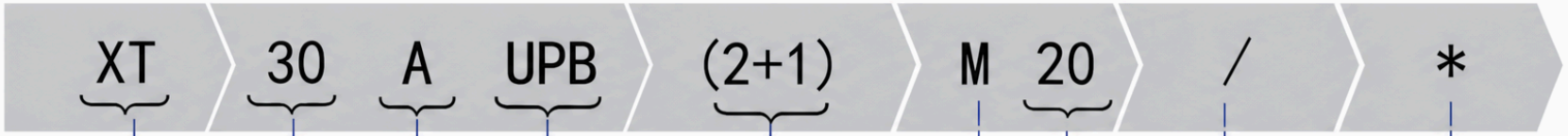
Model Description of Amass Products



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

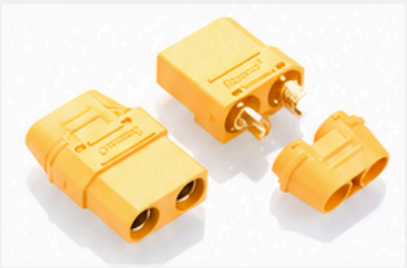
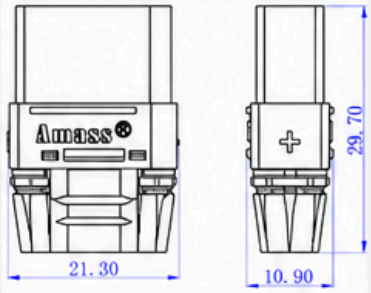
1. Product Description

Classic high-current injection-molded 2PIN connector, designed as a standard connector for 40A high-power lithium battery power supplies, featuring male and female metal housings in two options, with wire and panel mount designs, and flame-retardant design for fire prevention, etc.

2. Application Modules

☑ Lithium Battery ☐ Motor ☐ Controller ☐ Charger ☐ Other

3. Product Illustration

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

4. Specification

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

5. Characteristics

Electrical Performance	Test Method	Performance
Rated 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#
Dielectric Withstanding Voltage	GB/T2900.18	1.20mm
Mechanical Performance	**Standard**	**Performance**
Insertion Force	GB/T5095.8	3.5kg~6.5kg
Withdrawal Force	GB/T5095.8	3.5kg~6.5kg
Durability	GB/T5095.1	100 times
Protective Rating	GB/T4208	IP40
Environmental Performance	**Standard**	**Performance**
Operating Temperature	GB/T 2423.3	-20℃ to 120℃
Salt Spray	GB/T 2423.17	48h

6. Wire Recommendation

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

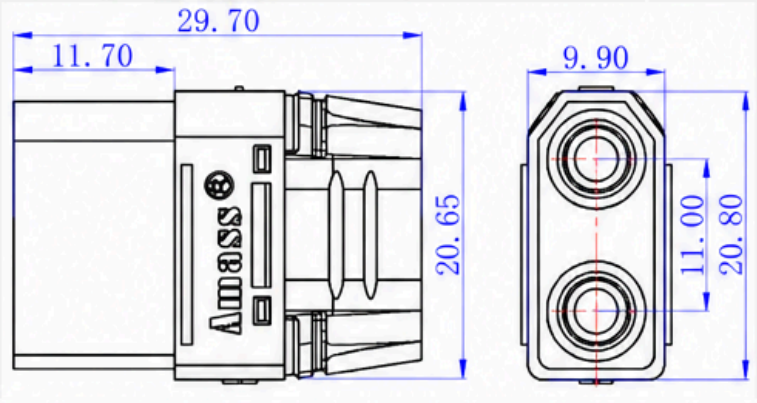
7. Configuration Description

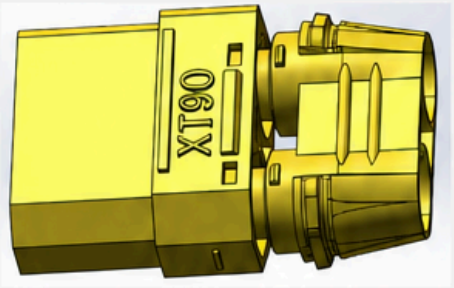
☑ With Rear Cover ☐ With Latch ☐ Waterproof ☐ Fireproof

8. Certification

☑ UL ☑ CE ☑ RoHS 2.0 ☐ Reach

9. Installation Recommendation





Installation Reference Drawing

Note:

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



- Overcurrent and overvoltage may cause shortis, failures, and accidents.
- If the connector is in the connected state, inserting or removing it may cause failures and accidents; therefore, please ensure that the connector is in the disconnected state before inserting or removing.

Do not apply external force to the connector during use



- Do not use the connector when it is under stress from external force or wiring tension. Excessive external force may cause failures and accidents; therefore, please use it only under such conditions.
- The connector is designed as an electrical connection component, so do not use it as part of the housing structure or load-bearing component of the device.

Use in an appropriate environment



- Do not use in environments with high temperature or high humidity.
- If used in environments outside the specified requirements, failures may occur; therefore, please use under such conditions.

Use with care



- The connector is a precision component; please handle it with care during use.
- Be careful when opening the packaging and handling the product. Even products with rear covers and packaging may be damaged by strong impact, resulting in deformation, bending, disconnection, and other phenomena.

Prepared by: Reviewed by: Approved by: