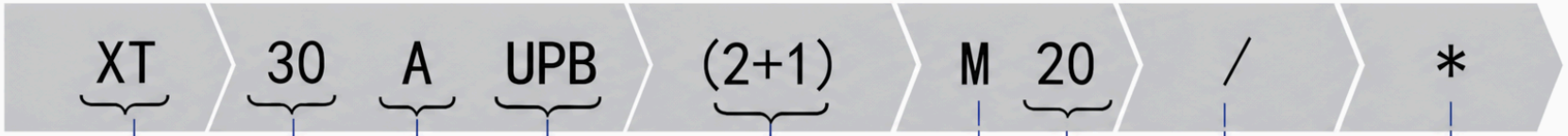
Model Description of Amass Products



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 Sheet

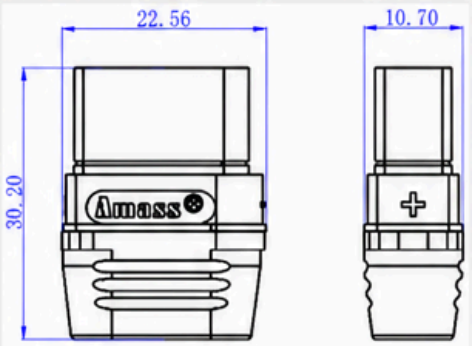
1. Product Description

Compatible with XT90 connectors, this 90 2+2 product is a high-current connector for lithium batteries, rated for 40–50A standardized internal connections.

2. Application Areas

☑ Lithium Battery ☐ Motor ☐ Controller ☐ Charger ☐ Others

3. Product Illustration

Model	Product Image	Outline Drawing
XT90 (2+2) -F. G. *		

4. Specifications

Material	Plating		Plating Thickness
Metal Parts	Main Contact: H59-1 Signal Contact: QSn4-4-4	G: Gold Plated (Au) Thick Gold Plated (Au)	0.03μm 0.015μm
Material	**Model**	**Color**	**Flammability Rating**
Housing	PA66	*: Y = Yellow, B = Black	UL94-V0

5. Performance Table

Electrical Performance	Test Method	Performance
Withstanding Voltage	UL1977	DC 500V
Rated Current	UL1977	Main Contact: 30A 12# Signal Contact: 3A 28#
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 12#
Temperature Rise	UL1977	Main Contact: 30A 4h <60℃ 12# Signal Contact: 3A 30min <70℃ 28#
Wire Pull-out Force	GB/T2900.18	8.00mm
Mechanical Performance	**Standard**	**Performance**
Insertion Force	GB/T5095.8	3.0kg-7.0kg
Withdrawal Force	GB/T5095.8	3.0kg-7.0kg
Durability	GB/T5095.1	100 times
Vibration	GB/T4208	IP40
Environmental Performance	**Standard**	**Performance**
Operating Temperature	GB/T 2423.3	-20℃ to 120℃
Salt Spray	GB/T 2423.17	Main Contact: 48h Signal Contact: 24h

6. Wiring 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

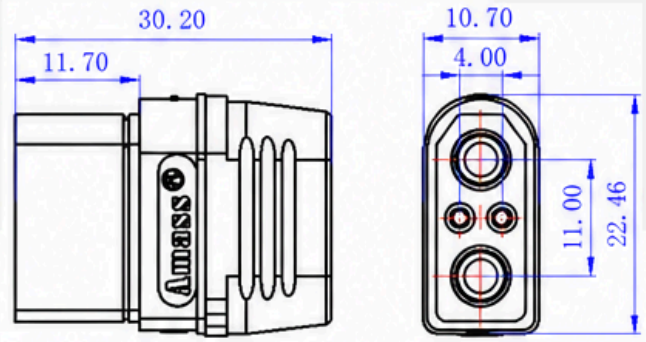
7. Configuration Options

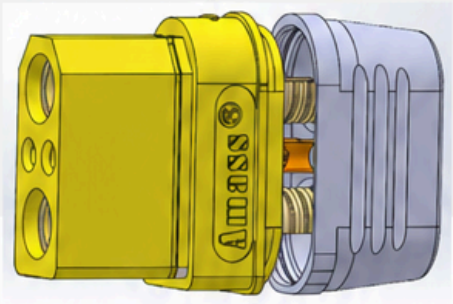
☑ With Dust Cover ☐ With Latch ☐ Waterproof ☐ Flame Retardant

8. Certification

☐ UL ☐ CE ☑ RoHS 2.0 ☐ Reach

9. Installation Recommendation





Assembly Reference

Important Notes:

During use, do not exceed the rated current and voltage.



- Overcurrent or overvoltage may lead to malfunction or accidents.
- If the connector becomes loose during operation, it may cause malfunction or accidents. Therefore, please ensure that the connector is unplugged in a de-energized state.

Do not use under external force applied to the connector



- Do not use while the connector and wiring are under external force. Excessive external force may cause damage or accidents.
- The connector is a component designed for electrical connections, so please use it only as part of electrical connections.

Use in appropriate environment



- Do not use in high-temperature or high-humidity environments.
- Do not use in environments outside the specifications. Doing so may cause malfunction or accidents.

Handle with care



- The connector is a precisely manufactured component. Handle with care during use.
- If you open the package, please handle with care, as such packaged products may be damaged by strong impact, causing deformation, bending, or detachment of terminals.

Prepared by: Checked by: Approved by: