

SSL Series 1.2
IP X8 waterproof solution

Product Data Sheet

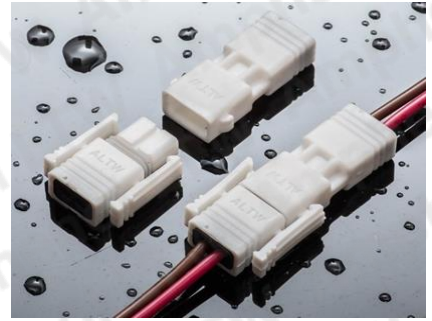
SSL 1.2 IP X8 waterproof

General Specification

Number of Positions	2P (4 & 6P upon request)
Current Rating	5A
Wire Information	20-22 AWG UL 1430
Voltage Rating	250 VAC/VDC
Dielectric Withstand Voltage	1500 VAC
Durability	30 cycles
Color	Natural White
Operating Temperature	-40°C ~ +105°C
Certifications	UL1977, CSA C22.2, cUL, RoHS

Material Specification

Housing	Thermoplastic, UL94V-0
Terminal	Copper Alloy, Gold Plated, All over nickel under- plated
Gasket & Seals	Silicone, UL94V-0

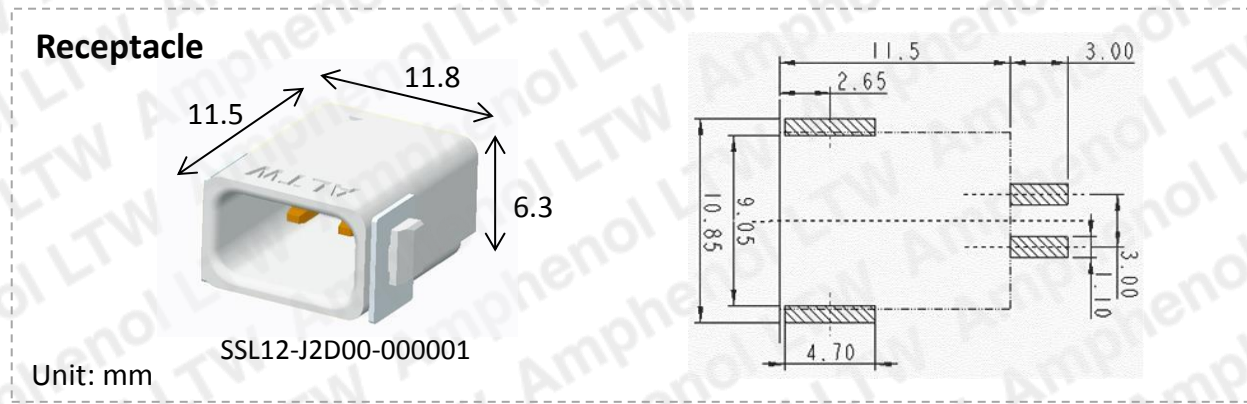
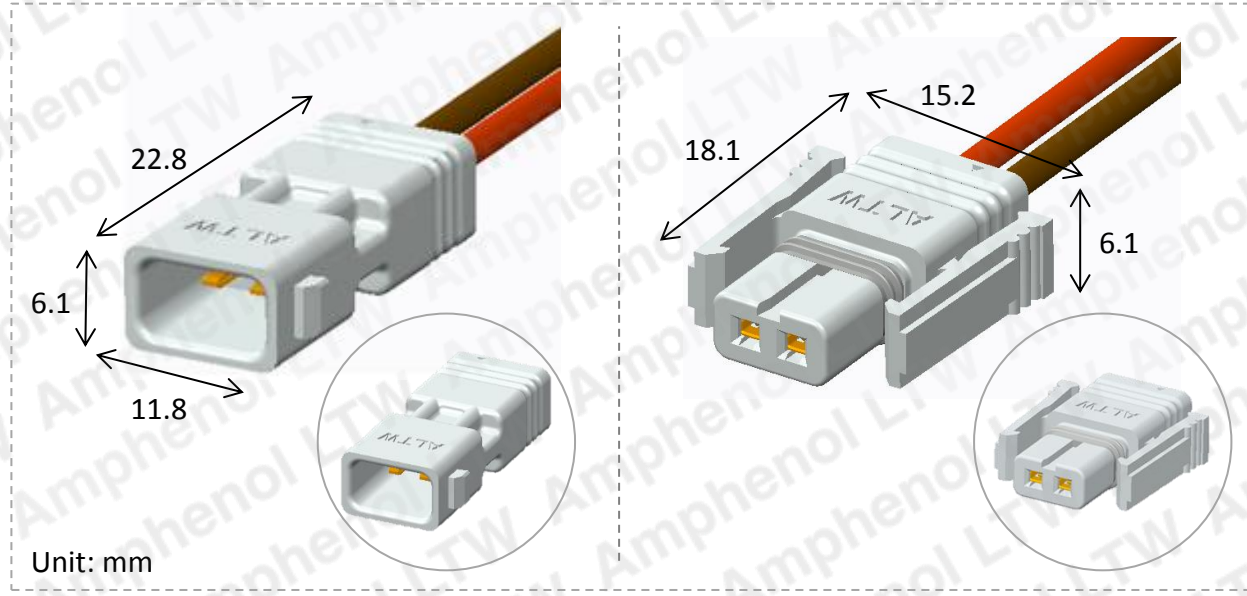
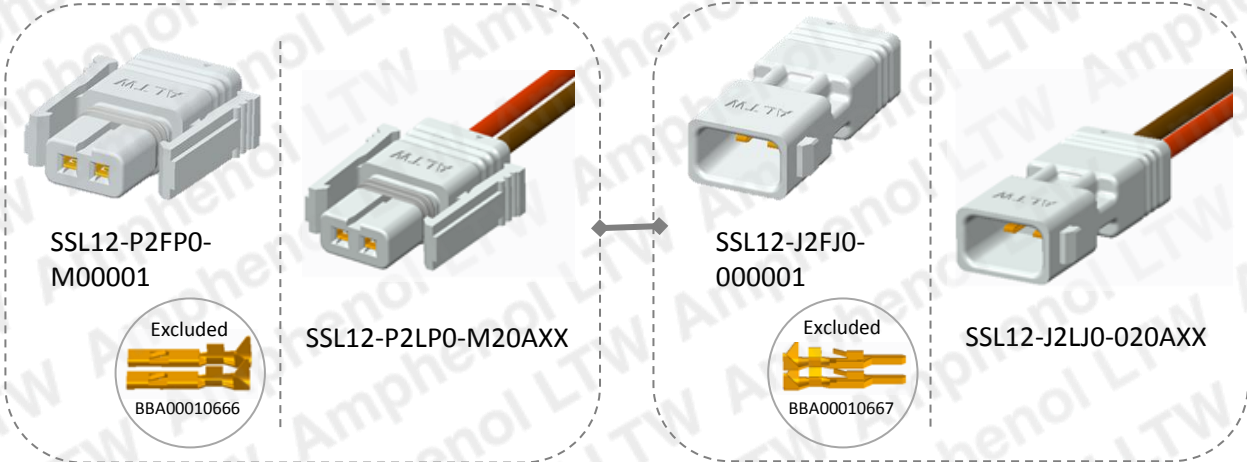


- Low profile
- Available in 2P (4 & 6P upon request)
- Designed for wire to wire & wire-to-board interconnection
- Cable assemblies, field installable and SMT receptacle available
- IP X8 waterproof protection (mated): 24 hours at a depth of 1 meter
- Suitable for outdoor and indoor LED lighting applications exposed to various wet environments
- Positive latching to ensure interconnection in various environmental conditions
- Material adopted and packing design for SMT processes
- Polarization key to prevent mismatching
- UL 1977, RoHS Compliant , CSA C22.2 No. 182.3



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Wire to Wire Interconnection



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Test Characteristics

The connector is tested to the following specifications:

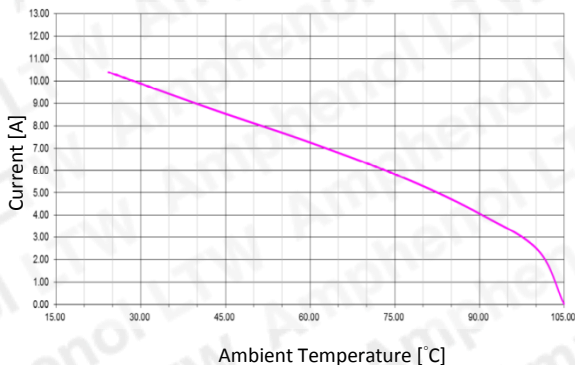
Mechanical Conditions and Performance

Visual Examination	Per EIA-364-18 and as drawing specified
Durability	Per EIA-364-09, mated and unmated connector assemblies for 30 cycles at maximum rate of 500±50 cycles per hour
Insertion and Withdrawal force	Per EIA-364-13, shall be fully mated at a rate of 25.4 millimeters per minute <ul style="list-style-type: none"> • Insertion Force: 2P: 3Kgf max. • Withdrawal Force, without Lock: 2P :0.3Kgf minimum
Crimp Tensile	Per EIA-364-8, determine crimp tensile at a maximum rate of 25 ± 6 mm per minute. <ul style="list-style-type: none"> • 20 & 22 AWG: 3.7 kg minimum
Crimp Contact Retention	Per EIA-364-29, Method C, apply an axial load at maximum rate of 25.4mm per minute until dislodged <ul style="list-style-type: none"> • More than 1.8kg
Vibration	Per EIA-364-28, Condition I, frequency:10~55~10HZ, amplitude: 1.5 mm; Two hours in each of 3 mutually perpendicular planes

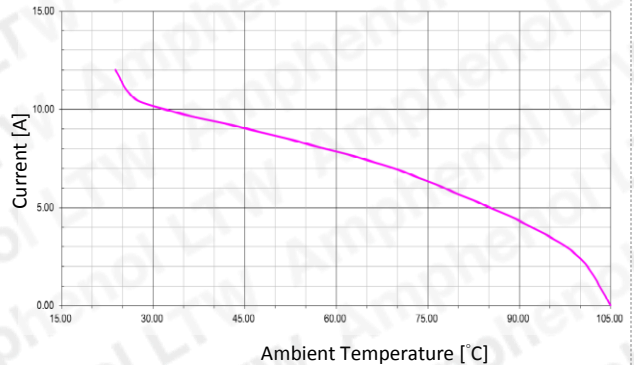
Current-Carrying Capacity Curve

Conductor size: 20AWG

• In-line



• Receptacle to cable assembly



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Test Characteristics

The connector is tested to the following specifications:

Electrical Conditions and Performance

Low Level Contact Resistance	Per EIA-364-23 , measure and record the contact resistance with a test current of 100 mA maximum and 20 mV open circuit (source) voltage maximum <ul style="list-style-type: none"> • 10 mΩ maximum initial, • Δ10 mΩ maximum after test
Insulation Resistance	Per EIA-364-21 , apply a test voltage 500V/DC \pm 10% between the closet adjacent contacts <ul style="list-style-type: none"> • 1000 MΩ minimum
Dielectric Withstand Voltage	Per EIA-364-20 , Condition I, 1500V AC at sea level. Test between adjacent contacts of mated specimens.
Temperature Rise	Per UL2238 section 25 , the temperature do not exceed the RTI of insulating material. Temperature rise Δ t is no more than 30°C , also for cUL (CSA C22.2 No. 182.3,Clause 6.5)

Environmental Conditions and Performance

Damp Heat, Cyclic	Per EIA-364-31 , Test method II, Condition A, at relative humidity of 90% ~ 95% and a temperature of 40 \pm 2°C for 96 hours
Salt Spray	Per EIA-364-26 , 5% salt solution for 24 hours unmated
Thermal Aging	Per EIA-364-17 , Test method A, Condition 4, Test Time Condition B, 105°C for 250 hours
Thermal Shock	Per EIA-364-32 , Condition VIII, 5 cycles at -40°C to +105°C
Solderability	Per EIA-364-52 , soldering time : 3s \pm 0.5s, solder temperature: 240 \pm 2°C 0.2mm from terminal tip 0.2mm from fitting nail tip <ul style="list-style-type: none"> • Minimum 95% coverage examined by at 10xmagnification
Resistance to Solder Heat	Per EIA-364-56 , Procedure 3, Condition C, 260 \pm 5°C for 10 \pm 2 seconds
Waterproof Test	Per IEC 60529 , IPX8 (mated), should be immersed in water at depth of at least 1 m for 24 hours