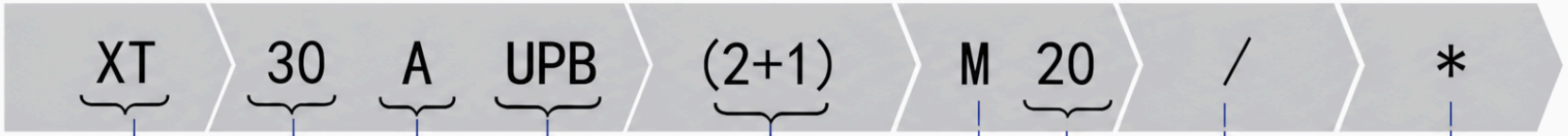
Model Description of Amass Products



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

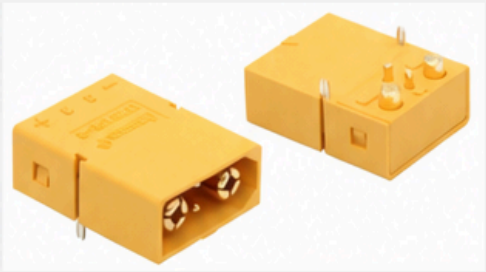
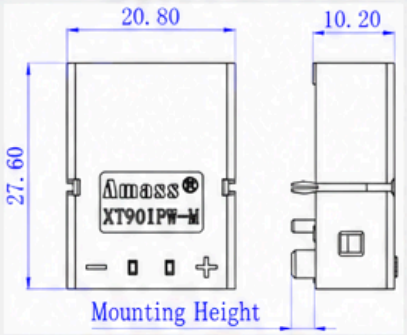
1. Product Description

XT90 Series 2+1 to 2+2 products, panel mount design, compatible with other XT90 series products

2. Application Areas

☐ Lithium Battery ☐ Motor ☑ Controller ☐ Charger ☐ Others

3. Product Illustration

Product Image	Outline Drawing
	

Model No.	Mounting Height
XT90PW (2+2) -M. G. *	2.8mm

4. Specifications

Material	Specification	Plating	Plating Thickness
Metal Parts	Male: H59-1 Female: H59-1	G: Gold Plated (Au) Gold Plated (Au)	0.03μm 0.015μm
Material	**Specification**	**Color**	**Flammability Rating**
Housing	PA6	*:Y=Yellow	UL94-V0

5. Performance

Electrical Performance	Test Method	Performance
Withstand Voltage	UL1977	DC 500V
Rated Current	UL1977	Male: 30A Female: 3A
Contact Resistance	GB/T5095.2	Male: 0.40mΩ Female: 8 mΩ
Insulation Resistance	GB/T5095.2	2000MΩ
Instantaneous Current	&A 1min <80℃	Male 60A
Temperature Rise	UL1977	Male: 30A 4h <60℃ Female: 3A 30min <70℃
Creepage Distance	GB/T2900.18	1.50mm
Mechanical Performance	**Standard**	**Performance**
Insertion Force	GB/T5095.8	3.5kg-7.0kg
Withdrawal Force	GB/T5095.8	3.5kg-7.0kg
Durability	GB/T5095.1	100 times
Protection Degree	GB/T4208	IP40
Environmental Performance	**Standard**	**Performance**
Operating Temperature	GB/T 2423.3	-20℃ to 120℃
Salt Spray	GB/T 2423.17	Male: 48h Female: 24h

6. Recommended Reflow Soldering Profile

mm²	Rise to 60°C	Rise to 85°C
Main contact: 8#	55A	60A
Main contact: 10#	50A	55A
Main contact: 12#	45A	50A

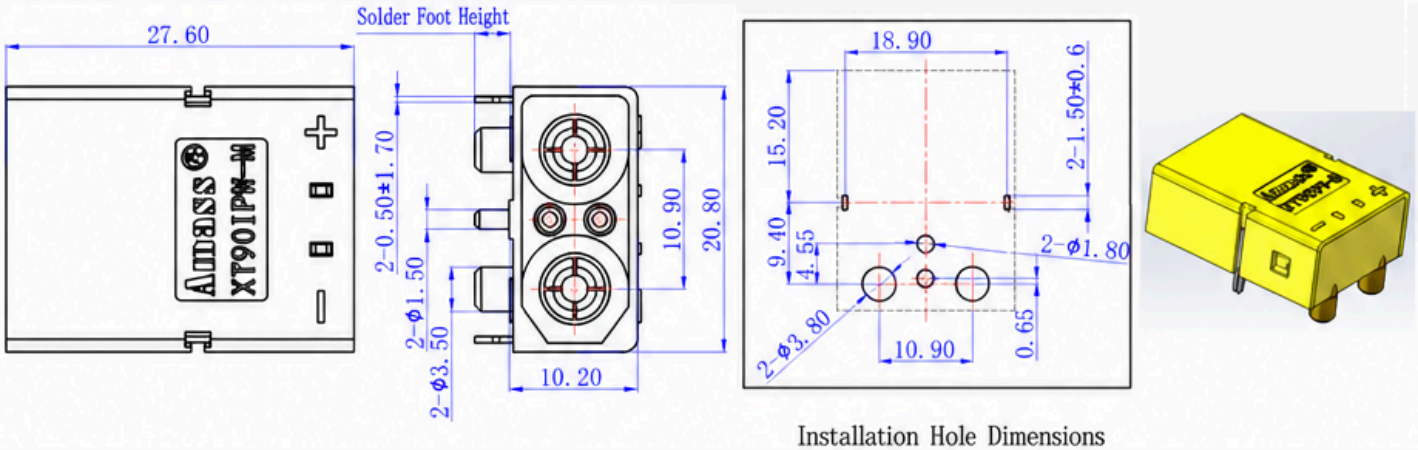
7. Optional Accessories

☑ With cover ☐ With latch ☐ Waterproof ☐ Flame retardant

8. Certifications

☐ UL ☐ CE ☑ RoHS 2.0 ☐ Reach

9. Installation Recommendation



Installation Hole Dimensions

Important Notes:

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



- Excessive current and voltage can lead to failure and accidents.
- If the connector is disconnected while under load, arcing can occur, leading to failure and accidents. Therefore, please disconnect the connector when it is not under load.

Do not use the connector under external force.



- Do not use the connector under tension and wiring stress. Excessive external force can cause failure and accidents, so please use it under these conditions.
- The connector is a component designed as part of an electrical circuit, so please use the connector as part of the enclosure or structure.

Use in the Specified Environment.



- Do not use in environments with high temperature, high humidity.
- If used in environments not specified in the specifications, failure may occur. Therefore, please use the connector in such environments.

Handle with Care.



- Connectors are precision parts, so please handle with care.
- Please handle with care from the time of opening the package, even for products using this packaging. Otherwise, under strong impact, it may cause terminal deformation, bending, disengagement, etc.

Prepared by: Checked by: Approved by: