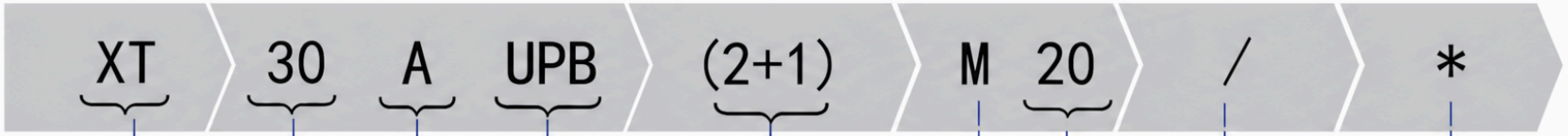
Model Description of Amass Products



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

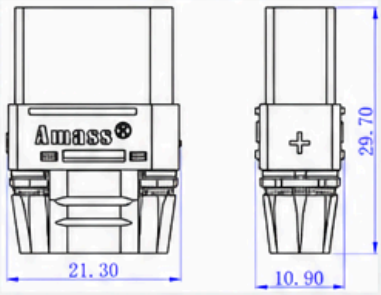
1. Product Description

Classic high-current injection-molded 2PIN connector, designed for standard 40A power lithium battery connectors, featuring gold-plated contact surfaces and two shell options, with a wire-to-board design and anti-fire structure.

2. Application Modules

☑ Lithium Battery ☐ Motor ☐ Controller ☐ Charger ☐ Others

3. Product Diagram

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

4. Specifications

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

5. Performance

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

6. Wire Recommendation

AWG	Temperature 60°C	Temperature 85°C
8#	55A	60A
10#	50A	55A
12#	45A	50A

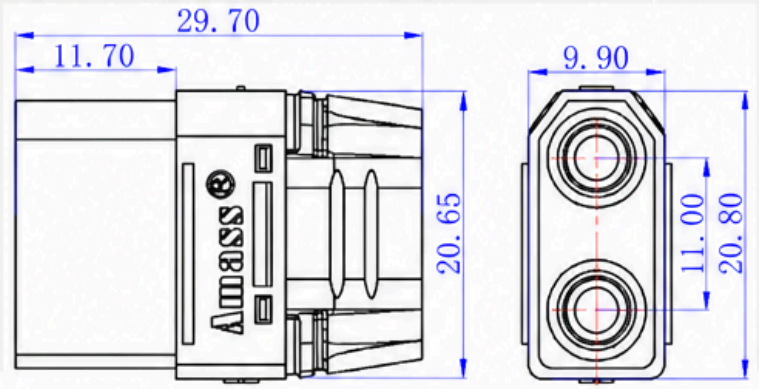
7. Configuration Description

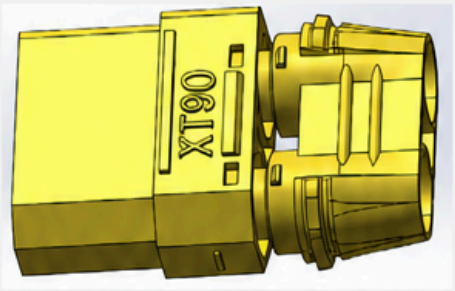
☑ With Rear Cover ☐ With Buckle ☐ Waterproof ☐ Flame Retardant

8. Certification

☑ UL ☑ CE ☑ RoHS 2.0 ☐ Reach

9. Installation Recommendation





Installation Drawing

Caution:

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



- Excessive current and voltage may cause failure or accidents.
- When the connector is energized, inserting or unplugging may cause failure or accidents, so please insert or unplug it when de-energized.

Do not use with external force applied to the connector



- Do not use the connector with force applied to the connector or wires. Excessive external force may cause failure or accidents, so please use it under such conditions.
- Since the connector is designed as an electrical connection component, please do not use it as a structural part of the outer casing of equipment.

Use in the appropriate environment



- Do not use in environments with high temperatures and high humidity.
- If used in environments other than those specified in the specifications, it may cause failure, so please use it under such conditions.

Handle with care



- The connector is a precision component, so please handle it with care.
- Be sure to handle with care when opening the package and when packaging this product, as it may be affected by strong impact, causing deformation, bending, or detachment.

Prepared by: Checked by: Approved by: