

**DEGSON** Terminal Block



**DEGSON ELECTRICAL CO., LTD.**  
ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON** Circular Connectors



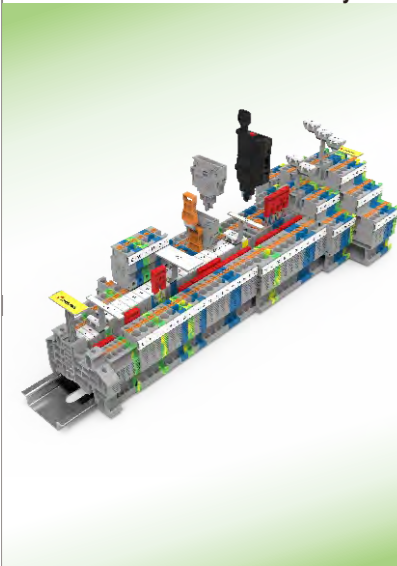
**DEGSON ELECTRICAL CO., LTD.**  
ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON** Heavy Duty Connector



**DEGSON ELECTRICAL CO., LTD.**  
ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON** DIN Rail Terminal Blocks And Accessories System



**DEGSON ELECTRICAL CO., LTD.**  
ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON** EV Charging Cable

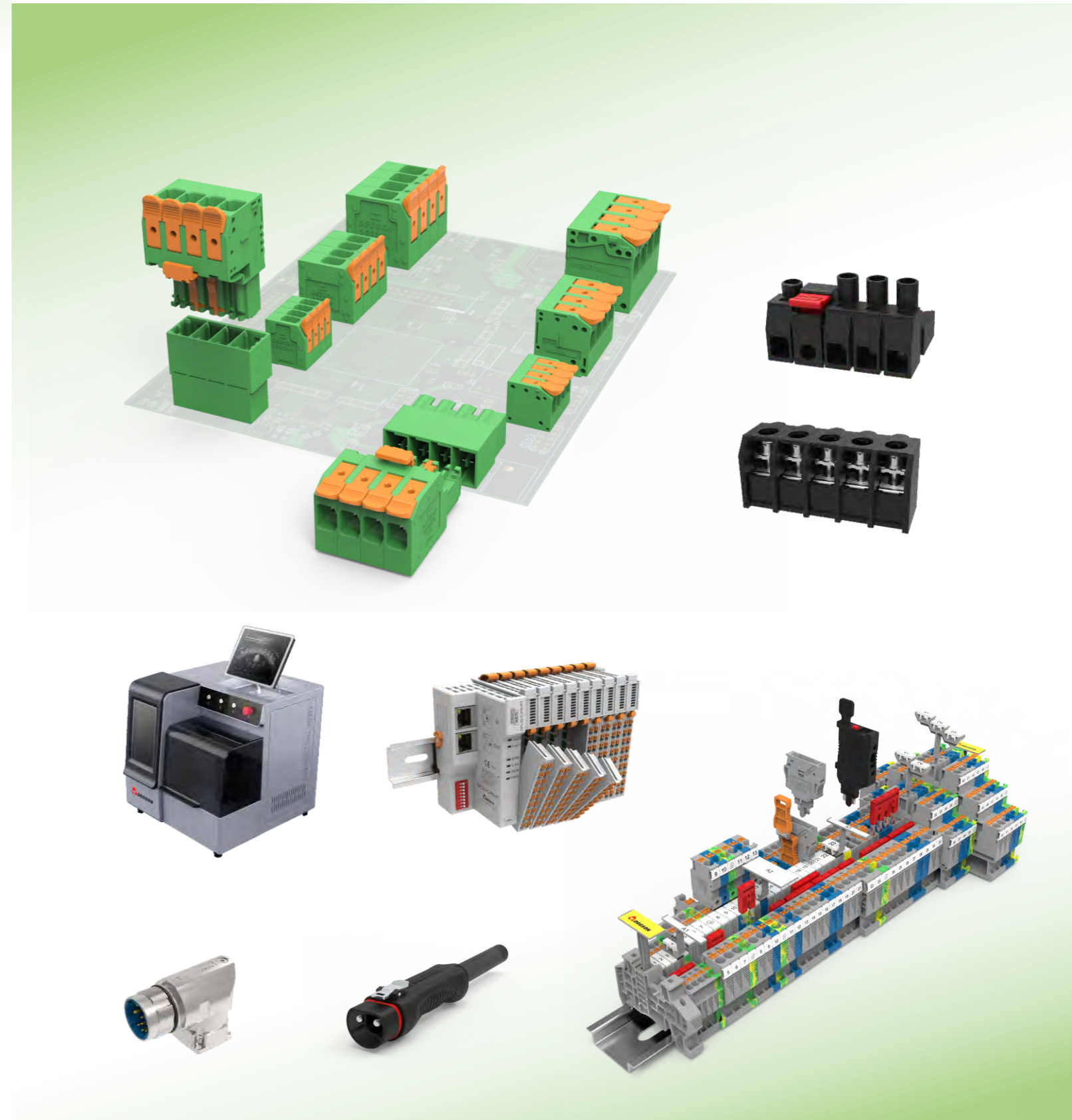


**DEGSON TECHNOLOGY CO.,LTD.**  
IATF16949

**DEGSON** Customized Product



**DEGSON ELECTRICAL CO., LTD.**  
ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949



**DEGSON**  
DEGSON TECHNOLOGY CO.,LTD.

Add: No.1585.Xiaolin Road.Cixi.Ningbo China  
P.C.: 315321  
www.degson.com

Tel: +86-574-63510770  
E-mail: sale@degson.com



DEGSON website

HL-23-E01

The catalog is only for reference, and the detail data must be based on our company's specification!

Degson Headquarter/ R&D Center/ Global production sites



Products have been exported to more than 100 countries and areas in the globe.



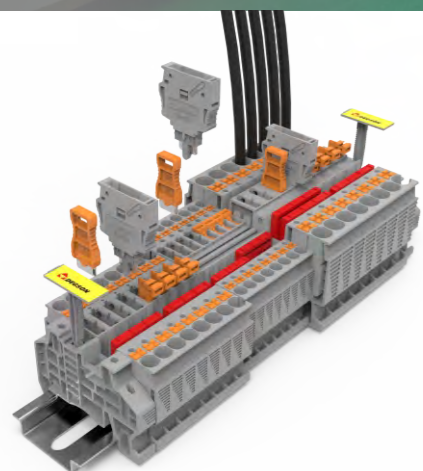
# CONTENTS

DS Series	01
2000V High Voltage Terminal Blocks	03
BS Series Bolt Connection	05
Laser Printer	07
Heavy Duty DM Series	09
DRPS Series Ultra-Thin Relay	11
DSPT Series Surge Protectors	13
DFY67 High Protection I/O Module	15
DF50 Economical I/O Module	17
M23 Series Circular Connectors	19
M8, M12 Series Data Connectors	21
M12 Series Plastic Shell Connectors	23
High Protection Energy Storage Connectors	25
PUSH-SNAP Technology	27
Dual-Lever-Spring Series	29
SNAP-LOCK Series	31
SELF-UP Series	33
Transfer Series	35
Micro-Mobility Connector	37
Type2 DC EV Charger(EU)	39



### Typical Application Industries

- Wind power industry - Pitch control system
- Elevator industry - Electric control system
- Electrical industry - Terminal distribution cabinet
- Rail transit industry - Access control system



## DS Series Push-in Connection Terminal Blocks

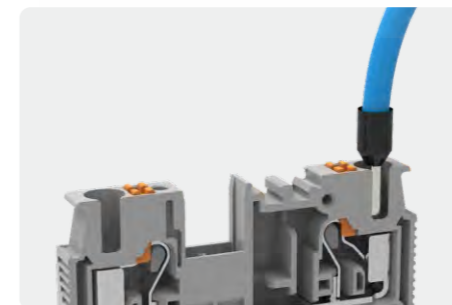
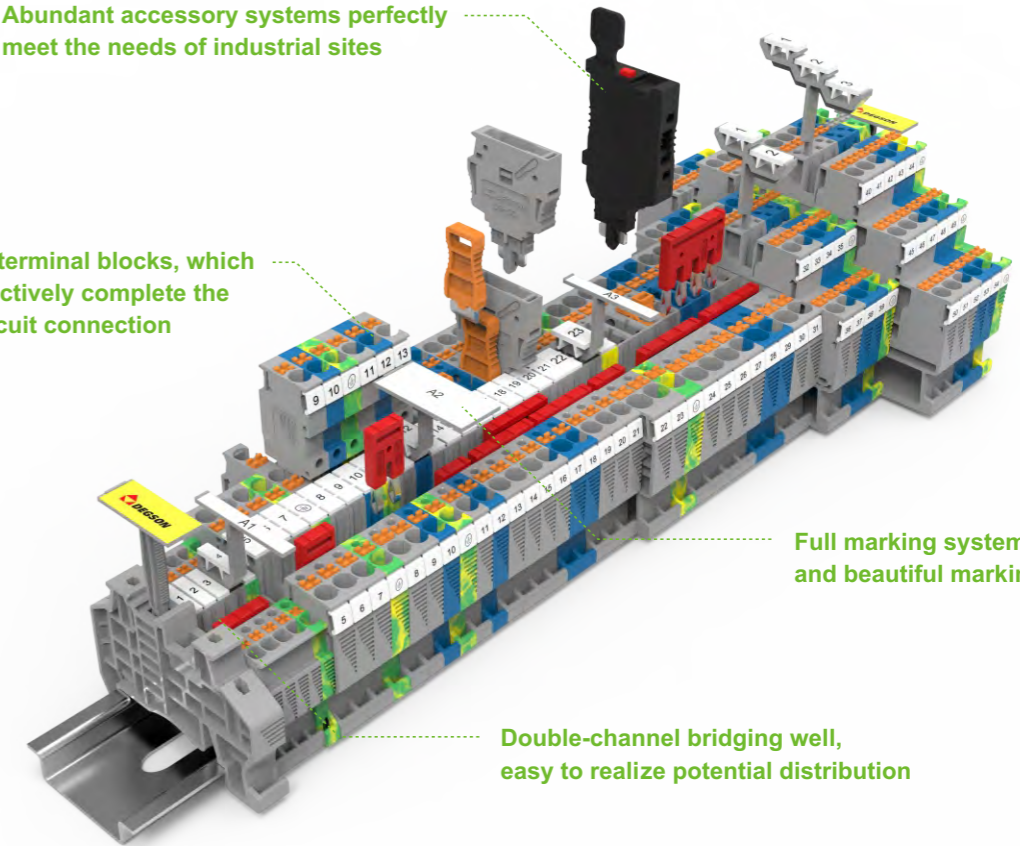
The push-in connection technology is adopted. No tools are needed for wiring, and the connection can be completed by directly inserting rigid wires or multi-strand flexible wires with cold indenters, which can reduce the cost of time and time to the greatest extent. Product wiring covers 0.14-25mm<sup>2</sup>. At the same time, it has a rich range of functional products, which can easily realize short circuit/overload protection, short circuit test, plug and pull, etc. The rated voltage can reach up to 2000V, which is suitable for the high-voltage occasions of Photovoltaic, New energy and other industries. The terminal blocks complies with IEC60947/UL1059 standard, and the connection is stable and reliable.

Abundant accessory systems perfectly meet the needs of industrial sites

Plug-in terminal blocks, which can effectively complete the field circuit connection

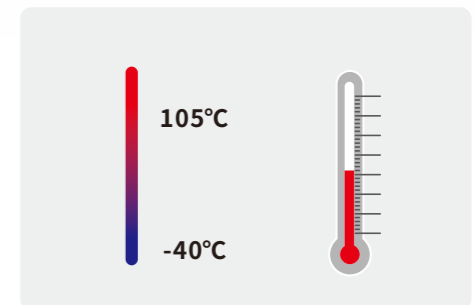
Full marking system, clear and beautiful marking area

Double-channel bridging well, easy to realize potential distribution



### Efficient Connection

Adopt the Push-in connection technology, and the wiring does not need to use any tools, wiring in one step, and the wiring efficiency is greatly improved.



### Wide Range Operating Temperature

PA66 material, conforming to UL94 V0 flame retardant grade, suitable for -40 °C to 105 °C temperature range, can be used in extreme temperature environment.



### Full Certification

The products meet the international standards of IEC60947 and UL1059, and have full systematic certification, including UL, IECEx&ATEX, CE, VDE, CQC, etc.



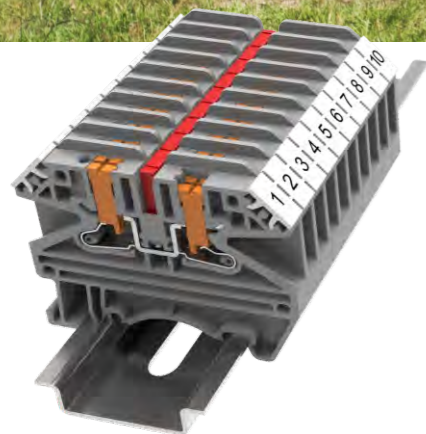
### Excellent Performance

The connection is safe and reliable, and the rated voltage can reach up to 2000V, which is suitable for high-voltage occasions in Photovoltaic, Wind power, Machinery and other industries.



### Typical Application Industries

- Photovoltaic industries
- Wind power industries



## 2000V High Voltage Terminal Blocks DSHV2.5-2000

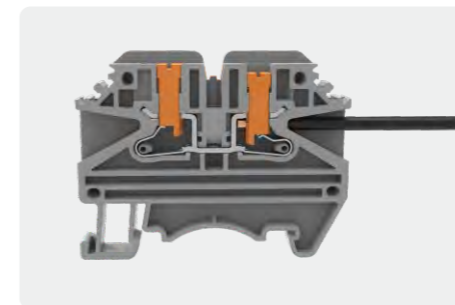
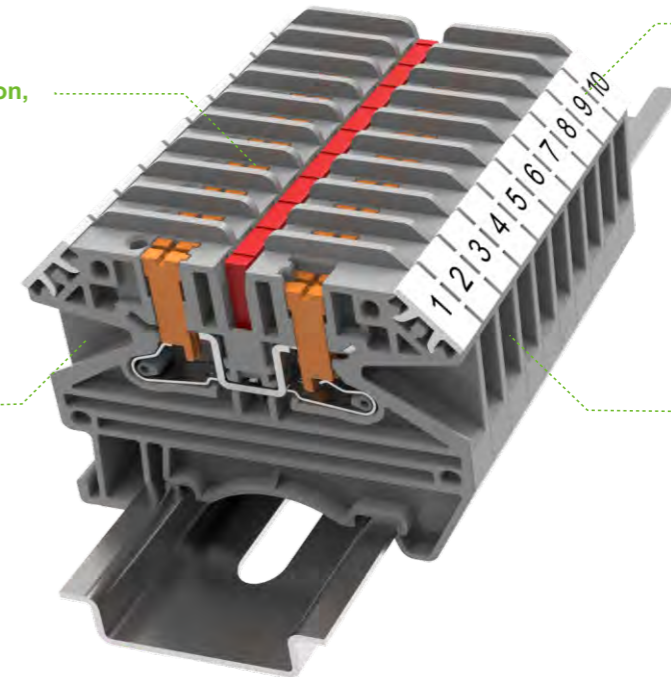
DSHV2.5-2000 terminal blocks, adopts the Push-in connection technology, and the wiring is efficient. It can be easily inserted 0.2-4mm<sup>2</sup> Rigid wire. After inserting the wire at the side, the spring can clamp the wire through deformation recovery to realize the wire connection without maintenance. The rated current is 24A, and the rated voltage is up to 2000V, which is suitable for the high-voltage occasions in Photovoltaic, New energy and other industries.

Orange pull button,  
easy to take wire

Large area logo,  
simple and clear

Side incoming line,  
beautiful wiring

In-line connection,  
wiring efficiency



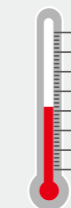
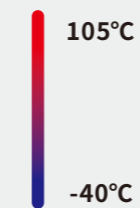
### Push-in Connection Technology

Adopt the Push-in connection technology, and the wiring does not need to use any tools, wiring in one step, and the wiring efficiency is greatly improved.



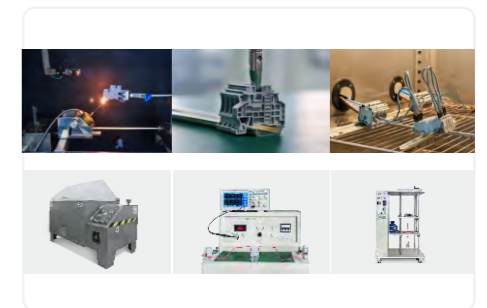
### Beautiful Wiring

Adopt the side incoming line technology, the wire has no bending radius, the wiring is beautiful, and the cable identification is clear.



### Wide Range Operating Temperature

PA66 material, conforming to UL94 V0 flame retardant grade, suitable for -40 °C to 105 °C temperature range, can be used in extreme temperature environment.



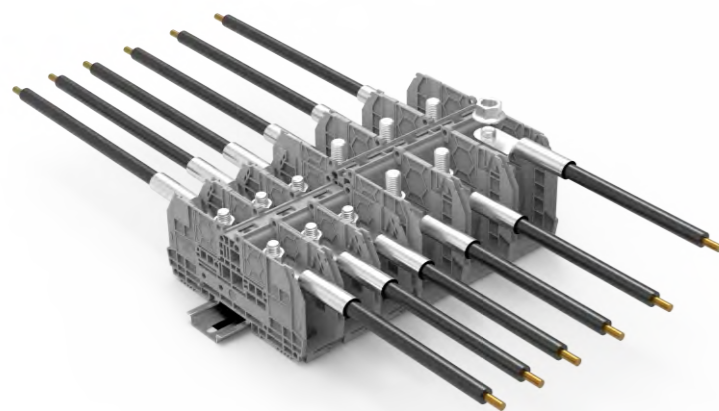
### International Standard Test

Mechanical property test, electrical property test, material test, etc. It has a wide range of varieties and conforms to IEC60947 and UL1059 international standards 105 °C-40 °C.



### Typical Application Industries

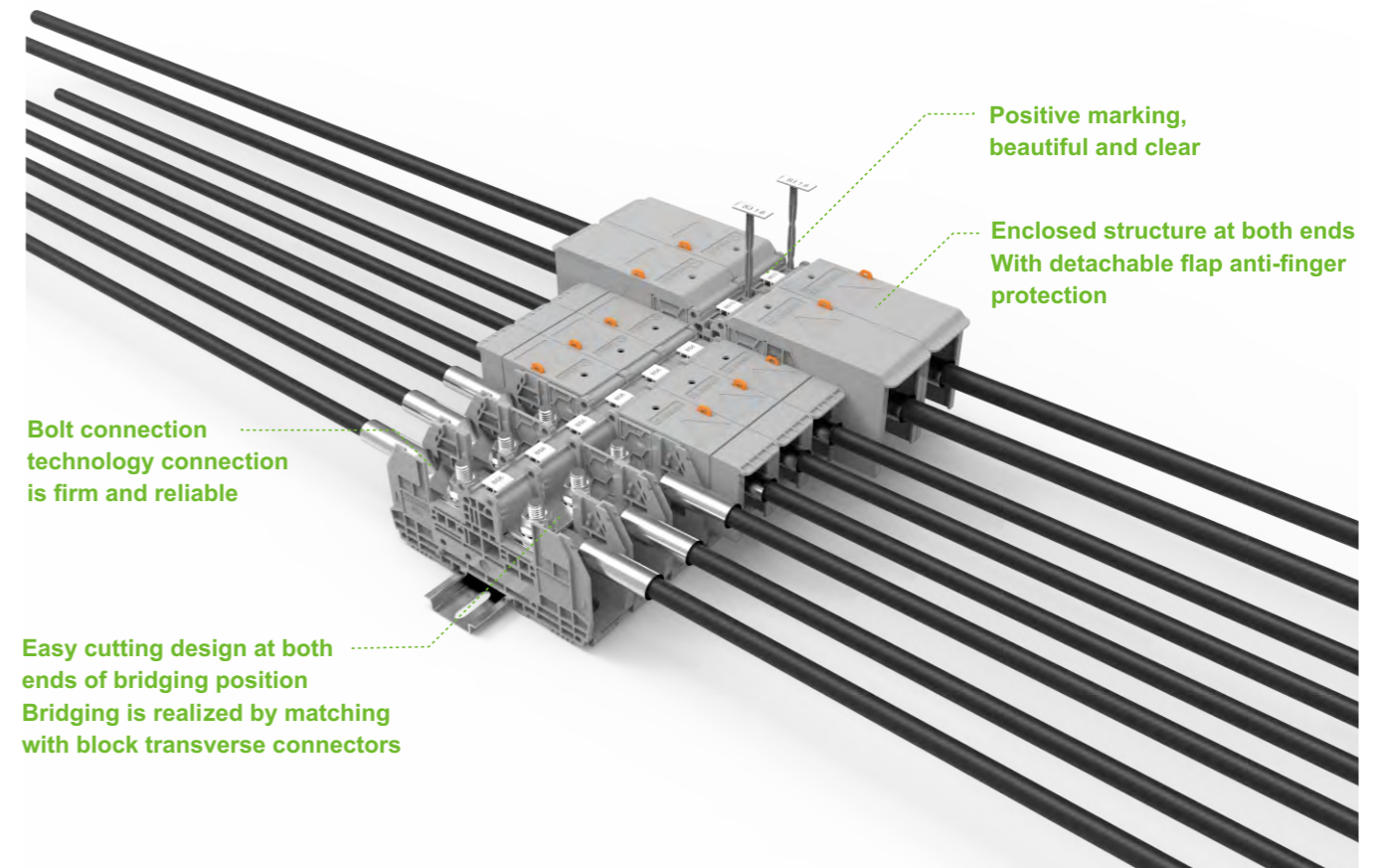
- Machinery industries
- New energy industries



## BS Series Bolt Connection Terminal Blocks

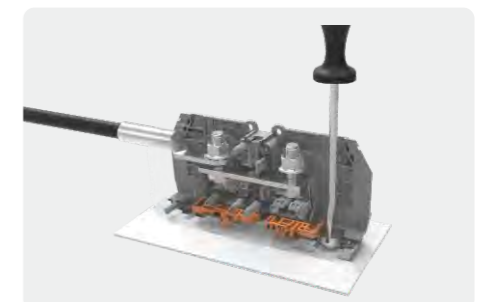
### Reliable and Efficient

BS series bolt terminal blocks adopts bolt connection technology, and the wiring is firm. Built-in dish-shaped shrapnel with excellent resilience. Large range of wiring capacity, with rated wire diameter of 2.5mm<sup>2</sup> To 150mm<sup>2</sup> Wire. Suitable for connecting large-diameter power lines in Wind power, Machinery and other industries.



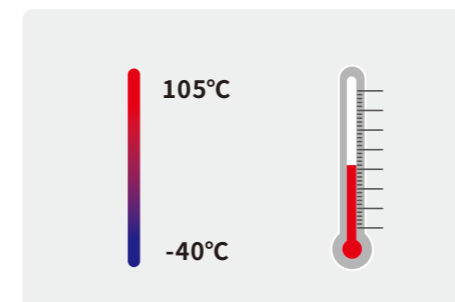
#### Bolted Connection

Bolted connection technology, single bolt can connect multiple ferrule.



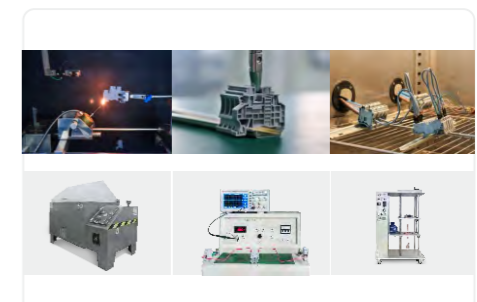
#### Flexible Installation

Multiple mounting types, NS35/NS35 plate mounting.



#### Wide Range Operating Temperature

PA66 material, conforming to UL94 V0 flame retardant grade, suitable for -40 °C to 105 °C temperature range, can be used in extreme temperature environment.



#### International Standard Test

Mechanical property test, electrical property test, material test, etc. It has a wide range of varieties and conforms to IEC60947 and UL1059 international standards 105 °C-40 °C.

### Typical Application Industries

- Electric power
- Wind power
- Mechanical manufacturing



### Laser Printer Powerful Function and Convenient Operation

DEGSON Laser Printer with Powerful function and convenient operation that is widely used for printing on various plastic and metal materials. It can meet the needs of terminal marking, cable marking, and equipment nameplate identification in industrial sites.

Using DEGSON Laser Printer, there is no need for an external computer as it comes with an integrated smart touchscreen for editing and printing. The material storage compartment can hold approximately 50 marking strips, and the conveyor belt automatically transports and prints without the need for additional operations.



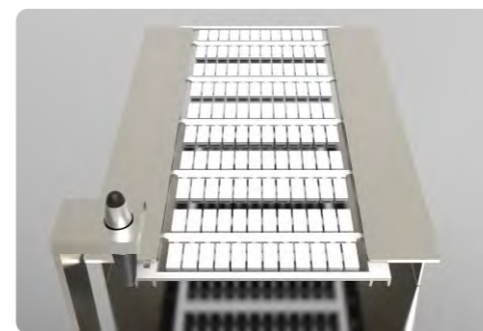
#### Powerful Function

Intelligent integrated touch screen, editing and printing can be completed on a single screen.



#### Complete Offer

Support printing terminal marking, cable marking, nameplate, etc.



#### High Printing Efficiency

The hopper continuously feeds materials for printing, saving time on material handling.



#### Stable and Reliable

The lifetime of the laser reaches 10,000 hours.



### Typical Application Industries

- Industrial robots
- Automation equipment
- Electric power



## Heavy Duty DM Series

### Efficient and Reliable, Comprehensive Connection

The heavy duty modular connection can achieve the simultaneous transmission of power, signal, data, and pneumatic within a single connector. Different modules can be combined according to specific needs. With modular products, design requirements can be quickly and easily adjusted by rearranging the combination, which can reduce costs, improve efficiency, and provide excellent diversity.

Core selection of high quality PC material temperature -40°C ~ 125°C, high strength, impact resistance

Realize power, signal, data, pneumatic transmission



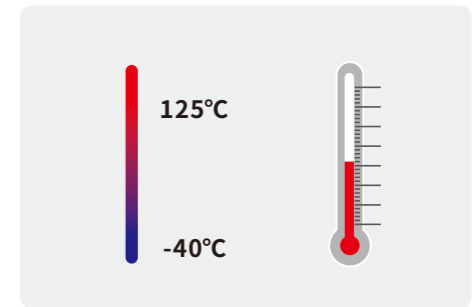
Die casting aluminum alloy, surface spray process, high compression resistance and protection

Pin turning process, high stability. Gold plating and silver plating treatment has good conductivity



### Material

PC high quality material, UL94V0 flame retardant grade.



### Limiting Temperatures

Suitable for -40°C~125°C temperature range, can work in extreme temperature environment.



### Approvals

UL/CE/VDE/CQC certified.



### Test

Perfect test in line with IEC standards to ensure the reliability and durability of products.



### Customer Benefits

- Room saving
- Pluggable relay, easy maintenance
- Fast bridge, time saving
- Suitable for various switching applications



## DRPS Series Ultra-Thin Relay

### Slim Design, Reliable Switching

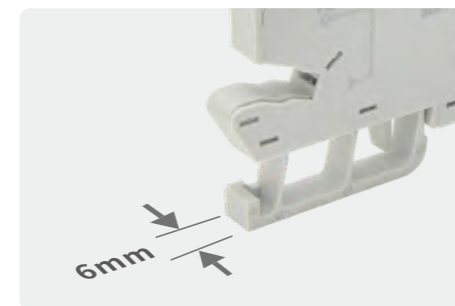
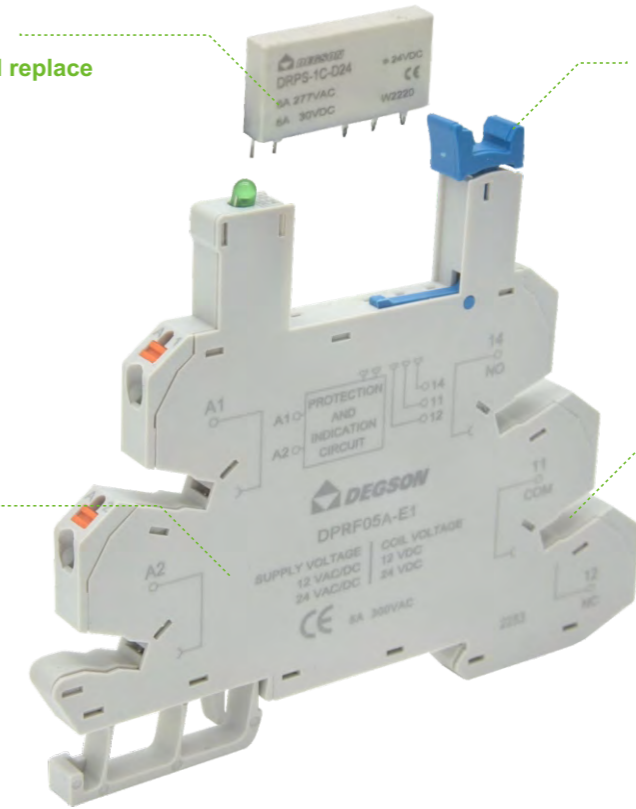
DRPS series ultra-thin relay with maximum 6A capacity can meet all kinds of signal coupling and load switching. Screw and push-in connection sockets are available, 6mm width. Full coverage of coil control voltage range from 12 to 240 VAC/DC. Equipped with rectifier module to be compatible with AC/DC. Capable for bridging with hole and accessories.

Pluggable relay  
Easy to use and replace

Led indicator  
Release button

Rectifier module  
Protection loop

Terminal marking  
Fast bridging



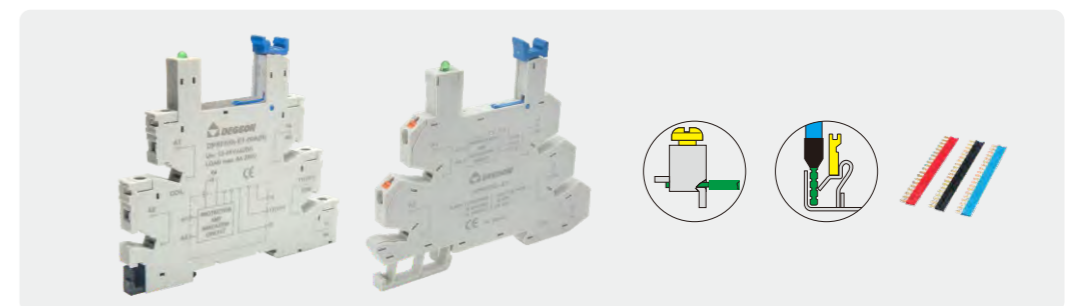
#### Slim Design

6mm width, more compact design.



#### Safety Protection

Inside protect circuit, 4kV insulation resistance.



#### Various Selection

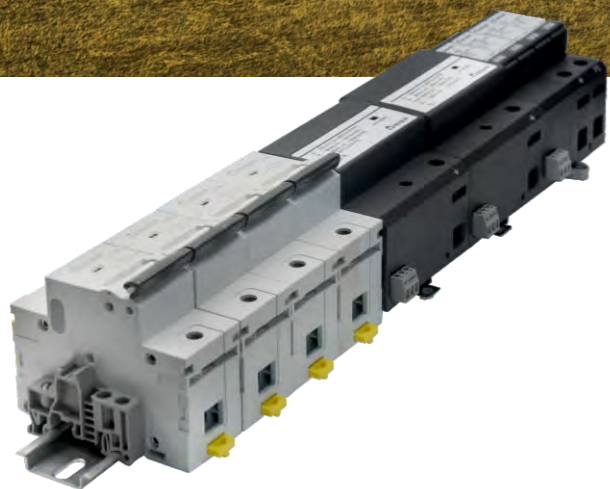
complete solution with screw and push-in socket, bridge accessories.





### Customer Benefits

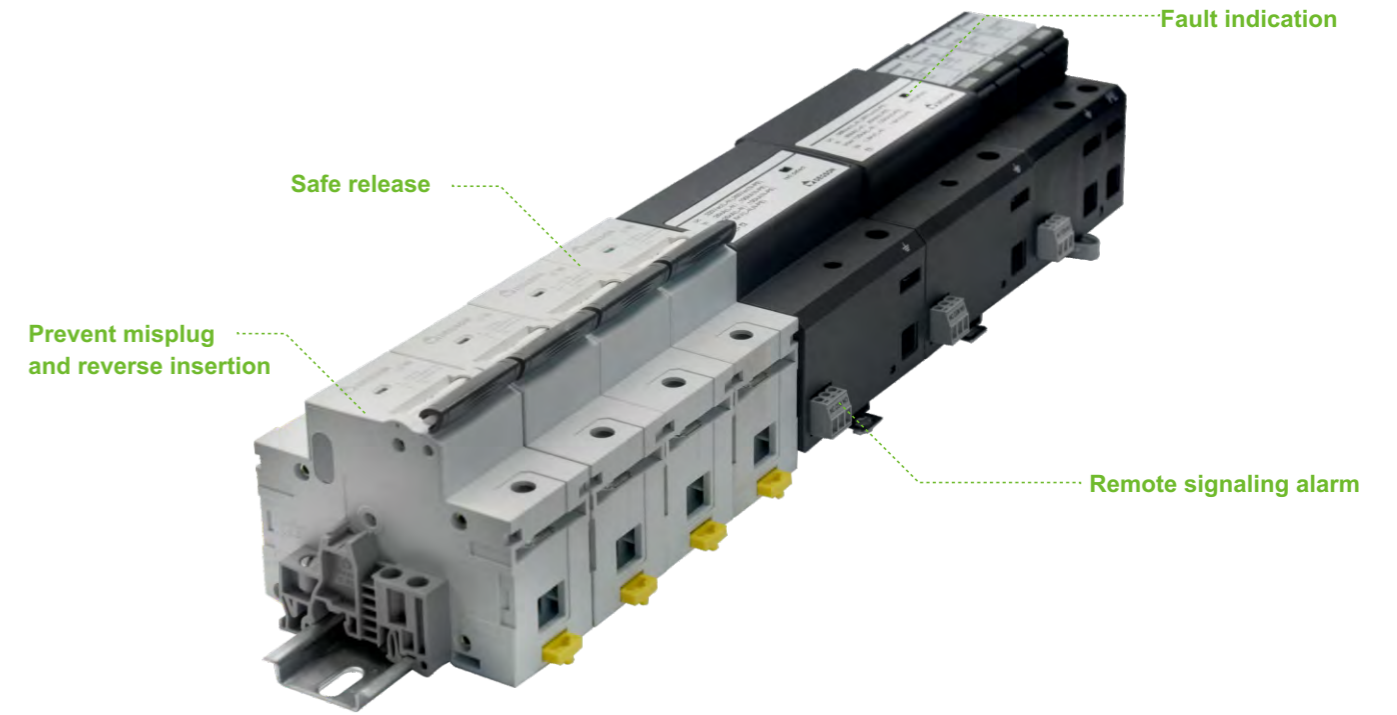
- Module design for cabinet space saving
- Visible window for easy daily maintenance
- Multiple solutions to adapt to power supply system
- Reliable protection to ensure safe operation



## DSPT Series Surge Protectors

### Safe Release, Reliable Protection

The protection system is immune to transient overvoltage and overcurrent, and can be applied to power systems, electrical equipment, data networks, and more. The new DSPT series surge protection solution adopts the main circuit release and large arc suppression plate arc extinguishing technology to avoid the influence of product aging on the release function, effectively release overcurrent and ensure the safe operation of the system. The integrated and split solutions can be perfectly matched with the distribution system, and various voltage and current levels are available, which can be applied to different power supply environments.



#### Arc Suppression Plate Technology For Isolating and Extinguishing Arcs

Low-temperature solder joints allow for fast heat conduction, resulting in more timely and precise release function.



#### Visual Display Window

Real-time monitoring of module operating status, allowing for clear identification of whether the product is functioning normally or damaged, facilitating daily maintenance.



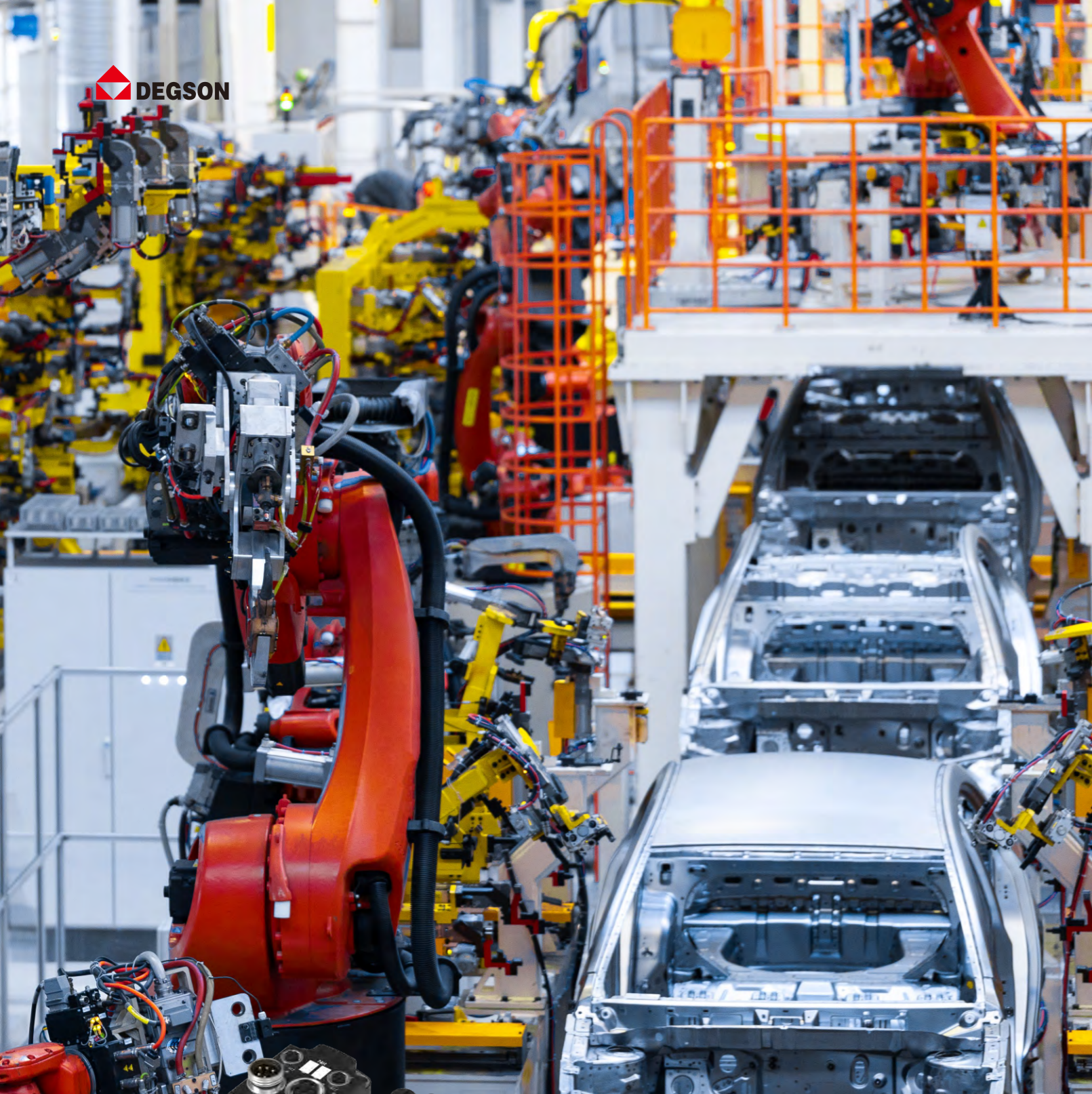
#### Remote Signaling Contact

Remote monitoring module, no tools required, allowing the terminal to instantly access operational information.



#### Certification

Comprehensive certification that meets the needs of domestic and international markets.



## DFY67 High Protection I/O Module

### Reliable, Robust and Durable

DFY67 series I/O has IP67 protection grade and is suitable for field application.

The module has Bus, Power and Signal interfaces at the same time, which converts I/O signals into bus data on site, saving wiring and electrical cabinet space.

The bus and signal interface are connected with M12 threads, which can be easily installed and removed without tools, and also improve the waterproof, dustproof, anti-vibration performance, suitable for harsh industrial environment.

I/O interfaces  
8 × M12

Bus interfaces  
2 × M12

Power interfaces  
2 × 7/8 connector

Debug and  
Maintenance window



#### High Protection Level

The module has IP67 protection grade as a whole. The module is internally glued, waterproof and dust-proof, shock-resistant.



#### Quick Connection

M12 threaded connection is adopted for bus and signal interface. The power interface adopts 7/8 threaded connection, with high carrying capacity. Dual bus and power interface, convenient for module cascade.



#### Bus Communication

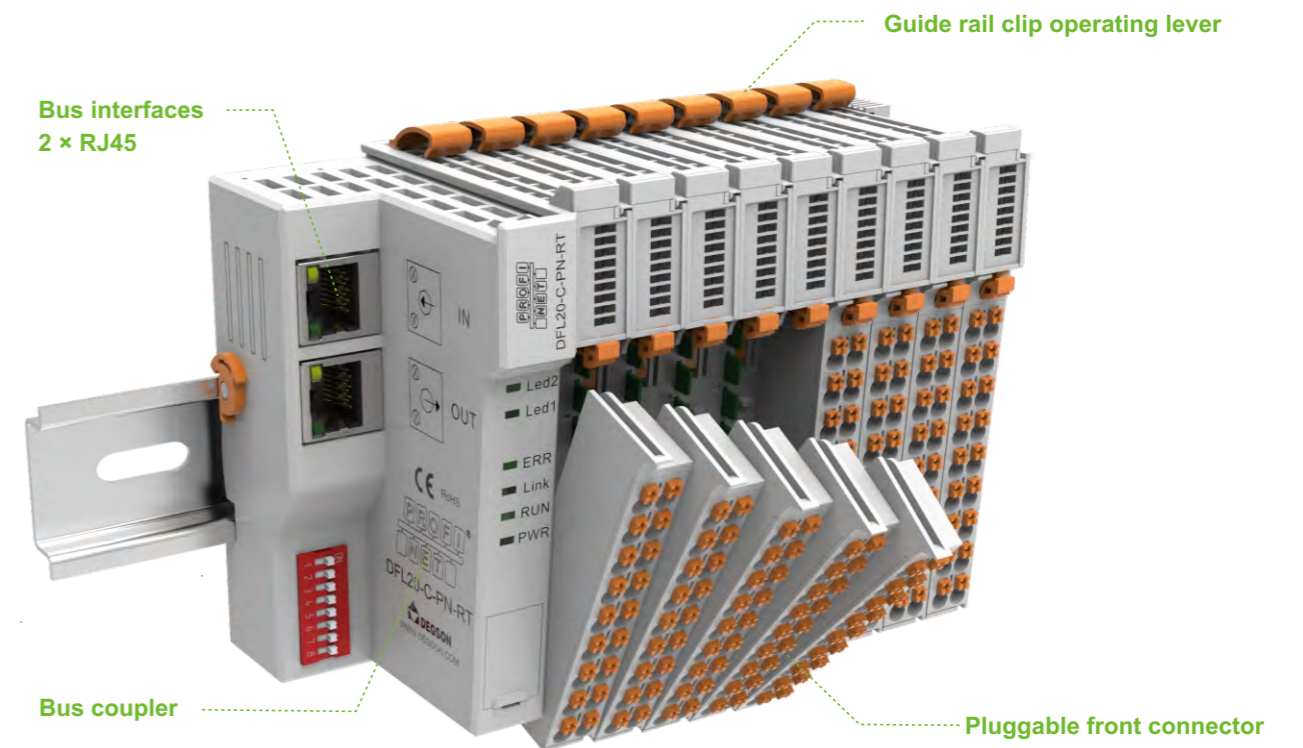
There are modules that support the following buses:

PROFINET  
EtherNET/IP  
EtherCAT



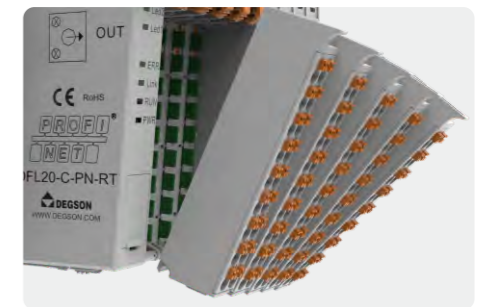
#### Multiple Indicators

The module indicator can indicate the power supply, bus, fault and I/O signal.



**Bus Communication**

PROFINET  
EtherNET/IP  
EtherCAT  
ModbusTCP  
CC-Link-IE  
.....



**Pluggable Front Connector**

The front connector can be removed by the operating lever, and it is not necessary to re-wire the module for maintenance and replacement.



**PUSH-IN Wiring**

Without tools, hard wire and soft wire with ferrules can be directly inserted, and the wire can be easily removed by pressing the push buttons.



**Multiple Indicators**

The module indicator can indicate the power supply, bus, fault and I/O signal.



**DF50 Economical I/O Module  
Small, Compact and Flexible**

DF50 series I/O adopts blade structure, and each piece of DI16/DO16 is only 12mm wide and 105mm high, making an outstanding contribution to the increasingly tense space of the electric cabinet.

The guide rail clip, wiring port and front connector are designed with tool-free disassembly and assembly, which is flexible and convenient, and greatly saves the time of assembly and maintenance.



### Typical Application Industries

- Industrial robots
- Automation equipment
- Servo equipment



## M23 Series Circular Connectors Helping Smart Manufacturing

M23 circular connectors are commonly used in automation fields such as motors, encoders, and robots.

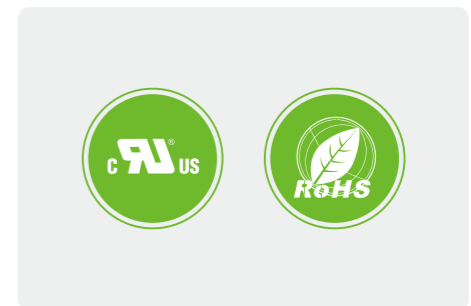
The products are divided into power, signal and hybrid interfaces, solving the problems of multiple types of transmission and susceptibility to interference in equipment, saving wiring and equipment space.

The products are easy to install and have high protection and anti-vibration reliability, suitable for harsh working environment. Cross-manufacturer compatibility, with global versatility.



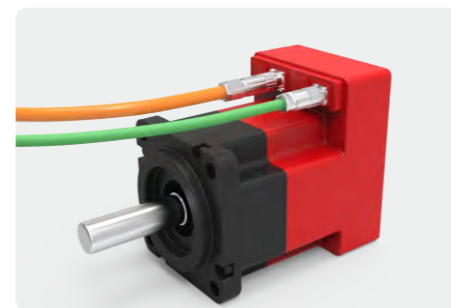
### Universal Interface

Universal interface for perfect compatibility and interoperability.



### Certification

UL listed and RoHS/Reach certified for global use.



### High Protection Level

The product has IP67 protection level, dustproof and waterproof, anti-vibration and anti-impact, reliable structure.



### Easy Installation

Easy assembly of the product, even non-professionals can quickly complete the assembly and replacement of defective parts.



### Typical Application Industries

- Railway Industry
- Industrial control industry

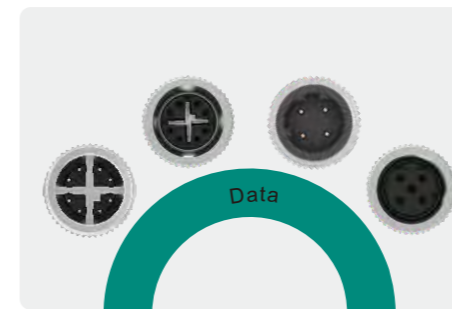
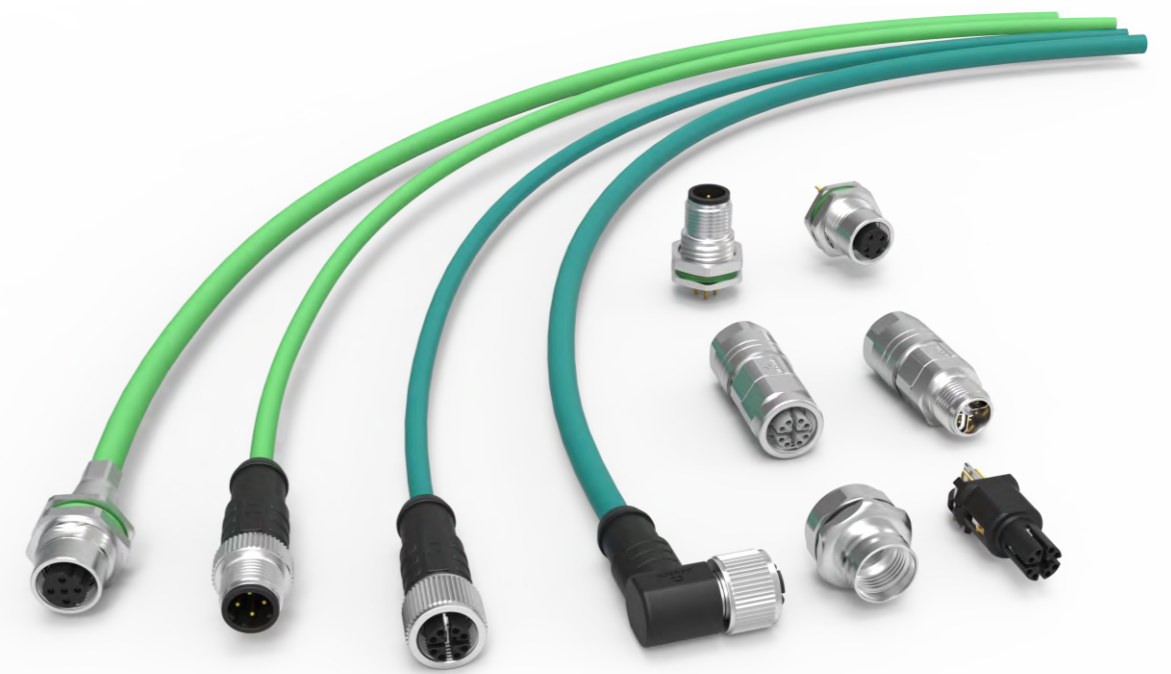


## M8, M12 Series Data Connectors Empowering Network Connectivity

The M8D-Code, M12D-Code and M12X-Code series enable secure and reliable data transmission, enabling solutions and customization for a variety of common network connections.

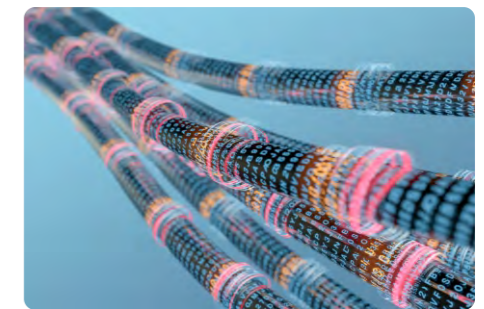
Compliant with IEC 61076 standard, with global universality. They conform to CAT5E/CAT6A data transmission requirements and are ideal for 1GB to 10GB Ethernet applications.

The product is small, flexible and easy to be installed, greatly saving time in assembly and maintenance.



### Universal Interface

Universal interface for perfect compatibility and interoperability.



### Data Transmission

1GB~10GB data transmission.



### Multiple Connection Options

M8~M12 size available, pre-wired, assembled, panel-mounted combinations available.



### High Protection Level

The product has IP67 protection level, dustproof and waterproof, anti-vibration and anti-impact, reliable structure.



### Typical Application Industries

- Food processing
- Offshore Wind Power
- Ships



## M12 Series Plastic Shell Connectors Adaptation to More Areas

M12's new plastic housing series unlocks more connections to meet the demands of harsh salt spray and food processing automation, providing a richer range of matching solutions.

Interfaces conform to IEC standards and are globally compatible across manufacturers. Easy installation, space saving and reliable performance.

Pre-wired, assembled and panel-mounted combinations are available.



### Universal Interface

Universal interface for perfect compatibility and interoperability.



### All Plastic Housing

Lighter weight and better salt spray resistance to meet the harsh environment.



### Multiple Connection Options

A wide range of connection options, combinations and accessories.



### Customized Services

Color and cable can be customized to provide a more complete matching solution.



### Typical Application Industries

- New energy storage
- Data center



## High Protection Energy Storage Connectors

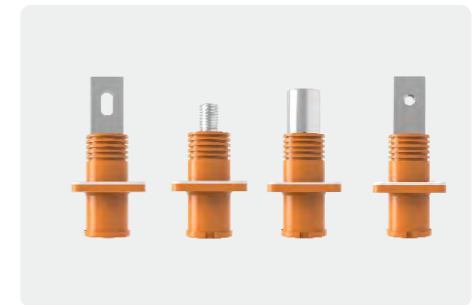
### Efficient And Reliable, Fully Connected

Product market: new energy storage, optical storage charging pile, data center. Product Features: 50A to 350A series complete, meet the UL and TUV certification standards. Takamatsu Energy storage connector series complete, can provide from 50A to 350A current series products. The full range of products comply with the latest energy storage connector standards UL4128 and TUV 2PFG 2740. The product can withstand 1500V DC voltage, with IP67 high protection performance, mechanical coding and other characteristics. It can provide a safer, faster and more reliable connection for the energy storage industry!



#### Scope of Application

The product is used in energy storage system cabinet.



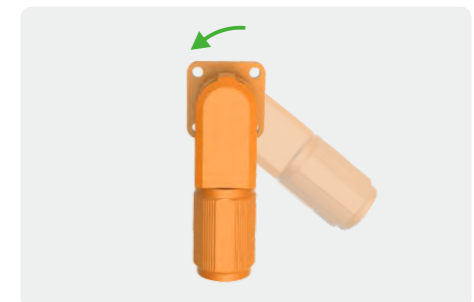
#### Various Wiring Modes

Four wiring specifications are optional.



#### Indexable Coding Design

Keep fingers from touching conductors to ensure operation safety. At the same time, there is a positive and negative pole for the indexable coding design.



#### 360° Rotation

Plug can rotate 360°, wiring flexible and convenient.

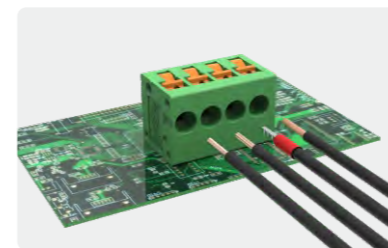
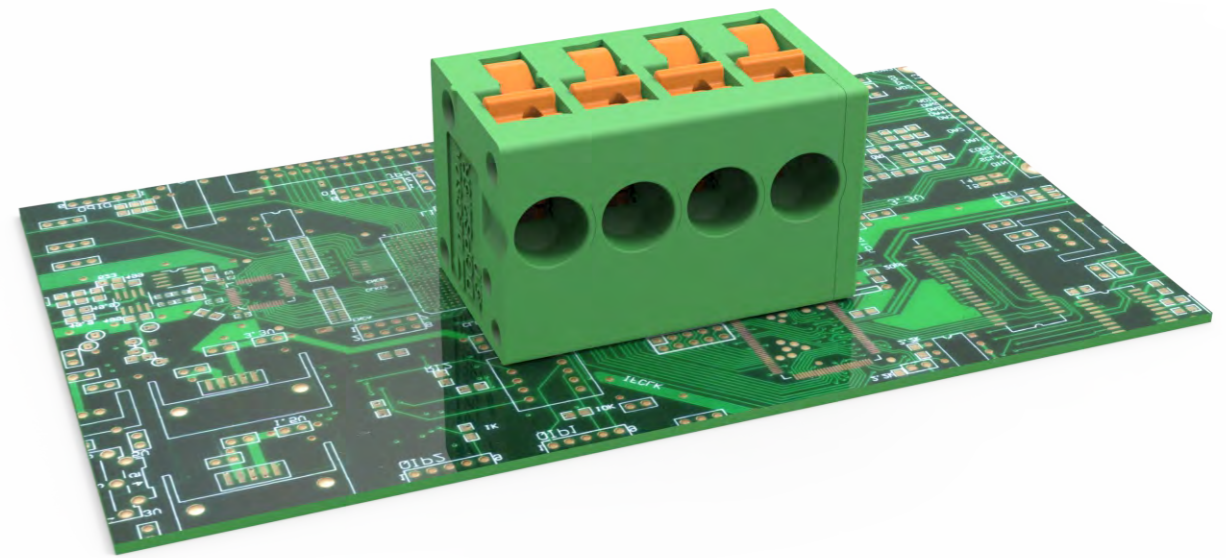
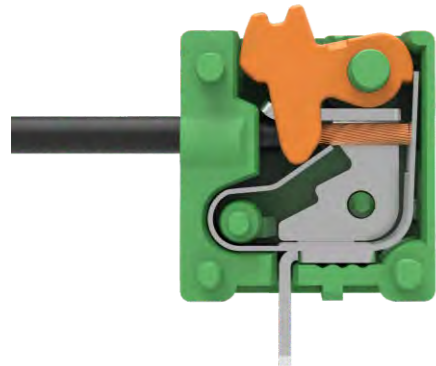


### Typical Application Industries

- Industrial automation
- Intelligent buildings
- New energy

## PUSH-SNAP Technology Ideal Choice for Future Automated Wiring

DEGSON's innovative PUSH-SNAP spring connection technology raises the wiring efficiency to a new level, multiple types of wires can be quickly connected without tools. Even the stripped flexible wires without ferrules could be directly inserted into the pre-opened spring and push to end, the spring will be triggered and clamp the wire, which can further improve the wiring efficiency by 60% compared with push-in spring. It makes the installation be more flexible and efficient, operation be more simpler and convenient. It is an ideal choice for future automated wiring! This connection technology will bring a new revolution in the field of electrical connection, and will open a new chapter of intelligent connection!



### Efficient and Flexible Installation

Innovative PUSH-SNAP spring connection technology, multiple types of wires could be quickly connected without tools, which can further improve the wiring efficiency by 60% compared with push-in spring.



### Flexible Combination Configuration

Modular splicing structure design, which can be quickly and flexibly combined into electrical connections between different poles and colors, and the delivery is faster.



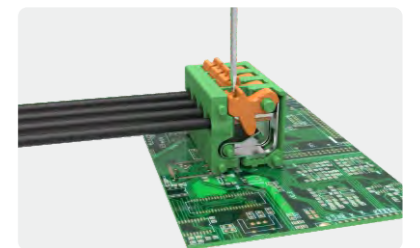
### Simple and Convenient Operation

Terminal blocks are delivered with pre-opened spring, even the stripped flexible wires without ferrules could be directly inserted into the pre-opened spring and push to end, the spring will be triggered and clamp the wire.



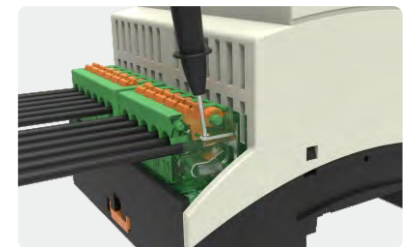
### Double Safety Feedback

Visual and auditory double feedback, customer can judge whether the connection is completed through the button position and clear "click" sound, safer to use.



### Easy and Labor-Saving Release

Unique rotary button design, press the button with your finger or screwdriver to release the wire, easy and labor-saving.



### Integration Test Design

The test holes are integrated on the button, the electrical test and maintenance are more convenient.





### Typical Application Industries

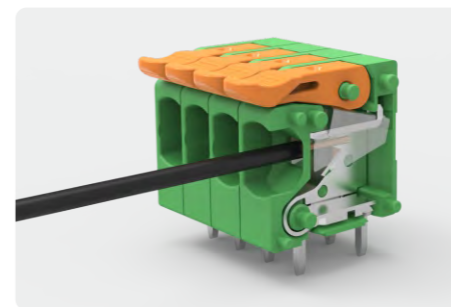
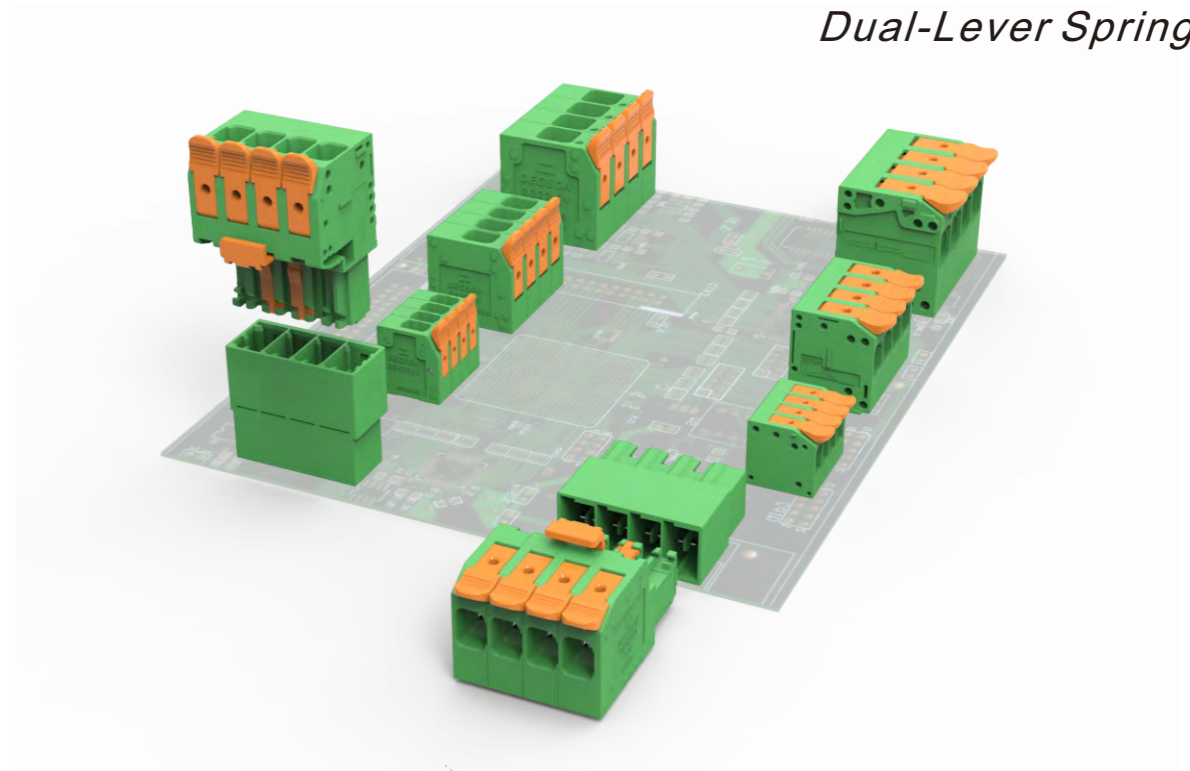
- Charging pile
- PV inverter
- Industrial automation



## Dual-Lever-Spring Series Tool-Free Connection

The smart world is accelerating, and each new generation of device is moving towards the direction of miniaturization and higher cost performance, the miniaturization trend of electrical components makes the power transmission integrated on the PCB, DEGSON has ingeniously developed PCB terminal blocks with operation lever. with innovative Dual-Lever-Spring patented technology, multiple types of wires could be quickly connected without any tools, which reduce the dependence of traditional wiring on tools, and make the connection be more time-saving, labor-saving and worry-saving!

## Dual-Lever Spring®



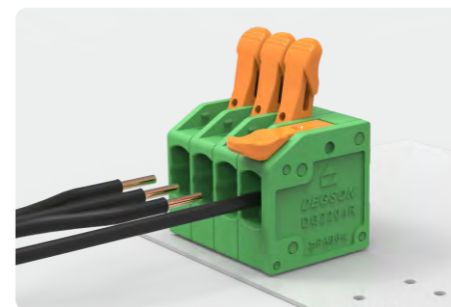
### PUSH-IN Spring Connection

Efficient wiring with Push-in spring connection, which can further improve the wiring efficiency by 75% compared with screw connection.



### Dual-Lever-Spring Technology

Innovative Dual-Lever-Spring patented technology, easy and comfortable operation.



### PCB Terminal Blocks with Levers

Wires can be connected or released without any tools, to reduce the dependence of traditional wiring on professional operators and tool.

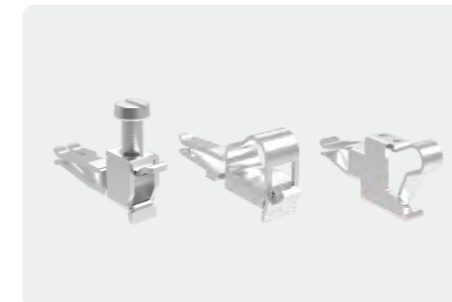
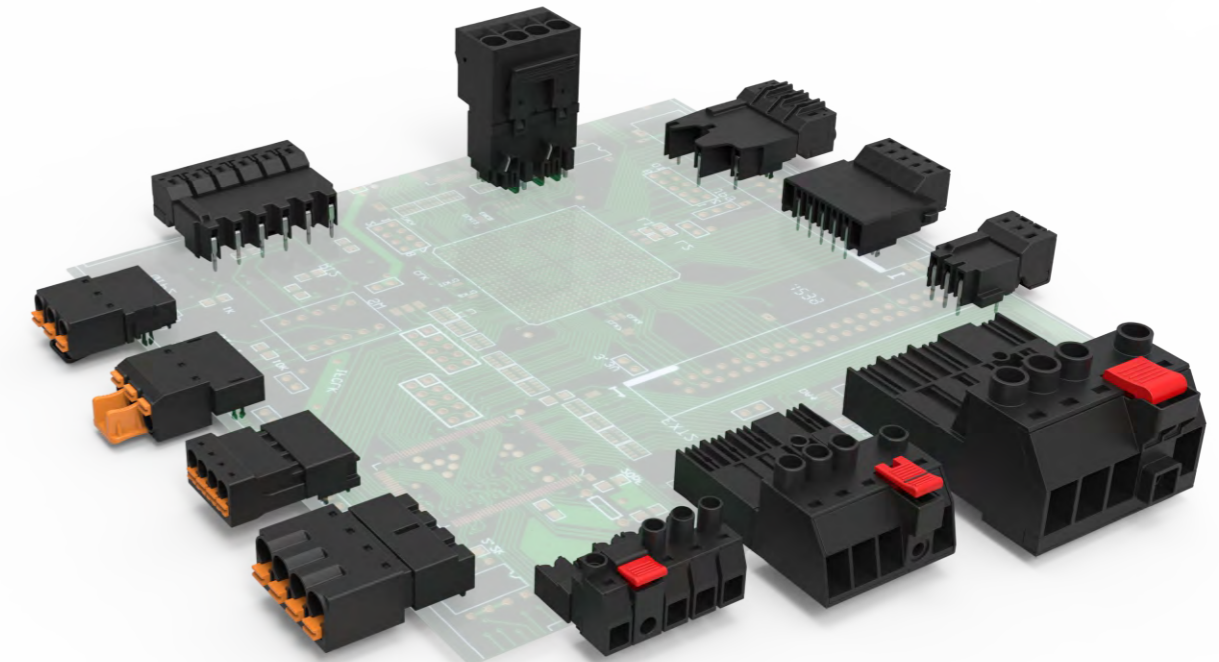


### Self-Locking Snap Design

Self-locking snap design, which can provide a more reliable connection without increasing the space on both sides.

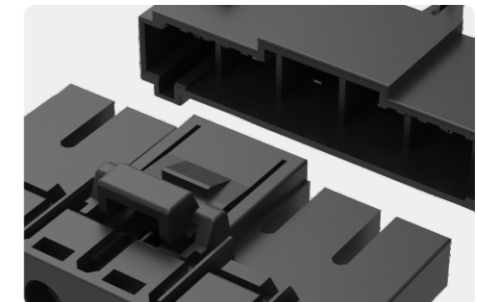
### Typical Application Industries

- Servo
- Inverter



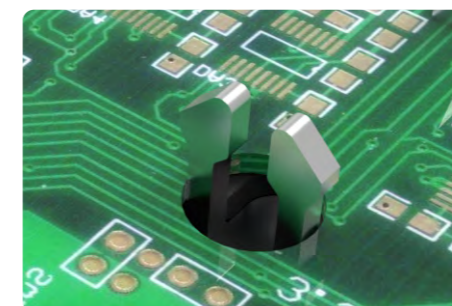
#### Wiring Diversification

Different wiring methods of screws and springs meet different operating habits.



#### Secure Connection

Equipped with audible reminder elastic locking clip, ensuring secure connection, suitable for vibrating environments.



#### Welding Efficiency

Fixed foot design to ensure welding reliability and improve welding efficiency



#### Easy to Operate

Innovative pull-out lever design brings a new plug-in experience.



### SNAP-LOCK Series Elastic Locking Clip, Efficient and Safe

The SNAP-LOCK series was developed specifically for industrial control equipment. Pitch: 5.0/5.08/7.5/7.62mm Rated current: 78A max The flexible and safe locking structure ensures stable electrical transmission.



### Typical Application Industries

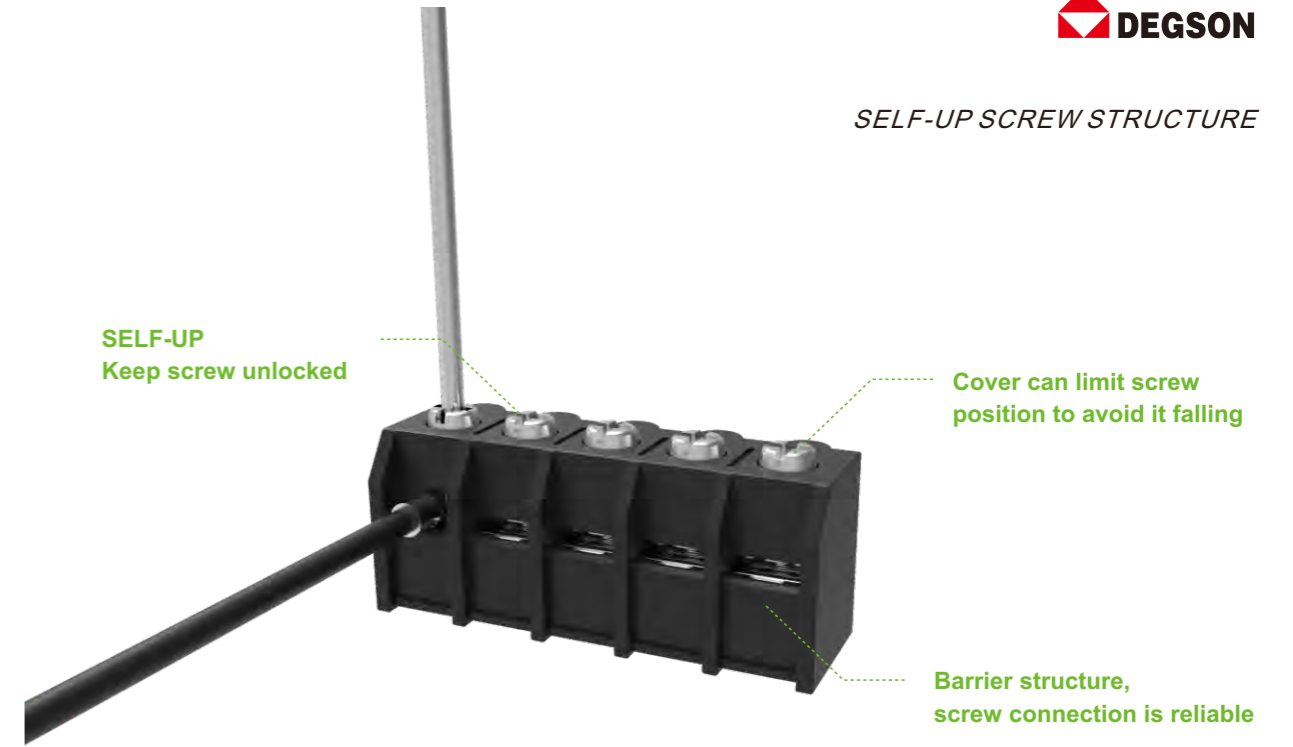
- Power supply
- Servo
- VED
- PLC



## SELF-UP Series Screw Lock-free Technology

In the context of the rapid development of intelligent manufacturing worldwide, efficiency of operation is the key of the electric connection. SELF-UP technology use screw loose-proof and integrated cover structure to improve wiring efficiency . Customer can directly connect wires.

### SELF-UP SCREW STRUCTURE



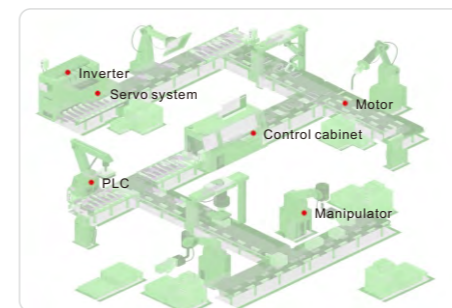
#### Lock-Free

screws are unlocked, so customer can save 50% time.



#### Screw Loose-Proof

cover and spring limit screw, no screws will be lost during operation.



#### Suitable for New and Old Models

Upgrade on the basis of the original product, but the installation size remains the same.



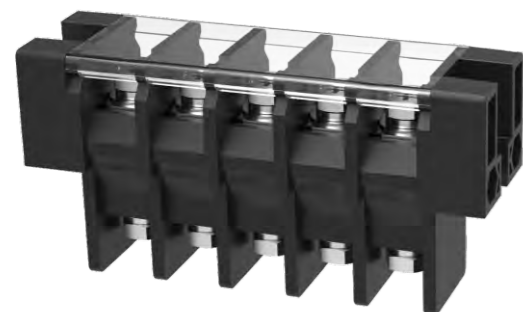
#### Wiring Automation

keeping the screws unlocked, The machine can send and lock wires.



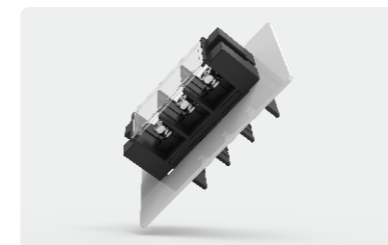
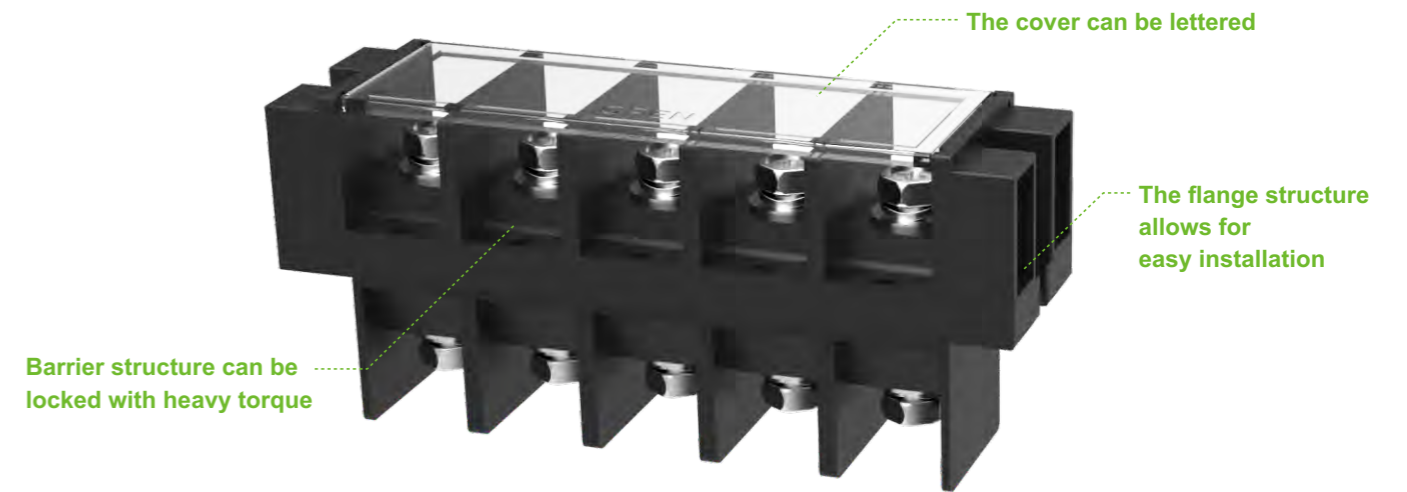
### Typical Application Industries

- Battery
- PCS
- APF



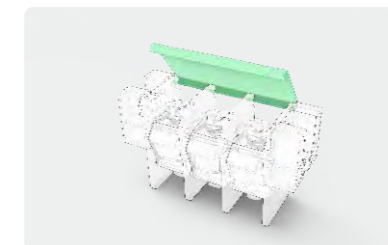
### Transfer Series Feed-Through Technology

With the rapid development of New Energy, Energy Storage market is growing rapidly, having a bright prospect . Barrier feed-through terminal are produced for Energy Storage, which can be locked with heavy torque and have IP20 protection level . Current range: 40-300A Used for PCS, APF.



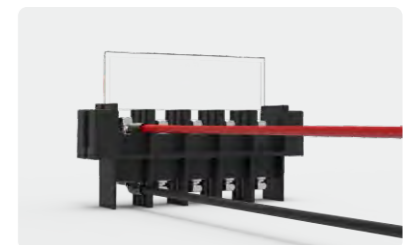
#### Feed-Through structure

Suitable for enclosure connection, prevent mosquitoes from entering after installation.



#### Rotating Cover

Prevent electric shock, duty and losing, save the time for installation, and improve efficiency



#### Applicable For High Power Device

This series have high current and high Voltage.  
Maximum current: 300A  
Maximum voltage: 1000V



### Typical Application Industry

- Electric motorcycle
- Electric bicycle
- Electric scooter
- Portable energy storage power



## Micro-Mobility Connector Easy to Connect, Empower the Green Society

Micro-mobility connectors are mainly divided into: power connector, charging port connector, E-motor connector, signal connector, and power exchange connector. They are mainly used for the electrical connection between the main functional components of lithium type vehicle such as electric bicycles, electric motorcycles, and electric scooters. In addition, they can also be used for lithium battery related products. DEGSON micro-mobility products mainly focus on customized solutions, and are based on the market with high reliability and exquisite structure. In the future, we will continue to be market-oriented and develop products that meet customer needs.



### Efficient And Reliable Quick-Plug Locking Structure

The locking method is relatively simple, which can be connected quickly and directly, saving the customer's assembly time.



### More Humanized Shape Product Appearance

The appearance of the connector is more in line with the ergonomic design.



### Wide Functional Coverage Product Category

The product basically covers the electrical connection of main functional devices in the field of E2W.



### Typical Application Industries

- EV Charger
- Charging station



## Type2 DC EV Charger(EU) DC High Power Technology

European standard DC CCS2 type 2 EV charging connector, equipped with cables, can be passed DC for electric steam quick charge.

Charging Mode 4, Connection Mode C, installed on the charging piles for electric steam charging.



### Global Common Interface

Type1, Type2, GB/T Universal interface to achieve perfect compatibility and compatibility.



### Certification

Through TUV/UL/CB/CE certification, Universal.



### Comfortable to Use

DEGSON Plug design is user-friendly and is comfortable to use.



### Custom Services

The EV Charging cables adopts different lengths and different cable modes according to customers' requirements.