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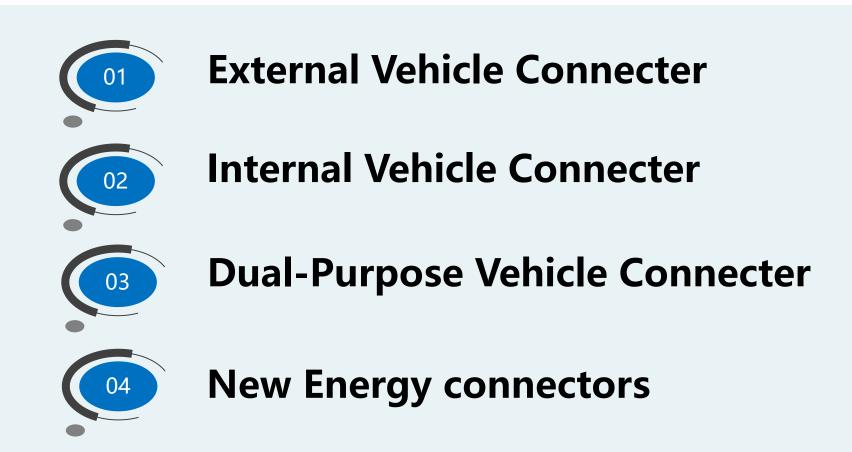




YGC - ROLLING STOCK AND INDUSTRY CONNECTOR HANDBOOK



Content





External Vehicle Connector

External Vehicle Connector Series



- E-Coupler Series
- External Power Supply Connector
- EMY Motor Connector Series
- GTC Series Electrical Connector
- Push-pull Series Electrical Conncetor
- CIR Series Electrical Connector
- Vehicle Heavy Loading Series Electrical Connector



External Vehicle Connector--E-Coupler Series



Product Series

City Railway: 32 pin, 40pin, 50 pin, 70 pin

EMU series : 75 pin, 98 pin, 140 pin, 196 pin

Applications

Applied to the re-connection between trains, which achieves:

- 1) Control signal transmission between trains;
- 2) Support 100M, 1000M and 10G Ethernet signal transmission;
- 3) Power transmission up to 350A.



External Vehicle Connector-External Power Supply Connector



Product Series

Direct Current : 350A, 400A, 450A, 530A

Alternating Current: 350A, 400A, 450A

Applications

Applied to the external power supply access during the repair and maintenance of rolling stock. It is suitable for the power supply system up to 1500VDC and 500VAC. According to customized requirements, cover protection, conduction confirmation or interlock protection is available as extra feature.



External Vehicle Connector-EMY Motor Connector Series



Product Series

Circular Series: 200A, 240A, 300A

Rectangular Series: 200A, 240A, 300A

Applications

The circular product employs a quick bayonet connection with a secondary locking mechanism, while the rectangular version utilizes a threaded connection. It is primarily used in the motors of various equipment, with a high current overload capacity and voltage resistance. The structure is reliable, and it offers excellent protective performance.



External Vehicle Connector--gtc series



Product Series

5 pin – 85 pin GTCM Control Series

5 pin – 19 pin GTCF Fiber Series

100M, 1000M, 10G single/multiple pin GTCN network

Single/multiple pin GTCH HV Series

Applications

The product features a quick bayonet connection equipped with a secondary locking mechanism, ensuring high reliability and meeting the stringent requirements for use in harsh external vehicular environments.



External Vehicle Connector—Push-pull Series Electrical Connector



Product Series

TYL - Control Series, 2/3/4/5/7 pin

TYH - HV Series, 150A, 300A, 450A, 600A

Applications

Utilizing a push-pull quick-locking mechanism, it is suitable for connection and separation in confined spaces, with the high-voltage series capable of withstanding a maximum working voltage of up to 1500V.



External Vehicle Connector-cir Series Electrical Connector



Product Series

5 pin, 10 pin, 17 pin, 26 pin

Applications

The product lineup complies with the specifications of MIL-5015, featuring a quick bayonet connection and an insulator made of rubber material, which ensures high reliability. It is particularly suitable for the connection and transmission of control signals that require potting.



External Vehicle Connector--Vehicle Heavy Loading Series



Product Series

18 pin, 24 pin, 27 pin, 35 pin, 37 pin

Applications

The product is designed for external heavy coupling connections between rail vehicles, enabling the transmission of control signals and network signals.



Internal Vehicle Connector

Internal Vehicle Connector Series



- DSC Series Electrical Connector
- DSL Series Electrical Connector
- CD4 Series Electrical Connector
- QX Series Electrical Connector
- D-SUB Series Electrical Connector
- DBK Board Connector
- DSN Series Electrical Connector
- QLE Series Electrical Connector



Internal Vehicle Connector-psc series Electrical Connector



Product Series

Power Type – 15 pin, 19 pin Signal Type – 32 pin, 48 pin, 96 pin

Applications



Internal Vehicle Connector-DSL Series Electrical Connector



Product Series

V Series – VA, VB, VC, VE

B Series

Applications



Internal Vehicle Connector-cp4 Series Electrical Connector



Product Series

A Series – 27 pin, 8+26 pin, 44 pin, 50 pin

B Series – 30 pin, 44 pin

Applications



Internal Vehicle Connector-- Qx Series Electrical Connector



Product Series

32 pin, 52 pin

Applications



Internal Vehicle Connector-D-sub Series Electrical Connector



Product Series

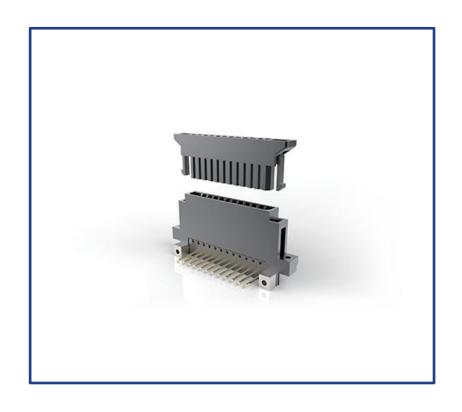
Signal Series – 9 pin, 15 pin, 25 pin, 37 pin, 50 pin, etc Power Series – 2W2, 3W3, 5W5

Applications

It features a variety of models and contact components, capable of meeting the connection and transmission needs for networks, signals, and power. It is applied in onboard signal equipment cabinets, PIS systems, and more.



Internal Vehicle Connector-DBK Board Connector



Product Series

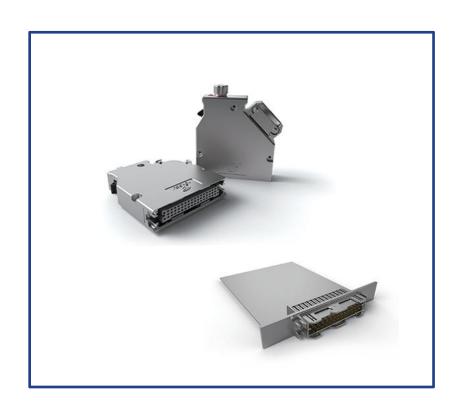
4 pin, 8 pin, 12 pin

Applications

Suitable for power connections between wires and boards within cabinets, with the current not exceeding 10A.



Internal Vehicle Connector-DSN Series Electrical Connector



Product Series

41 pin, 52 pin

Applications



Internal Vehicle Connector-QLE Series Electrical Connector



Product Series

4 pin, 5 pin, 8 pin, 8X pin

Applications

Featuring a quick push-pull locking mechanism, the product range complies with the IEC 61076-2-101 standard. It is suitable for in-vehicle control and network connections and transmission, capable of supporting 100M, 1000M and 10G Ethernet applications.



Dual-Purpose Vehicle Connector

Dual-Purpose Vehicle Connector Series



- Vehicle Heavy-Duty Series Electrical Connector
- QAL Series Electrical Connector
- QS Series Electrical Connector
- QB Series Electrical Connector
- M23 Series Electrical Connector
- M40 Series Electrical Connector
- Fluid Connector
- M12 Series Electrical Connector



Dual-Purpose Vehicle Connector--HDC Series



Product Series

HDC-HQ, HDC-HE, HDC-HM, etc, ranging from 2 pin to 216 pin.

Applications

The Heavy-Duty series connectors(HDC) are widely utilized in fields such as rail transportation, wind power generation, and industrial control. This series has robust modular capabilities, allowing for the integration of various functional components such as power, control, communication, fiber optics, gas, and fluid into a single unit as required.



Dual-Purpose Vehicle Connector--QAL Series



Product Series

3 pin, 6 pin, 7 pin, 10 pin, 12 pin, 14 pin, 19 pin, 37 pin, 60 pin, 85 pin

Applications

The product range complies with the MIL-5015 standard, featuring a quick bayonet connection, and is suitable for the connection and transmission of control signals throughout the vehicle.



Dual-Purpose Vehicle Connector--qs series



Product Series

2 pin, 3 pin, 5 pin, 7 pin, 10 pin, 12 pin, 19 pin, etc

Applications

Featuring internal bayonet quick-lock mechanism. Suitable for the connection and transmission of low-current control signals.



Dual-Purpose Vehicle Connector--QB Series



Product Series

Ф1 Series – 3 pin, 7 pin, 9 pin, 19 pin

Ф1.6 Series – 3 pin, 5 pin, 7 pin, 9 pin

Ф2.4 Series – 2 pin, 4 pin

Applications

Featuring the bayonet quick-lock mechanism, with a five-key foolproof design. Suitable for the connection and transmission of power and control signals with currents less than 20A.



Dual-Purpose Vehicle Connector--M23 Series



Product Series

M23 Signal – 12 pin, 17 pin M23 High Load – 4+3 pin

Applications

The products are mainly used in wind turbine pitch motor encoders, industrial robot signal communication, and wind turbine pitch motor power systems, etc. It features a compact size and simple operation.



Dual-Purpose Vehicle Connector--M40 Series



Product Series

4+3 pin

Applications

The products are primarily utilized in the field of wind power generation, serving as power connectors for wind turbine pitch motors. They are available in various configurations, including threaded connections and quick-lock mechanisms.



Dual-Purpose Vehicle Connector--M12 Series



Product Series

4 pin, 5 pin, 8 pin, 8X pin

Applications

Utilizing an M12 threaded locking connection, the product range complies with the IEC 61076-2-101 standard. It is suitable for invehicle control and network connections and transmission, capable of supporting 100M, 1000M and 10G Ethernet applications.



Dual-Purpose Vehicle Connector-Fluid Connector



Product Series

LTF/LTFP Series Blind-mate Connector
LTA/LTAX Series Bayonet Connector
LTC Series Push-pull Connector

Applications

To establish or disengage fluid communication. Enable the rapid connection and disconnection of fluid transmission channels (such as between pipelines, between boards, or between pipelines and equipment) without the need for tools, thereby offering dual sealing capabilities.



New Energy Products



- New Energy Connector
- Charging Product
- Energy Storage Connector



New Engergy Connectors — Connector Application Sketch











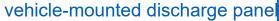






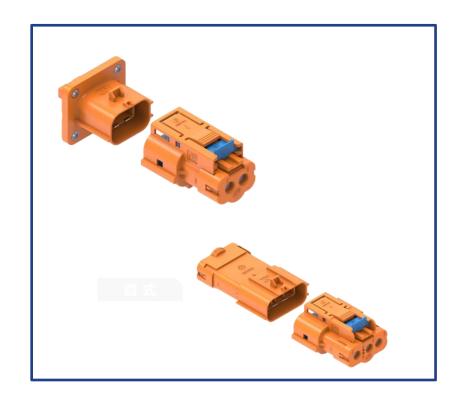








Typical New Energy Connector--ygev2 Series



Rated Current

Rated Voltage

Ambient Temperature

Protection Level

Circuits Number

Feature

Application

16-20A

V008

-40-125℃

IP67&IP6K9K、IPXXB

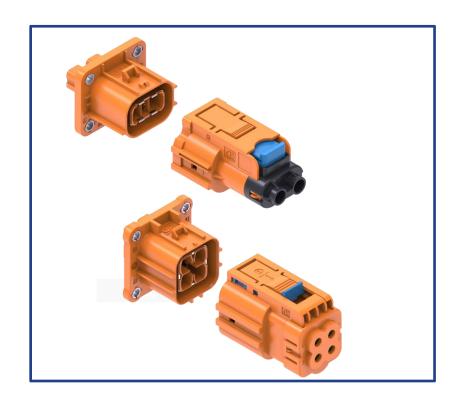
2 - 3

360° Individual Shielding
Stamping Contacts
2.5mm2、4mm2、6mm2

AC compressor、 PTC、
Charging Equipment、 DCDC、
HV Box/Cabinent



Typical New Energy Connector--ygev4 Series



Rated Current

Rated Voltage

Ambient Temperature

Protection Level

Circuits Number

Feature

Application

16-40A

V008

-40-125℃

IP67&IP6K9K、IPXXB

2 - 4

360° Individual Shielding
Stamping Contacts
35mm2, 50mm2

AC compressor、 PTC、
Charging Equipment、 DCDC、
HV Box/Cabinent



Typical New Energy Connector--ygevs series



Rated Current

Rated Voltage

Ambient Temperature

Protection Level

Circuits Number

Feature

Application

200-300A

1000V

-40-140℃

IP67&IP6K9K、IPXXB

2

360° Individual Shielding
Stamping Contacts
50mm2, 70mm2

MCU, Battery pack, high-voltage box, etc



Typical New Energy Connector--ygev6 Series



Rated Current

Rated Voltage

Ambient Temperature

Protection Level

Circuits Number

Feature

Application

300-400A

1000V DC

-40-140°C

IP67&IP6K9K、IPXXB

2

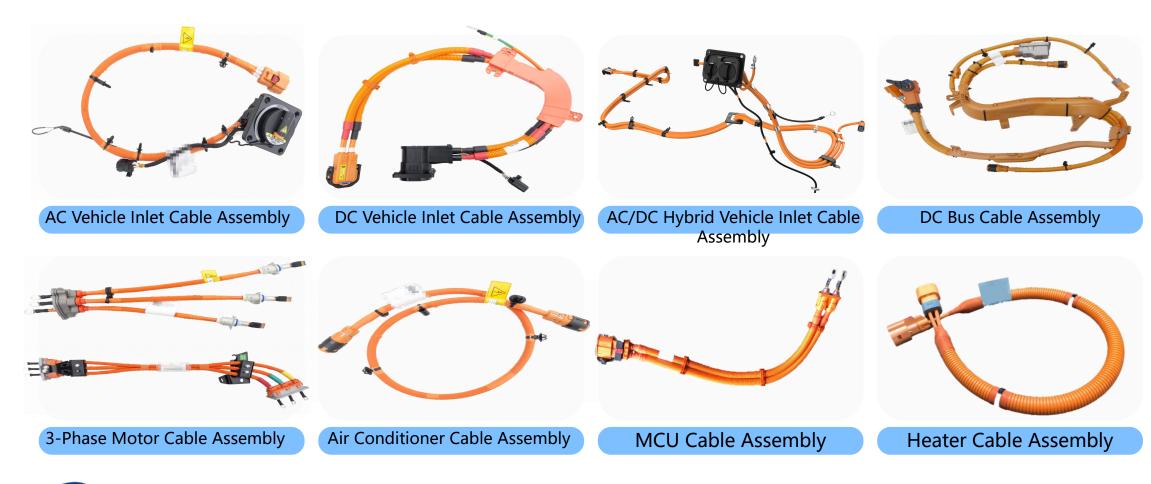
360° Individual Shielding
Stamping Contacts
70mm2、95mm2

MCU, Battery pack, high-voltage box, etc



Typical New Energy Connector-customized Connector Cable Assembly

◆Customized Cable Assembly:





Charging Products – Application Sketch



Charging Product--Mcs Charging System



Rated Current

Rated Voltage

Ambient Temperature

Protection Level

Life Cycles

Feature

Application

1000-1500A DC

1000-1500V DC

-30-50°C

IP44, IP54、IP67

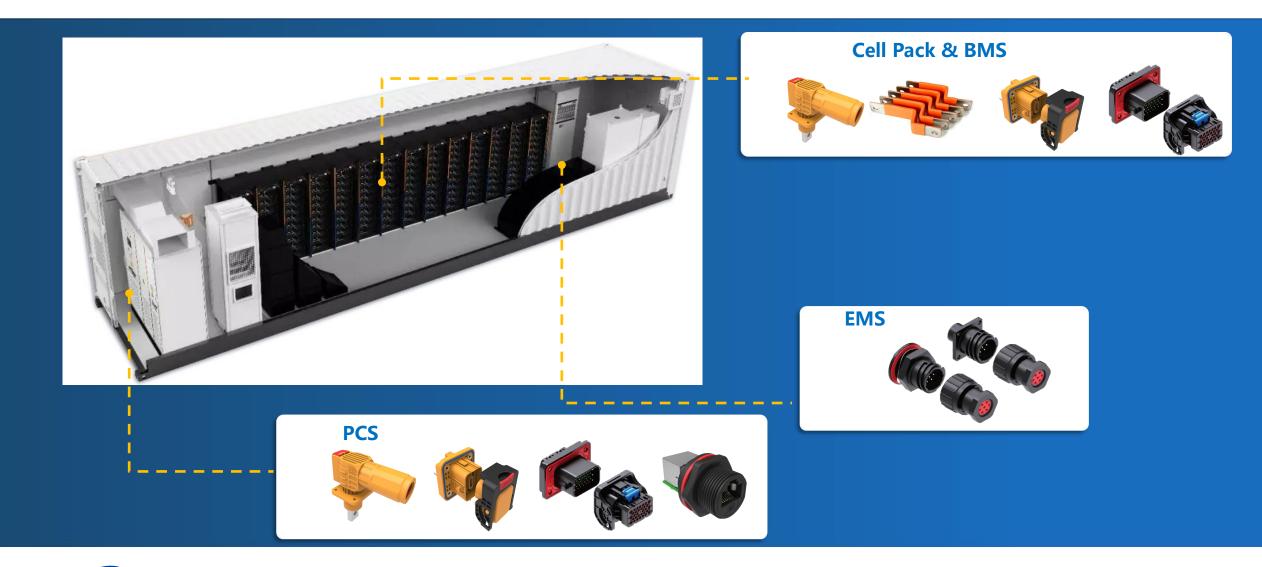
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Mode 4, Connection Type C UL94-V0, Liquid Cooling

Track, Vessel, Mining Machinery, Railway etc.



Energy Storage Connectors -- Application Sketch





Typical Energy Storage Connector--ESS HP



Rated Current

Rated Voltage

Dielectric Strength

Protection Level

Temperature Rising

Feature

Application

80-400A

AC 1500V

6800V AC

IP67 & IP54

30 K

360° Mating / Rapid Unmating / Low Cost

Power transmission of energy storage battery module



Typical Energy Storage Connector--ESC-TB



Rated Current

Rated Voltage

Dielectric Strength

Protection Level

Temperature Rising

Feature

Application

200-350A

AC 800 *1500V

AC 3000--6800V AC

IP20

45 K

Thread Locking, Rapld to connctt to wire

Power transmission of energy storage battery module



YONGGUI

CONNECTION TO FUTURE