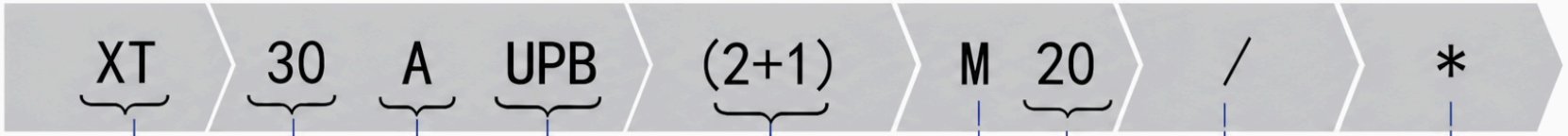
Model Description of Amass Products



Product Series:
XT, MT,
MR, SH....

Product Specification:
30, 60,
90, 150...

Lantern Spring Contact

Insulator Specification:
PB, PM, PT.....

Contact Arrangement:
(2+1), (2+2) ...

Connector Gender:
-F=Female (Socket)
-M=Male (Plug)

Solder Tail Specification:
2mm, 3mm

Contact Plating:
G=Gold Plated,
N=Nickel Plated...

Product Color:
Y=Yellow,
B=Black....

Amass Product Specification

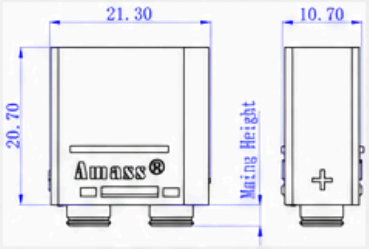
1. Product Description

Right-angle vertical mount 2P1N connector, designed to provide integrated solutions for space-constrained PCB applications. Available with gold-plated and nickel-plated options, with two housing color choices and optional wire outlet design.

2. Application Areas

☐ Lithium Battery ☐ Motor ☑ Controller ☐ Charger ☐ Others

3. Product Diagram

Product Photo	Dimensional Drawing
	

Part Number	Mating Height
XT90PB30-M.G.*	2.8mm

4. Specifications

Material	Specification	Plating	Plating Thickness
Metal Parts	H59-1	G: Gold Plated (Au)	0.03μm
Material	**Specification**	**Color**	**Flammability Rating**
Housing	PA66	*: Y = Yellow, B = Black	UL94-V0

5. Performance Characteristics

Electrical Performance	Test Method	Characteristics
Withstanding Voltage	UL1977	DC 500V
Rated Current	UL1977	30A
Contact Resistance	GB/T5095.2	0.40mΩ
Insulation Resistance	GB/T5095.2	2000MΩ
Instantaneous Current	&A 1min <80℃	60A
Temperature Rise	UL1977	30A 4h <60℃
Insertion/Withdrawal Force	GB/T2900.18	5.20mm
Mechanical Performance	**Standard**	**Characteristics**
Insertion Force	GB/T5095.8	3.5kg-6.5kg
Withdrawal Force	GB/T5095.8	3.5kg-6.5kg
Durability (Mating Cycles)	GB/T5095.1	100 times
Protection Level	GB/T4208	IP40
Enviormental 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	Ambient Temp. 60℃	Ambient Temp. 85℃
8#	55A	60A
10#	50A	55A
12#	45A	50A

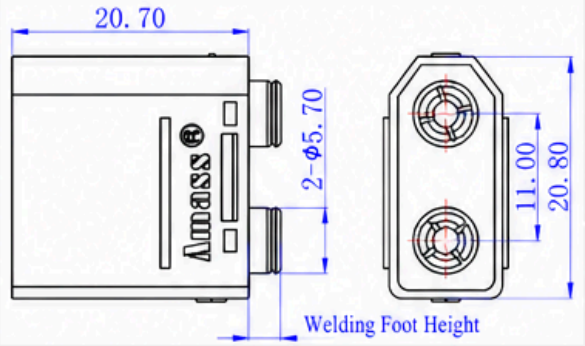
7. Configuration Description

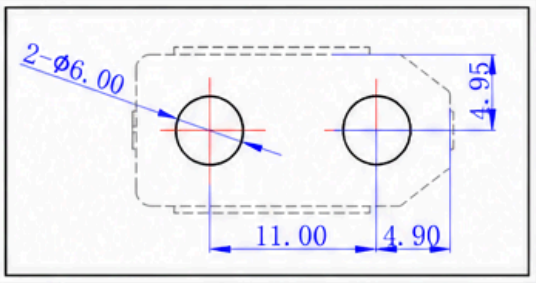
☐ With Cover ☐ With Latch ☐ Waterproof ☐ Fireproof

8. Qualification Certification

☑ UL ☑ CE ☑ RoHS 2.0 ☐ Reach

9. Installation Recommendation





Mounting Hole Diagram



Important Notes:

During use, please do not exceed the specified current and voltage ratings.



- Overcurrent and overvoltage may cause product failure or accidents.
- When the connector is in a powered state, plugging or unplugging may cause failure or accidents. Therefore, please plug or unplug the connector in an unpowered state.

Do not use the connector under external force.



- Do not use the connector under external force or stress. Excessive external force may cause damage, failure, or accidents. Please use the product under such conditions.
- The connector is a component designed for electrical connections, and must not be used as a structural part of an enclosure or similar structure.

Use in the appropriate environment.



- Do not use the connector in high-temperature or high-humidity environments.
- Do not use the connector in environments other than those specified in the product specifications, as it may cause failure or accidents.

Handle with care.



- The connector is a precision component; handle with care during use.
- Handle the connector with care from unpacking to installation. Even if the packaging of this product is strong, impacts or other phenomena such as deformation, bending, or detachment of terminals may still occur.

Prepared by: Reviewed by: Approved by: