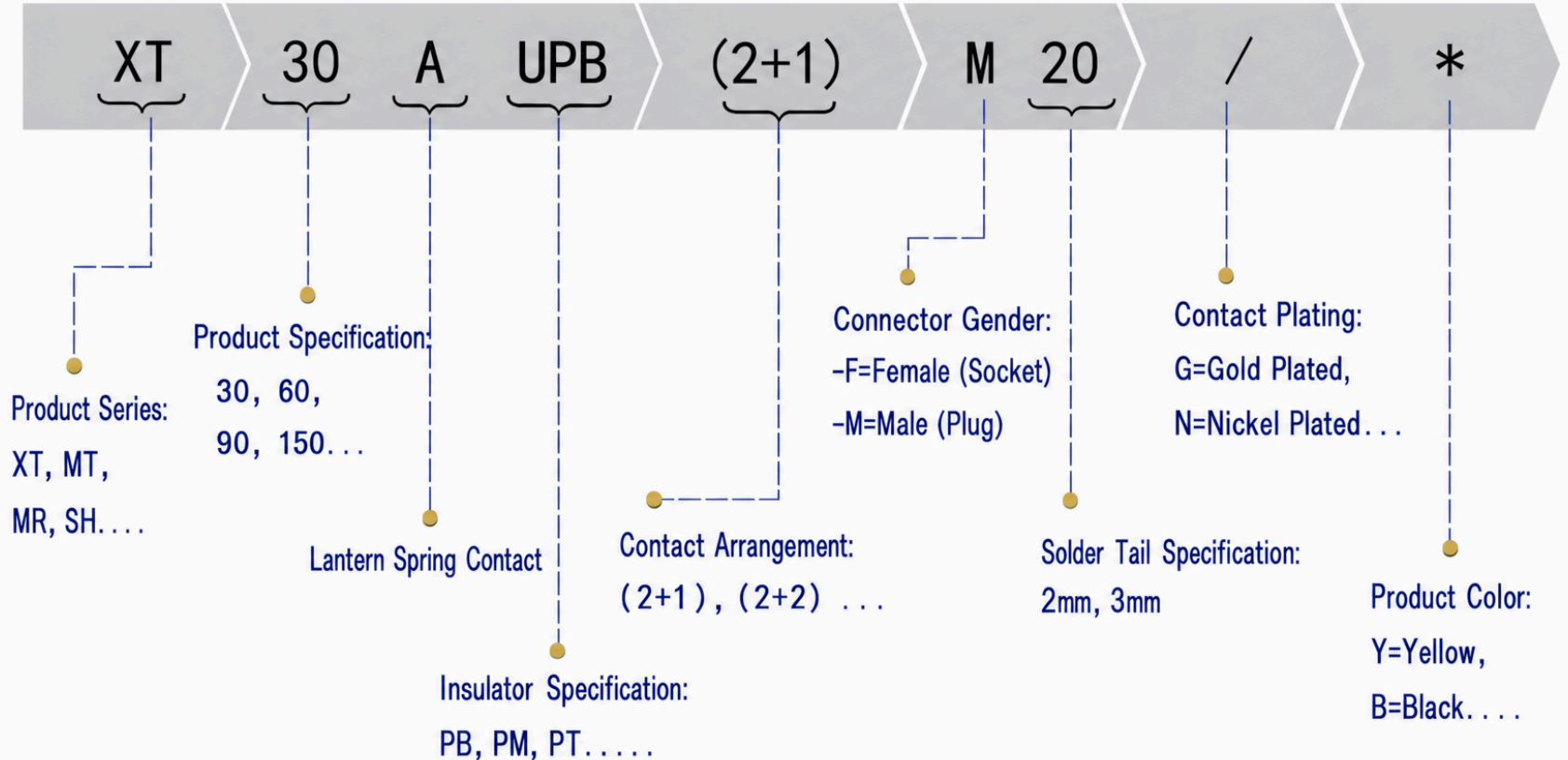


Model Description of Amass Products



Amass Product Specification

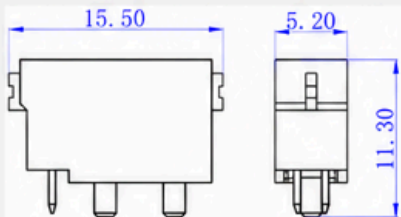
1. Product Description

The classic welding plastic 2PIN connector is a standard component for 15A power lithium battery power supply connectors. It features gold-plated contacts and two housing options (nickel-plated or gold-plated), as well as inline or right-angle versions, and comes in wire-mounted and board-mounted configurations.

2. Application Areas

☐ Lithium Battery ☐ Motor ☒ Controller ☐ Charger ☐ Others

3. Product Images

Product Photo	Outline Drawing
	
Product Model	Solder Tail Height
XT30PB (2+2) -M. G. *	2.5mm

4. Specifications

Material	Specification	Plating	Plating Thickness
Metal Parts	QSn4-4-4	G: Gold Plating (Au)	0.03μm
Material	Specification	Color	Flammability Rating
Plastic Housing	PA66	*: B=Black	UL94-V0

5. Features

Electrical Performance	Test Method	Characteristics
Withstand Voltage	UL1977	DC 500V
Rated Current	UL1977	15A
Contact Resistance	GB/T5095.2	1.20mΩ
Insulation Resistance	GB/T5095.2	2000MΩ
Instantaneous Current	&A 1min <80℃	30A
Temperature Rise	UL1977	15A 4h <60℃
Solderability	GB/T2900.18	1.5mm
Mechanical Performance	Standard	Characteristics
Insertion Force	GB/T5095.8	1.2kg-3.5kg
Withdrawal Force	GB/T5095.8	1.2kg-3.5kg
Durability	GB/T5095.1	100 times
Protection Level	GB/T4208	IP40
Environmental Performance	Standard	Characteristics
Operating Temperature	GB/T 2423.3	-20℃ to 120℃
Salt Spray	GB/T 2423.17	48h

6. Current Carrying Capacity Reference

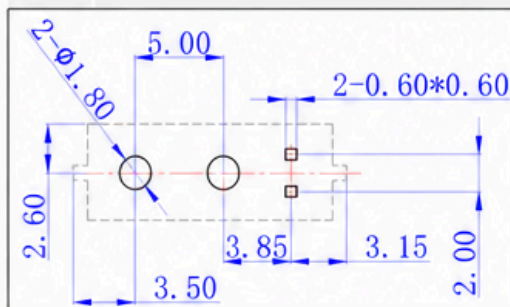
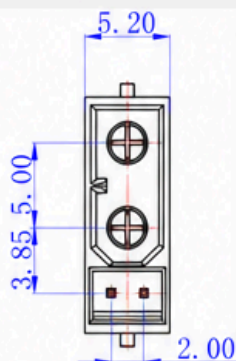
mm ²	60℃ Temperature Rise	85℃ Temperature Rise
16#	20A	25A
18#	15A	20A
20#	10A	15A

☐ With Flanges ☐ With Latch ☐ Waterproof ☐ Fireproof

☐ UL ☐ CE ☒ RoHS 2.0 ☐ Reach

Technical drawing of a mechanical part with the following dimensions:

- Overall width: 11.30
- Distance from left edge to first hole center: 2.50
- Overall height: 13.90
- Distance from top edge to first hole center: 2.60
- Distance between first and second hole centers: 3.10
- Hole diameter: $\varnothing 1.60$



PCB Layout (Top View)



PCB Mounting Hole Dimensions (Top View)

When in use, do not exceed the specified current and voltage ratings.



- Exceeding the rated current and voltage may cause failure and accidents.
- Do not plug or unplug the connector while it is live, as this may cause failure or accidents. Please plug or unplug the connector when the power is off.

Do not use the connector under conditions where external force is applied.



- Do not use the connector when wires are under strain. Excessive external force may cause failure or accidents, therefore do not use the connector under these conditions.
- The connector is designed as a component of the circuit, so do not use it as a structural part of a housing or similar assembly.

Use in the specified environment.



- Do not use the connector in high-temperature or high-humidity environments.
- Using the connector in environments other than those specified in the specifications may cause failure. Please do not use it in such conditions.

Handle with care.



- The connector is a precision component, so handle it with care during use.
- Be careful when opening the packaging, as the product may have sharp or protruding parts that could cause injury, deformation, bending, or detachment if subjected to strong impact.

Prepared by:

Reviewed by:

Approved by: