

CONNECT  AND I

GLOBAL SUPERIOR SUPPLIER

New Energy Contact
Pins & Connector & Cable Harness



“Quality is everyone’s responsibility.”
—by W. Edwards



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ABOUT AUPINS

Aupins Technology is dedicated to creating four major product lines including metal machining products, charging connectors, energy storage connectors and customize wiring harnesses in clean energy industry. The major products of AUPINS are electric vehicle high-current charging terminals, charging connectors, energy storage connectors, and customized wiring harness. All of these products can be widely used in clean energy power, electric vehicle charging, photovoltaic energy storage and other fields. We have delivered AUPINS products and high-quality solutions all around the world. Gold after-sale team serve product solution for global customers. Aupins Technology is committed to be a top supplier in the global clean energy field with continuous technological innovation and efforts.

AUPINS mission is to develop our network by providing the best quality products and services through community, that ultimately improve people standard of living. We respect our clients and treat them honestly.



AP Service tenet

"Quality is everyone's responsibility." by W. Edwards. Deming



AP Mission

Create the most value for customers.



AP Core value

Working for the future



AP Slogan

Connect U and I



AP Goal

To be the top supplier of connector solution in clean energy industry.

IEC SAE GB/T Pins

Introduction

Due to high demand of high-performance connectors in the electric vehicle industry, AP customizes terminals with high ampacity, high reliability, and long life. The products performance meets the requirements of international standards, including IEC, GB/T, and SAE standards.

Application: electric vehicle, Energy storage
Mechanical life: ≥10000 times



Feature

- Flexible custom design to realizes high current and special structure
- High ampacity, low temperature rise
- Anti-shock and durability design
- Soft mating force
- Safe installation and connecting

Material

- Material: Brass, Copper
- Contact Material: Beryllium bronze
 Plating Material: Gold, silver

💡 Tips: Customized according to customer requirements

AC IEC/AC GB/T terminal			AC SAE terminal		
Item	Dimension(∅)	Rated current and function	Item	Dimension(∅)	Rated current and function
LN terminal	6mm	200A/32A/16A	LN terminal	3.6mm	32A/16A
PE terminal	6mm	63A/32A/16A	PE terminal	2.8mm	earthing
CC terminal	3mm	signal	CC terminal	1.5mm	signal
DC SAE terminal			DC GB/T terminal		
Item	Dimension(∅)	Rated current and function	Item	Dimension(∅)	Rated current and function
LN terminal	8mm	200A	LN terminal	12mm	250A/200A/125A/80A
LN terminal	3.6mm	32A/16A	PE terminal	6mm	earthing
PE terminal	2.8mm	earthing	CC1 terminal	3mm	signal
CC terminal	1.5mm	signal	CC2 terminal	3mm	signal
DC IEC terminal			1.The data in the table above are able to be customized for our customers. 2. Different materials are corresponding to different current value. 3.AP is able to provide customized solutions according to customer requirements		
Item	Dimension(∅)	Rated current and function			
LN terminal	8mm	200A/150A/125A			
PE terminal	6mm	earthing			
CC terminal	3mm	signal			

Lamella Contact Pins

Introduction

The contact system of lamella pins enables a reliable connection up to 120°C. The lamella contact pins are designed and made in a horn-like shape. AP team applies cutting and stamping process while making copper alloy bar into lamella structure. Its parallel structure ensure a stable low contact resistance for reliable current transmission.

Application: electric vehicle, Energy storage
Mechanical life: ≥ 10000 times



Feature

- High current
- Compact structure
- Soft mating force
- Low contact resistance
- High reliability

Material

- Material: Brass, Copper
- Contact Material: Beryllium bronze
- Plating Material: Gold, silver

💡 Tips: Customized according to customer requirements

Product code	Dimension (∅)	Rated current	Contact resistance	Pulling force	Temperature rise	Maximum temperature	Maximum time
AP-IECAC-FLN-L4-32	6mm	32A	≤0.5mΩ	≤ (10-15N)	<50k	120°C	8h
AP-IECAC-FLN-L4-16	6mm	16A					
AP-SAEAC-FPE-L4-32	2.8mm	32A					
AP-SAEAC-FPE-L4-16	2.8mm	16A					
AP-SAEAC-FLN-L40-32	3.6mm	32A					

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Crown Spring Pins

Introduction

The high-performance contact system of crown spring pins is able to maintain the reliability of the electrical contact in the intense vibration environment. The manufacturing process is simple, and each plate in the elastic ring is independent. The crown spring design has low contact resistance and mild pulling force.

Application: electric vehicle, Energy storage
Mechanical life: ≥ 10000 times



Feature

- high mechanical durability
- Stable mating force and low contact resistance
- High reliability and vibration resistance

Material

- Material: Brass, Copper
- Contact Material: Beryllium bronze
- Plating Material: Gold, silver

💡 Tips: Customized according to customer requirements

Product code	Dimension (∅)	Rated current	Contact resistance	Pulling force
AP-CS-30	3mm	30A	≤0.20mΩ	≤ (3-9N)
AP-CS-60	6mm	60A	≤0.15mΩ	≤ (7-21N)
AP-CS-150	8mm	150A	≤0.10mΩ	≤ (10-30N)
AP-CS-200	10mm	200A	≤0.80mΩ	≤ (15-45N)
AP-CS-250	12mm	250A	≤0.80mΩ	≤ (15-45N)

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Hyperboloid Contacts

Introduction

The hyperboloid banding spring terminal is the patented product specially developed and researched by AP team to match the high current connector of the electric vehicle. It is processed according to the principle of hyperboloid, which is the technology closest to the theoretical hyperboloid. And the product structure is able to meet the market demands of multi-variety and small batches.

Application: electric vehicle, Energy storage

Mechanical life: ≥ 10000 times



Feature

- Standard hyperboloid contact,
- Soft mating forces
- Low contact resistance, high ampacity, low temperature rise
- Safe installation and connecting
- High mechanical durability

Material

- Material: Brass, Copper
- Contact Material: Beryllium bronze
- Plating Material: Gold, silver

💡 Tips: Customized according to customer requirements

Product code	Dimension (∅)	Rated current	Contact resistance	Pulling force	Temperature rise	Maximum temperature	Maximum time
AP-GBDC-FLN-H3-80	12mm	80A	≤0.5mΩ	≤(25-35N)	<50k	120°C	8h
AP-GBDC-FLN-H3-125	12mm	125A					
AP-GBDC-FLN-H3-200	12mm	200A					
AP-GBDC-FLN-H3-250	12mm	250A					
AP-GBAC-FLN-HI-63	6mm	63A	≤(10-18N)				
AP-IECAC-FLN-HI-32	6mm	32A					
AP-IECAC-FLN-HI-16	6mm	16A					
AP-HBS-14	14mm	300A	≤0.10mΩ	≤35N			
AP-HBS-16	16mm	400A	≤0.10mΩ	≤40N			
AP-HBS-18	18mm	500A	≤0.08mΩ	≤50N			
AP-HBS-24	24mm	1000A	≤0.05mΩ	≤50N			

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Energy Storage Connector

Introduction

AP energy storage connector is Fast, safe and cost-effective solution for energy storage module systems in the way of using pluggable battery connectors such as Busbar Connectors or Electrode Connectors.



Feature

- bayonet connection,easy split
- Meet RoHS environmental requirements

- Excellent IP67 protection
- Dedicated port for energy storage battery

Technical performances

01 Mechanical properties

Plastic shell Material	thermoplastic
Sealing body and ring Material	Silicone rubber
Contact parts Material	Copper
Plating technique	Silver Coating
Mechanical life	≥100 times

02 Electrical performance

Rated current	120A, 200A
Contact resistance	≤0.15 mΩ, ≤0.1 mΩ
Insulation resistance	≥5000MΩ
Operating voltage	1000V AC/DC

03 Environmental performance

Operating temperature	-40°C~+125°C
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Specification

Model	Size d	Size D	Cable
AP-HVCN8.0-PY35-BO	12mm	8.2mm	35mm ²
AP-HVCN8.0-PY50-BO	14mm	10.2mm	50mm ²
AP-HVCN5.7-PY16-BO	9mm	6mm	16mm ²
AP-HVCN5.7-PY25-BO	10mm	7mm	25mm ²

EV AC CHARGING PLUG

Introduction

There are three major types of AC charging plug, type1, type2 and GB/T. AP AC charging plug conforms to global standards, the shell is made of riveted process, handheld design using ergonomic principle with excellent protection performance. The design adopts classic black and custom rubber as the basic color system and the plug is able to reach IP55 in working condition.



Feature

- Comply with GB/T 20234.2, IEC 62196-2 and SAE J1772 standards and requirements.
- High-efficiency performance and reliable compatibility.
- With the feature of flame retardant and wear resistance
- high temperature resistance and anti-corrosion

Technical performances

01 Electrical Performance

Insulation resistance	>2000MQ(DC1000V)
Pins temperature rise	< 50K
Withstand voltage	4500V(DC+/DC-/PE)
Contact impedance	0.5mQMax
Mechanical life	> 10000times

02 Environmental performance

Operating temperature	-30°C~+50°C
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Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AP-GBTAC-16P-1P	16A/250V	3*2.5mm ² +2*0.75mm ²
AP-GBTAC-32P-1P	32A/250V	3*6mm ² +2*0.75mm ²
AP-GBTAC-16P-3P	16A/440V	5*2.5mm ² +2*0.75mm ²
AP-GBTAC-32P-3P	32A/440	5*6mm ² +4*0.75mm ² (P2)
AP-GBTAC-63P-3P	63A/440V	5*16mm ² +4*0.75mm ² (P2)
AP-IECAC-16P-1P	16A/250V	H07BZ5-F3*2.5mm ² +2*0.5mm ²
AP-IECAC-32P-1P	32A/250V	H07BZ5-F3*6mm ² +2*0.5mm ²
AP-IECAC-16P-3P	16A/480V	H07BZ5-F5*2.5mm ² +2*0.5mm ²
AP-IECAC-32P-3P	32A/480V	H07BZ5-F5*6mm ² +2*0.5mm ²
AP-SAEAC-16P-1P	16A/250V	H07BZ5-F3*2.5mm ² +2*0.5mm ²
AP-SAEAC-32P-1P	32A/250V	H07BZ5-F3*6mm ² +2*0.5mm ²

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EV DC CHARGING PLUG

Introduction

AP DC charging plug is classified into three categories of European and American national standards, which meet the standards of most regions around the world. The charging plug adopts the third generation design, Costs is able to be effectively controlled without sacrificing product quality. In terms of safety, the applying of locking devices provides a signal feedback function; and the use of more than one thermistor and safety insulation design at the top of the pin protects human body from hazard.



Technical performances

01 Electrical Performance

Insulation resistance	>2000MQ(DC1000V)
Pins temperature rise	< 50K
Withstand voltage	4500V(DC+/DC-/PE)
Contact impedance	0.5mQMax
Mechanical life	> 10000times

02 Applied Materials

Shell Material	thermoplastics, flame retardant grade UL 94-V0
Pin	Copper alloy, silver + top of the thermoplastic

03 Environmental performance

Operating temperature	-30°C~+50°C
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Product Specification and Cable Standard

Product Type	Rated Current	Cable Specifications
AP-GBTDC-80P	80A	2*20mm ² +1*25mm ² +2*4mm ² +2*(2*0.75mm ²)(P2)+8*0.75mm ²
AP-GBTDC-125P	125A	2*35mm ² +1*25mm ² +2*4mm ² +2*(2*0.75mm ²)(P2)+8*0.75mm ²
AP-GBTDC-200P	200A	2*70mm ² +1*25mm ² +2*4mm ² +2*(2*0.75mm ²)(P2)+8*0.75mm ²
AP-GBTDC-250P	250A	2*80mm ² +1*25mm ² +2*4mm ² +2*(2*0.75mm ²)(P2)+8*0.75mm ²
AP-GBTDC-32P	32A	3*6mm ² +2*4mm ² +4*0.75mm ² (P2)+6*0.75mm ²
AP-GBTDC-40P	40A	3*10mm ² +2*4mm ² +4*0.75mm ² (P2)+6*0.75mm ²
AP-IECDC-80P	80A	2*16mm ² +1*25mm ² + (6*0.75mm ²)(P2)
AP-IECDC-125P	125A	2*35mm ² +1*25mm ² + (6*0.75mm ²)(P2)
AP-IECDC-150P	150A	2*50mm ² +1*25mm ² + (6*0.75mm ²)(P2)
AP-IECDC-200P	200A	2*70mm ² +1*25mm ² + (6*0.75mm ²)(P2)
AP-SAE DC-150P	150A	2*50mm ² +1*6mm ² +6*0.75mm ²
AP-SAE DC-200P	200A	2*2/0AWG+1*6AWG+6*20AWG

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E-bike Cable Harness

Introduction

E-bikes are now a popular commuter option, and the safety demand of users with charging connectors is increasing. The design of AP charging cable is featured with soft pulling force, and conveniently small. It is compatible with most electric bicycle brands. Whether you are in a hotel, mountain ranch, bar or tourist area, you are able to take the AP electric bike charging cable for everyday use.



Feature

- Fast charging speed and long life
- Safe and reliable, compatibility
- Lightweight and user friendly
- high mechanical durability

Performance Specification

- Voltage:24~48V DC Max
- Current:5A Max
- Mechanical life:≥10000 times
- Protection grade:IP67
- Operating temperature:-40℃ - +85℃

Cable harness connector

Introduction

Cable harness connectors are innovative products derived from the combination of metal terminals and cables. Harness connectors are used in a wide range of applications from clean energy vehicles, energy storage products to industrial robots. AP's unique quality control system is able to greatly improve the quality and stability of the products; at the same time, AP's excellent R&D team has been cultivated throughout the years to maintain the industry's leading-edge research and development level and strong competitiveness.



Customized experience

AUPINS has decades of experience in processing and manufacturing, and has accumulated a wealth of custom cases for harness connectors. We received customized requirement from customer globally. Some of the shell and insulation parts are made of flame retardant engineering plastics, and the jack parts are made of copper alloy with gold coating on the surface. The material can be customized by special requirements.

AP owns R & D team with many years of customization experience, and customizes the unique specifications and materials according to customer needs and usage scenarios.

After-sale Service

With the purpose of customer satisfaction, AUPINS built an after-sales team with technical strength and high service concept, which quickly responds to customer requests within 8 hours and solves customer problems within 24 hours. We are Customer-centered to provide customers the best cooperative experience.

Certification System



AP is certified by the ISO9000 quality management system. AP team customer focus approach is to meet the changing requirements of our customers and legislation. Strict internal management is required to provide operational efficiency and service quality.



AP products are able to pass UL security certification test, and UL certification is the most authoritative system in the United States, it uses scientific and rigorous methods to test materials against hazards to life and property.



AP products have passed the CCC certification test, which guarantees the personal safety of consumers. AP also holds CE and RoHS products certifications with high standards in environmental protection and safety in the industrial field.



AP products own the TÜV certification, which is widely recognized in Europe area. The products certified by TÜV are compliant with the relevant IEC standards and allowed to sell the relevant products in the European area.