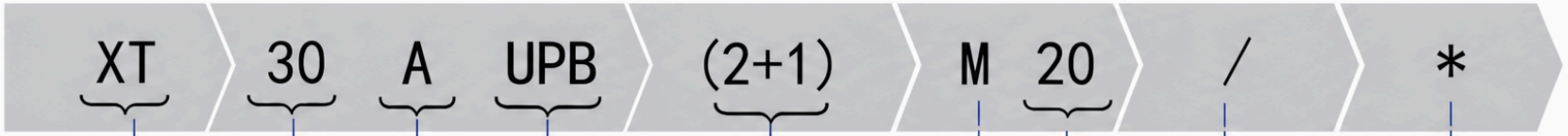
Model Description of Amass Products



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

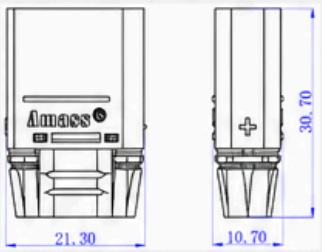
1. Product Description

XT90H-M.G.* 2PIN connector, a standard component for current 40A power lithium battery connections, featuring gold-plated contacts, dual options for mold shell and nickel-plated shell, and wire-to-board design, with fire-resistant design, etc.

2. Application

☐ Lithium Battery ☐ Motor ☑ Controller ☐ Charger ☐ Others

3. Product Illustration

Model	Product Image	Outline Drawing
XT90H-M. G. *		

4. Specifications

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

5. Performance

Electrical Performance	Test Method	Characteristic
Withstand Voltage	UL1977	DC 500V
Rated Current	UL1977	30A 12#
Contact Resistance	GB/T5095.2	0.40mΩ
Insulation Resistance	GB/T5095.2	2000MΩ
Instantaneous Current	&A 1min <80℃	60A 12#
Temperature Rise	UL1977	30A 4h <60℃ 12#
Creepage Distance	GB/T2900.18	1.20mm
Mechanical Performance	**Standard**	**Characteristic**
Insertion Force	GB/T5095.8	3.5kg~6.5kg
Withdrawal Force	GB/T5095.8	3.5kg~6.5kg
Connector Life	GB/T5095.1	100 times
IP Rating	GB/T4208	IP40
Environmental Performance	**Standard**	**Characteristic**
Operating Temperature	GB/T 2423.3	-20℃ to 120℃
Salt Spray	GB/T 2423.17	48h

6. Wire Recommendation

AWG	Temperature Rise 60℃	Temperature Rise 85℃
8#	55A	60A
10#	50A	55A
12#	45A	50A

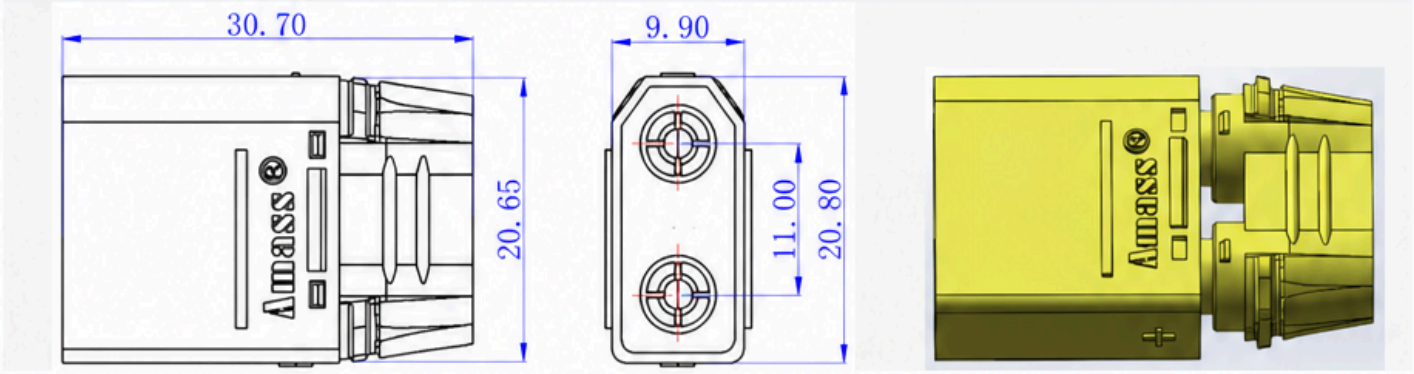
7. Configuration Options

☑ With Dust Cover ☐ With Buckle ☐ Waterproof ☐ Fireproof

8. Certifications

☑ UL ☑ CE ☑ RoHS 2.0 ☐ Reach

9. Installation Recommendation



Installation Diagram

IMPORTANT NOTES:

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



- Overcurrent and overvoltage can lead to faure, accidents, or fire.
- In the unmated state, if the connectors are plugged and unplugged while current is present, it may cause failure or fire. Therefore, please plug and unplug connectors in the de-energized state.

Do not use the connector under external force or load.



- Do not use the connector when it is under stress or load from wiring. External force can damage the connector, leading to failure or accidents. Therefore, please use it under such conditions.
- The connector is designed as a part of equipment wiring. Therefore, please use it as a part of a fixed structure of the equipment or enclosure.

Use in appropriate environment.



- Do not use in environments with high temperature, high humidity.
- Do not use in environments outside the specified ranges. It may cause failure or accidents. Therefore, please use in such conditions.

Handle with care.



- These connectors are precision parts, so please handle with care.
- Do not drop or subject these product to mechanical shock, such as impact or vibration, during unpacking or use. It may cause damage such as deformation, bending, or disconnection.

Prepared by: Reviewed by: Approved by: