LP-12 Series



Part NO. LP-12-C02PE-01-001/LP-12-C02SX-01-001

Wire specification 1.0Mm'~1.5Mm'/18-16AWG

Line diameter range 3mm~7mm
Diameter×number Ф1.0×2
Rated current(A) 5A
Operation

voltage(AC.V.RMS)

Contact resistance <5mΩ

Temperature rise 5A per contact at 30℃ , 7A......40℃ , 10A......50℃。

Withstand voltage
(AC.V)1minute

Insulation resistance >500MΩ

Protection level IP65/IP67

Mating cycle ≥1700times

Working temperature -40℃~80℃

Connection mode Quick plug connection
Wiring mode Welding / Crimping

Material

Insulation components High-performance engineering plastics

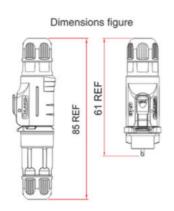
Hardware Zinc alloy (Nickel Plating)
PIN Copper alloy | gold plating

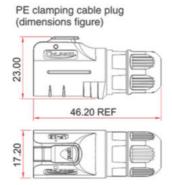
Waterproof circle Silica gel Flame retardant grade UL94-V0

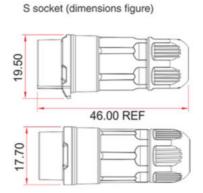
the number of pins	2PIN	3PIN	4PIN	5PIN	6PIN	7PIN	8PIN	
The PIN map	••	••		:	•••	::		
Rated current	5A	5A	5A	5A	5A	3 A	3A	
Operating voltage	125V	125V	125V	125V	125V	100V	100V	
Withstanding Voltage	1500V	1500V	1500V	1500V	1500V	1000V	1000V	
Contact resistance	<5.0mΩ	<5.0mΩ	<5.0mΩ	<5.0mΩ	<5.0mΩ	<10.0mΩ	<10.0mΩ	
Temperature rise	5A 30°C↓	;7A 40℃↓;	10A 50°C↓					
Contact diameter x number	Ф1.0*2	Ф1.0*3	Φ1.0*4	Ф1.0*5	Ф1.0*6	Φ0.8*7	Φ0.8*8	
Insertion force	0.6N Max.	0.9N Max.	1.2N Max.	1.5N Max.	1.8N Max.	2.1N Max.	2.4N Max.	
Durability	1700times							
Screw torque	42-53(N.m)	torque wren	ch200(N.m)					
Working temperature	-40°C ~ +80	-40°C ~ +80°C						
Vibration	Frequency:	5~200Hz, amp	litude: 5mm, s	peed: 10m/s,0	.10us without	instantaneous	break	
Impact resistance	294m/s2							
Salt fog	PH6.5-7.2,N	IaCI,5% 48H						
Cable specification	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464	
Cable specification	24AWG*2C	24AWG*3C	24AWG*4C	24AWG*5C	24AWG*6C	24AWG*7C	24AWG*8C	
Diameter range	Applicable scope of OD (1 - Φ Φ 6) mm with waterproof circle (Φ 6 mm, 3 mm Φ)							
Protection level	IP67							
Certification standards	Comply wit	h the TUV and	UL certificatio	n standards				



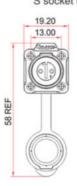
Appearance dimension

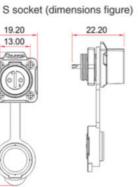




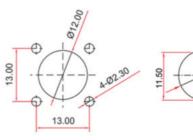




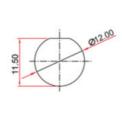








Installation hole figure



LP-16 Plastic-Shell Series



Product Parameter

Part NO. LP-16-C02PE-01-001/LP-16-J02PP-01-001

Wire specification 1.0Mm'~1.5Mm'/18-16AWG

Temperature rise 10A per contact at 30°C , 12A......40°C , 15A......50°C.

 Withstand voltage
 2500V

 (AC.V)1minute
 2500MΩ

 Insulation resistance
 > 500MΩ

 Protection level
 IP65/IP67

 Mating cycle
 ≥1700 times

 Working temperature
 -40℃-80℃

Connection mode Quick plug connection
Wiring mode Welding / Crimping

Material

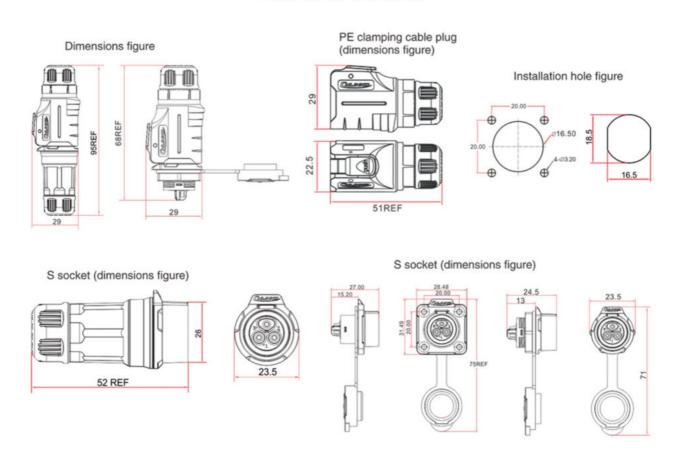
Insulation components High-performance engineering plastics

Hardware Zinc alloy (Nickel Plating)
PIN Copper alloy | gold plating

Waterproof circle Silica gel Flame retardant grade UL94-V0

the number of pins	2PIN	3PIN	4PIN	5PIN	7PIN	8PIN	9PIN	
The PIN map	••	••	::	:	:::			
Rated current	10A	10A	10A	5A	5A	5A	5A	
Operating voltage	400V	400V	400V	250V	250V	250V	250V	
Withstanding Voltage	2500V	2500V	2500V	1500V	1500V	1500V	1500V	
Contact resistance	<2.5mΩ	<2.5mΩ	<2.5mΩ	<5.0mΩ	<5.0mΩ	<5.0mΩ	<5.0mΩ	
Temperature rise	10A 30°C1 ; 12A 40°C1 ; 15A 50°C1							
Contact diameter x number	Φ1.5*2	Φ1.5*3	Φ1.5*4	Ф1.0*5	Φ1.0*7	Φ1.0*8	Ф1.0*9	
Insertion force	1.2N Max.	1.8N Max.	2.4N Max.	1.5N Max.	1.8N Max.	2.4N Max.	2.7N Max.	
Durability	1700times							
Screw torque	42-53(N.m) torque wrench200(N.m)							
Working temperature	-40°C ~ +80	-40℃ ~ +80℃						
Vibration	Frequency:	5~200Hz, amp	litude: 5mm, s	peed: 10m/s,0	10us without i	instantaneous	break	
Impact resistance	294m/s2							
Salt fog	PH6.5-7.2,N	aCI,5% 48H						
Cable specification	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464	
Cable specification	24AWG*2C	24AWG*3C	24AWG*4C	24AWG*5C	24AWG*6C	24AWG*7C	24AWG*8C	
Diameter range	Applicable scope of OD (1 - Φ Φ) 8.5 mm with waterproof circle (Φ 9 mm, 5 mm Φ							
Protection level	IP67							
Certification standards	Comply with	the TUV and	UL certificatio	n standards				





LP-16 Metal Shell Series



Product Parameter

LP-16-C03PE-04-001/LP-16-J03SX-02-001 Part NO.

Wire specification 1.0Mm'~1.5Mm'/18-16AWG

Line diameter range 3mm~7mm Diameter×number 10A Rated current(A) Operation voltage(AC.V.RMS) 500V

Contact resistance <2.5mΩ

10A per contact at 30℃, 12A......40℃, 15A......50℃. Temperature rise

Withstand voltage 2500V Insulation resistance $> 500M\Omega$ Protection level IP65/IP67 Mating cycle ≥1700 times Working temperature -40℃~80℃

Welding / Crimping Wiring mode

Material

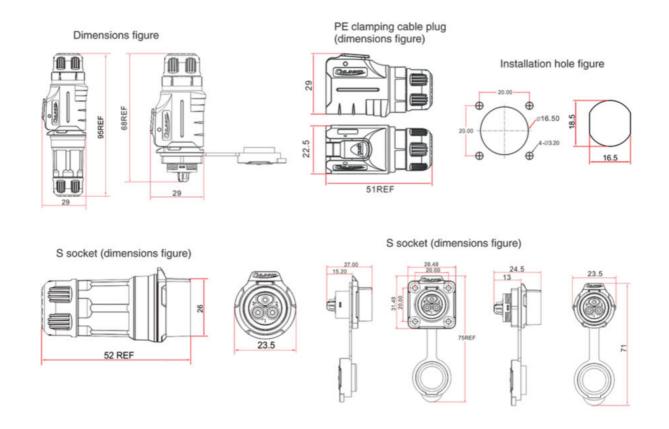
Insulation components Zinc alloy

Hardware Zinc alloy (Nickel Plating) PIN Copper alloy | gold plating

Waterproof circle UL94-V0 Flame retardant grade

the number of pins	2PIN	3PIN	4PIN	5PIN	7PIN	8PIN	9PIN
The PIN map	••	:	::	:	:::		
Rated current	10A	10A	10A	5A	5A	5A	5A
Operating voltage	400V	400V	400V	250V	250V	250V	250V
Withstanding Voltage	2500V	2500V	2500V	1500V	1500V	1500V	1500V
Contact resistance	<2.5mΩ	<2.5mΩ	<2.5mΩ	<5.0mΩ	<5.0mΩ	<5.0mΩ	<5.0mΩ
Temperature rise	10A 30℃↓	;12A 40°C↓;	15A 50℃↓				
Contact diameter x number	Φ1.5*2	Φ1.5*3	Φ1.5*4	Φ1.0*5	Φ1.0*7	Ф1.0*8	Ф1.0*9
Insertion force	1.2N Max.	1.8N Max.	2.4N Max.	1.5N Max.	1.8N Max.	2.4N Max.	2.7N Max.
Durability	1700times						
Screw torque	42-53(N.m)	torque wrend	:h200(N.m)				
Working temperature	-40°C ~ +80	°C					
Vibration	Frequency:	5~200Hz, amp	litude: 5mm, s	peed: 10m/s,0	10us without	instantaneous	break
Impact resistance	294m/s2						
Salt fog	PH6.5-7.2,N	aCI,5% 48H					
C-1-1	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464
Cable specification	24AWG*2C	24AWG*3C	24AWG*4C	24AWG*5C	24AWG*6C	24AWG*7C	24AWG*8C
Diameter range	Applicable scope of OD (1 - Φ Φ) 8.5 mm with waterproof circle (Φ 9 mm, 5 mm Φ						
Protection level	IP67						
Certification standards	Comply with	n the TUV and	UL certificatio	n standards			





LP-20 Series



Product Parameter

Line diameter range 8mm~12mm Ф2.7×4 Diameter×number 20A Rated current(A) Operation voltage(AC.V.RMS) Contact resistance <1mΩ Temperature rise

20A per contact at 30°C , 25A......40°C , 30A......50°C. Withstand voltage

2500V (AC.V)1minute Insulation resistance $> 500M\Omega$ Protection level IP65/IP67

Mating cycle Working temperature -40℃~80℃

Wiring mode Welding / Crimping

≥500 times

Material

Insulation components

High-performance engineering plastics

Zinc alloy (Nickel Plating)

Copper alloy | gold plated

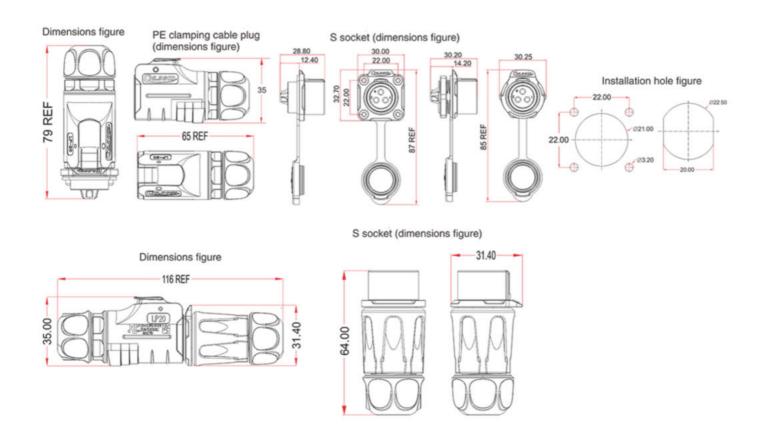
Hardware PIN

Waterproof circle Silica gel UL94-V0

Flame retardant grade

Certification standards	Comply with	the TUV and	UL certification	n standards				
Protection level	IP67	IP67						
Diameter range	Applicable scope of OD (1 - Φ Φ) 8.5 mm with waterproof coil (9 mm, 5 mm Φ Φ)							
Cable specification	24AWG*2C	24AWG*3C	24AWG*4C	24AWG*5C	24AWG*6C	24AWG*7C	24AWG*8C	
	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464	UL2464	
Salt fog	PH6.5-7.2,N	aCI,5% 48H						
Impact resistance	294m/s2							
Vibration	Frequency: 5	5~200Hz, ampl	itude: 5mm, sp	peed: 10m/s,0.	10us without i	nstantaneous b	oreak	
Working temperature	-40°C ~ +80	°C						
Screw torque	42-53(N.m)	torque wrenc	h200(N.m)					
Durability	1700times							
Insertion force	0.9N Max.	0.9N Max.	0.9N Max.	1.2N Max.	1.2N Max.	1.2N Max.	1.2N Max.	
Contact diameter x number	Φ2.7*2	Φ2.7*3	Φ2.7*4	Φ1.8*5	Φ1.8*7	Φ1.0*9	Φ1.0*12	
Temperature rise	20A 30°C↓	; 25A 40℃↓;	30A 50°C↓					
Contact resistance	<1.0mΩ	<1.0mΩ	<1.0mΩ	<2.5mΩ	<2.5mΩ	<5.0mΩ	<5.0mΩ	
Withstanding Voltage	2500V	2500V	2500V	2500V	2500V	1500V	1500V	
Operating voltage	500V	500V	500V	500V	500V	400V	400V	
Rated current	20A	20A	20A	12A	12A	5A	5A	
The PIN map	••	••	::					
the number of pins	2PIN	3PIN	4PIN	5PIN	7PIN	9PIN	12PIN	





LP-24 Series



Product Parameter

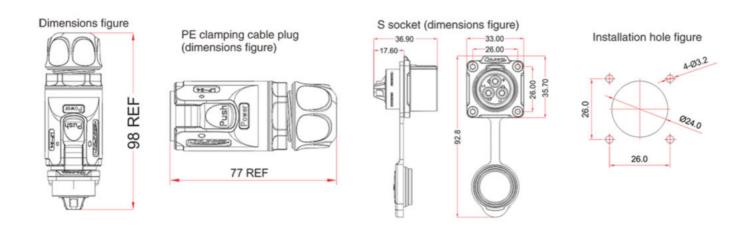
LP-24-C03PE-01-001/LP-24-J03SX-01-001 Part NO. Wire specification 2.5Mm'~5Mm'/14-12AWG Line diameter range 8mm~12mm Diameter×number Ф3.0 ∕ 3 Rated current(A) 30A Operation voltage(AC.V.RMS) Contact resistance <1mΩ Temperature rise 30A per contact at 30℃, 35A.....40℃, 40A......50℃. Withstand voltage 2500V (AC.V)1minute Insulation resistance > 500MΩ Protection level IP65/IP67
Mating cycle ≥500 times Working temperature -40℃~80℃ Connection mode Quick plug connection Wiring mode Welding / Crimping

Material

Insulation components
High-performance engineering plastics
Hardware
Zinc alloy (Nickel Plating)
Copper alloy | gold plating
Waterproof circle
Flame retardant grade
UL94-V0

the number of pins	3PIN	4PIN	10PIN	12PIN	19PIN	24PIN	RJ45	USB	Optical fibe		
The PIN map	••	::					Emm!				
Rated current	25A		10A		5A		1.5A				
Operating voltage	50	OV	40	VOC	15	50V					
Withstanding Voltage		250	00V		15	00V	1000V				
Contact resistance	<1.	0mΩ	< 2.5	5mΩ	< 5.	0mΩ	<30mΩ				
Temperature rise	25A 3	0°C1;	10A 30℃↓;		5A 3	5A 30°C1;					
	30A 40°C↓;		12A 40℃↓;		7A 40°C1;						
	35A 5	0℃1;	15A 5	50°C1;	10A	10A 50°C↓;					
Contact diameter x number	Ф3.0*3	Ф3.0*4	Φ1.5*10	Ф1.5*12	Ф1.0*19	Φ1.0*24	8PIN	9PIN&4PIN	2		
Insertion force	4.5N Max.	6.0N Max.	14N Max.	16N Max.	19N Max.	22N Max.	4.5N Max.	4.5N Max.	4.5N Max.		
Durability	1700times	1700times									
Screw torque	42-53(N.m) torque wr	ench 200(N.r	n)							
Working temperature	-40°C ~ +8	80°C									
Vibration	Frequency	5~200Hz, a	mplitude: 5m	m, speed: 10	m/s,0.10us w	ithout instar	taneous bre	ak			
Impact resistance	294m/s2										
Salt fog	PH6.5-7.2,	NaCI,5% 48H									
Cable specification	2.5mm ² -4mm ² 1.0mm ² -1.5mm ² /12-14AWG /16-18AWG			0.15mm²-0.2mm² /24-26AWG							
Diameter range	The applicable scope of OD (4 - Φ Φ 14) mm with waterproof circle (Φ 7 mm, 14 mm Φ)										
Protection level	IP67										
Certification standards	Comply wi	th the TUV a	nd UL certifie	Comply with the TUV and UL certification standards							





LP-28 Series



Product Parameter

LP-28-C02PE-21-000/LP-28-J025X-23-300 Part NO.

Wire specification 2.5Mm'~5Mm'/14-12AWG

Line diameter range 18mm~20mm Diameter×number Φ4.0×2 50A Rated current(A) Operation 500V

voltage(AC.V.RMS)

Contact resistance <5mΩ

30A per contact at 30℃ , 35A.....40℃ , 40A......50℃. Temperature rise

Withstand voltage 2500V (AC.V)1minute

Insulation resistance $> 500M\Omega$ Protection level IP65/IP67 ≥500 times Mating cycle Working temperature -40°C~80°C

Wiring mode Welding / Crimping

Material

Insulation components High-performance engineering plastics

Hardware Zinc alloy (Nickel Plating) PIN Copper alloy | gold plating

Waterproof circle Silica gel Flame retardant grade UL94-V0

the number of pins	2PIN	3PIN	8PIN				
The PIN map	•••	•••					
Rated current	50A	35A	15A				
Operating voltage		500V					
Withstanding Voltage		1500V					
Contact resistance			<40mΩ				
Temperature rise	10A 30°C↓ ; 12A 40°C↓ ; 15A 50°C↓						
Contact diameter x number	Φ4.0*2	Φ4.0*3	Ф3.0*8				
Insertion force	1.2N Max.	1.8N Max.	2.4N Max.				
Durability	1700times						
Screw torque	42-53(N.m) torque wrench200(N.m)						
Working temperature	-40℃ ~ +80℃						
Vibration	Frequency: 5~200Hz, amplitude: 5mm, speed: 10m/s,0.10us without instantaneous break						
Impact resistance	294m/s2						
Salt fog	PH6.5-7.2,NaCl,5% 4	8H					
Cable specification	UL2464 24AWG*2C	UL2464 24AWG*3C	UL2464 24AWG*8C				
Diameter range	Applicable scope of OD (Φ18-Φ20) mm Applicable scope of OD (Φ13-Φ15) mm						
Protection level	IP67						
Certification standards	Comply with the TUV and UL certification standards						



