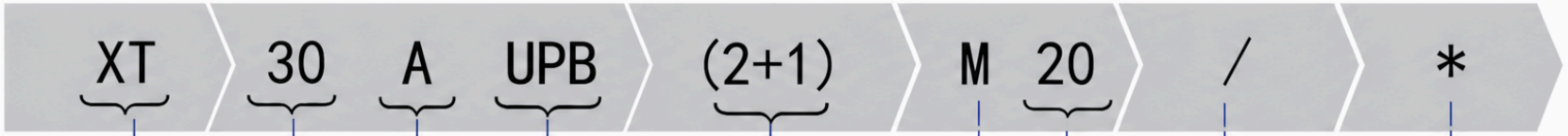
Model Description of Amass Products



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....

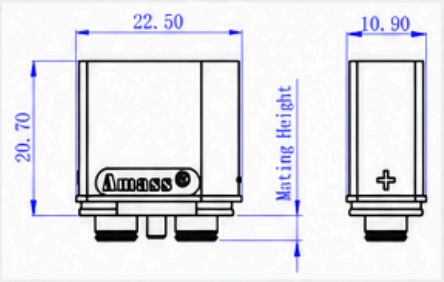
Amass Product Specification

1. Product Description

2. Application

☑ Battery ☐ Motor ☐ Controller ☐ Charger ☐ Others

3. Product Diagram

Product Photo	Outline Drawing
	

Model Number	Solder Height
XT90 (2+2) PB-M. G. *	3. 3mm

4. Specifications

Material	Specification	Plating	Plating Thickness
Metal Parts	Main Contact: H59-1 Signal Contact: H59-1	G: Gold Plated (Au) Gold Flash (Au)	0. 03μm 0.015μm
Material	**Specification**	**Color**	**Flammability Rating**
Plastic Housing	PA66	*: Y = Yellow	UL94-V0

5. Performance

Electrical	Test Method	Performance
Rated Voltage	UL1977	DC 500V
Rated Current	UL1977	Main Contact: 30A Signal Contact: 3A
Contact Resistance	GB/T5095. 2	Main Contact: 0.40mΩ Signal Contact: 8mΩ
Insulation Resistance	GB/T5095. 2	2000MΩ
Instantaneous Current	&A 1min ＜80℃	Main Contact ;60A
Temperature Rise	UL1977	Main Contact: 30A 4h ＜60℃ Signal Contact: 3A 30min ＜70℃
Withstanding Voltage	GB/T2900. 18	4. 50mm
Mechanical	**Standard**	**Performance**
Insertion Force	GB/T5095. 8	3. 5kg-7. 0kg
Extraction Force	GB/T5095. 8	3. 5kg-7. 0kg
Durability	GB/T5095. 1	100 times
Protection Level	GB/T4208	IP40
Environmental	**Standard**	**Performance**
Operating Temperature	GB/T 2423. 3	-20℃ to 120℃
Salt Spray	GB/T 2423. 17	Main Contact: 48h Signal Contact: 24h

6. Wire Gauge Recommendation

AWG	Temperature Rise 60°C	Temperature Rise 85°C
Main Contact: 8#	55A	60A
Main Contact: 10#	50A	55A
Main Contact: 12#	45A	50A

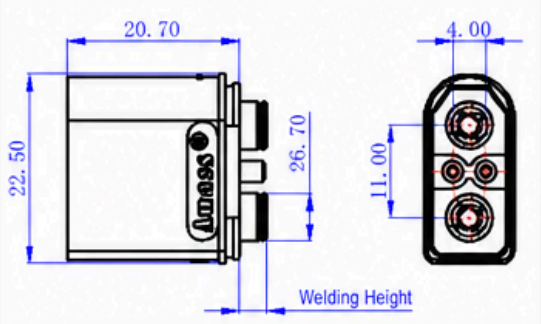
7. Configuration Options

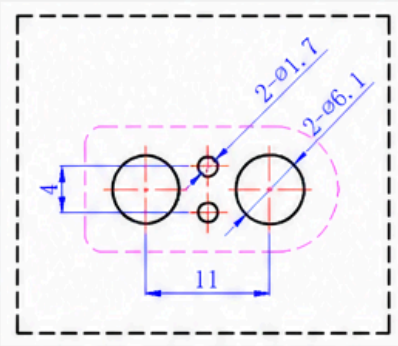
☐ With Dust Cover ☐ With Latch ☐ Waterproof ☐ Anti-Spark

8. Certification

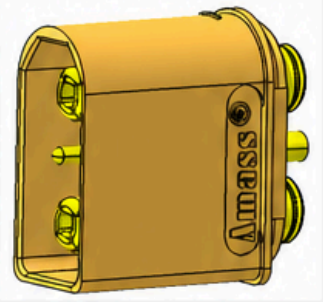
☐ UL ☐ CE ☑ RoHS 2.0 ☐ Reach

9. Installation Recommendation





Installation Hole Diagram



Installation Loaded Diagram

Important Notes:

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



- Excessive current or voltage may cause malfunction or accidents.
- If the connector is used in a powered state, inserting or unplugging the connector may cause arcing, which can lead to malfunction or accidents. Therefore, please ensure the power is off before connecting or disconnecting the connector.

Do not connect or disconnect the connector while under external force.



- Do not insert or unplug the connector while the wires or the connector are subjected to external force. Doing so may cause malfunction or accidents. Therefore, do not use the connector in such conditions.
- The connector is a precision electrical component, designed for use in structures where it is part of the housing or equivalent.

Ensure proper operating environment.



- Do not use in environments with high temperature or high humidity.
- Using outside the environments specified in the standards may cause malfunction. Therefore, do not use in such conditions.

Please handle with care.



- The connector is a precision component, so please handle it with care during use.
- The connector is not a packaging component. Handle with care when opening the package. Even if it is a packaged product with a carrier or packaging, strong impacts may cause deformation of the terminal, bending, detachment, etc.

Prepared by: **Reviewed by:** **Approved by:**