IP68 (Mated)	◦ R0: -40°C - 105°C ◦ OC: -40°C - 105°C ◦ FI: -40°C - 105°C
NMEA 2000													
Lite (Micro)			•	•	•	•	(1)	•	•	•	NMEA 2000	R0: IP68 (Unmated) RW: IP68 (Unmated) OC: IP68 (Mated)	◦ R0: -40°C - 105°C ◦ RW: -20°C - 85°C ◦ OC: -20°C - 85°C
Heavy (Mini)			•	•	•		94-HB	(1)	•	•	NMEA 2000	FI: IP67 (Mated)	◦ FI: -40°C - 105°C
7/8" Mini													
7/8" Mini	•	•	•		•	•	(1)			•		R0: IP68 (Unmated) RW: IP68 (Unmated) OC: IP68 (Mated) FI: IP67 (Mated)	◦ R0: -40°C - 105°C ◦ OC: -40°C - 105°C ◦ FI: -40°C - 105°C
Heavy Duty Shielded													
Heavy Duty Shielded	•				•	•	94-HB	(1)	•	•		R0: IP68 (Unmated) OC: IP68 (Mated) FI: IP68 (Mated)	◦ R0: -40°C - 105°C ◦ RW: -20°C - 85°C ◦ OC: -20°C - 85°C ◦ FI: -40°C - 105°C

Remarks:

Assemble Style: **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

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	USB 2.0
RJ45 Series															
Middle		•		•		B	8		44-57V (DC)	Max. 1.5A	Cat. 6A: 26 / Cat. 5e: 24	750	•	•	
Large / I-Adaptor	•	•		•		P	8		44-57V (DC)	Max. 1.5A	24	750	•		
ODVA	•					B	8		44-57V (DC)	Max. 1.5A	Cat. 6A: 26 / Cat. 5e: 24	750	•	•	
Self-Closing Cover						P	8		44-57V (DC)	Max. 1.5A		750	•	•	
USB Series															
Mini USB Type B				•		P		•	30V	1.5A	28*1P + 28*3C	5,000			•
Type A	•			•		B		•	30V	USB 2.0: 1.5A USB 3.2 Gen1: 1A	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			
D-SUB Series															
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			
SSL Series															
SSL1.1			•			P	2-6	•	100V	3A	22	100			
SSL1.2			•			P	2-4	•	Wire: 250V Flat Cable: 300V	5A	22-18	Wire: 30 Flat Cable: 100			
HDMI Series															
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			
DVI Series															
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)

Product Selection Guide

	High Speed		Salt Spray (Connector, Mated)	R0	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													
RJ45 Series															
Middle			48h	PCB 90 & 180, Jack 90 & 180		•	•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ R0 : -40°C - 105°C, IP67 (Unmated & Mated)
Large / I-Adaptor			48h	PCB180, Jack 90 & 180		•	•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ RP : -20°C - 85°C, IP67 (Unmated & Mated)
ODVA			48h	Jack 180		•	•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ OC : -20°C - 85°C, IP67 (Mated) ◦ FI : -40°C - 105°C, IP67 (Mated)
Self-Closing Cover			48h	•					•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	-40°C - 105°C, IP67 (Unmated)
USB Series															
Mini USB Type B			48h	•	•		•	•		94V-HB	(2)	•	•		◦ R0 : -40°C - 105°C, IP67 (Unmated)
Type A	•		48h	Type 1 & 2, Jack, PCB 180	•		•	Solder		•	(2)	•	•		◦ RW : -20°C - 85°C, IP67 (Unmated)
Type B	•		48h	Type 1 & 2, Jack, PCB 180	•		•	Solder		•	(2)	•	•		◦ OC : -20°C - 85°C, IP67P (Mated) ◦ FI : -40°C - 105°C, IP67 (Mated)
Micro USB Swift			48h	•						•	(2)	•	•		-30°C - 80°C, IP67/IP68 (Unmated)
Micro USB Swift-MU			48h				•			•	(2)	•	•		-40°C - 80°C, IP67 (Mated)
Type C Swift-LP		•	48h	•						•	(2)	•	•		-40°C - 85°C, IP67 (Unmated)
Type C Swift-LA	•		48h	•			•			•	(2)	•	•		◦ R0 : -40°C - 85°C, IP68 (Unmated) ◦ OC : -20°C - 85°C, IP67 (Mated)
Type C Swift-GG	•	•	48h	•			•			•	(2)	•	•		◦ R0 : -40°C - 85°C, IP67 (Unmated) ◦ OC : -20°C - 85°C, IP67 (Mated)
Type C Swift-XL	•		48h				•			•	(2)	•	•		◦ OC : -20°C - 85°C, IP68 (Mated)
D-SUB Series															
Standard			8h	Solder, PCB 90& 180			•	Solder, Crimp			(2)	•	•		◦ R0 : -40°C - 105°C, IP68 (Unmated)
High Density			8h	Solder, PCB 90& 180			•	Solder, Crimp			(2)	•	•		◦ OC : -20°C - 85°C, IP67P (Mated) ◦ FI : -40°C - 105°C, IP67 (Mated)
SSL Series															
SSL1.1				•			•			•	(2)		•	CSA C22.2, UL1977	-40°C - 105°C, Non-IP
SSL1.2				•			•	•	•	•	(2)		•	CSA C22.2, UL1977, cUL UL2238+UL50e	-40°C - 105°C, IP68 (Mated)
HDMI Series															
Circular			48h	•			•			94V-HB	(2)	•	•		◦ R0 : -20°C - 85°C, IP67 (Unmated)
Rectangular			48h	•			•			94V-1	(2)	•	•		◦ OC : -20°C - 85°C, IP67P (Mated)
Mini-HDMI			48h	•			•			•	(2)	•	•		
DVI Series															
DDD			8h	•			•				(2)		•		
DDS			8h	•			•				(2)		•		◦ R0 : -40°C - 105°C, IP68 (Unmated)
DID			8h	•			•				(2)		•		◦ OC : -20°C - 85°C, IP67P (Mated)
DIS			8h	•			•				(2)		•		

Remarks:

Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires), **RP** (Receptacle With Pigtail), **OC** (Overmolded With Cables), **FI** (Field Installable)

Vibration: **(2)** 10-55Hz @Amplitude 1.52mm

Operation Temperature & IP Rating: **R0** (Receptacle), **RW** (Receptacle With Wires), **RP** (Receptacle With Pigtail), **OC** (Overmolded With Cables), **FI** (Field Installable)

Product Selection Guide

Other IO (Fiber, RF)

	Mating Style		Materials	No. of Contacts	Gold Plated	Operating Voltage (AC/DC)	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector, Mated)	R0
	3 Points Lock	Screw Thread								
Fiber Optic Series										
LC	•								48h	•
SC	•								48h	•
RF Series										
SMA Type		•	M	1	•	335 Volts RMS At Sea Level	1.13mm, 1.32mm, 1.37mm, RG178	500	48h	•
N Type		•	M	1	•	1,000 Volts RMS At Sea Level	1.13mm, 1.32mm, 1.37mm, RG142, RG178, G58 A/U	500	48h	•

Other (ZConnect, Cable Joiner, Cable Gland, Pressure Relief Vent, LED)

	Mating Style			Materials	No. of Contacts	Contacts				Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Salt Spray (Connector, Mated)
	Push Lock With Latch	Screw Thread	Others			Gold Plated	Nickel Plated	Thermo plastic	SUS316L				
ZConnect Series													
FPC / FFC / WTB			Quick Plug	B	46, 36, 20, 18, 12	•				120V	1A		48h
Cable Joiner Series													
M20		•		P	None, 4	•				450V (Non- UL) 600V (UL)	10A	22-16	
M32	•			P	None, 4	•					15A-30A	16-10	
FICX I Tube (11)		•		P	2-5		•				16A-30A	20-12	
FICX I Tube (12)		•		P	2-5		•				8A-20A	18-12	
FICX XI Tube (13)		•		P	2-5		•				8A-20A	18-12	
FICX T Tube (T2)		•		P	2-5		•				10A-20A	20-12	
Cable Gland Series													
Cable Gland		•		B									
Pressure Relief Vent													
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		
LED Light Guide													
Ø3mm				B				•		4V			
Ø5mm				M				•		4V			

Remarks:

Materials: P (Plastic), M (Metal), B (Both)

Assemble Style: R0 (Receptacle)

Product Selection Guide

	FI	UV Resistant	UL 94V-0	EMI Option	ROHS 2.0 & REACH	Standard / Compliant / Certifications	Operating Temperature & IP Rating
Fiber Optic Series							
LC	•	•	•		•		-40°C - 105°C, IP67 (Mated)
SC	•	•	•		•		-40°C - 105°C, IP67 (Mated)
RF Series							
SMA Type				•	•	MIL-C-39012	-40°C - 105°C, IP68 (Unmated)
N Type				•	•	MIL-C-39012	-40°C - 105°C, IP68 (Unmated)

	Receptacle	Field Installable	UV Resistant	UL 94V-0	Vibration	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
ZConnect Series									
FPC / FFC / WTB				•		•			-40°C - 110°C, Non-IP
Cable Joiner Series									
M20		•	•	94V-2		•		IP67	-40°C - 105°C
M32		•	•	•		•	UL6703A	IP67	-40°C - 105°C
FICX I Tube (11)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
FICX I Tube (12)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
FICX XI Tube (13)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
FICX T Tube (T2)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
Cable Gland Series									
Cable Gland	•	•		94V-0 94V-2	(2)	•		IP67 (Mated) IP68 (Mated)	• RO : -20°C - 105°C • FI : -20°C - 105°C
Pressure Relief Vent									
M6 Plastic	•		•	•		•		IP66, IP68	-40°C - 125°C
M12 Snap-in	•		•	•		•		IP68, IP69K	-40°C - 125°C
M12 Stainless	•		•	•		•		IP68, IP69K	-40°C - 125°C
M12 Plastic	•		•	•		•		IP68, IP69K	-40°C - 125°C
M12 Metal	•		•	•		•		IP68, IP69K	-40°C - 125°C
LED Light Guide									
Ø3mm	•							IP67	• Red & Green : -30°C - 80°C • Others : -40°C - 80°C
Ø5mm	•							IP67	• Red & Green : -30°C - 80°C • Others : -40°C - 80°C

Remarks:

Assemble Style: FI (Field Installable)

Vibration: (2) 10-55Hz @Amplitude 1.52mm

Operation Temperature & IP Rating: RO (Receptacle), FI (Field Installable)

Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	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
LED Lighting																							
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	•	•			•	•							•				•				•		
Marine																							
Multi-FunctionDisplay	•	•	•	•	•	•		•	•	•	•	•			•	•		•			•	•	•
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	•	•	•				•	•	•	•	•	•		•	•		•				•		•
Broadband Wireless Access																							
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														•			•						

Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	HS-Lok	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
Industrial Automation																						
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	•	•	•	•	•	•	•	•	•	•	•					•				•	•	•
Renewable Energy																						
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	•	•	•	•	•	•		•	•	•						•			•	•	•	•
Heavy Equipment																						
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		•	•	•				•	•							•						
Automated Meter Reading																						
Water Meter	•	•	•	•			•			•	•					•	•		•	•	•	
Electricity Meter	•	•	•	•			•			•	•					•	•		•	•	•	
Gas Meter	•	•	•	•			•			•	•					•	•		•	•	•	
Alarm System	•	•	•	•			•			•	•					•	•		•	•	•	
Military Drone	•	•	•	•			•									•	•		•	•	•	
Vehicle Tracking	•	•	•	•			•			•	•					•	•		•	•	•	
Telemetry	•	•	•	•			•			•	•					•	•		•	•	•	
Sewage	•	•	•	•	•	•	•			•	•					•	•		•	•	•	
Rugged IT																						
Telemetry		•	•	•			•			•						•	•		•	•		
Rugged & Military VR and AR		•	•	•			•				•					•	•		•			
Rugged Notebook				•						•	•		•	•		•	•					•
Night Vision Goggles			•	•			•				•					•						
Miniature Camera											•					•	•					
Rugged Tablet											•		•	•		•	•					
Communication Devices				•						•	•		•	•		•	•				•	•

Served Markets & Applications

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

We Are Amphenol LTW

Founded in 1993, Amphenol LTW is a leader in rugged and harsh environment interconnects with the largest array of I/O and products ranging from IP65 to IP69K. The company continually provides innovative interconnect solutions for ever-demanding environments and is proactively committed to contributing to a safer and greener environment. Amphenol LTW features interconnects for technologically advanced products with environmentally friendly results.



Amphenol LTW Technology & CNC Plant

- Headquarters: Taipei, Taiwan
- 150 Employees



Kunshan Amphenol Zhengri Electronics

- Kunshan, China
- 400 Employees



110+

Amphenol
Divisions



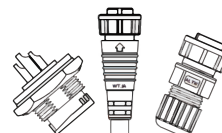
75+

Distribution
Channels



30+

Market
Applications



80,000+

Products

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more information

Scan here



Our Capabilities

Both factories located in Taiwan and China are ISO9001:2015, ISO14001:2015, and UL certified. Our Test Laboratory is certified by TAF and is a member of UL WTDP reliable partner. Wherever required, most of our products are TUV/VDE, UL/CSA certified. Thanks to our strict standards, we are able to contribute to your projects and design exactly what you need. From standard to customized products, Amphenol LTW has the right solutions for your applications.



Test Laboratory Accreditations Quality Assurance

International Certifications



Automated Production Line

Capability: Contacts, Parts, and Shells

Number of Automatic Machines: 11

Production Capacity : 125,000 pins per day
(24 hours)

Number of CNC Machines: 33

Production Capacity : 125,000 pins per day
(24 hours)



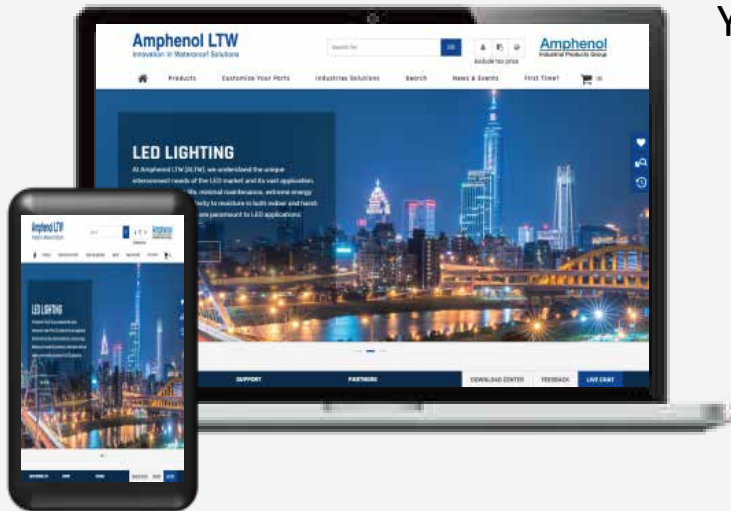
Kunshan Factory – Horizontal Injection Workshop

Molding Machines

Number of Machines: 17

Production Capacity : 3,400pcs/hr

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General Catalog

Find All Product Range



Catalogs by Series

All Market Applications

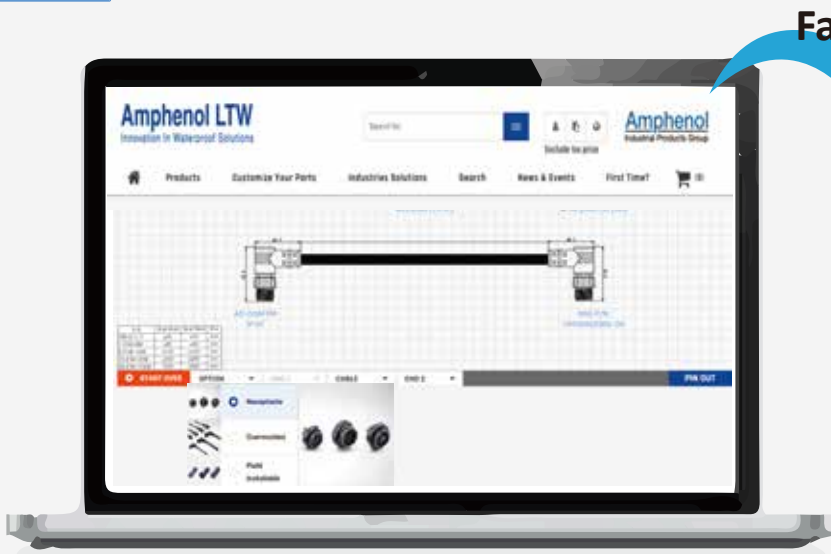


Market Flyer

Product Guidance



Customization Services



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Benefits

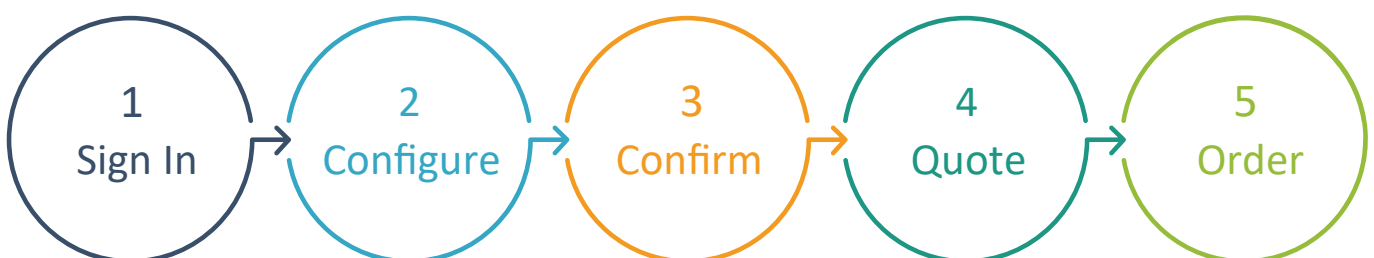
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- ✓ Online assistance (Live Chat)
- ✓ Instant drawing release
- ✓ Instant quote
- ✓ Order online

Scan the QR Code
to our CTO platform

Scan here



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Freedom of Choices and Budgets

3 Mechanical interfaces IP67 and above for industrial and ruggedized applications

3 Freedom of choices for your needs and requirements

3 Budgets, pay for what you need



Features

- » ALTW's proprietary SPE interface integrated in **M8 (G8) / M12 / FLOS+ / X-Lok**
- » Providing low power & simply networking on end-point sensors
- » Cost-effective, smaller & lighter than standard 4 pairs ethernet cable
- » Compatible 10/100/1000 base-T1 data rates as existing technologies **
- » Receptacle IP67 **UNMATED** waterproof, also available in double ended and field installable
- » Vibration resistance 20g (10 ~ 2,000 Hz)
- » Supports PoDL (Power Over Data Lines)

** 24~26 AWG Standard Length 15m

Part Number


X-Lok

A Size	AD-02BFFM-QL8P ¹⁰ (Cable)
	AD-02BMMM-QL8P ¹⁰ (Cable)
	AD-02PMMP-QC8001 (Receptacle)
	AD-02PMMS-QC8001 (Receptacle)

FLOS+

K Series	SLKC-S02FMMM-GCP-C ¹⁰ (Cable)
	SLKC-S02EEFP-GCP-001 (Receptacle)

M Series

M8	M8-02BFFM-SL7C ¹⁰ * (Cable)	M12	M12A-02BFFM-SL8C ¹⁰ (Cable)
	M8-02BMMM-SL7C ¹⁰ * (Cable)		M12A-02BMMM-SL8C ¹⁰ (Cable)
	M8-02PFFP-SF7001* (Receptacle)		M12A-02PFFP-SF8001 (Receptacle)
	M8-02PMMP-SF7001* (Receptacle)		M12A-02PMMP-SF8001 (Receptacle)
	M8-02PFFS-SF7001* (Receptacle)		
	M8-02PMMS-SF7001* (Receptacle)		
G8	8A-02BFFM-SL7C ¹⁰ * (Cable)		
	8A-02BMMM-SL7C ¹⁰ * (Cable)		
	8A-02PFFP-SF7001* (Receptacle)		
	8A-02PFFS-SF7001* (Receptacle)		
	8A-02MMP-SF7001 (Receptacle)		
	8A-02PMMS-SF7001 (Receptacle)		

* Upon Request

¹⁰ Cable Length: (01) 1M ~ (15) 15M.

Technical Support



Assistance



AIPG WeChat (ID: AIPG2020)
安费诺工业展品集团
微信公众号: AIPG2020



88677416888

Information



FAQ

Find answers to frequently asked questions at
<https://www.amphenolltw.com/>



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LED

- Architectural Lighting
- ATEX Lighting
- Commercial Lighting
- Cruise & Shipyards Lighting
- Emergency Lighting
- Smart Street Lights
- Warehouse Lighting

- Li-Fi
- Outdoor LED Displays
- Outdoor Signage
- Parking Lighting
- Refrigeration Lighting
- Tunnel Lighting

- Horticulture Lighting
- UV and Sanitary Lighting
- Hospital Surgical Lighting & Room
- Underwater / Submerged Lighting
- Entertainment Lighting & Systems
- Train, Bus, Plane & Recreational Vehicles Lighting



Broadband Wireless Access

- Outdoor AP
- Outdoor Base Station Unit
- Outdoor LTE
- Outdoor Repeater
- Outdoor Wireless Mesh Router

- RRH (Remote Radio Head)
- Subscriber Station
- Wireless Mobile Backhaul
- General Small Cells
- Base Station Power Supply

- High Capacity Mobile Subscriber Unit



Renewable Energy

- Communication System
- CSP & CPV
- DC Inverter
- Energy Storage System
- Heliostat

- Portable Energy
- PV ICS (Integrated Control Systems)
- PV Inverter
- PV Trackers
- Tidal Power Generation System

- Wind Turbine
- PDC (Power Distribution Control)



Railway Mass Transit

- Infotainment Systems
- Interior Lighting
- In-Vehicle Information
- Vehicle Monitoring
- Broadcasting System

- Fuel Leakage Detector
- HVAC (Heating Ventilation Air Conditioning)
- Indication Display



Remote Video Response Center

- Encoders
- Junction Box
- Monitoring Station
- Remote Control
- Alarm System

- CCTV / Dome / IP Camera
- Automatic LPRS (License Plate Recognition System)



Medical

- Electrical Beds
- Medical Displays
- Mobile Nursing Carts
- Wheelchair Lift
- Wheelchair stair Lift

- Non-invasive Devices
- Charges
- Rehabilitation System



Heavy Equipment

- Control System
- Display
- Electronic Toll System
- Lighting
- Measurement Systems

- Telematics & Tracking
- Camera & Monitoring
- Automotive Diagnostics
- Agriculture Electronic Equipment
- ADAS (Advanced Driver Assistance Systems)

- GPS System



Hybrid Electric Vehicles

- Battery Module
- Charge Plug / Inlet
- Charging Station
- Electric Scooter
- Electric Wheelchair

- Home Charge Platform
- Hoverboard
- Throttle Controller
- Electrical and Electronic Brake System
- Electrical and Electronic Speed Control



Marine

- AIS
- Antenna
- Audio System
- Autopilot System
- Bilge Pump
- Heater
- RADAR
- Docking System
- Outboard & Trolling Motors
- Fridge & Refrigeration
- GPS, Beacon & Lifebuoy
- Lighting System
- Power Controller
- IP and Infrared CCTV & Cameras
- HVAC (Heating Ventilation Air Conditioning)
- Sensors
- Windlass
- USB Charger
- Multi-Function Display



Test Equipment

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



Industrial Automation

- Industrial Network
- Industrial PC & Displays
- Machine Tools
- Motor Drives
- Power
- Communication System
- Industrial Control
- Industrial Forklifts
- Production Equipment



Lifts & Materials Handling

- Forklift
- Industrial Lift
- Materials Handling



Automated Meter Reading

- Sewage



UAV

- Commercial Drone
- Consumer Drone
- Military Drone



Transportation

- Digital Video Surveillance System



Automotive Diagnostics

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



















Product Range Overview

Sub-Series Name	PWE	PFW	PWG	PWC	PWCU	PWH	PWL
Mating Style	Screw Thread	Screw Thread	Screw Thread	2 Points Lock & 3 Points Lock	2 Points Lock & 3 Points Lock	Screw Thread & 3 Points Lock	3 Points Lock
Plastic Version	✓	✓	✓	✓	✓	✓	✓
No. of Contacts	5 ~ 7	2 ~ 4	4	3	4, 12	3, 5	3
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Operating Voltage (AC/DC)	277V	277V	277V	277V	277V	660V AC 1,000V DC	300V
Nominal Current	8A	12A	16A	20A	20A+2A	25A	30A
Operating Temperature	<ul style="list-style-type: none">• Receptacle : -40°C ~ 105°C• Overmolded with Cable : -20°C ~ 80°C• Field Serviceable/Installable : -40°C ~ 105°C						
Fasten Style of Nut	Front	Front	Front	Front & Rear	Front & Rear	Front	Front
Receptacle	✓	✓	✓	✓	✓	✓	✓
Overmolded With Cable	✓	✓	✓	✓	✓	-	-
Field Serviceable/Installable	✓	✓	✓	✓	✓	✓	✓
Accessories	✓	✓	✓	✓	✓	✓	-
Applicable Wire Gauge	20 ~ 17AWG (0.50 ~ 1.00mm²)	18 ~ 15AWG (0.75 ~ 1.62mm²)	18 ~ 14AWG (0.75 ~ 2.50mm²)	14 ~ 12AWG (2.50 ~ 4.00mm²) 24 ~ 22AWG (0.25 ~ 0.34mm²)		12AWG (4.00mm²)	14 ~ 8AWG (2.50 ~ 10.00mm²)
Mating Cycles (Pin Contact)	500 Cycles	500 Cycles	500 Cycles	500 Cycles	500 Cycles	500 Cycles	500 Cycles
IP Rating	Receptacle, Overmolded With Cable, Field Serviceable Installable:IP67 (Mated) or IP68 (Mated, 1M / 24h)						
Salt Spray (Connector, Mated)	500h	500h	500h	500h	500h	500h	500h
UV Resistant	-	-	-	✓	✓	✓	✓
Flammability Rating	UL94HB	UL94HB	UL94V-0	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration	Frequency Range 10~55Hz / Amplitude 1.52mm						
RoHS 2.0 Compliant	✓	✓	✓	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓	✓	✓	✓
Certificates	UL1977	UL1977, TUV	UL1977	UL1977, TUV	UL1977, TUV	UL1977, UL6703A, TUV	UL2238

Product Range Overview

Sub-Series Name	PWM ^{NEW}	PWMU	PWN ^{NEW}	PWNU	PWP ^{NEW}	PWPD	PWX ^{NEW}
Mating Style	3 Points Lock	3 Points Lock	3 Points Lock	3 Points Lock	3 Points Lock	3 Points Lock	3 Points Lock
Plastic Version	✓	✓	✓	✓	✓	✓	✓
No. of Contacts	2	2+2, 2+4	2	2+2, 2+4	2, 3	2+2, 2+4, 3+2, 3+4	9 (30A) / 14 (30A+5A) 5 (50A) / 12 (50A+5A) 4 (80A) / 7(80A+5A)
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Silver Plated
Operating Voltage (AC/DC)	600V	600V	600V	600V	600V	600V	300 ~ 600V AC/DC
Nominal Current	50A	50A+2A	70A	70A+2A	80A	80A+5A	30A / 30A+5A 50A / 50A+5A 80A / 80A+5A
Operating Temperature							
• Receptacle : -40°C ~ 105°C							
• Field Serviceable/Installable : -40°C ~ 105°C							
Fasten Style of Nut	Rear	Rear	Rear	Rear	Rear	Rear	Rear
Receptacle	✓	✓	✓	✓	✓	✓	✓
Overmolded With Cable	-	-	✓	✓	-	-	-
Field Serviceable/Installable	✓	✓	✓	✓	✓	✓	✓
Accessories	-	-	-	-	-	-	✓
Applicable Wire Gauge	9 ~ 8AWG (6.50 ~ 10.00mm²) 22 ~ 20AWG (0.34 ~ 0.50mm²)		8 ~ 6AWG (10.00 ~ 16mm²) 22 ~ 20AWG (0.34 ~ 0.50mm²)		4AWG (25.00mm²) 20AWG (0.50mm²)		4AWG (25.00mm²) 9 ~ 8AWG (6.50 ~ 10.00mm²) 14 ~ 8AWG (2.50 ~ 10.00mm²) 22 ~ 20AWG (0.34 ~ 0.50mm²)
Mating Cycles (Pin Contact)	500 Cycles	500 Cycles	500 Cycles	500 Cycles	500 Cycles	500 Cycles	500 Cycles
IP Rating							
• Receptacle: IP67 (Mated)							
• Field Serviceable/Installable: IP67 (Mated)							
IP69K (Mated)							
Salt Spray (Connector, Mated)	720h	720h	720h	720h	720h	720h	720h
UV Resistant	✓	✓	✓	✓	✓	✓	✓
Flammability Rating	UL94V-0	UL94V-0	UL94V-0	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration							
Frequency Range 10~55Hz / Amplitude 1.52mm							
RoHS 2.0 Compliant	✓	✓	✓	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓	✓	✓	✓
Certificates	UL1977	UL1977	UL1977	UL1977	UL1977	UL1977	UL1977

Contact Configuration

	8A(PWE)	12A(PWF)	16A(PWG)	20A(PWC)	20A+2A(PWCU)		25A(PWH)		30A(PWL)	50A(PWM)	50A+2A(PWM)
	MM/FF	MM/FF	MM/FF	MM/FF MF/FM	MM/FF	MF/FM	MM/FF	MF/FM	MM/FF MF/FM	MF/FM	MF/FM
2 Pin											
		R C F								R C F	
3 Pin											
		R C F		R C F			R C		R F		
4 Pin											
		R C F	R C F		R C F	R C F					R C F
5 Pin											
	R C F						R F	R F			
6 Pin											
	R C F										R C F
7 Pin											
	R C F										
9 Pin											
12 Pin											
					C F						
14 Pin											

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

Assemble Style



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


















Screw In
(B) Receptacle
(B) Field Serviceable/Installable



Crimp
(C) Receptacle
(C) Field Serviceable/Installable

Contact Configuration

	70A (PWN)	70A+2A (PWNU)	80A(PWP)	80A+5A(PWPD)	30A(PWX)	50A(PWX)	80A(PWX)	30A+5A(PWX)	50A+5A(PWX)	80A+5A(PWX)
	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM
2 Pin										
	R C F		R C F							
3 Pin										
			R C F							
4 Pin										
		R C F		R C F			R F			
5 Pin										
				R C F		R F				
6 Pin										
		R C F		R C F						
7 Pin										
				R C F						R F
9 Pin										
					R F					
12 Pin										
									R F	
14 Pin										
								R F		

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

No of Contacts	2	3	4	5	6	7
Rated Voltage (AC/DC)	277V					
Nominal Current	12A	12A	12A	16A	8A	8A
Plastic / Metal	Plastic					
Pin Assignment	MM	MM	MM	MM	MM	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact						

PWE / PWF - Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Mated)

Nut Torque Value: 5 ~ 8 kgf.cm | Recommended Panel Thickness: min. 8.0mm

	Solder Type	PWF-02PMM S-SC7001	PWF-03PMM S-SC7001	PWF-04PMM S-SC7001	-	PWE-05PMM S-SC7001	PWE-06PMM S-SC7001	PWE-07PMM S-SC7001
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PWG - Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Mated)

Nut Torque Value: 5 ~ 8 kgf.cm | Recommended Panel Thickness: min. 8.0mm

	Screw-In Type, Gold Plated	-	-	-	PWG-04PMM B-SC7001	-	-	-
	Screw-In Type, Silver Plated	-	-	-	PWG-04PMM B-SC7002	-	-	-
	Screw-In Type, Tin Plated	-	-	-	PWG-04PMM B-SC7003	-	-	-

STRAIGHT, Overmolded Cable Assembly, Free Cable End, IP67 (Mated)⑪ Cable Length: (01) 1M ~ (99) 99M¹⁾

	UL2464, PVC Jacket	PWF-02AMMM- SL7A ⑪	PWF-03AMMM- SL7A ⑪	PWF-04AMMM- SL7A ⑪	PWG-04AMMM- SL7A ⑪*	PWE-05AMMM- SL7A ⑪	PWE-06AMMM- SL7A ⑪	PWE-07AMMM- SL7A ⑪
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RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)⑪ Cable Length: (01) 1M ~ (99) 99M¹⁾

	UL2464, PVC Jacket	PWF-02AMMM- SR7A ⑪*	PWF-03AMMM- SR7A ⑪*	PWF-04AMMM- SR7A ⑪*	PWG-04AMMM- SR7A ⑪*	PWE-05AMMM- SR7A ⑪*	PWE-06AMMM- SR7A ⑪*	PWE-07AMMM- SR7A ⑪*
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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.: (PWE)(PWF) 5.5 ~ 10.8mm, (PWG) 6.0 ~ 9.0mm, 9.1 ~ 12.5mm

	Solder Type	PWF-02BMM A-SL7001	PWF-03BMM A-SL7001	PWF-04BMM A-SL7001	-	PWE-05BMM A-SL7001	PWE-06BMM A-SL7001	PWE-07BMM A-SL7001
	Screw-In Type, Gold Plated	-	-	-	PWG-04BMM B-SL7001	-	-	-
	Screw-In Type, Silver Plated	-	-	-	PWG-04BMM B-SL7002	-	-	-
	Screw-In Type, Tin Plated	-	-	-	PWG-04BMM B-SL7003	-	-	-

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

Sealing Nut Torque Value: 5 ~ 8 kgf.cm | Recommended Cable O.D.: (PWE)(PWF) 5.5 ~ 10.8mm, (PWG) 6.0 ~ 9.0mm, 9.1 ~ 12.5mm

	Screw-In Type, Gold Plated	-	-	-	PWG-04BMM B-SR7001	-	-	-
	Screw-In Type, Silver Plated	-	-	-	PWG-04BMM B-SR7002	-	-	-
	Screw-In Type, Tin Plated	-	-	-	PWG-04BMM B-SR7003	-	-	-

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF

	UL2464, PVC Jacket	AG-PWF02ML- PWFML-SA ⑪*	AG-PWF03ML- PWFML-SA ⑪*	AG-PWF04ML- PWFML-SA ⑪*	AG-PWG04ML- PWGML-SA ⑪*	AG-PWE05ML- PWEML-SA ⑪*	AG-PWE06ML- PWEML-SA ⑪*	AG-PWE07ML- PWEML-SA ⑪*
		AG-PWF02ML- PWFFL-SA ⑪*	AG-PWF03ML- PWFFL-SA ⑪*	AG-PWF04ML- PWFFL-SA ⑪*	AG-PWG04ML- PWGFL-SA ⑪*	AG-PWE05ML- PWEFL-SA ⑪*	AG-PWE06ML- PWEFL-SA ⑪*	AG-PWE07ML- PWEFL-SA ⑪*

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM

	UL2464, PVC Jacket	AG-PWF02MR- PWFMR-SA ⑪*	AG-PWF03MR- PWFMR-SA ⑪*	AG-PWF04MR- PWFMR-SA ⑪*	AG-PWG04MR- PWGMR-SA ⑪*	AG-PWE05MR- PWE MR-SA ⑪*	AG-PWE06MR- PWE MR-SA ⑪*	AG-PWE07MR- PWE MR-SA ⑪*
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STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF

	UL2464, PVC Jacket	AG-PWF02ML- PWFMR-SA ⑪*	AG-PWF03ML- PWFMR-SA ⑪*	AG-PWF04ML- PWFMR-SA ⑪*	AG-PWG04ML- PWGMR-SA ⑪*	AG-PWE05ML- PWE MR-SA ⑪*	AG-PWE06ML- PWE MR-SA ⑪*	AG-PWE07ML- PWE MR-SA ⑪*
		AG-PWF02ML- PWFFR-SA ⑪*	AG-PWF03ML- PWFFR-SA ⑪*	AG-PWF04ML- PWFFR-SA ⑪*	AG-PWG04ML- PWGFR-SA ⑪*	AG-PWE05ML- PWEFR-SA ⑪*	AG-PWE06ML- PWEFR-SA ⑪*	AG-PWE07ML- PWEFR-SA ⑪*

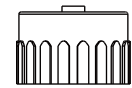
*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

No of Contacts	2	3	4	5	6	7
Rated Voltage (AC/DC)	277V					
Nominal Current	12A	12A	12A	16A	8A	8A
Plastic / Metal	Plastic					
Pin Assignment	FF	FF	FF	FF	FF	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact						
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)						
⑪ Cable Length: (01) 1M ~ (99) 99M ^①						
	UL2464, PVC Jacket	PWF-02AFFM-SL7A ⑪	PWF-03AFFM-SL7A ⑪	PWF-04AFFM-SL7A ⑪	PWF-04AFFM-SL7A ⑪*	PWE-05AFFM-SL7A ⑪
RIGHT ANGLE , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)						
⑪ Cable Length: (01) 1M ~ (99) 99M ^①						
	UL2464, PVC Jacket	PWF-02AFFM-SR7A ⑪*	PWF-03AFFM-SR7A ⑪*	PWF-04AFFM-SR7A ⑪*	PWF-04AFFM-SR7A ⑪*	PWE-05AFFM-SR7A ⑪*
STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP67 (Mated)						
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ^① Connector / Contact Gender: (F) FF						
	UL2464, PVC Jacket	AG-PWF02FL-PWFFL-SA ⑪	AG-PWF03FL-PWFFL-SA ⑪*	AG-PWF04FL-PWFFL-SA ⑪*	AG-PWF04FL-PWFFL-SA ⑪*	AG-PWF04FL-PWFFL-SA ⑪*
RIGHT ANGLE-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, IP67 (Mated)						
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ^① Connector / Contact Gender: (F) FF						
	UL2464, PVC Jacket	AG-PWF02FR-PWFFR-SA ⑪*	AG-PWF03FR-PWFFR-SA ⑪*	AG-PWF04FR-PWFFR-SA ⑪*	AG-PWF04FR-PWFFR-SA ⑪*	AG-PWF04FR-PWFFR-SA ⑪*
STRAIGHT-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, IP67 (Mated)						
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ^① Connector / Contact Gender: (F) FF						
	UL2464, PVC Jacket	AG-PWF02FL-PWFFR-SA ⑪*	AG-PWF03FL-PWFFR-SA ⑪*	AG-PWF04FL-PWFFR-SA ⑪*	AG-PWF04FL-PWFFR-SA ⑪*	AG-PWF04FL-PWFFR-SA ⑪*
PWE / PWF - Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Mated)						
Nut Torque Value: 5 ~ 8 kgf.cm Recommended Panel Thickness: min. 8.0mm						
	Solder Type	PWF-02PFFS-SC7001	PWF-03PFFS-SC7001	PWF-04PFFS-SC7001	-	PWE-05PFFS-SC7001
PWG - Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Mated)						
Nut Torque Value: 5 ~ 8 kgf.cm Recommended Panel Thickness: min. 8.0mm						
	Screw-In Type, Gold Plated	-	-	-	PWG-04PFFB-SC7001	-
	Screw-In Type, Silver Plated	-	-	-	PWG-04PFFB-SC7002	-
	Screw-In Type, Tin Plated	-	-	-	PWG-04PFFB-SC7003	-
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated)						
Sealing Nut Torque Value: 8 ~ 15 kgf.cm Recommended Cable O.D.: (PWE)(PWF) 5.5 ~ 10.8mm, (PWG) 6.0 ~ 9.0mm, 9.1 ~ 12.5mm						
	Solder Type	PWF-02BFFA-SL7001	PWF-03BFFA-SL7001	PWF-04BFFA-SL7001	-	PWE-05BFFA-SL7001
	Screw-In Type, Gold Plated	-	-	-	PWG-04BFFB-SL7001	-
	Screw-In Type, Silver Plated	-	-	-	PWG-04BFFB-SL7002	-
	Screw-In Type, Tin Plated	-	-	-	PWG-04BFFB-SL7003	-
Field Serviceable/Installable, RIGHT ANGLE , Without Strain Relief, IP67 (Mated)						
Sealing Nut Torque Value: 5 ~ 8 kgf.cm Recommended Cable O.D.: (PWE)(PWF) 5.5 ~ 10.8mm, (PWG) 6.0 ~ 9.0mm, 9.1 ~ 12.5mm						
	Screw-In Type, Gold Plated	-	-	-	PWG-04BFFB-SR7001	-
	Screw-In Type, Silver Plated	-	-	-	PWG-04BFFB-SR7002	-
	Screw-In Type, Tin Plated	-	-	-	PWG-04BFFB-SR7003	-

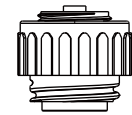
Waterproof Cap

Size: PWE (8A), PWF (12A), PWG (16A)
Mating Style: Screw Thread



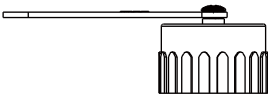
None (For Male)

- Mating Pair: Receptacle & Overmolded with Cable
- Part Number: CAP-WTAMSMA1



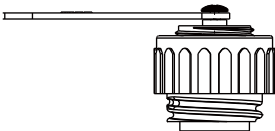
None (For Female)

- Mating Pair: Receptacle & Overmolded with Cable
- Part Number: CAP-WTAFSMA1



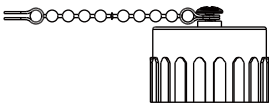
With Rubber Lead (For Male)

- Mating Pair: Receptacle
- Part Number: CAP-WTAMSPC1



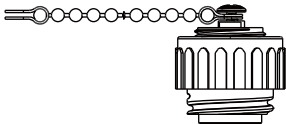
With Rubber Lead (For Female)

- Mating Pair: Receptacle
- Part Number: CAP-WTAFSPC1



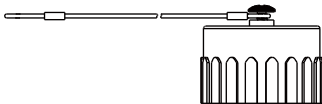
With Chain (For Male)

- Mating Pair: Receptacle
- Part Number: CAP-WTAMSPB1



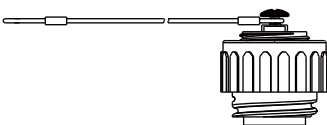
With Chain (For Female)

- Mating Pair: Receptacle
- Part Number: CAP-WTAFSPB1*



With Fish Line (For Male)

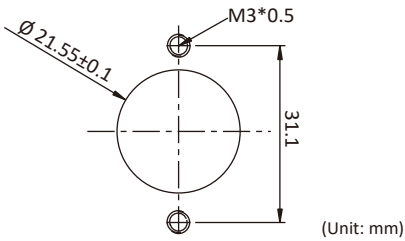
- Mating Pair: Receptacle
- Part Number: CAP-WTAMSPD1






With Fish Line (For Female)

- Mating Pair: Receptacle
- Part Number: CAP-WTAFSPD1

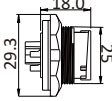
Panel Cut Out



No of Contacts	3		4 (3+1)		12 (6+6)
Rated Voltage (AC/DC)	277V				
Nominal Current	20A		20A+2A		20A+2A
Plastic / Metal	Plastic				
Pin Assignment	MM	MF	MM	MF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact					

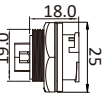
Receptacle, Circular Flange, FRONT Fastened Nut, IP67 (Mated)

Nut Torque Value: 5 ~ 8 kgf.cm | Recommended Panel Thickness: max 4.5mm

	Solder Type, UL	PWC-03PMMS-LC7001	PWC-03PMFS-LC7001	-	-	-
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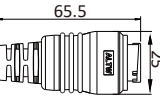
Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Mated)

Nut Torque Value: 5 ~ 8 kgf.cm | Recommended Panel Thickness: max 4.5mm

	Solder Type, UL	PWC-03RMMS-LC7002	PWC-03RMFS-LC7002	PWCU-04RMMS-LC7002	PWCU-04RMFS-LC7002	PWCU-12RMMS-LC7002*
	Solder Type, Non-UL	PWC-03RMMS-LC7001	PWC-03RMFS-LC7001	PWCU-04RMMS-LC7001	PWCU-04RMFS-LC7001	PWCU-12RMMS-LC7001*

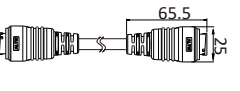
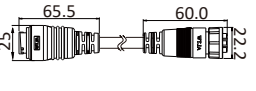
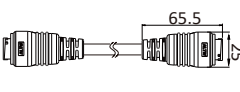
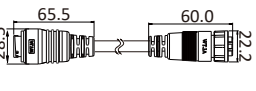
STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)

⑪ Cable Length: (01) 1M ~ (99) 99M¹⁾

	UL2464, PVC Jacket	PWC-03AMMM-LL7A ⑪	PWC-03AMFM-LL7A ⑪	PWCU-04AMMM-LL7A ⑪	PWCU-04AMFM-LL7A ⑪	PWCU-12AMMM-LL7A ⑪*
	TC TYPE(TC-ER), PVC Jacket	PWC-03AMMM-LL7B ⑪	PWC-03AMFM-LL7B ⑪	PWCU-04AMMM-LL7B ⑪	PWCU-04AMFM-LL7B ⑪	PWCU-12AMMM-LL7B ⑪*
	SJTW, PVC Jacket	PWC-03AMMM-LL7D ⑪	PWC-03AMFM-LL7D ⑪	PWCU-04AMMM-LL7D ⑪*	PWCU-04AMFM-LL7D ⑪*	PWCU-12AMMM-LL7D ⑪*
	VDE H05, PVC Jacket	PWC-03AMMM-LL7E ⑪	PWC-03AMFM-LL7E ⑪	PWCU-04AMMM-LL7E ⑪*	PWCU-04AMFM-LL7E ⑪*	PWCU-12AMMM-LL7E ⑪*

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

⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF

	End1: (M) MM End2: (M) MM	UL2464, PVC Jacket	AG-PWC03ML-PWCML-LA ⑪*	-	AG-PWC04ML-PWCUML-LA ⑪*	-	AG-PWC12ML-PWCUML-LA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03ML-PWCML-LB ⑪*	-	AG-PWC04ML-PWCUML-LB ⑪*	-	AG-PWC12ML-PWCUML-LB ⑪*
		SJTW, PVC Jacket	AG-PWC03ML-PWCML-LD ⑪*	-	AG-PWC04ML-PWCUML-LD ⑪*	-	AG-PWC12ML-PWCUML-LD ⑪*
		VDE H05, PVC Jacket	AG-PWC03ML-PWCML-LE ⑪*	-	AG-PWC04ML-PWCUML-LE ⑪*	-	AG-PWC12ML-PWCUML-LE ⑪*
	End1: (M) MM End2: (F) FF	UL2464, PVC Jacket	AG-PWC03ML-PWCFL-LA ⑪*	-	AG-PWC04ML-PWCUFL-LA ⑪*	-	AG-PWC12ML-PWCUFL-LA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03ML-PWCFL-LB ⑪*	-	AG-PWC04ML-PWCUFL-LB ⑪*	-	AG-PWC12ML-PWCUFL-LB ⑪*
		SJTW, PVC Jacket	AG-PWC03ML-PWCFL-LD ⑪*	-	AG-PWC04ML-PWCUFL-LD ⑪*	-	AG-PWC12ML-PWCUFL-LD ⑪*
		VDE H05, PVC Jacket	AG-PWC03ML-PWCFL-LE ⑪*	-	AG-PWC04ML-PWCUFL-LE ⑪*	-	AG-PWC12ML-PWCUFL-LE ⑪*
	End1: (H) MF End2: (H) MF	UL2464, PVC Jacket	-	AG-PWC03HL-PWCHL-LA ⑪*	-	AG-PWC04HL-PWCUHL-LA ⑪*	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03HL-PWCHL-LB ⑪*	-	AG-PWC04HL-PWCUHL-LB ⑪*	-
		SJTW, PVC Jacket	-	AG-PWC03HL-PWCHL-LD ⑪*	-	AG-PWC04HL-PWCUHL-LD ⑪*	-
		VDE H05, PVC Jacket	-	AG-PWC03HL-PWCHL-LE ⑪*	-	AG-PWC04HL-PWCUHL-LE ⑪*	-
	End1: (H) MF End2: (B) FM	UL2464, PVC Jacket	-	AG-PWC03HL-PWCBL-LA ⑪*	-	AG-PWC04HL-PWCUBL-LA ⑪*	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03HL-PWCBL-LB ⑪*	-	AG-PWC04HL-PWCUBL-LB ⑪*	-
		SJTW, PVC Jacket	-	AG-PWC03HL-PWCBL-LD ⑪*	-	AG-PWC04HL-PWCUBL-LD ⑪*	-
		VDE H05, PVC Jacket	-	AG-PWC03HL-PWCBL-LE ⑪*	-	AG-PWC04HL-PWCUBL-LE ⑪*	-

*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

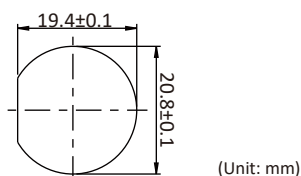
No of Contacts		3		4 (3+1)		12 (6+6)		
Rated Voltage (AC/DC)		277V						
Nominal Current		20A		20A+2A		20A+2A		
Plastic / Metal		Plastic						
Pin Assignment		MM	MF	MM	MF	MM		
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact								
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 8 ~ 15 kgf.cm								
<div>MM</div> <div></div> <div>MF</div> <div></div>		Solder Type	Cable OD: 4.0 ~ 7.6mm	PWC-03B MM A-LL7001 *	PWC-03B MF A-LL7001 *	-	-	-
			Cable OD: 7.7 ~ 9.6mm	-	-	PWCU-04B MM A-LL7001 *	PWCU-04B MF A-LL7001 *	PWCU-12B MM A-LL7001 *
<div></div>		Screw-In Type	Cable OD: 6.0 ~ 8.0mm	PWC-03B MM B-LL7SPP	PWC-03B MF B-LL7SPP	-	-	-
			Cable OD: 8.0 ~ 10.0mm	PWC-03B MM B-LL7MPP	PWC-03B MF B-LL7MPP	-	-	-
			Cable OD: 10.0 ~ 12.0mm	PWC-03B MM B-LL7LPP	PWC-03B MF B-LL7LPP	-	-	-




STRAIGHT-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, IP67 (Mated) ① Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF							
	End1: (M) MM End2: (F) FF	UL2464, PVC Jacket	AG-PWC03 ML -PWCFR-LA ① *	-	AG-PWCU04 ML -PWCUFR-LA ① *	-	AG-PWCU12 ML -PWCUFR-LA ① *
		TC Type (TC-ER), PVC Jacket	AG-PWC03 ML -PWCFR-LB ① *	-	AG-PWCU04 ML -PWCUFR-LB ① *	-	AG-PWCU12 ML -PWCUFR-LB ① *
		SJTW, PVC Jacket	AG-PWC03 ML -PWCFR-LD ① *	-	AG-PWCU04 ML -PWCUFR-LD ① *	-	AG-PWCU12 ML -PWCUFR-LD ① *
		VDE H05, PVC Jacket	AG-PWC03 ML -PWCFR-LE ① *	-	AG-PWCU04 ML -PWCUFR-LE ① *	-	AG-PWCU12 ML -PWCUFR-LE ① *
	End1: (H) MF End2: (F) FF	UL2464, PVC Jacket	-	AG-PWC03 HL -PWCBR-LA ① *	-	AG-PWCU04 HL -PWCUBR-LA ① *	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03 HL -PWCBR-LB ① *	-	AG-PWCU04 HL -PWCUBR-LB ① *	-
		SJTW, PVC Jacket	-	AG-PWC03 HL -PWCBR-LD ① *	-	AG-PWCU04 HL -PWCUBR-LD ① *	-
		VDE H05, PVC Jacket	-	AG-PWC03 HL -PWCBR-LE ① *	-	AG-PWCU04 HL -PWCUBR-LE ① *	-

*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

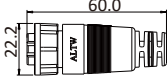
Panel Cut Out



No of Contacts	3		4 (3+1)		12 (6+6)
Rated Voltage (AC/DC)	277V				
Nominal Current	20A		20A+2A		20A+2A
Plastic / Metal	Plastic				
Pin Assignment	FF	FM	FF	FM	FF
FF: Female Connector Female Contact FM: Female Connector Male Contact					

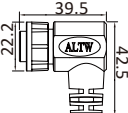
STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)

⑪ Cable Length: (01) 1M ~ (99) 99M^①

	UL2464, PVC Jacket	PWC-03AFFM-LL7A ⑪	PWC-03AFMM-LL7A ⑪	PWCU-04AFFM-LL7A ⑪	PWCU-04AFMM-LL7A ⑪	PWCU-12AFFM-LL7A ⑪*
	TC Type (TC-ER), PVC Jacket	PWC-03AFFM-LL7B ⑪	PWC-03AFMM-LL7B ⑪	PWCU-04AFFM-LL7B ⑪	PWCU-04AFMM-LL7B ⑪	PWCU-12AFFM-LL7B ⑪*
	SJTW, PVC Jacket	PWC-03AFFM-LL7D ⑪	PWC-03AFMM-LL7D ⑪	PWCU-04AFFM-LL7D ⑪*	PWCU-04AFMM-LL7D ⑪*	PWCU-12AFFM-LL7D ⑪*
	VDE H05, PVC Jacket	PWC-03AFFM-LL7E ⑪	PWC-03AFMM-LL7E ⑪	PWCU-04AFFM-LL7E ⑪*	PWCU-04AFMM-LL7E ⑪*	PWCU-12AFFM-LL7E ⑪*

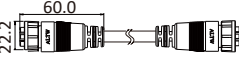
RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)

⑪ Cable Length: (01) 1M ~ (99) 99M^①

	UL2464, PVC Jacket	PWC-03AFFM-LR7A ⑪*	PWC-03AFMM-LR7A ⑪*	PWCU-04AFFM-LR7A ⑪*	PWCU-04AFMM-LR7A ⑪*	PWCU-12AFFM-LR7A ⑪*
	TC Type (TC-ER), PVC Jacket	PWC-03AFFM-LR7B ⑪*	PWC-03AFMM-LR7B ⑪*	PWCU-04AFFM-LR7B ⑪*	PWCU-04AFMM-LR7B ⑪*	PWCU-12AFFM-LR7B ⑪*
	SJTW, PVC Jacket	PWC-03AFFM-LR7D ⑪*	PWC-03AFMM-LR7D ⑪*	PWCU-04AFFM-LR7D ⑪*	PWCU-04AFMM-LR7D ⑪*	PWCU-12AFFM-LR7D ⑪*
	VDE H05, PVC Jacket	PWC-03AFFM-LR7E ⑪*	PWC-03AFMM-LR7E ⑪*	PWCU-04AFFM-LR7E ⑪*	PWCU-04AFMM-LR7E ⑪*	PWCU-12AFFM-LR7E ⑪*

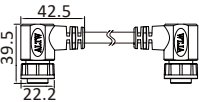
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

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

	End1: (F) FF End2: (F) FF	UL2464, PVC Jacket	AG-PWC03FL-PWCFL-LA ⑪*	AG-PWC03BL-PWCBL-LA ⑪*	AG-PWC04FL-PWCFL-LA ⑪*	AG-PWC04BL-PWCBL-LA ⑪*	AG-PWC12FL-PWCFL-LA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03FL-PWCFL-LB ⑪*	AG-PWC03BL-PWCBL-LB ⑪*	AG-PWC04FL-PWCFL-LB ⑪*	AG-PWC04BL-PWCBL-LB ⑪*	AG-PWC12FL-PWCFL-LB ⑪*
		SJTW, PVC Jacket	AG-PWC03FL-PWCFL-LD ⑪*	AG-PWC03BL-PWCBL-LD ⑪*	AG-PWC04FL-PWCFL-LD ⑪*	AG-PWC04BL-PWCBL-LD ⑪*	AG-PWC12FL-PWCFL-LD ⑪*
		VDE H05, PVC Jacket	AG-PWC03FL-PWCFL-LE ⑪*	AG-PWC03BL-PWCBL-LE ⑪*	AG-PWC04FL-PWCFL-LE ⑪*	AG-PWC04BL-PWCBL-LE ⑪*	AG-PWC12FL-PWCFL-LE ⑪*

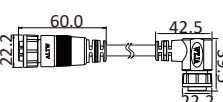
RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

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

	End1: (F) FF End2: (F) FF	UL2464, PVC Jacket	AG-PWC03FR-PWCFL-LA ⑪*	AG-PWC03BR-PWCBL-LA ⑪*	AG-PWC04FR-PWCFL-LA ⑪*	AG-PWC04BR-PWCBL-LA ⑪*	AG-PWC12FR-PWCFL-LA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03FR-PWCFL-LB ⑪*	AG-PWC03BR-PWCBL-LB ⑪*	AG-PWC04FR-PWCFL-LB ⑪*	AG-PWC04BR-PWCBL-LB ⑪*	AG-PWC12FR-PWCFL-LB ⑪*
		SJTW, PVC Jacket	AG-PWC03FR-PWCFL-LD ⑪*	AG-PWC03BR-PWCBL-LD ⑪*	AG-PWC04FR-PWCFL-LD ⑪*	AG-PWC04BR-PWCBL-LD ⑪*	AG-PWC12FR-PWCFL-LD ⑪*
		VDE H05, PVC Jacket	AG-PWC03FR-PWCFL-LE ⑪*	AG-PWC03BR-PWCBL-LE ⑪*	AG-PWC04FR-PWCFL-LE ⑪*	AG-PWC04BR-PWCBL-LE ⑪*	AG-PWC12FR-PWCFL-LE ⑪*

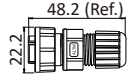
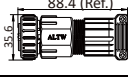
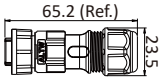
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)

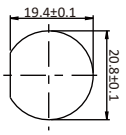
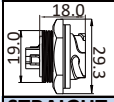
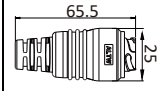
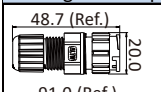
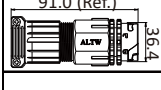
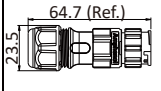
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M^① | Connector / Contact Gender: (F) FF, (B) FM

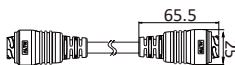
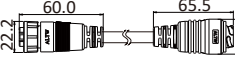
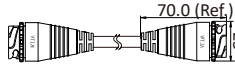
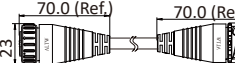
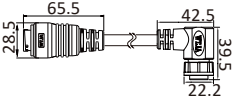
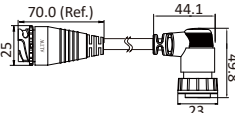
	End1: (F) FF End2: (F) FF	UL2464, PVC Jacket	AG-PWC03FL-PWCFL-LA ⑪*	AG-PWC03BL-PWCBL-LA ⑪*	AG-PWC04FL-PWCFL-LA ⑪*	AG-PWC04BL-PWCBL-LA ⑪*	AG-PWC12FL-PWCFL-LA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03FL-PWCFL-LB ⑪*	AG-PWC03BL-PWCBL-LB ⑪*	AG-PWC04FL-PWCFL-LB ⑪*	AG-PWC04BL-PWCBL-LB ⑪*	AG-PWC12FL-PWCFL-LB ⑪*
		SJTW, PVC Jacket	AG-PWC03FL-PWCFL-LD ⑪*	AG-PWC03BL-PWCBL-LD ⑪*	AG-PWC04FL-PWCFL-LD ⑪*	AG-PWC04BL-PWCBL-LD ⑪*	AG-PWC12FL-PWCFL-LD ⑪*
		VDE H05, PVC Jacket	AG-PWC03FL-PWCFL-LE ⑪*	AG-PWC03BL-PWCBL-LE ⑪*	AG-PWC04FL-PWCFL-LE ⑪*	AG-PWC04BL-PWCBL-LE ⑪*	AG-PWC12FL-PWCFL-LE ⑪*

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

Sealing Nut Torque Value: 8 ~ 15 kgf.cm




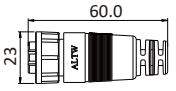
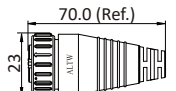
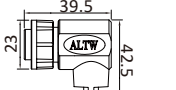
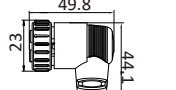
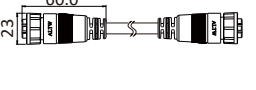
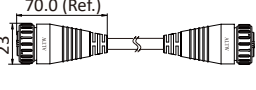
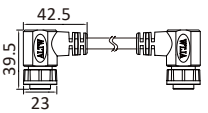
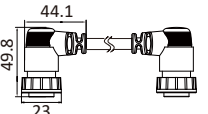
	(3/4 Pins)	Solder Type, UL	Cable OD: 4.0 ~ 7.6mm	PWC-03BFFA-LL7002	PWC-03BFMA-LL7002	-	-	-
	(12 Pins)	Solder Type, Non-UL	Cable OD: 7.7 ~ 9.6mm	-	-	PWCU-04BFFA-LL7002	PWCU-04BFMA-LL7002	PWCU-12BFFA-LL7002*
	(12 Pins)	Screw-In Type	Cable OD: 4.0 ~ 7.6mm	PWC-03BFFA-LL7001	PWC-03BFMA-LL7001	-	-	-
			Cable OD: 7.7 ~ 9.6mm	-	-	PWCU-04BFFA-LL7001*	-	PWCU-12BFFA-LL7001*
	(12 Pins)	Screw-In Type	Cable OD: 6.0 ~ 8.0mm	PWC-03BFFB-LL7SPP	PWC-03BFMB-LL7SPP	-	-	-
			Cable OD: 8.0 ~ 10.0mm	PWC-03BFFB-LL7MPP	PWC-03BFMB-LL7MPP	-	-	-
			Cable OD: 10.0 ~ 12.0mm	PWC-03BFFB-LL7LPP	PWC-03BFMB-LL7LPP	-	-	-




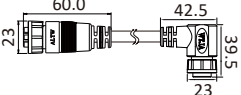
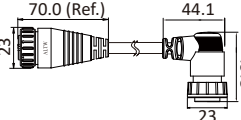
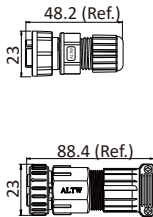
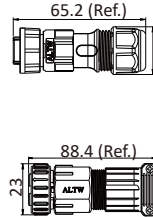
No of Contacts	Panel Cut Out  (Unit: mm)	3		4 (3+1)	12 (6+6)
Rated Voltage (AC/DC)		277V			
Nominal Current		20A		20A+2A	20A+2A
Plastic / Metal		Plastic			
Pin Assignment		MM	MF	MM	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact					
Receptacle, Circular Flange, REAR Fastened Nut, IP67 (Mated) Nut Torque Value: 5 ~ 8 kgf.cm Recommended Panel Thickness: max 4.5mm					
	Solder Type, UL	PWC-03R MM S-TC7001	PWC-03R MF S-TC7001	-	-
STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated) ⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾					
	UL2464, PVC Jacket	PWC-03A MM M-TL7A ⑪	PWC-03A MF M-TL7A ⑪	PWCU-04A MM M-TL7A ⑪ *	PWCU-12A MM M-TL7A ⑪ *
	TC TYPE(TC-ER), PVC Jacket	PWC-03A MM M-TL7B ⑪	PWC-03A MF M-TL7B ⑪	PWCU-04A MM M-TL7B ⑪ *	PWCU-12A MM M-TL7B ⑪ *
	SJTW, PVC Jacket	PWC-03A MM M-TL7D ⑪ *	PWC-03A MF M-TL7D ⑪ *	PWCU-04A MM M-TL7D ⑪ *	PWCU-12A MM M-TL7D ⑪ *
	VDE H05, PVC Jacket	PWC-03A MM M-TL7E ⑪ *	PWC-03A MF M-TL7E ⑪ *	PWCU-04A MM M-TL7E ⑪ *	PWCU-12A MM M-TL7E ⑪ *
Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 8 ~ 15 kgf.cm					
 (3/4 Pins)	Solder Type	Cable OD: 4.0 ~ 7.6mm	PWC-03B MM A-TL7S001 *	-	-
 (12 Pins)		Cable OD: 7.7 ~ 9.6mm	-	-	PWCU-04B MM A-TL7L001 *
	Screw-In Type	Cable OD: 6.0 ~ 8.0mm	PWC-03B MM B-TL7SPP*	PWC-03B MF B-TL7SPP*	-
		Cable OD: 8.0 ~ 10.0mm	PWC-03B MM B-TL7MPP*	PWC-03B MF B-TL7MPP*	-
		Cable OD: 10.0 ~ 12.0mm	PWC-03B MM B-TL7LPP*	PWC-03B MF B-TL7LPP*	-

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)						
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF						
	End1: (M) MM End2: (M) MM	UL2464, PVC Jacket	AG-PWC03ML-PWCML-TA ⑪*	-	AG-PWCU04ML-PWCUML-TA ⑪*	AG-PWCU12ML-PWCUML-TA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03ML-PWCML-TB ⑪*	-	AG-PWCU04ML-PWCUML-TB ⑪*	AG-PWCU12ML-PWCUML-TB ⑪*
		SJTW, PVC Jacket	AG-PWC03ML-PWCML-TD ⑪*	-	AG-PWCU04ML-PWCUML-TD ⑪*	AG-PWCU12ML-PWCUML-TD ⑪*
		VDE H05, PVC Jacket	AG-PWC03ML-PWCML-TE ⑪*	-	AG-PWCU04ML-PWCUML-TE ⑪*	AG-PWCU12ML-PWCUML-TE ⑪*
	End1: (M) MM End2: (F) FF	UL2464, PVC Jacket	AG-PWC03ML-PWCFL-TA ⑪*	-	AG-PWCU04ML-PWCUFL-TA ⑪*	AG-PWCU12ML-PWCUFL-TA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03ML-PWCFL-TB ⑪*	-	AG-PWCU04ML-PWCUFL-TB ⑪*	AG-PWCU12ML-PWCUFL-TB ⑪*
		SJTW, PVC Jacket	AG-PWC03ML-PWCFL-TD ⑪*	-	AG-PWCU04ML-PWCUFL-TD ⑪*	AG-PWCU12ML-PWCUFL-TD ⑪*
		VDE H05, PVC Jacket	AG-PWC03ML-PWCFL-TE ⑪*	-	AG-PWCU04ML-PWCUFL-TE ⑪*	AG-PWCU12ML-PWCUFL-TE ⑪*
	End1: (H) MF End2: (H) MF	UL2464, PVC Jacket	-	AG-PWC03HL-PWCHL-TA ⑪*	-	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03HL-PWCHL-TB ⑪*	-	-
		SJTW, PVC Jacket	-	AG-PWC03HL-PWCHL-TD ⑪*	-	-
		VDE H05, PVC Jacket	-	AG-PWC03HL-PWCHL-TE ⑪*	-	-
	End1: (H) MF End2: (B) FM	UL2464, PVC Jacket	-	AG-PWC03HL-PWCBL-TA ⑪*	-	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03HL-PWCBL-TB ⑪*	-	-
		SJTW, PVC Jacket	-	AG-PWC03HL-PWCBL-TD ⑪*	-	-
		VDE H05, PVC Jacket	-	AG-PWC03HL-PWCBL-TE ⑪*	-	-
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)						
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF						
	End1: (F) FF End2: (M) MM	UL2464, PVC Jacket	AG-PWC03ML-PWCFR-TA ⑪*	-	AG-PWCU04ML-PWCUFR-TA ⑪*	AG-PWCU12ML-PWCUFR-TA ⑪*
		TC Type (TC-ER), PVC Jacket	AG-PWC03ML-PWCFR-TB ⑪*	-	AG-PWCU04ML-PWCUFR-TB ⑪*	AG-PWCU12ML-PWCUFR-TB ⑪*
		SJTW, PVC Jacket	AG-PWC03ML-PWCFR-TD ⑪*	-	AG-PWCU04ML-PWCUFR-TD ⑪*	AG-PWCU12ML-PWCUFR-TD ⑪*
		VDE H05, PVC Jacket	AG-PWC03ML-PWCFR-TE ⑪*	-	AG-PWCU04ML-PWCUFR-TE ⑪*	AG-PWCU12ML-PWCUFR-TE ⑪*
	End1: (H) MF End2: (B) FM	UL2464, PVC Jacket	-	AG-PWC03HL-PWCBR-TA ⑪*	-	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03HL-PWCBR-TB ⑪*	-	-
		SJTW, PVC Jacket	-	AG-PWC03HL-PWCBR-TD ⑪*	-	-
		VDE H05, PVC Jacket	-	AG-PWC03HL-PWCBR-TE ⑪*	-	-

*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

No of Contacts			3	4 (3+1)	12 (6+6)
Rated Voltage (AC/DC)			277V		
Nominal Current			20A	20A+2A	20A+2A
Plastic / Metal			Plastic		
Pin Assignment			FF	FM	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact					
STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)					
11 Cable Length: (01) 1M ~ (99) 99M ¹⁾					
 	FF	UL2464, PVC Jacket	PWC-03AFFM-TL7A 11	PWC-03AFMM-TL7A 11	PWCU-04AFFM-TL7A 11 *
		TC Type (TC-ER), PVC Jacket	PWC-03AFFM-TL7B 11	PWC-03AFMM-TL7B 11	PWCU-04AFFM-TL7B 11 *
	FM	SJTW, PVC Jacket	PWC-03AFFM-TL7D 11 *	PWC-03AFMM-TL7D 11 *	PWCU-04AFFM-TL7D 11 *
		VDE H05, PVC Jacket	PWC-03AFFM-TL7E 11 *	PWC-03AFMM-TL7E 11 *	PWCU-04AFFM-TL7E 11 *
RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)					
11 Cable Length: (01) 1M ~ (99) 99M ¹⁾					
 	FF	UL2464, PVC Jacket	PWC-03AFFM-TR7A 11 *	PWC-03AFMM-TR7A 11 *	PWCU-04AFFM-TR7A 11 *
		TC Type (TC-ER), PVC Jacket	PWC-03AFFM-TR7B 11 *	PWC-03AFMM-TR7B 11 *	PWCU-04AFFM-TR7B 11 *
	FM	SJTW, PVC Jacket	PWC-03AFFM-TR7D 11 *	PWC-03AFMM-TR7D 11 *	PWCU-04AFFM-TR7D 11 *
		VDE H05, PVC Jacket	PWC-03AFFM-TR7E 11 *	PWC-03AFMM-TR7E 11 *	PWCU-04AFFM-TR7E 11 *
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (F) FF, (B) FM					
	End1: (F) FF End2: (F) FF	UL2464, PVC Jacket	AG-PWC03FL-PWCFL-TA 11 *	-	AG-PWCU04FL-PWCUFL-TA 11 *
		TC Type (TC-ER), PVC Jacket	AG-PWC03FL-PWCFL-TB 11 *	-	AG-PWCU04FL-PWCUFL-TB 11 *
		SJTW, PVC Jacket	AG-PWC03FL-PWCFL-TD 11 *	-	AG-PWCU04FL-PWCUFL-TD 11 *
		VDE H05, PVC Jacket	AG-PWC03FL-PWCFL-TE 11 *	-	AG-PWCU04FL-PWCUFL-TE 11 *
	End1: (B) FM End2: (B) FM	UL2464, PVC Jacket	-	AG-PWC03BL-PWCBL-TA 11 *	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03BL-PWCBL-TB 11 *	-
		SJTW, PVC Jacket	-	AG-PWC03BL-PWCBL-TD 11 *	-
		VDE H05, PVC Jacket	-	AG-PWC03BL-PWCBL-TE 11 *	-
RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)					
11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (F) FF, (B) FM					
	End1: (F) FF End2: (F) FF	UL2464, PVC Jacket	AG-PWC03FR-PWCFR-TA 11 *	-	AG-PWCU04FR-PWCUFR-TA 11 *
		TC Type (TC-ER), PVC Jacket	AG-PWC03FR-PWCFR-TB 11 *	-	AG-PWCU04FR-PWCUFR-TB 11 *
		SJTW, PVC Jacket	AG-PWC03FR-PWCFR-TD 11 *	-	AG-PWCU04FR-PWCUFR-TD 11 *
		VDE H05, PVC Jacket	AG-PWC03FR-PWCFR-TE 11 *	-	AG-PWCU04FR-PWCUFR-TE 11 *
	End1: (B) FM End2: (B) FM	UL2464, PVC Jacket	-	AG-PWC03BR-PWCBR-TA 11 *	-
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03BR-PWCBR-TB 11 *	-
		SJTW, PVC Jacket	-	AG-PWC03BR-PWCBR-TD 11 *	-
		VDE H05, PVC Jacket	-	AG-PWC03BR-PWCBR-TE 11 *	-

No of Contacts		3		4 (3+1)		12 (6+6)	
Rated Voltage (AC/DC)		277V					
Nominal Current		20A		20A+2A		20A+2A	
Plastic / Metal		Plastic					
Pin Assignment		FF		FM		FF	
FF: Female Connector Female Contact FM: Female Connector Male Contact							
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, IP67 (Mated)							
⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (F) FF, (B) FM							
	End1: (F) FF End2: (F) FF	UL2464, PVC Jacket	AG-PWC03FL-PWCFR-TA ⑪ *	-	AG-PWCU04FL-PWCUFR-TA ⑪ *	AG-PWCU12FL-PWCUFR-TA ⑪ *	
		TC Type (TC-ER), PVC Jacket	AG-PWC03FL-PWCFR-TB ⑪ *	-	AG-PWCU04FL-PWCUFR-TB ⑪ *	AG-PWCU12FL-PWCUFR-TB ⑪ *	
		SJTW, PVC Jacket	AG-PWC03FL-PWCFR-TD ⑪ *	-	AG-PWCU04FL-PWCUFR-TD ⑪ *	AG-PWCU12FL-PWCUFR-TD ⑪ *	
		VDE H05, PVC Jacket	AG-PWC03FL-PWCFR-TE ⑪ *	-	AG-PWCU04FL-PWCUFR-TE ⑪ *	AG-PWCU12FL-PWCUFR-TE ⑪ *	
	End1: (B) FM End2: (B) FM	UL2464, PVC Jacket	-	AG-PWC03BL-PWCBR-TA ⑪ *	-	-	
		TC Type (TC-ER), PVC Jacket	-	AG-PWC03BL-PWCBR-TB ⑪ *	-	-	
		SJTW, PVC Jacket	-	AG-PWC03BL-PWCBR-TD ⑪ *	-	-	
		VDE H05, PVC Jacket	-	AG-PWC03BL-PWCBR-TE ⑪ *	-	-	
Field Serviceable/Installable, STRAIGHT, Without Strain Relief, IP67 (Mated)							
Sealing Nut Torque Value: 8 ~ 15 kgf.cm							
	Solder Type, UL	Cable OD: 7.7 ~ 9.6mm	-	-	PWCU-04BFFA-TL7L002 *	PWCU-12BFFA-TL7L002 *	
	Solder Type, Non UL (12 Pin)	Cable OD: 4.0 ~ 7.6mm	PWC-03BFFA-TL7001	PWC-03BFMA-TL7001	-	-	
		Cable OD: 7.7 ~ 9.6mm	-	-	PWCU-04BFFA-TL7L001 *	PWCU-12BFFA-TL7001	
	Screw-In Type	Cable OD: 6.0 ~ 8.0mm	PWC-03BFFB-TL7SPP *	PWC-03BFMB-TL7SPP *	-	-	
		Cable OD: 8.0 ~ 10.0mm	PWC-03BFFB-TL7MPP *	PWC-03BFMB-TL7MPP *	-	-	
		Cable OD: 10.0 ~ 12.0mm	PWC-03BFFB-TL7LPP *	PWC-03BFMB-TL7LPP *	-	-	

Waterproof Cap

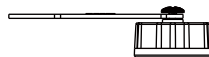
Size: PWC (20A), PWCU (20A+2A)

Mating Style: 2 Points Lock Bayonet



None (For Male)

- Mating Pair: Receptacle & Overmolded with Cable
- Part Number: CAP-WACMLMA1



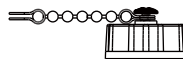
With Rubber Lead (For Male)

- Mating Pair: Receptacle
- Part Number: CAP-WACMLPC1



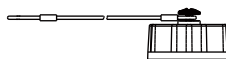
None (For Female)

- Mating Pair: Receptacle & Overmolded with Cable
- Part Number: CAP-WACFLMA2





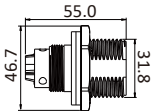
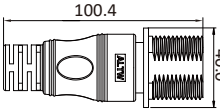
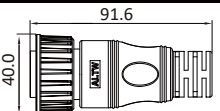
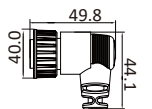
With Chain (For Male)

- Mating Pair: Receptacle
- Part Number: CAP-WACMLPB1


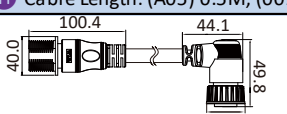

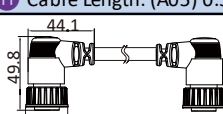
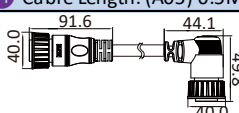


With Fish Line (For Male)

- Mating Pair: Receptacle
- Part Number: CAP-WACMLPD1*

No of Contacts	3		5	
Rated Voltage (AC/DC)	250 ~ 600V			
Nominal Current	25A			
Plastic / Metal	Plastic			
Pin Assignment	MM/FF		MM/FF	
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				
Nut Torque Value: 8 ~ 10 kgf.cm Recommended Panel Thickness: max. 5.0mm				
	Solder Type, IP67 (Mated)	PWH-03P MM B-SC7001	PWH-05P MM B-SC7001*	
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)				
⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾				
	SJT, PVC Jacket	PWH-03A MM M-SL7A ⑪	PWH-05A MM M-SL7A ⑪*	
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)				
⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾				
	SJT, PVC Jacket	PWH-03A FF M-SL7A ⑪	PWH-05A FF M-SL7A ⑪*	
RIGHT ANGLE , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)				
⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾				
	SJT, PVC Jacket	PWH-03A FF M-SR7A ⑪*	PWH-05A FF M-SR7A ⑪*	

Overmolded Double-Ended Cable Assembly:

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, SJT, PVC Jacket, IP67 (Mated) 11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM, (F) FF			
	End1: (M) MM End2: (M) MM	AG-PWH03 ML -PWH ML -SA 11*	AG-PWH05 ML -PWH ML -SA 11*
	End1: (M) MM End2: (F) FF	AG-PWH03 ML -PWH FL -SA 11*	AG-PWH05 ML -PWH FL -SA 11*
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, SJT, PVC Jacket, IP67 (Mated) 11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM, (F) FF			
	End1: (M) MM End2: (F) FF	AG-PWH03 ML -PWH FR -SA 11*	AG-PWH05 ML -PWH FR -SA 11*
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, SJT, PVC Jacket, IP67 (Mated) 11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (F) FF			
	End1: (F) FF End2: (F) FF	AG-PWH03 FL -PWH FL -SA 11*	AG-PWH05 FL -PWH FL -SA 11*
RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, SJT, PVC Jacket, IP67 (Mated) 11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (F) FF			
	End1: (F) FF End2: (F) FF	AG-PWH03 FR -PWH FR -SA 11*	AG-PWH05 FR -PWH FR -SA 11*
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly, SJT, PVC Jacket, IP67 (Mated) 11 Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (F) FF			
	End1: (F) FF End2: (F) FF	AG-PWH03 FL -PWH FR -SA 11*	AG-PWH05 FL -PWH FR -SA 11*

*Upon Request

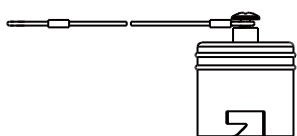
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

No of Contacts	3	5
Rated Voltage (AC/DC)	250 ~ 600V	
Nominal Current	25A	
Plastic / Metal	Plastic	
Pin Assignment	MM/FF	MM/FF
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, With Key to Unlock, IP68 (Mated) Nut Torque Value: 8 ~ 10 kgf.cm Recommended Panel Thickness: max. 5.0mm		
	Crimp Type	PWH-03P MM C-LC8001*
		PWH-05P MM C-LC8001
		PWH-05P MF C-LC8001
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP68 (Mated) Sealing Nut Torque Value: 8 ~ 10 kgf.cm		
	Crimp Type, OD 13-16mm	PWH-03B MM C-LL8001*
		PWH-05B MM C-LL8001
		PWH-05B MF C-LL8001
	Crimp Type, OD 9-12mm	PWH-03B MM C-LL8002*
		PWH-05B MM C-LL8002
		PWH-05B MF C-LL8002
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, With Key to Unlock, IP68 (Mated) Sealing Nut Torque Value: 8 ~ 10 kgf.cmy		
	Crimp Type, OD 13-16mm	PWH-03B FF C-LL8001*
		PWH-05B FF C-LL8001
		PWH-05B FM C-LL8001
	Crimp Type, OD 9-12mm	PWH-03B FF C-LL8002*
		PWH-05B FF C-LL8002
		PWH-05B FM C-LL8002

*Upon Request

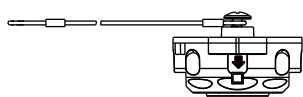
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Waterproof Cap



With Fish Line (For Female)

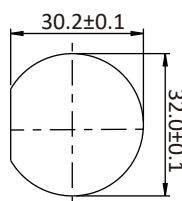
- Mating Pair: Receptacle & Overmolded with Cable
- Mating Style: 3 Points Lock Bayonet
- Part Number: CAP-WPWFTMD1



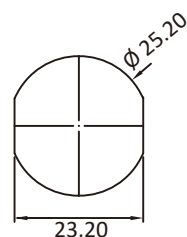
With Fish Line (For Male)

- Mating Pair: Receptacle & Overmolded with Cable
- Mating Style: 3 Points Lock Bayonet
- Part Number: CAP-WPWMTMD1

Panel Cut Out




Screw Threaded

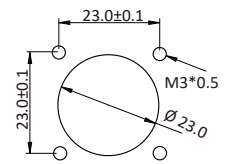


Lock Bayonet

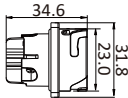
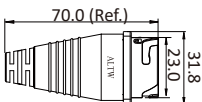
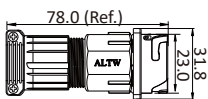
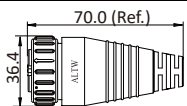
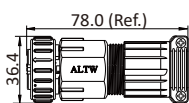
(Unit: mm)

No of Contacts	3
Rated Voltage (AC/DC)	300V
Nominal Current	30A
Plastic / Metal	Plastic
Pin Assignment MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact	

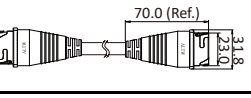
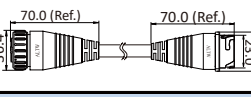
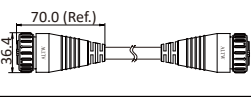
Panel Cut Out



(Unit: mm)

Receptacle, Square Flange, FRONT Fastened Nut, IP67 (Mated)		
Nut Torque Value: 10 ~ 12 kgf.cm Recommended Panel Thickness: max. 4.0mm		
	Screw-In Type (Male Contact)	PWL-03PMM B -TS7001
	Screw-In Type (Female Contact)	PWL-03PMF B -TS7001
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)		
⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾		
	UL2464, PVC Jacket (Male Contact)	PWL-03AMMM-TL7A ⑪ *
	UL2464, PVC Jacket (Female Contact)	PWL-03AMFM-TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated)		
Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 10.0mm ~ 14.5mm, 14.6mm ~ 19.0mm		
	Solder Type (Male Contact)	PWL-03BMM A -TL7001 *
	Solder Type (Female Contact)	PWL-03BMF A -TL7001 *
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated)		
⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾		
	UL2464, PVC Jacket	PWL-03AFFM-TL7A ⑪ *
	UL2464, PVC Jacket (Male Contact)	PWL-03AFMM-TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated)		
Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 10.0mm ~ 14.5mm, 14.6mm ~ 19.0mm		
	Solder Type, UL	PWL-03BFF A -TL7001
	Solder Type, Non-UL	PWL-03BFF A -TL7002
	Solder Type, UL, Male Contact	PWL-03BFM A -TL7001
	Solder Type, Non-UL, Male Contact	PWL-03BFM A -TL7002




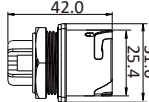

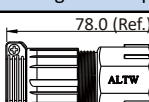
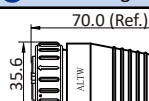
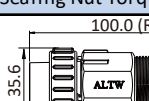
Overmolded Double-Ended Cable Assembly:

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, UL2464, PVC Jacket, IP67 (Mated) ⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M Connector / Contact Gender: (M) MM, (F) FF, (B) FM, (H) MF			M a t i n g
	End1: (M) MM End2: (M) MM	AG-PWL03ML-PWLML-TA ⑪ *	
	End1: (H) MF End2: (H) MF	AG-PWL03HL-PWLHL-TA ⑪ *	
	End1: (M) MM End2: (F) FF	AG-PWL03ML-PWLFL-TA ⑪ *	
	End1: (H) MF End2: (B) FM	AG-PWL03HL-PWLBL-TA ⑪ *	
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, UL2464, PVC Jacket, IP67 (Mated) ⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M Connector / Contact Gender: (F) FF, (B) FM			P a i r
	End1: (F) FF End2: (F) FF	AG-PWL03FL-PWLFL-TA ⑪ *	
	End1: (B) FM End2: (B) FM	AG-PWL03BL-PWLBL-TA ⑪ *	

*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

PWM / PWMU 3 Points Lock Bayonet (UL1977)

No of Contacts	2	4 (2+2)	6 (2+4)	
Rated Voltage (AC/DC)	600V			
Nominal Current	50A	50A+2A	50A+2A	
Plastic / Metal	Plastic			
Pin Assignment				
MF : Male Connector Female Contact FM : Female Connector Male Contact				
Receptacle, Square Flange, FRONT Fastened Nut, IP67 (Mated) Nut Torque Value: 10 ~ 12 kgf.cm Recommended Panel Thickness: min. 4.0mm				
	Solder Type	PWM-02RM FS - TS7001	PWMU-04RM FS - TS7001	PWMU-06RM FS - TS7001
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated) ⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾ Connector / Contact Gender: (MF) MF				
	UL2464, PVC Jacket	PWM-02AM FM - TL7A ⑪ *	PWMU-04AM FM - TL7A ⑪ *	PWMU-06AM FM - TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 14.5 ~ 19.0mm				
	Screw-In Type	PWM-02BM FB - TL7001 *	PWMU-04BM FB - TL7001 *	PWMU-06BM FB - TL7001 *
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated) ⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾				
	UL2464, PVC Jacket	PWM-02AF MM - TL7A ⑪ *	PWMU-04AF MM - TL7A ⑪ *	PWMU-06AF MM - TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 14.5 ~ 19.0mm				
	Screw-In Type	PWM-02BF MB - TL7001	PWMU-04BF MB - TL7001	PWMU-06BF MB - TL7001

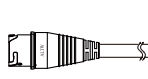
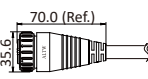
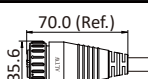
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P
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Mating

Pair

Overmolded Double-Ended Cable Assembly:

STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP67 (Mated) ⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (B) FM, (H) MF				
	UL2464, PVC Jacket End1: (H) MF End2: (H) MF	AG-PWM02HL- PWMHL-TA ⑪ *	AG-PWMU04HL- PWMUHL-TA ⑪ *	AG-PWMU06HL- PWMUHL-TA ⑪ *
	UL2464, PVC Jacket End1: (H) MF End2: (B) FM	AG-PWM02HL- PWMBL-TA ⑪ *	AG-PWMU04HL- PWMUBL-TA ⑪ *	AG-PWMU06HL- PWMUBL-TA ⑪ *
STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP67 (Mated) ⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (B) FM				
	UL2464, PVC Jacket End1: (B) FM End2: (B) FM	AG-PWM02BL- PWMBL-TA ⑪ *	AG-PWMU04BL- PWMUBL-TA ⑪ *	AG-PWMU06BL- PWMUBL-TA ⑪ *

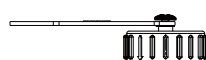
Mating

Pair

Waterproof Cap



- Mating Pair: Field Serviceable Overmolded
- Part Number: CAP-WPWFTCD1



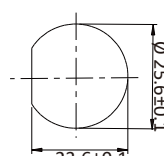
- Mating Pair: Receptacle
- Part Number: CAP-WPWMTMA1



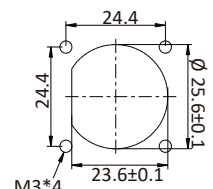
- Mating Pair: Receptacle
- Part Number: CAP-WPWMTPC2*

- Mating Pair: Receptacle
- Part Number: CAP-WPWMTPB2*

Panel Cut Out




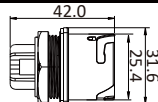
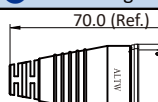
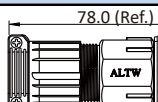
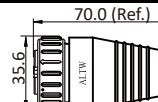
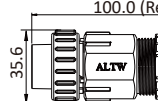


Panel Nut

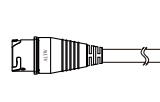
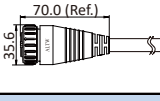
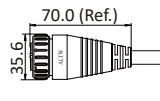


Screw

(Unit: mm)

No of Contacts	2	4 (2+2)	6 (2+4)	
Rated Voltage (AC/DC)	600V			
Nominal Current	70A	70A+2A	70A+2A	
Plastic / Metal	Plastic			
Pin Assignment				
MF : Male Connector Female Contact FM : Female Connector Male Contact				
Receptacle, Square Flange, FRONT Fastened Nut, IP67 (Mated) Nut Torque Value: 10 ~ 12 kgf.cm Recommended Panel Thickness: min. 4.0mm				
	Solder Type	PWN-02RM MF S - TS7001*	PWNU-04RM MF S - TS7001*	PWNU-06RM MF S - TS7001*
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated) ⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾ Connector / Contact Gender: (MF) MF				
	UL2464, PVC Jacket	PWN-02A MF M - TL7A ⑪ *	PWNU-04A MF M - TL7A ⑪ *	PWNU-06A MF M - TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 14.5 ~ 19.0mm				
	Screw-In Type	PWN-02B MF B - TL7001 *	PWNU-04B MF B - TL7001 *	PWNU-06B MF B - TL7001 *
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated) ⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾				
	UL2464, PVC Jacket	PWN-02A F M M - TL7A ⑪ *	PWNU-04A F M M - TL7A ⑪ *	PWNU-06A F M M - TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 14.5 ~ 19.0mm				
	Screw-In Type	PWN-02B F M B - TL7001*	PWNU-04B F M B - TL7001*	PWNU-06B F M B - TL7001*

Overmolded Double-Ended Cable Assembly:

STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP67 (Mated) ⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (B) FM, (H) MF					M a t i n g
	UL2464, PVC Jacket End1: (H) MF End2: (H) MF	AG-PWN02HL- PWNHL-TA⑪*	AG-PWNU04HL- PWNUHL-TA⑪*	AG-PWNU06HL- PWNUHL-TA⑪*	
	UL2464, PVC Jacket End1: (H) MF End2: (B) FM	AG-PWN02HL- PWNBL-TA⑪*	AG-PWNU04HL- PWNUBL-TA⑪*	AG-PWNU06HL- PWNUBL-TA⑪*	
STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP67 (Mated) ⑪ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (B) FM					P a i r
	UL2464, PVC Jacket End1: (B) FM End2: (B) FM	AG-PWN02BL- PWNBL-TA⑪*	AG-PWNU04BL- PWNUBL-TA⑪*	AG-PWNU06BL- PWNUBL-TA⑪*	

*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

No of Contacts	2	3	4 (2+2)	5 (3+2)	6 (2+4)	7 (3+4)	
Rated Voltage (AC/DC)	600V						
Nominal Current	80A	80A	80A+5A	80A+5A	80A+5A	80A+5A	
Plastic / Metal	Plastic						
Pin Assignment	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM	MF/FM	
MF: Male Connector Female Contact FM: Female Connector Male Contact							
Receptacle, Square Flange, REAR Fastened Nut, IP67 (Mated) Nut Torque Value: 10 ~ 12 kgf.cm Recommended Panel Thickness: min. 4.0mm							
	Crimp Type	PWP-02RMFC-TS7001 *	PWP-03RMFC-TS7001 *	PWPD-04RMFC-TS7001 *	PWPD-05RMFC-TS7001 *	PWPD-06RMFC-TS7001 *	PWPD-07RMFC-TS7001 *
STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated) ⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾							
	UL2464, PVC Jacket	PWP-02AMFM-TL7A ⑪ *	PWP-03AMFM-TL7A ⑪ *	PWPD-04AMFM-TL7A ⑪ *	PWPD-05AMFM-TL7A ⑪ *	PWPD-06AMFM-TL7A ⑪ *	PWPD-07AMFM-TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , IP67 (Mated) Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 14.5 ~ 19.0mm							
	Crimp Type	PWP-02BMFC-TL7001 *	PWP-03BMFC-TL7001 *	PWPD-04BMFC-TL7001 *	PWPD-05BMFC-TL7001 *	PWPD-06BMFC-TL7001 *	PWPD-07BMFC-TL7001 *
STRAIGHT, Overmolded Cable Assembly, Free Cable End, With Strain Relief, IP67 (Mated) ⑪ Cable Length: (01) 1M ~ (99) 99M ¹⁾							
	UL2464, PVC Jacket	PWP-02AFMM-TL7A ⑪ *	PWP-03AFMM-TL7A ⑪ *	PWPD-04AFMM-TL7A ⑪ *	PWPD-05AFMM-TL7A ⑪ *	PWPD-06AFMM-TL7A ⑪ *	PWPD-07AFMM-TL7A ⑪ *
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, IP67 (Mated) Sealing Nut Torque Value: 10 ~ 12 kgf.cm Recommended Cable O.D.: 14.5 ~ 19.0mm							
	Crimp Type	PWP-02BFMC-TL7001 *	PWP-03BFMC-TL7001 *	PWPD-04BFMC-TL7001 *	PWPD-05BFMC-TL7001 *	PWPD-06BFMC-TL7001 *	PWPD-07BFMC-TL7001 *

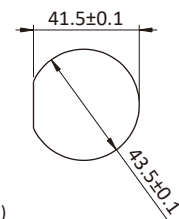
Overmolded Double-Ended Cable Assembly:

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated) Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (B) FM, (H) MF								Mating
	UL2464, PVC Jacket End1: (H) MF End2: (H) MF	AG-PWP02HL-PWPHL-TA 11 *	AG-PWP03HL-PWPHL-TA 11 *	AG-PWPD04HL-PWPDHL-TA 11 *	AG-PWPD05HL-PWPDHL-TA 11 *	AG-PWPD06HL-PWPDHL-TA 11 *	AG-PWPD07HL-PWPDHL-TA 11 *	
	UL2464, PVC Jacket End1: (H) MF End2: (B) FM	AG-PWP02HL-PWPBL-TA 11 *	AG-PWP03HL-PWPBL-TA 11 *	AG-PWPD04HL-PWPDBL-TA 11 *	AG-PWPD05HL-PWPDBL-TA 11 *	AG-PWPD06HL-PWPDBL-TA 11 *	AG-PWPD07HL-PWPDBL-TA 11 *	
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly, IP67 (Mated) Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (B) FM								Pair
	UL2464, PVC Jacket End1: (B) FM End2: (B) FM	AG-PWP02BL-PWPBL-TA 11 *	AG-PWP03BL-PWPBL-TA 11 *	AG-PWPD04BL-PWPDBL-TA 11 *	AG-PWPD05BL-PWPDBL-TA 11 *	AG-PWPD06BL-PWPDBL-TA 11 *	AG-PWPD07BL-PWPDBL-TA 11 *	

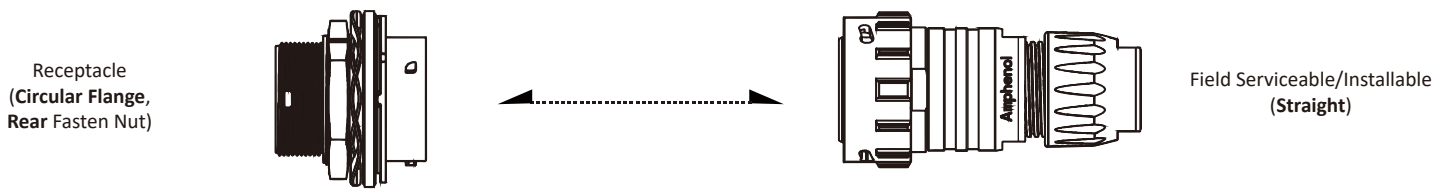
*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Panel Cut Out



(Unit: mm)



Assemble Style

Crimp

(C) Receptacle

(C) Field Serviceable/Installable

PWX Series	Options	Nominal Current	No. of Contacts	Operating Voltage	Mating Style	IP Rating	Certificates
Hybrid Solution	Power	Up To 80A	Up To 5 Pins	Up To 600V AC/DC	3 Points Lock	IP69K (Mated)	UL1977
	Signal / Data	Up To 5A	Up To 16 Pins	Up To 300V AC/DC			

30A (L)

9 Pin

30A+5A (L+D)

4 + 10 Pin

• Code (Example):

PWX	-	L	04	-	D	09	-	P
Series		Nominal Current For Power	No. of Contacts		Nominal Current For Signal / Data	No. of Contacts		Connector Type
PWX	-	30A (L)	02 ~ 09	-	5A (D)	09 ~ 14	-	Receptacle (P)
				-	None (N)	None (N)		Field Serviceable / Installable (B)

50A (M)

5 Pin

50A+5A (M+D)

3 + 9 Pin

• Code (Example):

PWX	-	M	03	-	D	09	-	P
Series		Nominal Current For Power	No. of Contacts		Nominal Current For Signal / Data	No. of Contacts		Connector Type
PWX	-	50A (M)	02 ~ 05	-	5A (D)	05 ~ 12	-	Receptacle (P)
				-	None (N)	None (N)		Field Serviceable / Installable (B)

80A (P)

4 Pin

80A+5A (P+D)

3 + 4 Pin

• Code (Example):

PWX	-	P	03	-	D	04	-	P
Series		Nominal Current For Power	No. of Contacts		Nominal Current For Signal / Data	No. of Contacts		Connector Type
PWX	-	80A (P)	02 ~ 04	-	5A (D)	04 ~ 07	-	Receptacle (P)
				-	None (N)	None (N)		Field Serviceable / Installable (B)

Accessories

Waterproof Cap

Self-closing Cap

- Mating Pair: Receptacle
- Code: PWX-SC-CAP-P*


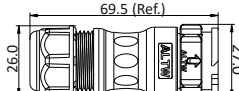
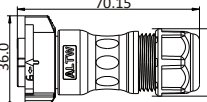
Waterproof Cap

- Mating Pair: Field Serviceable/Installable
- Code: PWX-WP-CAP-B*

X-Lok Large D Size

No of Contacts		3	
Rated Voltage (AC/DC)		300V	
Nominal Current		50A	
Plastic / Metal		Plastic	Plastic
Pin Assignment		MF	FM
MF : Male Connector Female Contact FM : Female Connector Male Contact M+F : Male PWD + Female GND, F+M : Female PWD + Male GND			
Receptacle, Circular Flange, FRONT Fastened Nut, Push Lock, IP68 (Unmated) Nut Torque Value: 10 ~ 12 kgf.cm Recommended Panel Thickness: (with cap) max. 2.6mm, (without cap) max. 3.6mm			
	Solder Type (For Power Group)	DM-03PMFS-QC800P*	-
	180° PCB Type (For Power Group)	DM-03PMFP-QC800P*	-
Receptacle, Circular Flange, REAR Fastened Nut, Push Lock, IP68 (Unmated) Nut Torque Value: 10 ~ 12 kgf.cm Recommended Panel Thickness: (with cap) max. 2.6mm, (without cap) max. 3.6mm			
	Solder Type (For Power Group)	DM-03RMFS-QC800P*	-
Receptacle With Wires, Circular Flange, FRONT Fastened Nut, Push Lock, IP68 (Unmated) Nut Torque Value: 4 ~ 6 kgf.cm Recommended Panel Thickness: (with cap) max. 3.0mm, (without cap) max. 4.0mm ⑪ Wire Length: (10) 100mm ~ (50) 500mm ¹⁾			
	UL1015, PVC Jacket	DM-03PMFS-QC8B ⑪ *	-
Receptacle With Wires, Circular Flange, REAR Fastened Nut, Push Lock, IP68 (Unmated) Nut Torque Value: 4 ~ 6 kgf.cm Recommended Panel Thickness: (with cap) max. 3.0mm, (without cap) max. 4.0mm ⑪ Wire Length: (10) 100mm ~ (50) 500mm ¹⁾			
	UL1015, PVC Jacket	DM-03RMFS-QC8B ⑪ *	-
STRAIGHT , Overmolded Cable Assembly, Free Cable End, With Strain Relief, Push Lock, IP68 (Mated) ⑪ Wire Length: (10) 100mm ~ (50) 500mm ¹⁾			
	UL2517, PVC Jacket (For Power Group)	DM-03AMFM-QL8C ⑪ *	DM-03AFMM-QL8C ⑪
RIGHT ANGLE , Overmolded Cable Assembly, Free Cable End, With Strain Relief, Push Lock, IP68 (Mated) ⑪ Wire Length: (10) 100mm ~ (50) 500mm ¹⁾			
	UL2517, PVC Jacket (For Power Group)	-	DM-03AFMM-QR8C ⑪ *
STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP68 (Mated) ⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (B) FM, (H) MF			
	End1: (H) MF End2: (H) MF	AB-DM03HL-DCHL-QC ⑩ *	-
	End1: (H) MF End2: (B) FM	AB-DM03HL-DCBL-QC ⑩ *	-
	End1: (B) FM End2: (B) FM	-	AB-DM03BL-DCBL-QC ⑩ *
STRAIGHT-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated) ⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (B) FM, (H) MF			
	End1: (H) MF End2: (B) FM	AB-DM03HL-DCBR-QC ⑩ *	-
	End1: (B) FM End2: (B) FM	-	AB-DM03BL-DCBR-QC ⑩ *
RIGHT ANGLE-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated) ⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (B) FM			
	End1: (B) FM End2: (B) FM	-	AB-DM03BR-DCBR-QC ⑩ *

X-Lok Large D Size

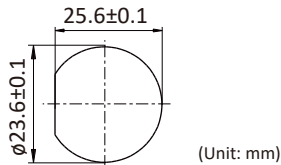
No of Contacts		3		
Rated Voltage (AC/DC)		300V		
Nominal Current		50A		
Plastic / Metal		Plastic	Plastic	
Pin Assignment		MF	FM	
MF: Male Connector Female Contact FM: Female Connector Male Contact				
Field Serviceable/Installable, STRAIGHT , Without Strain Relief, Push Lock, IP68 (Mated)				
Sealing Nut Torque Value: 6 ~ 15 kgf.cm Recommended Cable O.D.: (Red Seal) 8.0 ~ 10.0mm, (Yellow Seal) 10.0 ~ 12.0mm, (Blue Seal) 12.0~14.0mm				
<div><p>MF</p></div> <div><p>FM</p></div>	Solder Type, For Power Group, Packing: Connector With Contacts	All Seals	DM-03B MF G-QL8APP*	DM-03B FM G-QL8APP*
		8.0 ~ 10.0mm Red Seal	DM-03B MF G-QL8SPP*	DM-03B FM G-QL8SPP*
		10.0 ~ 12.0mm Yellow Seal	DM-03B MF G-QL8MPP*	DM-03B FM G-QL8MPP*
		12.0 ~ 14.0mm Blue Seal	DM-03B MF G-QL8LPP*	DM-03B FM G-QL8LPP*
	Screw-in Type, For Power Group, Packing: Connector With Contacts	All Seals	DM-03B MF B-QL8APP*	DM-03B FM B-QL8APP*
		8.0 ~ 10.0mm Red Seal	DM-03B MF B-QL8SPP*	DM-03B FM B-QL8SPP*
		10.0 ~ 12.0mm Yellow Seal	DM-03B MF B-QL8MPP*	DM-03B FM B-QL8MPP*
		12.0 ~ 14.0mm Blue Seal	DM-03B MF B-QL8LPP*	DM-03B FM B-QL8LPP*
	Push-in Type, For Power Group, Packing: Connector With Contacts	All Seals	DM-03B MF E-QL8APP*	DM-03B FM E-QL8APP*
		8.0 ~ 10.0mm Red Seal	DM-03B MF E-QL8SPP*	DM-03B FM E-QL8SPP*
		10.0 ~ 12.0mm Yellow Seal	DM-03B MF E-QL8MPP*	DM-03B FM E-QL8MPP*
		12.0 ~ 14.0mm Blue Seal	DM-03B MF E-QL8LPP*	DM-03B FM E-QL8LPP*
	Crimp Type, For Power Group, Packing: Connector With Contacts	All Seals	DM-03B MF A-QL8APP*	DM-03B FM A-QL8APP*
		8.0 ~ 10.0mm Red Seal	DM-03B MF A-QL8SPP*	DM-03B FM A-QL8SPP*
		10.0 ~ 12.0mm Yellow Seal	DM-03B MF A-QL8MPP*	DM-03B FM A-QL8MPP*
		12.0 ~ 14.0mm Blue Seal	DM-03B MF A-QL8LPP*	DM-03B FM A-QL8LPP*

*Upon Request



¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

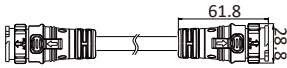
Panel Cut Out

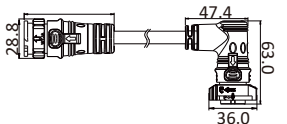
Circular Flange
(D Cut)




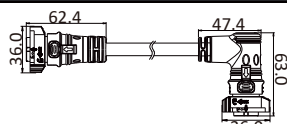
X-Lok Large D Size

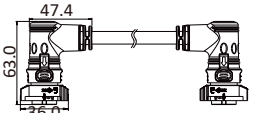
No of Contacts	4 (3+1)		5 (3+2)	
Rated Voltage (AC/DC)	300V		300V	
Nominal Current	50A+5A		50A+5A	
Plastic / Metal	Plastic	Metal	Plastic	Metal
Pin Assignment				
M+F: Male PWD + Female GND F+M: Female PWD + Male GND				

STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F, (U) M/F+M					
	End1: (U) M/F+M End2: (U) M/F+M	AB-DMD04UL-DMDUL-QC ⑩ *	AB-DSMD04UL-DSMDUL-QC ⑩ *	AB-DMD05UL-DMDUL-QC ⑩ *	AB-DSMD05UL-DSMDUL-QC ⑩ *
	End1: (U) M/F+M End2: (X) F/M+F	AB-DMD04UL-DMDXL-QC ⑩ *	AB-DSMD04UL-DSMDXL-QC ⑩ *	AB-DMD05UL-DMDXL-QC ⑩ *	AB-DSMD05UL-DSMDXL-QC ⑩ *

STRAIGHT-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F, (U) M/F+M					
	End1: (U) M/F+M End2: (X) F/M+F	AB-DMD04UL-DMDXR-QC ⑩ *	AB-DSMD04UL-DSMDXR-QC ⑩ *	-	-

STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F					
	End1: Female Conn Female+Male Contact End2: Female Conn Female+Male Contact	AB-DMD04XL-DMDXL-QC ⑩ *	AB-DSMD04XL-DSMDXL-QC ⑩ *	AB-DMD05XL-DMDXL-QC ⑩ *	AB-DSMD05XL-DSMDXL-QC ⑩ *




STRAIGHT-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F					
	End1: Female Conn Female+Male Contact End2: Female Conn Female+Male Contact	AB-DMD04XL-DMDXR-QC ⑩ *	AB-DSMD04XL-DSMDXR-QC ⑩ *	AB-DMD05XL-DMDXR-QC ⑩ *	AB-DSMD05XL-DSMDXR-QC ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F					
	End1: Female Conn Female+Male Contact End2: Female Conn Female+Male Contact	AB-DMD04XR-DMDXR-QC ⑩ *	AB-DSMD04XR-DSMDXR-QC ⑩ *	AB-DMD05XR-DMDXR-QC ⑩ *	AB-DSMD05XR-DSMDXR-QC ⑩ *

*Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

X-Lok Large D Size

6 (3+3)		7 (3+4)		8 (3+5)	
300V		300V		300V	
50A+5A		50A+5A		50A+5A	
Plastic	Metal	Plastic	Metal	Plastic	Metal
					
AB-DMD06UL-DMDUL-QC10*	AB-DSMD06UL-DSMDUL-QC10*	AB-DMD07UL-DMDUL-QC10*	AB-DSMD07UL-DSMDUL-QC10*	AB-DMD08UL-DMDUL-QC10*	AB-DSMD08UL-DSMDUL-QC10*
AB-DMD06UL-DMDXL-QC10*	AB-DSMD06UL-DSMDXL-QC10*	AB-DMD07UL-DMDXL-QC10*	AB-DSMD07UL-DSMDXL-QC10*	AB-DMD08UL-DMDXL-QC10*	AB-DSMD08UL-DSMDXL-QC10*
AB-DMD06UL-DMDXR-QC10*	AB-DSMD06UL-DSMDXR-QC10*	AB-DMD07UL-DMDXR-QC10*	AB-DSMD07UL-DSMDXR-QC10*	AB-DMD08UL-DMDXR-QC10*	AB-DSMD08UL-DSMDXR-QC10*
AB-DMD06XL-DMDXL-QC10*	AB-DSMD06XL-DSMDXL-QC10*	AB-DMD07XL-DMDXL-QC10*	AB-DSMD07XL-DSMDXL-QC10*	AB-DMD08XL-DMDXL-QC10*	AB-DSMD08XL-DSMDXL-QC10*
AB-DMD06XL-DMDXR-QC10*	AB-DSMD06XL-DSMDXR-QC10*	AB-DMD07XL-DMDXR-QC10*	AB-DSMD07XL-DSMDXR-QC10*	AB-DMD08XL-DMDXR-QC10*	AB-DSMD08XL-DSMDXR-QC10*
AB-DMD06XR-DMDXR-QC10*	AB-DSMD06XR-DSMDXR-QC10*	AB-DMD07XR-DMDXR-QC10*	AB-DSMD07XR-DSMDXR-QC10*	AB-DMD08XR-DMDXR-QC10*	AB-DSMD08XR-DSMDXR-QC10*



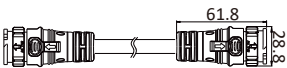
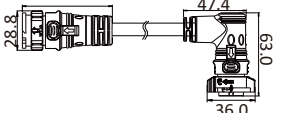
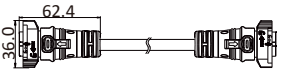
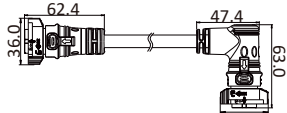
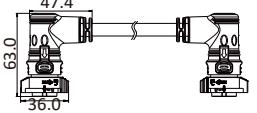
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X-Lok Large D Size

No of Contacts	9 (3+6)		10 (3+7)		
Rated Voltage (AC/DC)	300V		300V		
Nominal Current	50A+5A		50A+5A		
Plastic / Metal	Plastic	Metal	Plastic	Metal	
Pin Assignment M+F: Male PWD + Female GND F+M: Female PWD + Male GND					
STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F, (U) M/F+M					
	End1: (U) M/F+M End2: (U) M/F+M	AB-DMD09UL-DMDUL-QC ⑩ *	AB-DSMD09UL-DSMDUL-QC ⑩ *	AB-DMD10UL-DMDUL-QC ⑩ *	AB-DSMD10UL-DSMDUL-QC ⑩ *
	End1: (U) M/F+M End2: (X) F/M+F	AB-DMD09UL-DMDXL-QC ⑩ *	AB-DSMD09UL-DSMDXL-QC ⑩ *	AB-DMD10UL-DMDXL-QC ⑩ *	AB-DSMD10UL-DSMDXL-QC ⑩ *
STRAIGHT-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F, (U) M/F+M					
	End1: (U) M/F+M End2: (X) F/M+F	AB-DMD09UL-DMDXR-QC ⑩ *	AB-DSMD09UL-DSMDXR-QC ⑩ *	AB-DMD10UL-DMDXR-QC ⑩ *	AB-DSMD10UL-DSMDXR-QC ⑩ *
STRAIGHT-TO-STRAIGHT , Overmolded Double-Ended Cable Assembly, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F					
	End1: Female Conn Female+Male Contact End2: Female Conn Female+Male Contact	AB-DMD09XL-DMDXL-QC ⑩ *	AB-DSMD09XL-DSMDXL-QC ⑩ *	AB-DMD10XL-DMDXL-QC ⑩ *	AB-DSMD10XL-DSMDXL-QC ⑩ *
STRAIGHT-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F					
	End1: Female Conn Female+Male Contact End2: Female Conn Female+Male Contact	AB-DMD09XL-DMDXR-QC ⑩ *	AB-DSMD09XL-DSMDXR-QC ⑩ *	AB-DMD10XL-DMDXR-QC ⑩ *	AB-DSMD10XL-DSMDXR-QC ⑩ *
RIGHT ANGLE-TO-RIGHT ANGLE , Overmolded Double-Ended Cable Assembly, Push Lock, IP68 (Mated)					
⑩ Cable Length: (A05) 0.5M, (001) 1M ~ (099) 99M ¹⁾ Connector/Contact Gender: (X) F/M+F					
	End1: Female Conn Female+Male Contact End2: Female Conn Female+Male Contact	AB-DMD09XR-DMDXR-QC ⑩ *	AB-DSMD09XR-DSMDXR-QC ⑩ *	AB-DMD10XR-DMDXR-QC ⑩ *	AB-DSMD10XR-DSMDXR-QC ⑩ *

*Upon Request

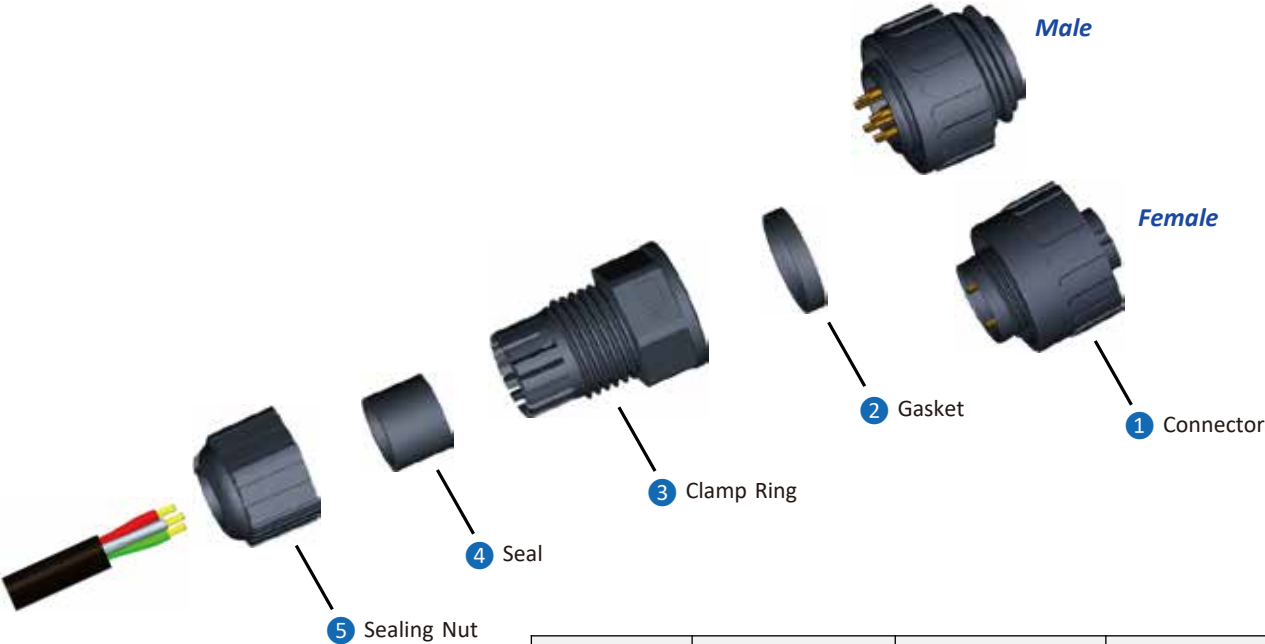
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

X-Lok Large D Size

11 (3+8)		12 (3+9)	
300V		300V	
50A+5A		50A+5A	
Plastic	Metal	Plastic	Metal
			
AB-DMD11UL-DMDUL-QC10*	AB-DSMD11UL-DSMDUL-QC10*	AB-DMD12UL-DMDUL-QC10*	AB-DSMD12UL-DSMDUL-QC10*
AB-DMD11UL-DMDXL-QC10*	AB-DSMD11UL-DSMDXL-QC10*	AB-DMD12UL-DMDXL-QC10*	AB-DSMD12UL-DSMDXL-QC10*
AB-DMD11UL-DMDXR-QC10*	AB-DSMD11UL-DSMDXR-QC10*	AB-DMD12UL-DMDXR-QC10*	AB-DSMD12UL-DSMDXR-QC10*
AB-DMD11XL-DMDXL-QC10*	AB-DSMD11XL-DSMDXL-QC10*	AB-DMD12XL-DMDXL-QC10*	AB-DSMD12XL-DSMDXL-QC10*
AB-DMD11XL-DMDXR-QC10*	AB-DSMD11XL-DSMDXR-QC10*	AB-DMD12XL-DMDXR-QC10*	AB-DSMD12XL-DSMDXR-QC10*
AB-DMD11XR-DMDXR-QC10*	AB-DSMD11XR-DSMDXR-QC10*	AB-DMD12XR-DMDXR-QC10*	AB-DSMD12XR-DSMDXR-QC10*

Mating

Pair



Nominal Current	PWE (8A)	PWF (12A)	PWC (20A) PWCU (20A+2A)
Wire Range	20 ~ 17 AWG (0.50 ~ 1.00mm ²)	18 ~ 15 AWG (0.75 ~ 1.62mm ²)	14 ~ 12 AWG (2.50 ~ 4.00mm ²)
Cable O.D. (Unit: mm)	5.5 ~ 10.8		4.0 ~ 7.6 7.7 ~ 9.6

1

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

2

	Unit: mm
(A) Jacket	14.0 ~ 18.0
(B) Insulation	3.0 ~ 4.0

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

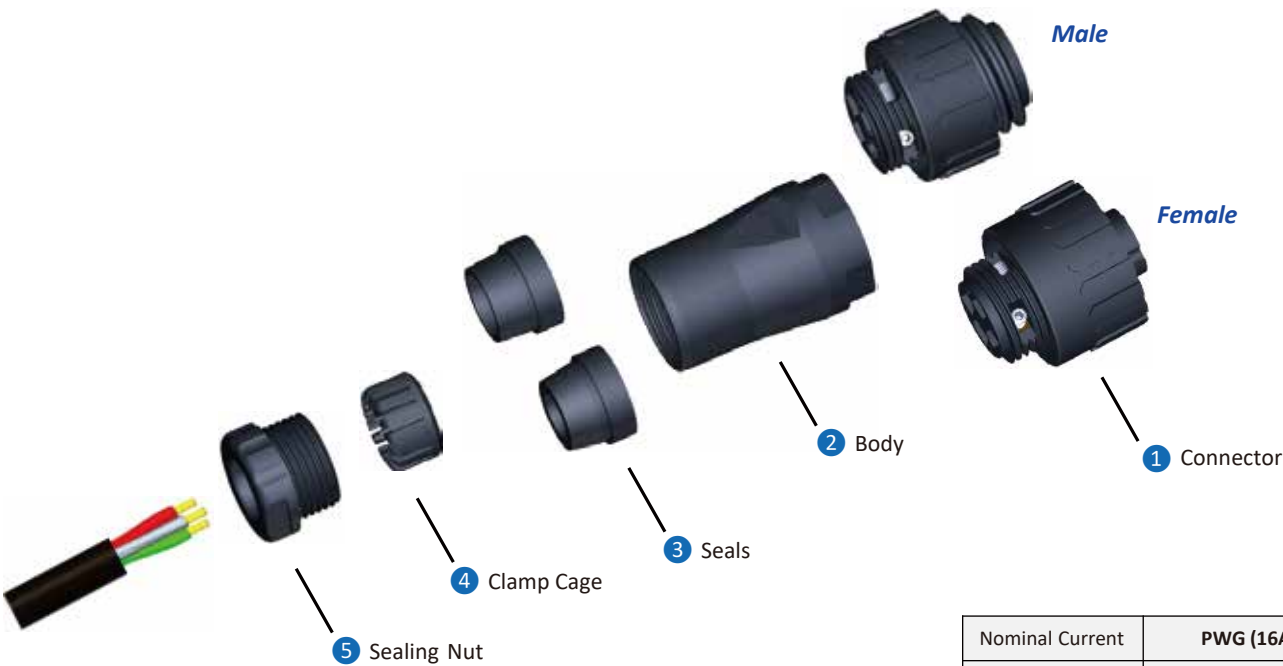
3

Solder wires into contacts.

4

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	PWG (16A)
Wire Range	18 ~ 14 AWG (0.75 ~ 2.50mm ²)
Cable O.D. (Unit: mm)	6.0 ~ 9.0 9.1 ~ 12.5

*Upon Request

1

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

2

	Unit: mm
(A) Jacket	17.5 ~ 18.5
(B) Insulation	7.5 ~ 8.5

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

3

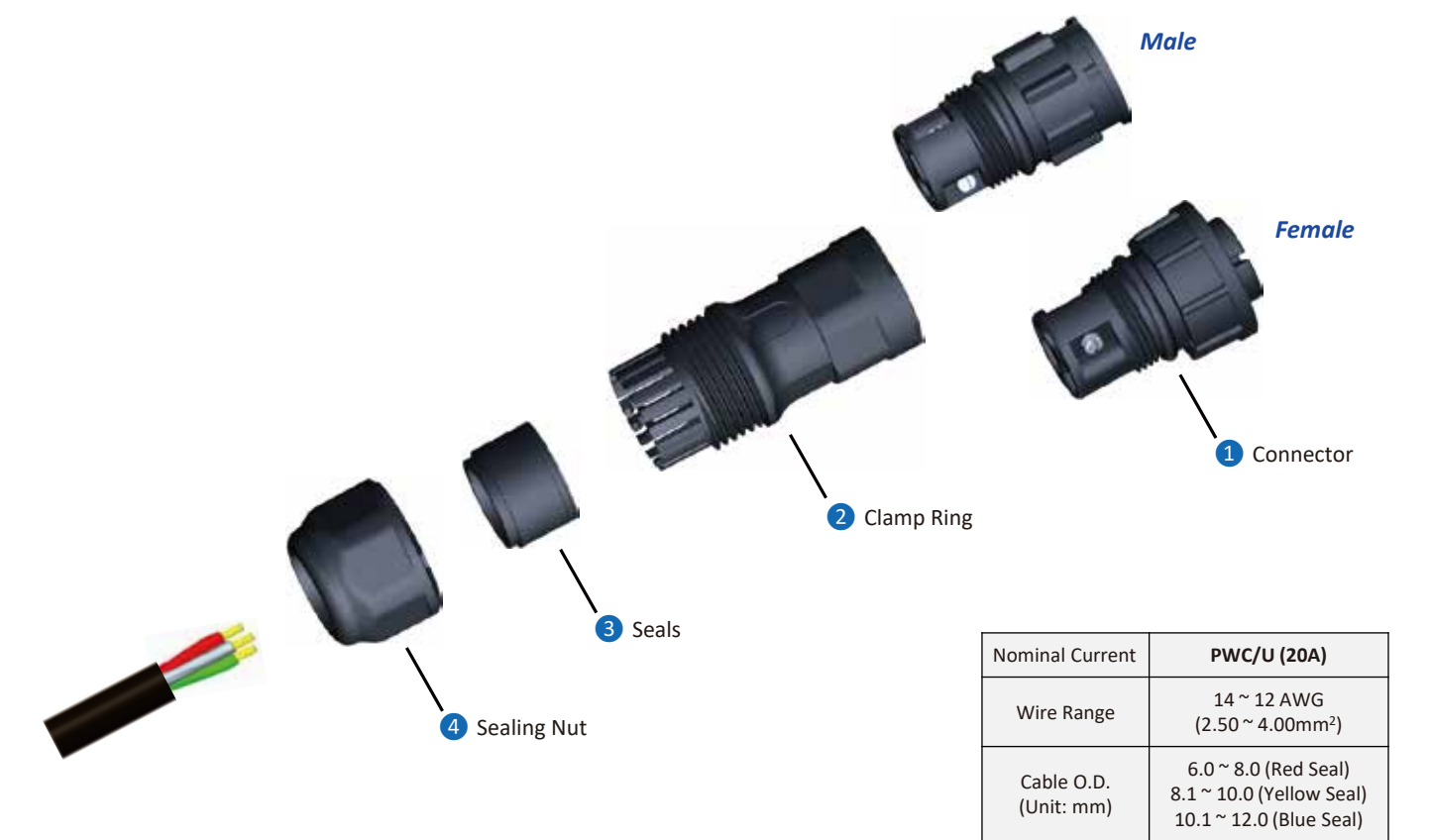
Torque Force: 4 ~ 5 kgf-cm

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

4

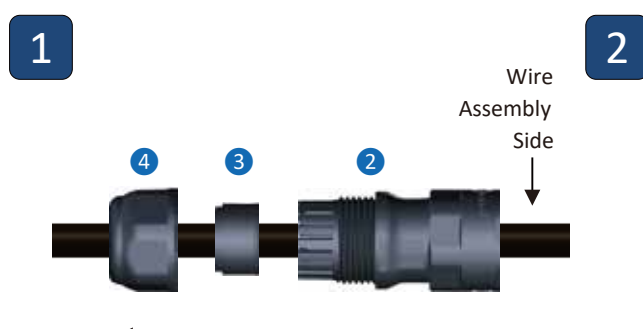
Follow the order 2 → 1, 4 → 2, 5 → 2 to assemble all components.
And tighten 1 & 2, 2 & 5 with suggested torque force.

	1 & 2	2 & 5
Torque Force (Unit: kgf-cm)	6.0 ~ 8.0	8.0 ~ 15.0



Nominal Current	PWC/U (20A)
Wire Range	14 ~ 12 AWG (2.50 ~ 4.00mm ²)
Cable O.D. (Unit: mm)	6.0 ~ 8.0 (Red Seal) 8.1 ~ 10.0 (Yellow Seal) 10.1 ~ 12.0 (Blue Seal)

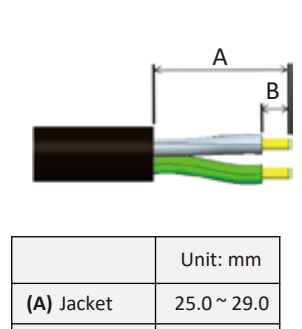
1



Wire Assembly Side

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


2



	Unit: mm
(A) Jacket	25.0 ~ 29.0
(B) Insulation	5.9 ~ 6.1

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

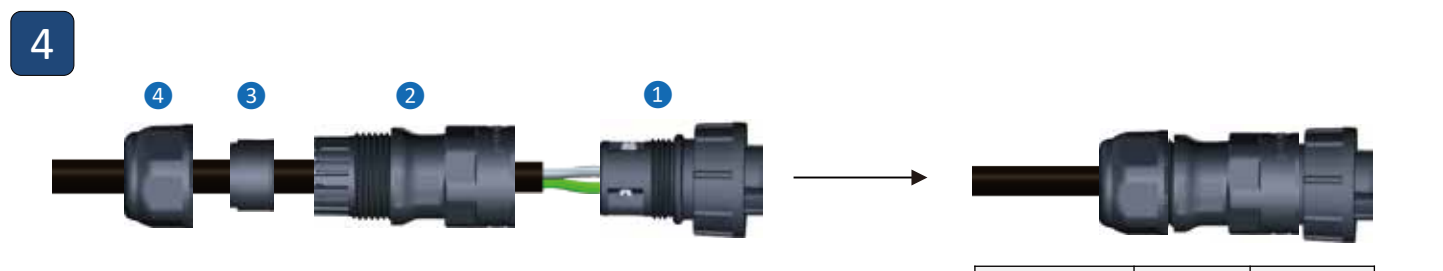
3



Torque Force: 4 ~ 5 kgf-cm


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

4



Follow the order 2 → 1, 3 → 2, 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



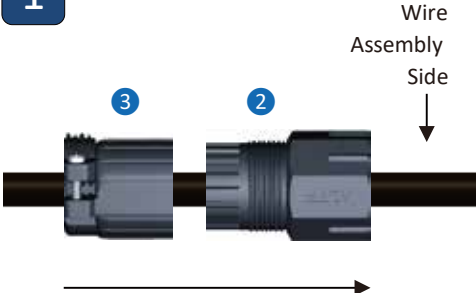
1 Connector

2 Clamp Ring & Seal

3 Seals

Nominal Current	PWL (30A)	PWM (50A) / PWMU (50A+2A)
Wire Range	14 ~ 8 AWG (2.50 ~ 8.20mm ²)	(Power) 9 ~ 8 AWG (6.60 ~ 10.00mm ²) (Signal) 22 ~ 20 AWG (0.34 ~ 0.50mm ²)
Cable O.D. (Unit: mm)	10.0 ~ 14.5 14.6 ~ 19.0	14.5 ~ 19.0

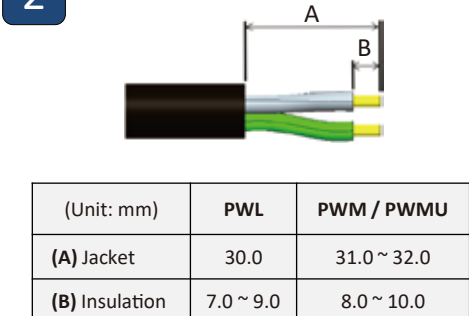
1



Wire Assembly Side

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

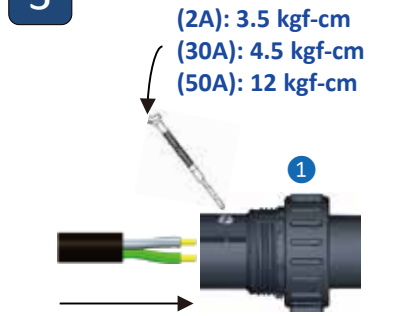
2



(Unit: mm)	PWL	PWM / PWMU
(A) Jacket	30.0	31.0 ~ 32.0
(B) Insulation	7.0 ~ 9.0	8.0 ~ 10.0

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

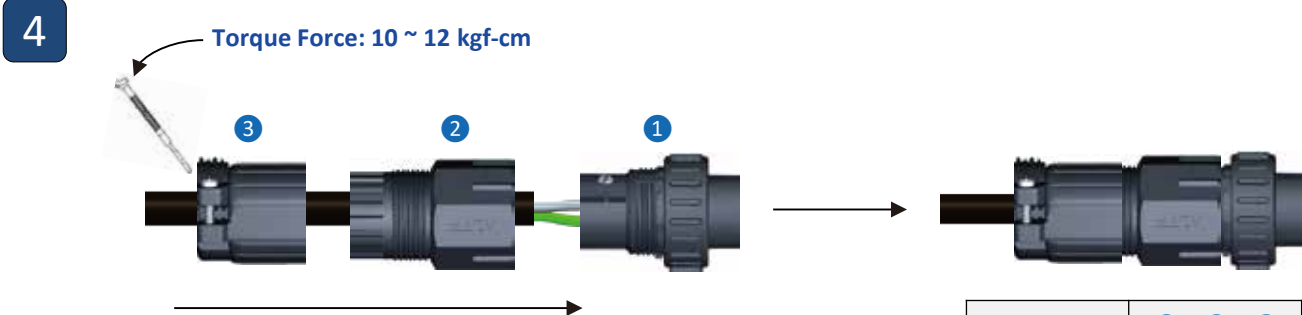
3



Torque Force:
(2A): 3.5 kgf-cm
(30A): 4.5 kgf-cm
(50A): 12 kgf-cm

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

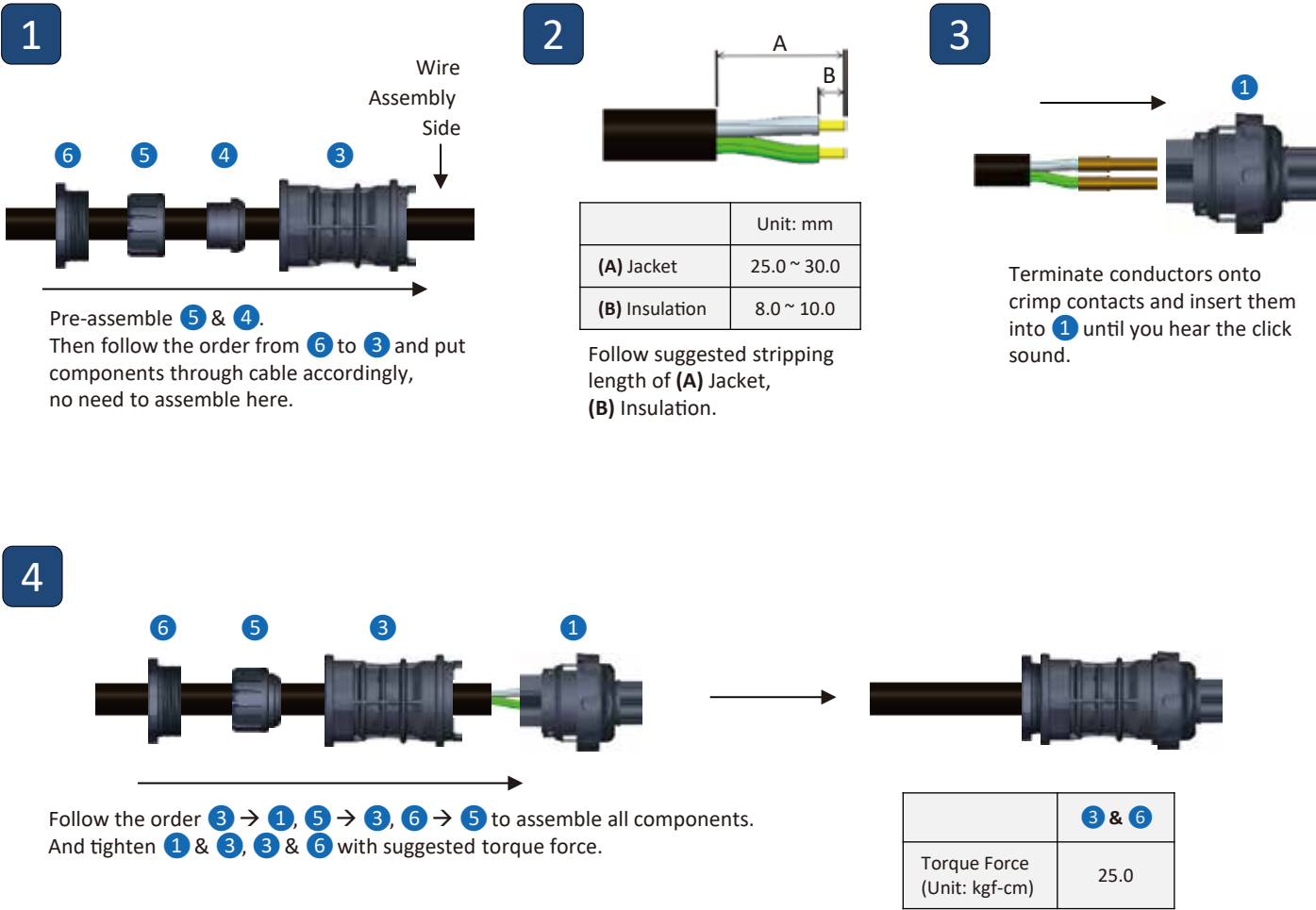
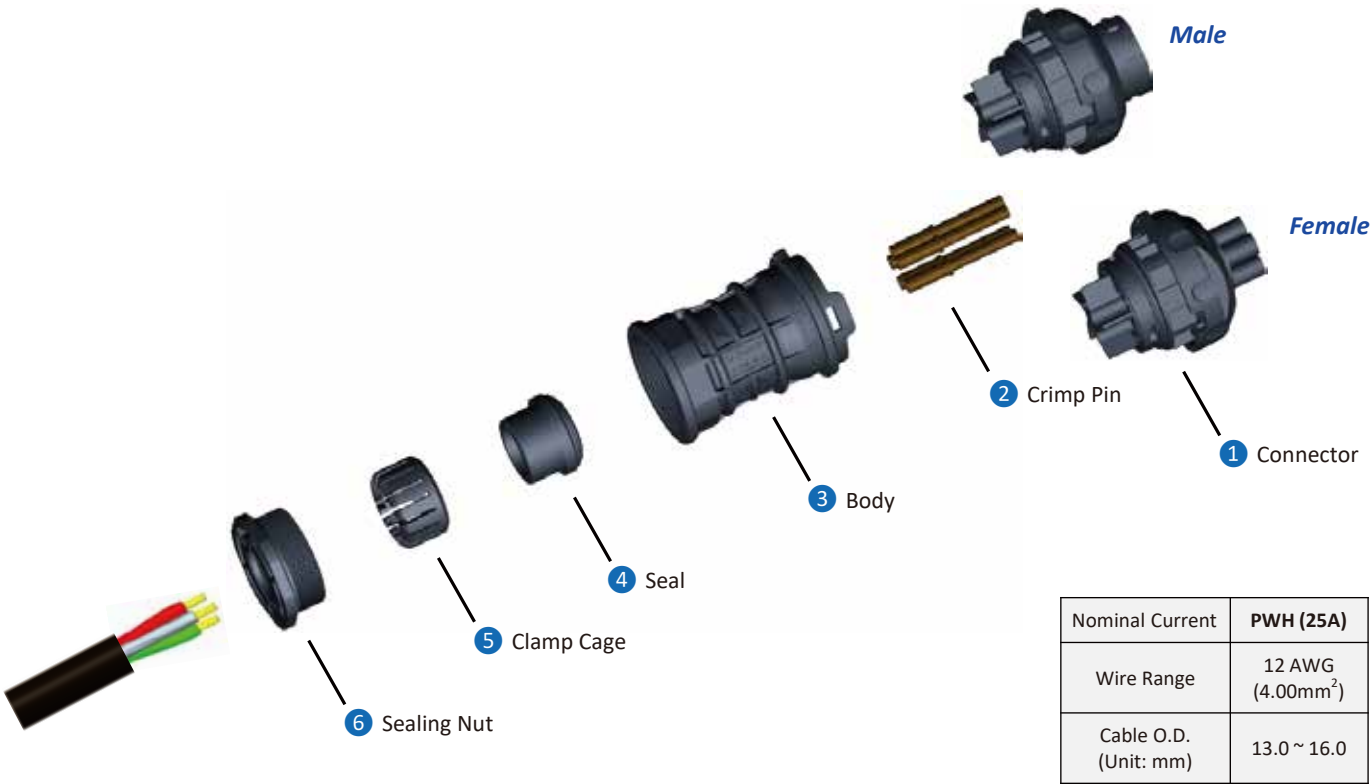
4



Torque Force: 10 ~ 12 kgf-cm

Follow the order 2 → 1, 3 → 2 to assemble all components. And tighten 1 & 2, 2 & 3 with suggested torque force.

	1 & 2 & 3
Torque Force (Unit: kgf-cm)	10.0 ~ 12.0



Cable List

Item No.	Jacket	Color	UL No.	Cable Specification	Cable OD	Copper Index (kg/km)	Weight (kg/km)
WCA00011181	PVC	Black	SJTW	12AWG*2C+Filler	10.70	60.80	163.10
WCA00011226	PVC	Black	SJTW	12AWG*3C	11.20	89.60	222.90
WCA00011182	PVC	Black	SJTW	12AWG*3C+Filler	11.70	89.85	207.67
WCA00011243	PVC	Black	UL2464	12AWG*3C+Filler	10.00	90.00	164.40
WCA00011242	PVC	Black	UL2464	12AWG*4C+Filler	11.00	120.40	228.70
WCA00012002	PVC	Black	SJTW	12AWG*4C+Filler	12.30	122.00	293.00
WCA00011183	PVC	Black	SJTW	12AWG*5C+Filler	13.60	149.50	328.90
WCA00010846	PVC	Black	UL1277,UL1581&UL83	14AWG*3C	9.70	53.80	134.20
WCA0485XX01	PVC	Black	UL2464	14AWG*3C+Talcum	7.00	55.80	100.10
WCA00011884	PU	Black	UL20234	14AWG*5C+Filler+Paper	10.00	115.70	180.00
WCA00012012	PU	Black	UL20234	14AWG*5C+Filler+Paper	10.00	115.70	180.00
WCA00011201	PVC	Black	UL21388	16AWG*2C+AL/Mylar	8.20	23.80	60.20
WCA00011206	PVC	Black	SJTW	16AWG*2C+Filler	8.20	24.25	85.10
WCA0264UV01	PVC	Black	UL2464	16AWG*2C+Talcum	5.80	23.80	57.70
WCA00010942	PVC	Black	UL2464	16AWG*2C+Talcum	7.80	24.20	95.00
WCA00010625	PVC	Black	UL2464	16AWG*3C+AL.Mylar+Drain	7.50	46.80	96.60
WCA00011202	PVC	Black	UL21388	16AWG*3C+AL/Mylar	8.60	35.70	71.50
WCA0579UV01	PVC	Black	UL2464	16AWG*3C+Drain+AL.Mylar	7.50	46.70	97.90
WCA00011207	PVC	Black	SJTW	16AWG*3C+Filler	8.60	36.02	105.21
WCA0285UV01	PVC	Black	UL2464	16AWG*4C+AL.Mylar	7.50	47.60	99.90
WCA00011203	PVC	Black	UL21388	16AWG*4C+AL/Mylar	9.30	47.60	88.40
WCA00011208	PVC	Black	SJTW	16AWG*4C+Filler	9.30	49.00	131.50
WCA00011204	PVC	Black	UL21388	16AWG*5C+AL/Mylar	10.70	59.40	99.80
WCA0263UV01	PVC	Black	UL2464	16AWG*5C+Talcum	7.80	59.50	108.80
WCA00011205	PVC	Black	UL21388	16AWG*6C+AL/PET	11.70	71.30	123.30
WCA0582UV01	PVC	Black	UL2464	16AWG*6C+Filler+Drain+AL.Mylar	9.50	82.10	153.60
WCA0583UV01	PVC	Black	UL2464	16AWG*7C+Drain+AL.Mylar	9.50	93.60	175.70
WCA00011299	PVC	Black	UL2464	18AWG*10C	9.00	77.00	145.00
WCE00010070-43	PVC	Black	UL21996	18AWG*2C+Talcum	3.4*5.3	14.82	36.97
WCE00010074-43	PVC	White	UL21996	18AWG*2C+Talcum	3.4*5.3	14.82	36.97
WCA00010897	PVC	Black	UL1277, UL15, 81&UL83	18AWG*3C	8.50	21.30	81.93
WCA00011209	PVC	Black	SJTW	18AWG*3C+Filler	8.00	21.30	81.93
WCA00010898	PVC	Black	UL1277, UL15, 81&UL83	18AWG*4C	9.20	35.00	125.00
WCE00010071-43	PVC	Black	UL21996	18AWG*4C+Talcum	3.4*9.2	29.64	68.14
WCE00010075-43	PVC	White	UL21996	18AWG*4C+Talcum	3.4*9.2	29.64	68.14
WCA00011240	PVC	Black	UL2464	20AWG*10C+AL.Mylar+Filler	9.00	48.00	116.40
WCA00011192	PVC	Black	UL21388	20AWG*10C+AL/Mylar	8.50	48.00	109.70
WCA00011436	PVC	Black	UL2464	20AWG*12C+AL.Mylar+Filler	9.00	57.60	125.10
WCA00011193	PVC	Black	UL21388	20AWG*12C+AL/Mylar	8.50	57.60	121.70
WCA00011200	PVC	Black	UL21388	20AWG*14C+AL/Mylar	8.50	67.20	130.60
WCA0470XX01	PVC	Black	UL2464	20AWG*14C+Braid	9.50	87.90	161.30
WCA0153XX01	PVC	Black	UL2464	20AWG*18C+AL.Mylar	9.50	86.40	154.20
WCA00011581-43	PVC	Black	UL 21996	20AWG*2C	5.20	9.40	34.02
WCA00011194	PVC	Black	UL21388	20AWG*18C+AL/Mylar	10.00	86.40	174.70
WCA00010781	PVC	Black	UL2464	20AWG*2C+AL.Mylar+Braid	5.50	17.70	41.60
WCA00011184	PVC	Black	UL21388	20AWG*2C+AL/Mylar	5.50	9.60	27.40
WCA0124UV01	PVC	Black	UL2464	20AWG*2C+Drain+AL.Mylar	5.80	14.40	48.40
WCE00010072-43	PVC	Black	UL21996	20AWG*2C+Talcum	3.2*5.0	14.10	41.45
WCE00010076-43	PVC	White	UL21996	20AWG*2C+Talcum	3.2*5.0	14.10	41.45
WCA00011580-43	PVC	Black	UL 21996	20AWG*3C	5.50	14.10	41.45
WCA0489UV01	PVC	Black	UL2464	20AWG*3C+AL.Mylar	5.00	14.40	39.30
WCA00010602	PVC	Black	UL2464	20AWG*3C+AL.Mylar+Braid+Drain	5.50	29.20	61.90
WCA00011185	PVC	Black	UL21388	20AWG*3C+AL/Mylar	5.50	14.40	43.70
WCA00011548-43	PVC	Black	UL 21996	20AWG*4C	6.00	18.80	48.46
WCA00011186	PVC	Black	UL21388	20AWG*4C+AL/Mylar	6.00	19.20	51.40
WCA0575UV01	PVC	Black	UL2464	20AWG*4C+Drain+AL.Mylar	5.50	24.00	52.10
WCE00010073-43	PVC	Black	UL21996	20AWG*4C+Talcum	3.2*8.5	18.80	53.34
WCE00010077-43	PVC	White	UL21996	20AWG*4C+Talcum	3.2*8.5	18.80	53.34
WCA00011187	PVC	Black	UL21388	20AWG*5C+AL/Mylar	6.20	24.00	59.20
WCA0576UV01	PVC	Black	UL2464	20AWG*5C+Drain+AL.Mylar	6.00	28.80	62.70
WCA00011188	PVC	Black	UL21388	20AWG*6C+AL/Mylar	6.80	28.80	71.80
WCA0577UV01	PVC	Black	UL2464	20AWG*6C+Drain+AL.Mylar	6.50	33.60	76.80
WCA00011189	PVC	Black	UL21388	20AWG*7C+AL/Mylar	6.80	33.60	75.80
WCA00010049	PVC	Black	UL2464	20AWG*7C+Drain+AL.Mylar	6.50	38.40	74.80
WCA00010550	PVC	Black	UL2464	20AWG*8C+AL.Mylar+Drain+Filler	6.80	43.00	86.00

Cable List

Item No.	Jacket	Color	UL No.	Cable Specification	Cable OD	Copper Index (kg/km)	Weight (kg/km)
WCA00011190	PVC	Black	UL21388	20AWG*8C+AL/Mylar	7.20	38.40	87.00
WCA00011489-28	PVC	Black	UL2464	20AWG*9C+AL.Mylar+Drain	7.40	48.50	101.80
WCA00011191	PVC	Black	UL21388	20AWG*9C+AL/Mylar	7.60	43.20	97.30
WCA00010868	PVC	Black	UL2464	22AWG*2C+Talcum	4.20	6.20	24.60
WCA00011339	PVC	Yellow	UL2517	22AWG*3C	4.50	9.00	31.50
WCA00011343	PU	Black	UL20549	22AWG*3C	3.80	9.00	26.00
WCA00011459-28	PVC	Black	UL2517	22AWG*3C	4.50	9.30	31.00
WCA00010063	PU	Black	NONUL	22AWG*3C+Talcum	4.50	9.00	26.40
WCA0570UV01	PVC	Black	UL2464	22AWG*3C+Talcum	5.00	9.30	35.20
WCA00011340	PVC	Yellow	UL2517	22AWG*4C	4.80	11.70	40.00
WCA00011344	PU	Black	UL20549	22AWG*4C	4.00	12.00	31.80
WCA00011460-28	PVC	Black	UL2517	22AWG*4C	4.80	12.00	38.00
WCA00011813-01	PVC	Black	UL2517	22AWG*4C+AL.Mylar+Braid	5.30	22.00	46.00
WCA00011872	PU	Black	UL20549	22AWG*4C+AL.Mylar+Braid+Paper	5.30	22.00	48.00
WCA00010062	PU	Black	NONUL	22AWG*4C+Insulation	4.80	12.00	29.40
WCA0571UV01	PVC	Black	UL2464	22AWG*4C+Talcum	5.00	12.40	38.60
WCA00011341	PVC	Yellow	UL2517	22AWG*5C	5.10	15.50	43.80
WCA00011687-01	PVC	Black	UL2517	22AWG*5C+AL.Mylar+Filler+Braid	5.70	26.00	58.00
WCA00011345	PU	Black	UL20549	22AWG*5C+Filler	4.40	15.00	43.50
WCA00011461-28	PVC	Black	UL2517	22AWG*5C+Filler	5.10	15.00	43.00
WCA00011870	PU	Black	UL20549	22AWG*5C+Filler+AL.Mylar+Braid+Paper	5.70	26.00	51.00
WCA00012245	PU	Black	UL20549	22AWG*5C+Filler+Paper	5.60	19.00	51.00
WCA00010061	PU	Black	NONUL	22AWG*5C+Filler+Talcum+Paper	5.00	15.50	38.50
WCA0352XX02	PU	Black	NONUL	22AWG*5C+Talcum	5.00	15.50	47.50
WCA0521UV01	PVC	Black	UL2464	22AWG*5C+Talcum	5.50	15.50	47.50
WCA0556UV01	PVC	Black	UL2464	24AWG*10C+Drain+AL.Mylar	6.50	22.00	63.80
WCA0557UV01	PVC	Black	UL2464	24AWG*12C+Drain+AL.Mylar	7.00	26.00	72.30
WCA0558UV01	PVC	Black	UL2464	24AWG*14C+Drain+AL.Mylar	7.00	30.00	77.10
WCA0465UV01	PVC	Black	UL2464	24AWG*15C+Drain+AL.Mylar	7.00	32.00	77.60
WCA0560UV01	PVC	Black	UL2464	24AWG*18C+Drain+AL.Mylar	8.00	38.00	100.70
WCA0284UV01	PVC	Black	UL2464	24AWG*25C+Drain+AL.Mylar	9.00	51.90	130.90
WCA0072UV01	PVC	Black	UL2464	24AWG*2C+Drain+AL.Mylar	4.20	6.00	24.00
WCA0027UV01	PVC	Black	UL2464	24AWG*2C+Talcum	4.20	4.00	22.70
WCA00010114	PVC	Black	UL2464	24AWG*37C+Drain+AL/Mylar	9.50	74.00	153.20
WCA00011746-03	PVC	Black	UL2517	24AWG*3C+AL.Mylar+Braid	4.60	13.10	31.30
WCA0549UV01	PVC	Black	UL2464	24AWG*3C+Drain+AL.Mylar	4.50	8.00	29.00
WCA0006UV01	PVC	Black	UL2464	24AWG*3C+Talcum	4.50	6.00	27.70
WCA00011726-03	PVC	Black	UL2517	24AWG*4C+AL.Mylar+Braid	5.00	16.40	38.50
WCA0219UV01	PVC	Black	UL2464	24AWG*4C+Drain+AL.Mylar	5.80	10.00	45.60
WCA0036UV01	PVC	Black	UL2464	24AWG*4C+Talcum	5.00	8.00	32.40
WCA00011584-43	PVC	Black	UL 21996	24AWG*5C	5.50	9.88	41.20
WCA0551UV01	PVC	Black	UL2464	24AWG*5C+Drain+AL.Mylar	5.00	12.00	37.00
WCA0229UV01	PVC	Black	UL2464	24AWG*5C+Talcum	5.00	10.00	34.40
WCA00011583-43	PVC	Black	UL 21996	24AWG*6C	5.80	11.86	45.21
WCA00011214	PVC	Black	UL2464	24AWG*6C+AL.Mylar	5.00	12.00	39.40
WCA0217UV01	PVC	Black	UL2464	24AWG*6C+Drain+AL.Mylar	5.80	14.00	45.00
WCA00011479-28	PVC	Black	UL2517	24AWG*6C+Filler	5.00	12.00	40.00
WCA00012067	PVC	Black	UL21388	24AWG*6C+Filler+AL.Mylar	5.20	11.40	35.40
WCA00011421	PVC	Yellow	UL2517	24AWG*6C+Filler+Talcum	5.00	17.60	49.20
WCA00011422	PU	Black	UL20549	24AWG*6C+Filler+Talcum	5.00	13.00	34.00
WCA0087UV01	PVC	Black	UL2464	24AWG*7C+Drain+AL/Mylar	5.80	16.00	51.00
WCA00011342	PVC	Yellow	UL2517	24AWG*8C	5.50	15.50	48.00
WCA00011346	PU	Black	UL20549	24AWG*8C	4.80	15.50	35.00
WCA00011462-28	PVC	Black	UL2517	24AWG*8C	5.50	15.50	48.00
WCA00011698-01	PVC	Black	UL2517	24AWG*8C+AL.Mylar+Filler+Braid	5.80	27.00	60.00
WCA0003UV01	PVC	Black	UL2464	24AWG*8C+Drain+AL/Mylar	5.50	18.00	45.70
WCA00012066	PVC	Black	UL21388	24AWG*8C+Filler+AL.Mylar	5.60	15.20	43.40
WCA00011814-01	PU	Black	UL20549	24AWG*8C+Filler+AL.Mylar+Braid+Paper	5.80	26.00	51.00
WCA00012341	PU	Black	UL20549	24AWG*8C+Filler+Paper	6.70	19.00	65.00
WCA0203UV01	PVC	Black	UL2464	24AWG*8C+Talcum	5.50	16.00	45.30
WCA0528UV01	PVC	Black	UL2464	24AWG*9C+Drain+AL.Mylar	6.00	20.00	54.80
WCA0540UV01	PVC	Black	UL2464	26AWG*6C+Drain+AL.Mylar	5.00	9.80	33.70
WCA0543UV01	PVC	Black	UL2464	26AWG*10C+Drain+AL.Mylar	6.00	15.00	50.30
WCA00011400	PU	Black	UL20549	26AWG*10C+Filler	6.00	14.00	48.00
WCA00011401	PVC	Yellow	UL2517	26AWG*10C+Filler	6.00	14.00	52.00

Cable List

Item No.	Jacket	Color	UL No.	Cable Specification	Cable OD	Copper Index (kg/km)	Weight (kg/km)
WCA00011463-01	PVC	Black	UL2517	26AWG*10C+Filler	6.00	14.00	52.00
WCA00011380	PU	Black	UL20549	26AWG*12C	6.00	16.00	47.00
WCA00011402	PVC	Yellow	UL2517	26AWG*12C	6.00	17.00	54.00
WCA00011464-01	PVC	Black	UL2517	26AWG*12C	6.00	17.00	55.00
WCA00011782-01	PVC	Black	UL2517	26AWG*12C+AL.Mylar+Braid	6.40	25.00	63.00
WCA00011871	PU	Black	UL20549	26AWG*12C+AL.Mylar+Braid+Paper	6.40	28.00	60.00
WCA0544UV01	PVC	Black	UL2464	26AWG*12C+Drain+AL.Mylar	6.00	17.60	53.10
WCA0545UV01	PVC	Black	UL2464	26AWG*15C+Drain+AL.Mylar	6.50	21.50	58.70
WCA00012148	PU	Black	UL20549	26AWG*17C+Filler	7.00	23.00	63.00
WCA00012173	PVC	Yellow	UL2517	26AWG*17C+Filler	7.00	24.00	73.00
WCA00012149	PVC	Black	UL2517	26AWG*17C+Filler	7.00	24.00	68.00
WCA00012151	PVC	Black	UL2517	26AWG*17C+Filler+AL.Mylar+Braid	7.50	40.00	91.00
WCA00012150	PU	Black	UL20549	26AWG*17C+Filler+AL.Mylar+Braid+Paper	7.50	39.00	80.00
WCA00010045	PVC	Black	UL2464	26AWG*22C+Drain+AL.Mylar	7.50	29.90	78.10
WCA0546UV01	PVC	Black	UL2464	26AWG*26C+Drain+AL.Mylar	8.00	35.80	91.30
WCA0449UV01	PVC	Black	UL2464	26AWG*31C+Drain+AL.Mylar	9.00	42.30	117.40
WCA0481UV01	PVC	Black	UL2464	26AWG*3C+Drain+AL.Mylar	4.00	5.20	22.40
WCA0547UV01	PVC	Black	UL2464	26AWG*44C+Drain+AL.Mylar	10.50	59.20	157.10
WCA0487UV01	PVC	Black	UL2464	26AWG*4C+Drain+AL.Mylar	4.80	7.20	30.80
WCA0486UV01	PVC	Black	UL2464	26AWG*5C+Drain+AL.Mylar	4.80	8.50	33.00
WCA00011480-01	PU	Black	-	CAT.5E 22AWG*2P+Drain+Filler+AL.Mylar	6.20	14.00	44.00
WCA00011527-17	LSZH	Green	-	CAT.6A S/FTP 26AWG*4P+AL/Polyester+Braid	6.60	17.99	47.08
WCA00010840	PVC	Black	-	CAT5E FTP 24AWG*4P+Mylar+D+AL.Mylar	6.50	17.97	47.34
WCA0373XX01	PVC	Beige	-	CAT5E FTP 24AWG*4P+Mylar+D+AL.Mylar	6.00	18.00	41.80
WCA0664UV01	PVC	Black	-	CAT5E FTP 24AWG*4P+Mylar+D+AL/Mylar	6.50	18.00	52.30
WCA0459XX01	PVC	Beige	-	CAT5E S-FTP 24AWG*4P+Mylar+AL.Mylar+D+B	6.10	30.97	55.00
WCA0663UV01	PVC	Black	-	CAT5E UTP 24AWG*4P	6.00	16.00	49.40
WCA00011688-03	PVC	Yellow	-	CL2 22AWG*2C+AL.Mylar+Drain+Braid	5.80	16.70	49.80
WCA0611XX01	PVC	Black	-	SJTW 14AWG*3C	9.50	56.70	154.50
WCA00010369	PVC	Black	-	STOOW 16AWG*4C	10.60	49.00	181.00
WCA00010899	PVC	Black	UL1277,UL1581,UL83	14AWG*3C+16AWG*1C	10.30	68.48	172.00
WCA00011252	PU	Black	UL20549	18AWG*2C+22AWG*4C+Filler+Paper	6.00	27.50	63.00
WCA00011253	PU	Black	UL20549	18AWG*2C+22AWG*6C+Filler+Paper	7.40	33.60	83.00
WCA00011254	PU	Black	UL20549	18AWG*2C+22AWG*8C+Filler+Paper	8.20	40.00	98.00
WCA00011582-43	PVC	Black	UL 21996	20AWG*2C+20AWG*3C	6.00	15.33	50.21
WCA0585UV01	PVC	Black	UL2464	24AWG*4C+20AWG*2C+Drain+AL.Mylar	6.00	22.40	57.40
WCA0042UV01	PVC	Black	UL2464	24AWG*6C+20AWG*2C+Drain+AL.Mylar	6.00	26.20	58.50
WCA0584UV01	PVC	Black	UL2464	26AWG*6C+24AWG*2C+Drain+AL.Mylar	5.50	13.70	42.80
WCA0365UV01	PVC	Black	-	28AWG*1P+24AWG*2C+AL.Mylar+Drain+Braid (USB2.0)	5.00	11.90	35.10
WCA00012165	PVC	Black	UL2725	28AWG*1P+28AWG*2C+AL.Mylar+Drain+Braid	3.80	10.00	21.00
WCA0691XX01	PVC	Black	UL2725	28AWG*1P+28AWG*3C+AL.Mylar+Drain+Braid	3.80	10.40	23.20
WCA00010259	PVC	Black	UL20276	[(18AWG*1P+AL)+(16AWG*1P+AL)]+Drain+AL+Braid	10.00	73.00	152.00
WCA00011922	PVC	Black	UL21996	(20AWG*1P+Drain+AL.Mylar)+16AWG*3C+Filler+AL.Mylar	8.50	50.61	115.27
WCA00010258	PVC	Black	-	[(22AWG+1P+AL)+(18AWG+1P+AL)]+Drain+AL.Mylar+Braid	7.00	42.00	80.00
WCA00010876	PVC	Black	UL2586	(24AWG*1P+A)*2C+16AWG*3C+EA	10.00	47.00	128.00
WCA00010257	PVC	Black	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+AL.Mylar+Braid	6.00	27.00	58.00
WCA00011350	PVC	Black	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+AL.Mylar+Braid	6.70	29.70	65.80
WCA00010437	PVC	Gray	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+Braid+Mylar	7.10	14.80	69.80
WCA00010080	PVC	Black	UL2464	(24AWG*25C+Mylar)+24AWG*25C+Drain+AL.Mylar	12.00	110.00	285.00
WCA00010710	PVC	Black	UL2464	(24AWG*2P+Drain+AL)+16AWG*3C+Filler+Paper	12.00	45.70	179.10
WCA00011923	PVC	Black	UL21996	(24AWG*2P+Drain+AL.Mylar)+12AWG*3C+Filler+AL.Mylar	11.50	99.97	187.20
WCA00010635	PVC	Black	UL2464	(24AWG*4P+Drain+AL)+16AWG*3C+Filler+Paper	11.00	41.70	149.70
WCA00010264	PVC	Black	UL20276	(26AWG*1P+Drain+AL.Mylar)*4C+26AWG*1P+26AWG*5C+AL.Mylar+Braid	8.50	45.50	94.30
WCA00011530-43	PVC	Black	UL21996	(26AWG*2P+AL.Mylar)+16AWG*2C+Filler+AL.Mylar	9.30	28.54	106.26
WCA00011531-43	PVC	Black	UL21996	(26AWG*2P+Drain+AL.Mylar)+16AWG*3C+Filler+AL.Mylar	11.00	41.58	146.60
WCA00011532-43	PVC	Black	UL21996	(26AWG*4P+Drain+AL.Mylar)+12AWG*3C+Filler+AL.Mylar	13.50	101.34	269.21
WCA00012137	PVC	Black	UL2725	(28AWG*1P+DAM)*2+28AWG*1P+28AWG*2C+Filler+AL.Mylar+Drain+Braid	6.00	21.80	48.20
WCA00010095	PVC	Black	UL20276	(28AWG*1P+Drain+AL+Mylar)*4C+(1P+3C)*28AWG+AL+Braid	7.30	33.90	73.70
WCA00010097	PVC	Black	UL20276	(28AWG*1P+Drain+AL+Mylar)*7C+28AWG*1P+28AWG*3C+AL+Braid	8.50	41.40	90.90
WCA00010081	PVC	Black	UL2464	[(28AWG*28C+Mylar)+28AWG*22C+Mylar]+28AWG*28C+Drain+AL	13.00	63.70	238.40
WCA00010096	PVC	Black	UL20276	[3COAX+(28AWG*1P+Drain+AL.Mylar+Mylar)*4+28AWG*1P+28AWG*6C]+AL.Mylar+Braid	8.50	53.50	93.10
WCA00010098	PVC	Black	UL20276	[3COAX+(28AWG*1P+Drain+AL+Mylar)*7+28AWG*1P+28AWG*6C]+AL+Braid	10.00	71.00	145.50
WCA00011960	PU	Black	UL20233	5C*2.5mm ² +Filler+Paper	10.20	116.00	191.00
WCA00011175	PU	Black	UL20549	8C*0.34mm ² +3C*1.0mm ² +Filler	8.60	54.00	116.00
WCA00011176	PU	Black	UL20549	16C*0.34mm ² +3C*1.0mm ² +Filler	9.70	79.00	161.00

Power-limited Circuit Cable

Specifications

- Rated Voltage: 300V
- Temperature Range: FEP: 70 °C
PVC: 60 °C, 75 °C
- Test Voltage: 900V AC at 2 seconds
- Conductor Range: 28AWG ~ 10AWG
- Conductor Material Available: Standard Bare Copper
- Insulator Material Available: FEP/PVC
- Jacket Material: FEP/PVC
- O.D. Tolerance: > Ø17.8 mm



(UL) E489959-N CLXX XX AWG XX°C 300V

CLXX: UL13 Cable Type
 • Plenum Rated: (2P), (3P)
 • Riser Rated: (2R), (3R)
 • General Rated: (2), (3)
 • Residential Rated: (2X), (3X)

XX°C: Temperature Rating
 • FEP: (70)
 • PVC: (60), (75)

Features & Applications:

Type	Fire Resistance Level	UL Standard	CSA	Application
CL3P CL2P	Plenum Rated (Highest)	UL 910, CMP	FT6	• Ducts or plenums air handling space
CL3R CL2R	Riser Rated	UL 1666, CMR	-	• Vertical shafts in non-plenum areas • Cable runs through more than one floor
CL3 CL2	General Purpose Rated	UL 1685, CMG/CM	FT4	• Power-limited circuit cable in non-plenum areas • Cable runs within one floor
CL3X CL2X	Residential Rated (Lowest)	VW-1, CMX	-	• Enclosed in non-plenum raceway or noncombustible tubing • Cable runs within one floor

Notes: UL File Number E489959; round or flat cable available

Find Our Standard Products

Part Number		WCA00011262	WCA00011263	WCA00011435	WCA00011282	WCA00011283*	WCA00011272	WCA00011324
Cable Type		CL3P	CL3P	CL3P	CL3P	CL3P	CL3P	CL3P
Conductor	AWG	10	16	16	16	16	18	22
	No.	2	2	2	8	16	2	2
	Dia.	2.6	1.3	1.3	1.3	1.3	1.02	0.64
Insulation	Nom. Thick.	0.25mm	0.27mm	0.27mm	0.27mm	0.27mm	0.27mm	0.25mm
	Nom. Dia.	3.5±0.1mm	2.00±0.1mm	2.00±0.1mm	2.00±0.1mm	2.00±0.1mm	1.62±0.10mm	1.12±0.05mm
Jacket	Nom. Thick.	0.8mm	0.58mm	0.58mm	0.69mm	0.56mm	0.42mm	0.46mm
	Nom. Dia.	8.8±0.3mm	5.2±0.3mm	5.2±0.3mm	8.0±0.3mm	11.0±0.5mm	4.4±0.15mm	3.4±0.15mm
Conductor Resistance at 20°C (Max.)		3.41Ω/km	13.7Ω/km	13.7Ω/km	13.7Ω/km	13.7Ω/km	21.9Ω/km	55.4Ω/km

* Upon Request

Other cable types and customization are available upon request.

UL 21996 Multiple-Conductor Cable Using Non-Integral Jacket

Specifications

- Rated Voltage: 300V
- Temperature Range: -40°C ~ 105°C
- Test Voltage: 2000V AC at 1 minute
- Wet Temperature Rating: 60°C (Max.)
- Conductor Range: 30AWG ~ 10AWG
- Conductor Material Available: Tinned Copper
- Insulator Material Available: FEP/PVC
- Shielding Material Available: AL/Mylar: Coverage 100%, Overlap 25% (Min.)
Braid: Tinned Copper, Overlap 65% (Min.)
Spiral: Tinned Copper, Overlap 90% (Min.)
- Jacket Material: PVC
- O.D. Tolerance: > Ø17.8 mm
- Impedance: 100Ω ~ 120Ω ±15Ω



E489039-D AWM 21996 XX AWG -40°C 105°C 300V VW-1 AWM I/II A/B -40°C 105°C 300V FT1 Sun Res Wet 60°C Cable

Application

Internal wiring and external interconnection of electronic equipment. Suitable for outdoor use.

Features

- Reference standard: UL Subject 758, UL1581 & CSA C22.2 No.210.2
- Lead free PVC jacket
- Wide temperature range
- Sunlight resistant
- Passes UL VW-1(horizontal) & CSA FT1 (vertical) flammability tests
- Round or flat cable available
- Mixture, individual or paired conductors available
- UL File Number: E489039

Find Our Standard Products

Single Insulated Conductor Cable

Part Number		WCA00011581-43	WCA00011580-43	WCA00011548-43	WCA00011584-43	WCA00011583-43
Conductor	AWG	20	20	20	24	24
	No.	2	3	4	5	6
	Dia.	0.942mm	0.942mm	0.942mm	0.609mm	0.609mm
Insulation	Nom. Thick.	0.38mm	0.38mm	0.38mm	0.35mm	0.35mm
	Nom. Dia.	1.70±0.10mm	1.70±0.10mm	1.70±0.10mm	1.30±0.07mm	1.30±0.07mm
Shield	Style	-	-	-	-	Paper
	Overlap	-	-	-	-	25%
Conductor Resistance at 20°C (Max.)		34.6 / km	34.6 / km	34.6 / km	93.0 / km	93.0 / km
Jacket	Nom. Thick.	0.98mm	0.92mm	0.95mm	0.92mm	0.95mm
	Nom. Dia.	5.2±0.15mm	5.5±0.20mm	6.0±0.20mm	5.5±0.20mm	5.8±0.20mm

UL 21996 Multiple-Conductor Cable

Using Non-Integral Jacket

Multi-conductor Cable

Part Number		WCA00011532-43		WCA00011530-43		WCA00011531-43		WCA00011582-43	
Component		A	B	A	B	A	B	A	B
Conductor	AWG	12	26	16	26	16	26	20	24
	No.	3	4	2	2	2	2	2	3
	Dia.	2.365mm	0.480mm	1.490mm	0.480mm	1.490mm	0.480mm	0.942mm	0.609mm
Insulation	Nom. Thick.	0.46mm	0.46mm	0.40mm	0.46mm	0.40mm	0.46mm	0.38mm	0.35mm
	Nom. Dia.	3.30±0.15mm	1.40±0.10mm	2.30±0.10mm	1.40±0.10mm	2.30±0.10mm	1.40±0.10mm	1.70±0.10mm	1.30±0.07mm
Shield	Style	-	Al. Mylar	-	Al. Mylar	-	Al. Mylar	-	Paper
	Overlap	-	25%	-	25%	-	25%	-	25%
Drain	AWG	-	26	-	-	-	26	-	-
	Dia.	-	0.480mm	-	-	-	0.480mm	-	-
Conductor Resistance at 20°C (Max.)		5.54 / km	148.0 / km	13.7 / km	148.0 / km	13.7 / km	148.0 / km	34.6 / km	93.0 / km
Jacket	Nom. Thick.	1.65mm		1.65mm		1.65mm		0.9mm	
	Nom. Dia.	13.5±0.40mm		9.3±0.25mm		11.0±0.30mm		6.0±0.20mm	
Impedance		120±15		120±15		120±15		-	

Customization is available upon request.

UL 21388 Jacket Cable

Specifications

- Rated Voltage: 300V
- Temperature Range: ~ 80°C
- Test Voltage: 2000V AC at 1 minute
- Conductor Range: 30AWG ~ 10AWG
- Conductor Material Available: Tinned Copper
- Insulator Material Available: FEP/PVC/PE
- Shielding Material Available: AL/Mylar: Coverage 100%, Overlap 25% (Min.)
Braid: Tinned Copper, Overlap 65% (Min.)
Spiral: Tinned Copper, Overlap 90% (Min.)
- Jacket Material: PVC
- O.D. Tolerance: > Ø17.8 mm
- Impedance: 100Ω ~ 120Ω ±15Ω



E489039-D  AWM 21388 XX AWG 80°C 300V VW-1,  AWM I/II A/B 80°C 300V FT1 Sun Res Cable

Application

Internal wiring and external interconnection of electronic equipment. Suitable for outdoor use.

Features

- Reference standard: UL Subject 758, UL 1581 & CSA C22.2 No.210.2
- Lead free PVC jacket
- Wide temperature range
- Sunlight resistant
- Passes UL VW-1(horizontal) & CSA FT1 (vertical) flammability tests
- Round or flat cable available
- Mixture, individual or paired conductors available
- UL File Number: E489039

Find Our Standard Products

Part Number		WCA00011201	WCA00011202	WCA00011203	WCA00011204	WCA00011205	WCA00011184
Conductor	AWG	16	16	16	16	16	20
	No.	2	3	4	5	6	2
	Dia.	1.496mm	1.496mm	1.496mm	1.496mm	1.496mm	0.953mm
Insulation	Nom. Thick.	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm
	Nom. Dia.	2.10±0.10mm	2.10±0.10mm	2.10±0.10mm	2.10±0.10mm	2.10±0.10mm	1.50±0.10mm
Shield	Style	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar
	Overlap	25%	25%	25%	25%	25%	25%
Jacket	Nom. Thick.	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm
	Nom. Dia.	6.00±0.20mm	6.50±0.20mm	6.80±0.20mm	7.60±0.20mm	8.40±0.20mm	5.50±0.20mm
Conductor Resistance at 20°C (Max.)		14.7 / km	14.7 / km	14.7 / km	14.7 / km	14.7 / km	36.7 / km

UL 21388 Jacket Cable

Find Our Standard Products

Part Number		WCA00011185	WCA00011186	WCA00011187	WCA00011188	WCA00011189	WCA00011190
Conductor	AWG	20	20	20	20	20	20
	No.	3	4	5	6	7	8
	Dia.	0.953mm	0.953mm	0.953mm	0.953mm	0.953mm	0.953mm
Insulation	Nom. Thick.	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm
	Nom. Dia.	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm
Shield	Style	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar
	Overlap	25%	25%	25%	25%	25%	25%
Jacket	Nom. Thick.	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm
	Nom. Dia.	5.50±0.20mm	6.00±0.20mm	6.20±0.20mm	6.80±0.20mm	6.80±0.20mm	7.20±0.20mm
Conductor Resistance at 20°C (Max.)		36.7 / km	36.7 / km	36.7 / km	36.7 / km	36.7 / km	36.7 / km

Part Number		WCA00011191	WCA00011192	WCA00011193	WCA00011200	WCA00011194
Conductor	AWG	20	20	20	20	20
	No.	9	10	12	14	18
	Dia.	0.953mm	0.953mm	0.953mm	0.953mm	0.953mm
Insulation	Nom. Thick.	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm
	Nom. Dia.	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm
Shield	Style	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar
	Overlap	25%	25%	25%	25%	25%
Jacket	Nom. Thick.	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm
	Nom. Dia.	7.60±0.20mm	8.50±0.25mm	8.50±0.25mm	8.50±0.20mm	10.0±0.30mm
Conductor Resistance at 20°C (Max.)		36.7 / km	36.7 / km	36.7 / km	36.7 / km	36.7 / km

Customization is available upon request.

UL 2464 Multiple - Conductor Cable Using Non-Integral Jacket

Specifications

- Rated Voltage: 300V
- Temperature Range: ~ 80°C
- Test Voltage: 2000V AC at 1 minute
- Conductor Range: 30AWG ~ 10AWG
- Conductor Material Available: Tinned Copper
- Insulator Material Available: FEP/PVC/PE
- Shielding Material Available: AL/Mylar: Coverage 100%, Overlap 25% (Min.)
Braid: Tinned Copper, Overlap 65% (Min.)
Spiral: Tinned Copper, Overlap 90% (Min.)
- Jacket Material: PVC
- O.D. Tolerance: > Ø17.8 mm
- Impedance: 100Ω ~ 120Ω ±15Ω



E489039-D  AWM 2464 XX AWG 80°C 300V VW-1,  AWM I/II A/B 80°C 300V FT1 Cable

Application

Internal wiring and external interconnection of electronic equipment. Suitable for outdoor use.

Features

- Reference standard: UL Subject 758, UL 1581 & CSA C22.2 No.210.2
- Lead free PVC jacket
- Wide temperature range
- Sunlight resistant
- Passes UL VW-1(horizontal) & CSA FT1 (vertical) flammability tests
- Round or flat cable available
- Mixture, individual or paired conductors available
- UL File Number: E489039

Question

Our most popular FAQs will help you to easily find the answers you need.



Q: What connectors can be used for power and signal distribution?

A: Ceres, SENSOR, X-Lok, RBL and HS-Lok connectors. For more detailed information and guide, please refer to our "Product Summary Table".

Q: Can ALTW connectors be used in direct burial?

A: No, they are not designed for this type of application. They should be routed inside a conduit or other means of reinforcement if deployed underground.

Q: Can ALTW connectors be used in continuous water immersion?

A: No, there is a limitation for their immersion to water as defined on each IP rating. Only "Deeptronica" series can be used in permanent immersion.

Q: Why are ALTW connectors called waterproof if they can only be immersed for a certain period? Shouldn't they be called water resistant?

A: As long as the immersion period does not surpass the conditions specified on the IP rating, they can be referred to as waterproof.

Q: What is the Ingress Protection (IP) of ALTW connectors?

A: It ranges from IP65 to IP69K.

Q: Can ALTW connectors be connected/disconnected under load?

A: By default, only connectors for data (RJ45, DVI, HDMI, and USB) can be used in hot-plugging. Power connectors need to be customized to achieve this.

FAQ

Q: Do ALTW connectors comply with MIL STD?

A: No, ALTW connectors are only evaluated under EIA, IEC and UL standards.

Q: What connectors can be used in high-speed base band data transmission?

A: Ceres, X-Lok, M12 D & X-coded, RJ45, DVI, HDMI, USB and FLOS connectors.

Q: Can ALTW connectors be customized to meet certain requirements?

A: Yes, connectors can be customized to meet customer requirements. If a certification is required, it will be applied. If not, ALTW can provide in-house test reports as a confirmation that the pre-defined specifications have been met.

Q: Do ALTW connectors have ATEX certification?

A: No, ALTW connectors are not yet certified by ATEX.

Q: What is the difference between Oleophobic and Hydrophobic protective vents? What is the main function of the vent?

A: These properties refer to the fluid resistance of the membrane in the vent. Hydrophobic means that the membrane is water repelling, while Oleophobic means the membrane is oil repelling.

They are used in applications that require the balancing of internal and external pressures such as electrical cabinets, wireless access points, control hubs and junction boxes. The trapped air inside the enclosures expands or contracts relative to the heat emitted by the components it encloses and the external ambient temperatures.



If your question is not answered here, please contact Amphenol LTW Customer Service or browse our website for more information.
www.amphenolltw.com

Scan here to contact us or e-mail us at sales@ltw-tech.com

UV Resistant

Being resistant to ultraviolet light (UV), or sunlight, means being able to withstand or resist the degradation caused by ultraviolet light. UV light causes non-resistant materials and surfaces to fade or discolor.

Flammability

The ability of a chemical to burn or ignite, causing fire or combustion. The degree of difficulty required to cause the combustion of a chemical is quantified through fire testing.

Flammability can be classified as low (least flame-retarded) to high (most flame-retarded). From lowest to highest it is classified as follows:

- HB - horizontal slow burning: Burning rate under 76mm/min for a thickness below 3mm or the burning stops before 100mm
 - V-2: Burning stops within 30 seconds on a vertical specimen and drips of flaming particles are allowed
 - V-1: Burning stops within 30 seconds on a vertical specimen and drips of particles are allowed as long as they are not inflamed
 - V-0: Burning stops within 10 seconds on a vertical specimen and drips of particles are allowed as long as they are not inflamed
-

IEC

The International Electrotechnical Commission (IEC) is the world's leading organization for the preparation and publication of international standards for all electrical, electronic and related technologies. These are known collectively as “electrotechnology”.

The IEC provides a platform for companies, industries and governments to meet, discuss and develop the international standards they require. All IEC standards are consensus-based and represent the needs of the key stakeholders of every nation participating. Every member country has a vote on what is included into an IEC international standard.

UL 50e

This standard applies to enclosures for electrical equipment intended to be installed and used in non-hazardous locations. It covers additional environmental construction and performance requirements for enclosures.

UL 1863

This standard applies to Safety Communication - circuit Accessories. It covers telecommunications-circuit accessories, such as jack and plug assemblies, quick-connect terminal assemblies, telephone wall plates, telephone extension cords, cross-connect terminal-block assemblies, maintenance terminal modules, terminal enclosures, cable-splice enclosures, network-interface devices, wire-guide assemblies, and connector boxes.

UL 1977

These requirements cover single and multipole connectors intended for factory assembly to copper or copper alloy conductors or printed wiring boards for use in data, signal, control and power applications within and between electrical equipment.

UL 2237

This standard covers multi-point interconnection power cable assemblies. They may consist of power cable assemblies, male or female power cable fittings, panel-mounted power cable/conductor fittings and feeder-tap power cable fittings, referred to as the device in this standard, used with industrial machinery in accordance with the National Fire Protection Association Electrical Standard for Industrial Machinery, NFPA 79 that have system voltages up to and including 1,000 V.

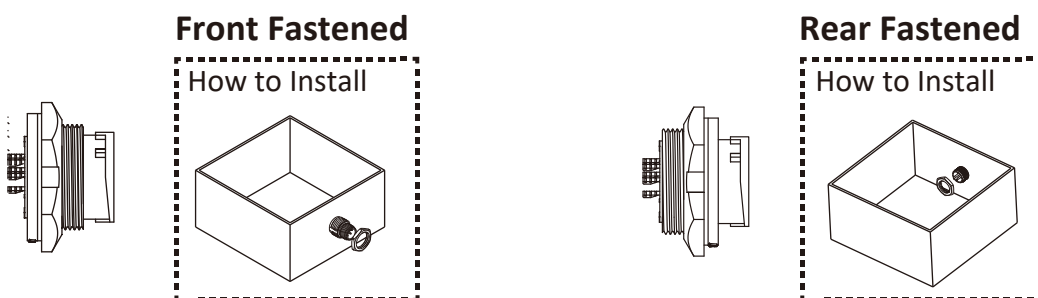
UL 2238

These requirements cover devices intended for inter-connection of equipment, sensors, and actuators in remote-control, signaling, and power-limited circuits. Included are cable assemblies and fittings, feeder-tap cable systems, feed-through connectors, multi-outlet fittings, panel-mount fittings, and splitters. These devices are rated at no more than 60 A and no more than 600 V. These devices are not intended for disconnect means.

LV214

This automotive standard was developed by German car manufacturers Audi, BMW, Daimler, Porsche and Volkswagen. It addresses the ability of terminals to be effectively evaluated by crimp force monitors. The terminals must exhibit certain crimp force to be used in an automotive wire harness.

Fasten Style of Nut



Mating Style

Screw Thread

- Ceres
- RJ45
- Cable Joiner & FICX
- Power
- USB
- M Series
- HDMI
- Cable Gland
- NMEA
- RF
- LED Light Guide
- D-Sub
- DVI
- Vent

2 Points Lock Bayonet

- Ceres
- Power
- USB

3 Points Lock Bayonet

- Ceres
- Power
- RJ45
- Fiber

Push Pull

- M Series
- FLOS & FLOS+
- HS-Lok
- USB

Push Lock With Latches

- RBL
- D-Sub
- SSL

Push Lock

- X-Lok
- USB

Termination Style



PCB 180°



PCB 90°



Solder



Screw In



Crimp



IDC



Push In



SMT

ODVA

ODVA is a global association whose members comprise of world's leading automation companies. ODVA's mission is to advance open, interoperable information and communication technologies in industrial automation. The association recognizes its media independent network protocol, the Common Industrial Protocol or "CIP" – and the network adaptations of CIP – EtherNet/IP, DeviceNet, CompoNet and ControlNet – as its core technology and the primary common interest of its membership.

ODVA's vision is to contribute to the sustainability and prosperity of the global community by transforming the model for information and communication technology in the industrial ecosystem.

NMEA 2000

NMEA 2000 is a protocol used to create a network of electronic devices – mainly marine instruments – on a boat. Various instruments that meet the NMEA 2000 standard are connected to one central cable, known as a backbone. The backbone powers each instrument and relays data among all the instruments on the network. This allows one display unit to show many different types of information and allows the instruments to work together. NMEA 2000 is meant to be "plug and play" to allow devices made by different manufacturers to talk and listen to each other.

Amphenol LTW's IPCS (Intelligent Pre-cabling Systems)

Amphenol LTW Intelligent Pre-Cabling System (IPCS) is your solution for the LED Lighting incorporation in indoor and outdoor applications. With a simplified design and wide flexibility, IPCS solves all your needs for electrical wiring and cabling infrastructure. It also provides large savings in on-site installation time and costs. The concept of IPCS is suitable for ALTW's various connector series, ideal for a large variety of customization.

Amphenol LTW's Power / Data / Hybrid Solutions

We are dedicated to developing interconnect solution to fulfill customer requirements of power or data applications, and as devices increasingly carry more functions in reduced spaces, Hybrid solutions are the answer to space limitation and multi-function. Below is the product series for Power, Data, and Hybrid applications.

0.5A ~ 2A

- Ceres
- X-Lok
- M Series
- D-Sub
- DVI
- HDMI
- USB
- HS-Lok
- FLOS & FLOS+

3A ~ 5A

- Ceres
- X-Lok
- M Series
- D-Sub
- SSL
- RBL
- HS-Lok
- FLOS & FLOS+
- NMEA 2000
- USB

6A ~ 10A

- Ceres
- X-Lok
- M Series
- Power
- Mini
- RBL
- FLOS & FLOS+
- NMEA 2000
- USB
- Cable Joiner & FICX

11A ~ 20A

- Ceres
- X-Lok
- M Series
- Power
- Mini
- RBL
- FLOS & FLOS+
- Cable Joiner & FICX

25A ~ 30A

- M Series
- FLOS & FLOS+
- Power

50A

- X-Lok
- Power

80A

- X-Lok
- Power

120A ~ 150A

- Power

Cross Section Conversion From AWG To mm²

26 AWG	0.14 mm ²	16 AWG	1.50 mm ²	4 AWG	25.00 mm ²
24 AWG	0.25 mm ²	14 AWG	2.50 mm ²	2 AWG	35.00 mm ²
22 AWG	0.34 mm ²	12 AWG	4.00 mm ²	1 AWG	50.00 mm ²
20 AWG	0.50 mm ²	10 AWG	6.00 mm ²	2/0 AWG	70.00 mm ²
18 AWG	0.75 mm ²	8 AWG	10.00 mm ²		
17 AWG	1.00 mm ²	6 AWG	16.00 mm ²		

Ingress Protection (IP) Rating Guide

Waterproof Definition

Unmated Waterproof



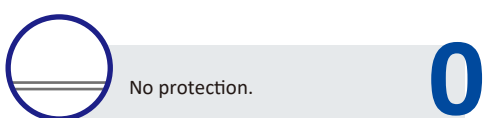
Standalone waterproof or waterproof is assured even without its counterpart. The water will not go through the inner portion of the exposed connector as it is entirely sealed.

Mated Waterproof



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

1st numeral - solid foreign objects



No protection.

0



Protected against solid foreign objects of 50 mm Ø and greater.

1



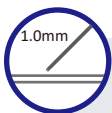
Protected against solid foreign objects of 12,5 mm Ø and greater.

2



Protected against solid foreign objects of 2,5 mm Ø and greater.

3



Protected against solid foreign objects of 1,0 mm Ø and greater.

4



Dust-protected.

5



Dust-tight.

6

Example:

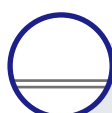


IP 65

Protected against water jets.

Dust-tight.

2nd numeral - water



No protection.

0



Protected against vertically falling water drops.

1



Protected against vertically falling water drops when enclosure tilted up to 15°.

2



Protected against spraying water.

3



Protected against splashing water.

4



Protected against water jets.

5



Protected against powerful water jets.

6



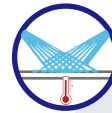
Protected against the effects of temporary immersion in water.

7



Protected against the effects of continuous immersion in water.

8



Protected against high pressure and temperature water jets.

9K

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