

Amphenol LTW

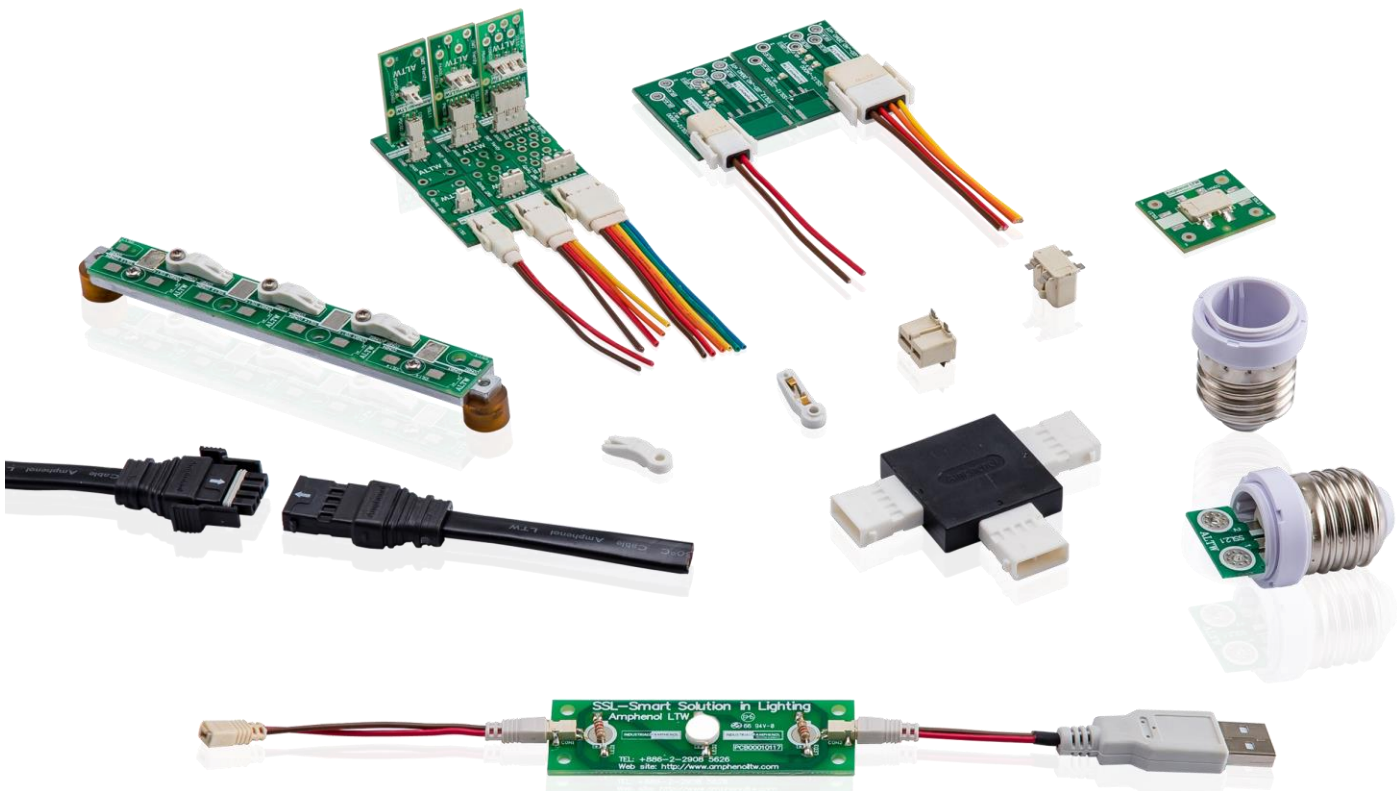
- IP68 mated
- UL certified
- Compact design
- Low profile design
- Indoor & outdoor solutions
- UV resistant
- Reducing labor time

SSL

Smart
Solution
In Lighting

Connector

Wire to Board
Connector



Unrivaled InterConnects for Harsh Environments

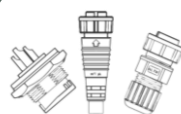
About ALTW

**3**

Production Sites
(Taiwan, China, Mexico)

**30+**

Market Applications

**90,000+**

Products

Since 1993, Amphenol LTW Technology “ALTW” lives and breathes to create, innovate, design and produce “***unrivaled interconnects for harsh environments***”. With over 300 worldwide patents, not only does ALTW offer the broadest and widest range of rugged interconnects in the industry but also customization with the mission of “Customer Satisfaction First”. Undoubtedly, ALTW is the leader in rugged interconnects, highly recognized for its uncompromising quality, short lead time, fast and tailored service and its very competitive pricing.

Regardless of the challenging environments that your products will be subject to; there is a very good chance that you will find what you are looking for with ALTW.

Unrivaled InterConnects for Harsh Environments

SSL Connector & Applications

Amphenol LTW's SSL (Smart Solution in Lighting) series is a waterproof and non-waterproof connector series developed for LED lighting and non-lighting applications. Its low-profile design aims at minimizing and eliminating the field wiring and reducing labor time as well as facilitating any maintenance job.

- ❖ Wire to wire, board to board, wire to board, jumper, receptacle
- ❖ Compact design
- ❖ Indoor & outdoor solutions
- ❖ IP68 mated (SSL1.2)
- ❖ UV resistant (SSL 1.2)
- ❖ UL certified



Market	Application	
LED Lighting	• Architectural Lighting • Residential, Medical, and Commercial Lighting • Street, Parking, Park, and Tunnel Lighting • Entertainment and Signage Lighting	• Horticulture, Grow, & Warehouse Lighting • Mass Transportation and Vehicles • Marine Vessel and Submersible Lighting • Appliances and Equipment Lighting
Marine	• Lighting: Ceiling, Lamp, Decorative	
Heavy Equipment	• Lighting Fixtures and Interior Lighting • Diagnostic Systems	
Hybrid Electric Vehicles	• Safety System: Speed, Brake, Throttle, Gear • Power System: Charging, Controller, Battery	• Motor and Gear Shift Modules • Home Charge Platform and Hoeverboard
Railway Mass Transit	• Lighting: Interior and Exterior	
Transpo	• Lighting: Interior and Exterior	
Medical Equipment	• Lighting for Equipment	
Remote Video Response Center	• Lighting: Interior and Exterior	
Autonomous	• Lighting: Interior and Exterior	

Product Range Overview

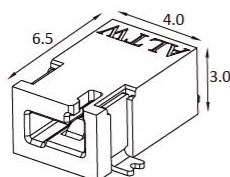
SUB SERIES	SSL 1.1	SSL 1.2
Mating Style	-	Push Lock
Plastic Version	✓	✓
No. of Contacts	2 ~ 6	2 ~ 4
Plating of Contacts	Gold Plated	Gold Plated
Operating Voltage (AC/DC)	100V	250V, 300V
Nominal Current	3A	5A
Operating Temperature	Receptacle: -40°C ~ 105°C Overmolded With Cable: -40°C ~ 105°C Field Serviceable/Installable: -40°C ~ 105°C Field Serviceable/Installable With Wires: -40°C ~ 100°C / -40°C ~ 105°C	
Receptacle	✓	✓
Field Serviceable/Installable	✓	✓
Overmolded with Cable	-	✓
Accessories	✓	✓
Mating Cycles (Pin Contact)	100	30
IP Rating	Non-waterproof	IP68
UV Resistant	-	✓
Flammability Rating	UL94V-0	UL94V-0
Vibration Resistant	Frequency Range 10 ~ 55Hz / Amplitude 1.52mm	
RoHS Compliant	✓	✓
REACH Compliant	✓	✓
Certifications	UL1977	UL1977, UL2238, UL50e
Applicable Wire Gauge	22AWG	22 ~ 18AWG

SSL 1.1 - Plastic Jack / Plug

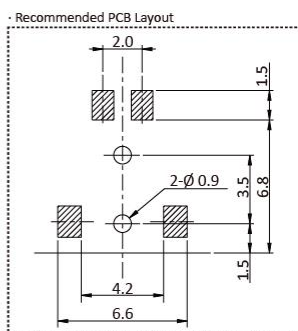
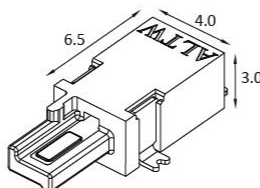
PCB Layout

PCB SMT Mount > Right Angle (Horizontal Mounting)

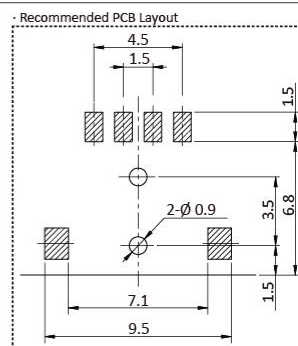
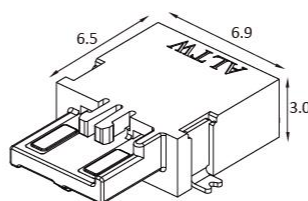
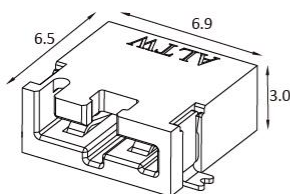
Jack
>> 2P



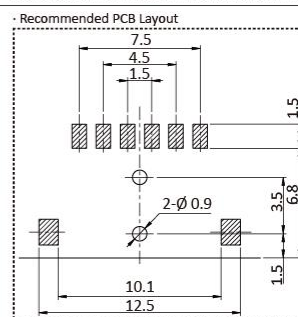
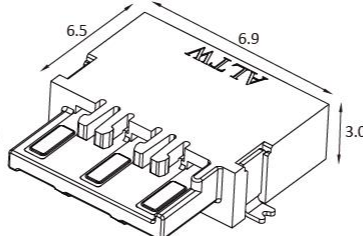
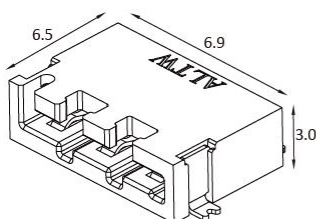
Plug



>> 4P



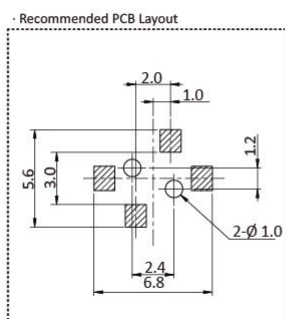
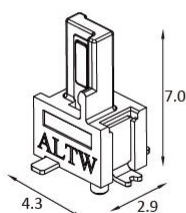
>> 6P



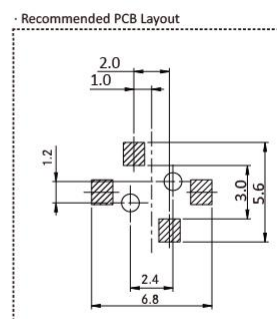
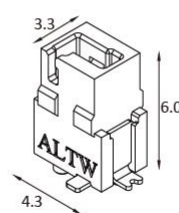
PCB Mount > Straight (Vertical Mounting)

Plug

>> 2P



Jack

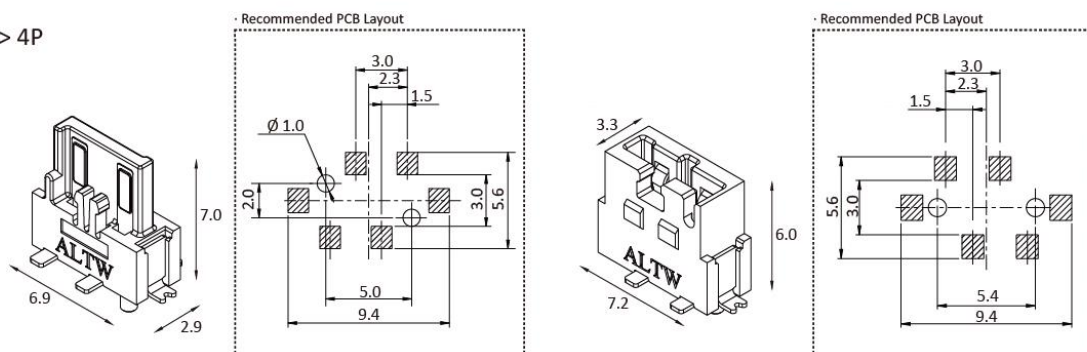


(unit: mm)

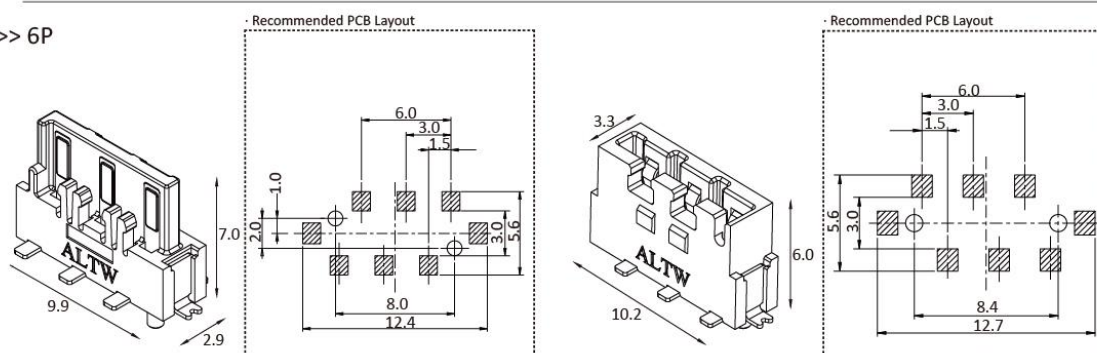
SSL 1.1 - Plastic Jack / Plug

PCB Mount > Straight (Vertical Mounting)

>> 4P



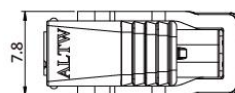
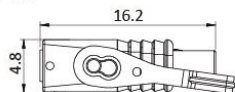
>> 6P



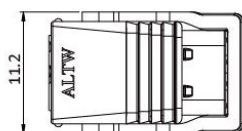
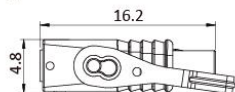
Wire Assembly

Jack

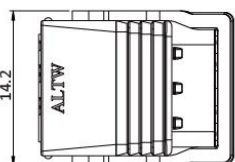
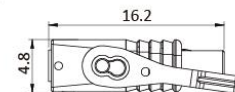
>> 2P



>> 4P

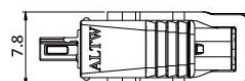
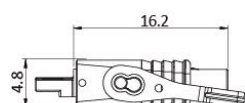


>> 6P

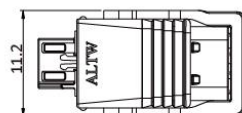
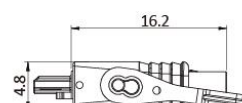


Plug

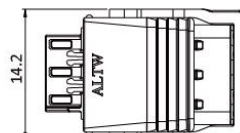
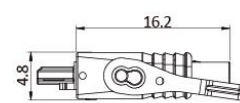
>> 2P



>> 4P



>> 6P



(Unit: mm)

SSL 1.1 - Plastic Jack / Plug

No of Contacts	2	4	6
Rated Voltage (AC/DC)	100V		
Nominal Current	3A		
Plastic / Metal	Plastic		
SMT Board, STRAIGHT (Contact Gender: Plug) Wires Assembly Options: For PCB Mount Type Without Lock, Non-Waterproof			
SMT Board Straight With Post	SSL11-P02A00-000001	SSL11-P04A00-000001	SSL11-P06A00-000001
SMT Board, RIGHT ANGLE (Contact Gender: Plug) Wires Assembly Options: For PCB Mount Type Without Lock, Non-Waterproof			
SMT Board Right Angle With Post	SSL11-P02C00-000001	SSL11-P04C00-000001	SSL11-P06C00-000001
SMT Board Right Angle Without Post	SSL11-P02D00-000001	SSL11-P04D00-000001	SSL11-P06D00-000001
STRAIGHT , Overmolded With Wires Single Ended (Contact Gender: Plug, With Strain Relief) ⑩ Wire/Cable Length: (01) 100mm ~ (99) 9,900mm ¹⁾			
UL1430, XL-PVC, No Lock (End 1: Plug, End 2: Open)	SSL11-P02LP0-022A⑩	SSL11-P04LP0-022A⑩	SSL11-P02LP0-022A⑩
UL1430, XL-PVC, W2B Lock In End 1 (End 1: Plug, End 2: Open)	SSL11-P02LP0-B22A⑩	SSL11-P04LP0-B22A⑩	SSL11-P06LP0-B22A⑩
UL1430, XL-PVC, W2W Lock In End 1 (End 1: Plug, End 2: Open)	SSL11-P02LP0-W22A⑩	SSL11-P04LP0-W22A⑩	SSL11-P06LP0-W22A⑩
STRAIGHT-TO-STRAIGHT , Overmolded With Wires Double Ended (Contact Gender: Plug) ⑩ Wire/Cable Length: (01) 100mm ~ (99) 9,900mm ¹⁾			
UL1430, XL-PVC, No Lock (Plug To Plug)	SSL11-P02L2P-022D⑩	SSL11-P04L2P-022D⑩	SSL11-P06L2P-022D⑩
UL1430, XL-PVC, No Lock (Plug To Jack)	SSL11-P02LJP-022D⑩	SSL11-P04LJP-022D⑩	SSL11-P06LJP-022D⑩
UL1430, XL-PVC, Two W2W Locks (Plug To Plug)	SSL11-P02L2P-T22D⑩	SSL11-P04L2P-T22D⑩	SSL11-P06L2P-T22D⑩
UL1430, XL-PVC, Two W2W Locks (Plug To Jack)	SSL11-P02LJP-T22D⑩	SSL11-P04LJP-T22D⑩	SSL11-P06LJP-T22D⑩
SMT Board, STRAIGHT (Contact Gender: Jack) Wires Assembly Options: For PCB Mount Type Without Lock, Non-Waterproof			
SMT Board Straight With Post	SSL11-J02A00-000001	SSL11-J04A00-000001	SSL11-J06A00-000001
SMT Board, RIGHT ANGLE (Contact Gender: Jack) Wires Assembly Options: For PCB Mount Type Without Lock, Non-Waterproof			
SMT Board Right Angle With Post	SSL11-J02C00-000001	SSL11-J04C00-000001	SSL11-J06C00-000001
SMT Board Right Angle Without Post	SSL11-J02D00-000001	SSL11-J04D00-000001	SSL11-J06D00-000001
STRAIGHT , Overmolded With Wires Single Ended (Contact Gender: Jack, With Strain Relief) ⑩ Wire/Cable Length: (01) 100mm ~ (99) 9,900mm ¹⁾			
UL1430, XL-PVC, No Lock (End 1: Plug, End 2: Open)	SSL11-J02LJ0-022A⑩	SSL11-J04LJ0-022A⑩	SSL11-J06LJ0-022A⑩
UL1430, XL-PVC, W2B Lock In End 1 (End 1: Plug, End 2: Open)	SSL11-J02LJ0-B22A⑩	SSL11-J04LJ0-B22A⑩	SSL11-J06LJ0-B22A⑩
UL1430, XL-PVC, W2W Lock In End 1 (End 1: Plug, End 2: Open)	SSL11-J02LJ0-W22A⑩	SSL11-J04LJ0-W22A⑩	SSL11-J06LJ0-W22A⑩
STRAIGHT-TO-STRAIGHT , Overmolded With Wires Double Ended (Contact Gender: Jack) ⑩ Wire/Cable Length: (01) 100mm ~ (99) 9,900mm ¹⁾			
UL1430, XL-PVC, No Lock (Jack To Jack)	SSL11-J02L2J-022D⑩	SSL11-J04L2J-022D⑩	SSL11-J06L2J-022D⑩
UL1430, XL-PVC, Two W2W Locks (Jack To Jack)	SSL11-J02L2J-T22D⑩	SSL11-J04L2J-T22D⑩	SSL11-J06L2J-T22D⑩

Mating

Pair

Mating

Pair

¹⁾ Every 100mm As Per Extension

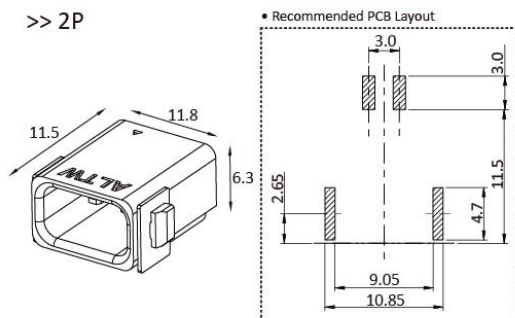
SSL 1.2 - Plastic Jack / Plug

PCB Layout

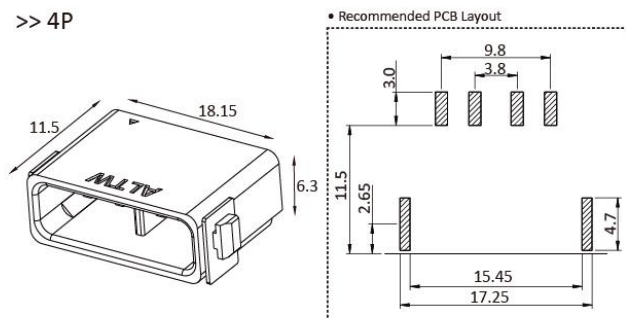
SMT Receptacle Right Angle (Horizontal Mounting)

Jack

>> 2P



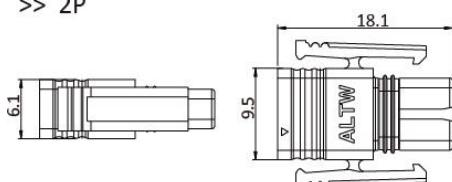
>> 4P



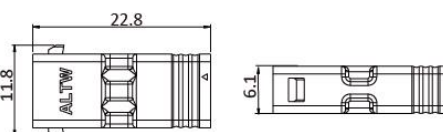
Field Installable

Plug

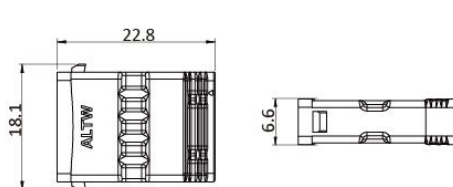
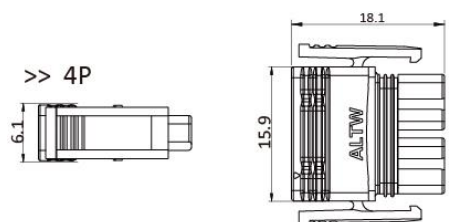
>> 2P



Jack



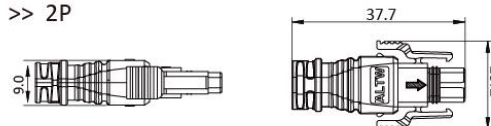
>> 4P



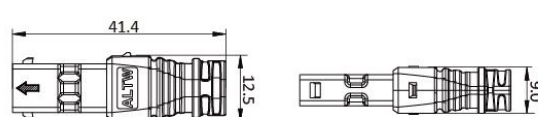
Overmolded With Cable

Plug

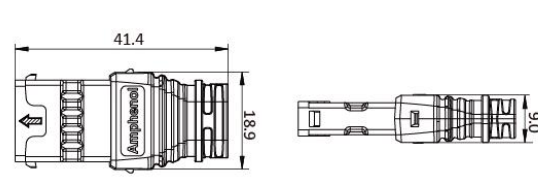
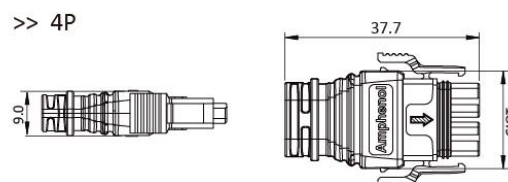
>> 2P



Jack



>> 4P



(unit: mm)

SSL 1.2 - Plastic Jack / Plug

No of Contacts	2	4
Rated Voltage (AC/DC)	Wire 250V Flat Cable 300V	
Nominal Current	5A	
Plastic / Metal	Plastic	
Field Servicable/Installable (Contact Gender: Plug, IP68 Mated)		
Wires Assembly Options: For PCB Mount Type With Two Latches Contact BBA00010667 Excluded		
End 1: Plug, End 2: Open With Two Latches	SSL12-P02FP0-M000001	SSL12-P04FP0-M000001
STRAIGHT, Overmolded With Wires Single Ended (Contact Gender: Plug, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ With Two Latches Wire Size: 20AWG (0.50mm ²)		
UL1430, XL-PVC End 1: Plug, End 2: Open	SSL12-P02LP0-M20A⑩	SSL12-P04LP0-M20A⑩
STRAIGHT-TO-STRAIGHT, Overmolded With Wires Double Ended (Contact Gender: Plug, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ With Two Latches Wire Size: 20AWG (0.50mm ²)		
UL1430, XL-PVC (Plug to Plug)	SSL12-P02L2P-M20A⑩	SSL12-P04L2P-M20A⑩
STRAIGHT, Overmolded With Flat Cable Single Ended (Contact Gender: Plug, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ With Two Latches		
UL 21996, PVC, 18AWG (0.75mm ²), White Jacket	SSL12-P02LP0-M18F⑩	SSL12-P04LP0-M18F⑩
UL 21996, PVC, 18AWG (0.75mm ²), Blck Jacket	SSL12-P02LP0-M18H⑩	SSL12-P04LP0-M18H⑩
UL 21996, PVC, 20AWG (0.50mm ²), White Jacket	SSL12-P02LP0-M20F⑩	SSL12-P04LP0-M20F⑩
UL 21996, PVC, 20AWG (0.50mm ²), Black Jacket	SSL12-P02LP0-M20H⑩	SSL12-P04LP0-M20H⑩
STRAIGHT, Overmolded With Flat Cable Double Ended (Contact Gender: Plug, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ With Two Latches		
UL 21996, PVC, 18AWG (0.75mm ²), White Jacket	SSL12-P02L2P-M18F⑩	SSL12-P04L2P-M18F⑩
UL 21996, PVC, 18AWG (0.75mm ²), Blck Jacket	SSL12-P02L2P-M18H⑩	SSL12-P04L2P-M18H⑩
UL 21996, PVC, 20AWG (0.50mm ²), White Jacket	SSL12-P02L2P-M20F⑩	SSL12-P04L2P-M20F⑩
UL 21996, PVC, 20AWG (0.50mm ²), Black Jacket	SSL12-P02L2P-M20H⑩	SSL12-P04L2P-M20H⑩
SMT Board, RIGHT ANGLE (Contact Gender: Jack, IP68 Mated)		
Wires Assembly Options: For PCB Mount Type Without Lock		
SMT Board Right Angle Without Post	SSL12-J02D00-000001	SSL12-J04D00-000001
Field Servicable/Installable (Contact Gender: Jack, IP68 Mated)		
Wires Assembly Options: For PCB Mount Type Without Lock Contact BBA00010666 Excluded		
End 1: Jack, End 2: Open	SSL12-J02FJ0-000001	SSL12-J04FJ0-000001
STRAIGHT, Overmolded With Wires Single Ended (Contact Gender: Jack, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ Wire Size: 20 AWG (0.50mm ²)		
UL1430, XL-PVC, Without Lock End 1: Jack, End 2: Open	SSL12-J02LJ0-020A⑩	SSL12-J04LJ0-020A⑩
STRAIGHT, Overmolded With Wires Double Ended (Contact Gender: Jack, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ Without Lock Wire Size: 20 AWG (0.50mm ²)		
UL1430, XL-PVC (Jack to Jack)	SSL12-J02L2J-020A⑩	SSL12-J04L2J-020A⑩
UL1430, XL-PVC (Jack to Plug)	SSL12-J02LJP-020A⑩	SSL12-J04LJP-020A⑩
STRAIGHT, Overmolded With Flat Cable Single Ended (Contact Gender: Jack, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ Without Lock		
UL 21996, PVC, 18AWG (0.75mm ²), White Jacket	SSL12-J02LJ0-018F⑩	SSL12-J04LJ0-018F⑩
UL 21996, PVC, 18AWG (0.75mm ²), Blck Jacket	SSL12-J02LJ0-018H⑩	SSL12-J04LJ0-018H⑩
UL 21996, PVC, 20AWG (0.50mm ²), White Jacket	SSL12-J02LJ0-020F⑩	SSL12-J04LJ0-020F⑩
UL 21996, PVC, 20AWG (0.50mm ²), Black Jacket	SSL12-J02LJ0-020H⑩	SSL12-J04LJ0-020H⑩
STRAIGHT-TO-STRAIGHT, Overmolded With Flat Cable Double Ended (Contact Gender: Jack, IP68 Mated)		
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾ Without Lock		
UL 21996, PVC, 18AWG (0.75mm ²), White Jacket	SSL12-J02L2J-018F⑩	SSL12-J04L2J-018F⑩
UL 21996, PVC, 18AWG (0.75mm ²), Blck Jacket	SSL12-J02L2J-018H⑩	SSL12-J04L2J-018H⑩
UL 21996, PVC, 18AWG (0.75mm ²), White Jacket	SSL12-J02LJP-018F⑩	SSL12-J04LJP-018F⑩
UL 21996, PVC, 18AWG (0.75mm ²), Blck Jacket	SSL12-J02LJP-018H⑩	SSL12-J04LJP-018H⑩
UL 21996, PVC, 20AWG (0.50mm ²), White Jacket	SSL12-J02L2J-020F⑩	SSL12-J04L2J-020F⑩
UL 21996, PVC, 20AWG (0.50mm ²), Black Jacket	SSL12-J02L2J-020H⑩	SSL12-J04L2J-020H⑩
UL 21996, PVC, 20AWG (0.50mm ²), White Jacket	SSL12-J02LJP-020F⑩	SSL12-J04LJP-020F⑩
UL 21996, PVC, 20AWG (0.50mm ²), Black Jacket	SSL12-J02LJP-020H⑩	SSL12-J04LJP-020H⑩

Mating

Pair

Mating

Pair

¹⁾ Every 100mm As Per Extension



Amphenol LTW

Contact Us

Luc Kan | Sales & Marketing | luc@ltw-tech.com

Customer Service | sales@ltw-tech.com

Follow Us



Unrivaled InterConnects for Harsh Environments