

江门市德索连接器有限公司

德索工厂一站式连接解决方案
自2005年以来，一直专注于圆形连接器和线缆的制造



欧标连接器

M SERIE CONNECTOR





江门市德索连接器有限公司是一家专业专注工业连接技术的企业，国家高新技术企业。公司成立于2005年，产品涉及欧标连接器，美标连接器，防水连接器，射频连接器，成品线束及OEM/ODM业务，为客户全面提供专业的连接解决方案。

Jiangmen DOSIN Connector Co., LTD is a national high-tech enterprise specializing in industrial connection technology. Founded in Jiangmen in 2005, the company's products are related to European standard connector, American standard connector, waterproof connector, RF connector, finished wire harness and OEM/ODM business, to provide customers with a comprehensive professional connection solutions.



经过多年的发展，优良的产品，丰富的产品线及极高的性价比越来越受广大客户欢迎。在无人驾驶，工业4.0的大环境下，德索产品广泛应用于风能发电，高铁，汽车制造，智能交通，智能制造等等，逐步成为国内工业连接器中坚力量。公司内部通过ISO9001体系认证及实行6S管理方针，有效地保障产品质量。

公司销售网络逐步健全，在国内主要城市都将设立办事处及世界各地建立更多的合作伙伴。“专业专注做好每一个产品”的理念，“至高品质，至诚服务”的宗旨真诚地为广大客户服务。

After years of development, because of excellent products, rich product lines and high cost performance, our company is more and more popular with the majority of customers. In the environment of unmanned driving and industry 4.0, DOSIN products are widely used in wind power generation, high-speed rail, automobile manufacturing, intelligent transportation, intelligent manufacturing and so on, and gradually become the backbone of domestic industrial connectors. We have passed the ISO9001 system certification, and the implementation of 6S management policy, effectively ensure the quality of products.

Our company's sales network has been gradually built, and offices will be set up in major cities in China and more partners will be established around the world. We take "professional focus to do a good job in each product" concept, "to the highest quality, sincere service" the purpose of sincere service for customers.



品质管理

严格按照ISO9001质量管理体系

STRICTLY IN ACCORDANCE WITH THE ISO9001 QUALITY MANAGEMENT SYSTEM

1



丰富经验的研发团队

江门德索从连接器的研发、模具制作到生产加工每一个环节都由资深的工程师把关，整个团队都有丰富的连接器及线束加工从业经验。

From connector research and development, mold making to production and processing, each link is controlled by senior engineers, and the whole team has rich experience in connector and wire harness processing.

2

HIGH QUALITY PRODUCTION EQUIPMENT

高品质的生产检测设备

从五金加工、组装、焊接、注塑到检测，都采购先进的生产设备和检测设备，确保生产产品高品质，低不良的要求。

From hardware processing, assembly, welding, injection molding and testing, we purchase advanced production equipment and testing equipment to ensure the production of high quality products, low production defect rate requirements.



3



高素质的生产人员 HIGH-QUALITY PRODUCTION PERSONNEL

随着业务高速增长，企业生产人员快速增长，公司建立完善的岗前培训、在岗深造等培训体系，打造一批高素质的生产人员。

With the rapid growth of business and the rapid growth of production personnel, we have also established a perfect pre-job training, on-the-job further education and other training systems, so as to create a group of high-quality production personnel.

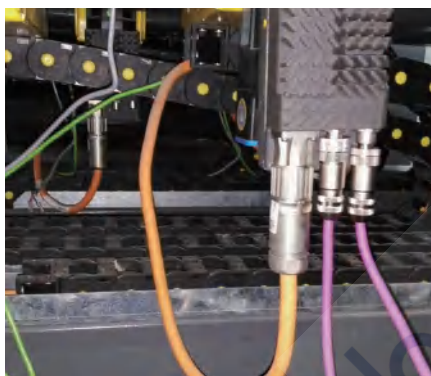
应用案例

专业专注提供多样的信号、数据、动力传输连接器

PROFESSIONAL FOCUS ON PROVIDING A VARIETY OF SIGNAL、DATA、POWER TRANSMISSION CONNECTORS

伺服电机

SERVO MOTOR



网络化、运动化的趋势，伺服电机连接方式也在升级，拖链电缆、高防护等级的连接需求应用加快。德索工厂开发的M12 A、D、X、S、T类型及M17、M23系列满足各种规格电机的需求。

With the trend of networking and movement, the connection mode of servo motor is also upgraded, and the application of the connection demand of drag chain cable and high protection class is accelerated. The M12 A, D, X, S, T types and The M17, M23 series developed by DOSIN meet the needs of various specifications of motors.

工业相机

INDUSTRIAL CAMERA



物联网IOT的发展促进了工业相机的快速发展，工业相机在工业制造，物流行业举足轻重的地位。恶劣的环境及超高的传输要求，德索开发的M12连接器更好的解决了工业相机的连接。

The development of the Internet of Things IOT has promoted the rapid development of industrial cameras, which play a pivotal role in the industrial manufacturing and logistics industries. Harsh environment and ultra-high transmission requirements, DOSIN developed the M12 connector to better solve the industrial camera connection.

风力发电

WIND POWER GENERATION



新能源的开发利用，风力发电在近几年得到的快速发展。德索开发的M12网络连接器及MIL-C-5015系列传感器连接方案，方便解决风机监测及远程网络控制。

The development and utilization of new energy, wind power and other fields have been developed rapidly in recent years. DOSIN's M12 network connector and MIL-C-5015 series sensor connection scheme are being developed to facilitate fan monitoring and remote network control.

无人驾驶 DRIVERLESS



最近几年无人机、无人车、巡逻机器人及无人船应用越来越广，对射频天线需求增多。螺旋天线、胶棒天线对应线束广泛使用。

Drones, unmanned vehicles, patrol robots and unmanned boats have become more widely used in recent years, and the demand for RF antennas has increased. Spiral antennas, Rubber duck antennas and their harnesses are also widely used.

工业4.0 INDUSTRIAL 4.0



工业4.0主要是工业网络化进程，无线网关，设备无线化管理广泛应用到射频天线，主要是胶棒天线为主。

Industry 4.0 is mainly industrial networking process, wireless gateway, wireless equipment management, widely used products are radio frequency antenna, mainly Rubber duck antenna.

智慧城市 SMART CITY



智慧城市的普及，交通智能化、数据采集，对视频传输及数据传输更高的要求。交通信号，视频监控等连接器及馈线大量应用。

With the popularity of smart city, traffic intelligence, data collection and other industries have higher requirements for video transmission and data transmission. Traffic signals, video surveillance and other connectors and feeder cable have also been a large number of applications.

协议介绍

IO-link连接技术

IO-LINK TECHNOLOGY

dosinconn | 德索连接器
连接器 & 线材定制 | www.dosinconn.cn

标准化数据接口在工业上越来越广泛，满足了复杂生产系统的分布式控制以及日益提高的信息和数据快速交换的要求，与办公领域不同的是，工业环境应用对于连接器、连接技术以及接线提出了非常严格的要求，江门德索产品已经覆盖了目前大部分主流的网络总线协议和现场总线协议产品。

系列产品包含了组装式、预制电缆、穿板式连接、PCB板式等各种类型的全方面的安装解决方案。

Standardized data interfaces are more and more widely used in industry to meet the distributed control of complex production systems and the increasing demand for rapid exchange of information and data. Different from the office field, the industrial environment applications put forward very strict requirements for connectors, connection technology and wiring. DOSIN products have covered most of the current mainstream network bus protocol and field bus protocol products.

The series of products include assembly, prefabricated cable, through panel mount, PCB board and other types of installation solutions in all aspects.





I/O-link连接技术示意图
Schematic diagram of I/O-link connection technology

CANopen®

SERCOS
the automation bus

EtherNet/IP™

CC-Link IE Field

CC-Link

DeviceNet™

EtherCAT®

PROFINET®

PROFINET®

INTERBUS

AS INTERBUS
SAFETY AT WORK

CAT6A
10 GIGABIT

连接技术

连接器或组件完全符合客户的规格需求

CONNECTORS OR COMPONENTS FULLY MEETS THE CUSTOMER'S SPECIFICATIONS

使用说明：连接器及其附件在正常使用情况下不允许带电或者带负载进行操作。

Instructions for use: Connectors and accessories are not allowed to be operated with power on or with load under normal use.

螺钉连接 SCREW CONNECTION

螺钉连接是指导线螺丝钉端子之间可拆卸的电连接方式。依据DIN/EN 60999/VDE 0609标准设计的。

Screw connection is a detachable electrical connection between the guide wire, screw, and terminal. Designed according to DIN/EN 60999/VDE 0609.

适用的导线规格范围广，不用专用的工具，可现场操作的特点。

Wide range of applicable wire specifications, no special tools, can be operated on site.

螺钉尺寸 Screw size	M2.5	M3	M3.5
扭矩(Ncm) Torque(Ncm)	40	50	60

焊接连接 WELDING CONNECTION

焊接连接可以导线跟导体通过电烙铁和焊机连接，也可以使连接器与印刷电路板连接。焊点和附件的测试和签定参考DIN EN 60068第2-20部分操作。

Welding connections can be wired to conductors via electro-solder irons and welders, or connectors to printed circuit boards. Solder joints and accessories are tested and signed according to DIN EN 60068 part 2-20 operation.

适用于预制线缆连接，印刷电路板上，操作方便快捷，插针密度高。

Suitable for prefabricated cable connection, printed circuit board, easy and fast operation, high pin density.

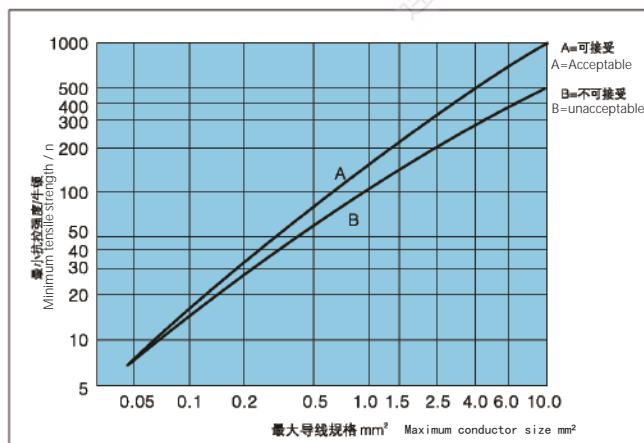
压接连接 CRIMP CONNECTION

压接连接是使用压接工具将导线和导体通过物理形式绞合一起的连接方式，是一种不可拆卸的电连接方式。连接要求依据DIN IEC 60352第2部分。

Crimp connection is to use crimping tools to physically twist wires and conductors together, is a non-detachable electrical connection. Connection requirements according to DIN IEC 60352 Part 2.

可适用于现场接线，可靠性高，连接密度大的特点。

Suitable for field wiring, high reliability, high connection density characteristics.



防水等级

专业防固保护及IP防水保护

PROFESSIONAL ANTI-SOLID PROTECTION AND IP WATERPROOF PROTECTION

连接器上的外壳，密封件及锁扣装置使连接器的电气部件免受外界环境影响，比如冲击、异物、湿气、灰尘、水或清洁剂、冷却液、油等其它液体的入侵。

The housing, seals and latching devices on the connector protect the electrical part of the connector from external environmental influences such as shock, foreign bodies, moisture, dust, water or detergents, coolants, oils and other liquids.

下面是防护等级一览表 BELOW IS A LIST OF PROTECTION LEVELS



数字 Protection Level	保护范围 First Digit: Solids Protection	数字 Protection Level	保护范围 Second Digit: Moisture Protection
0	无安全防护：无接触保护，无防固体异物保护。 Not rated for protection against contact or ingress (or no rating supplied).	0	无防水保护。 Not rated (or no rating supplied) for protection against ingress of this type.
1	防大件异物保护：防止手部大面积接触，防止直径大于50mm的异物。 Protection against solid objects larger than 50 mm (e.g. accidental contact with any large surface of the body, but not deliberate body contact).	1	防滴水保护：防止垂直滴落的水滴。 Protection against vertically dripping water. No harmful effects when the item is upright.
2	防中等大小异物保护：防止手指接触，防止直径大于12.5mm的异物。 Protection against solid objects larger than 12 mm (e.g. accidental finger contact).	2	防倾斜滴水保护：防止倾斜滴落的水滴（在垂直面15°以内的任意角度）。 Protection against vertically dripping water. No harmful effects when tilted up to 15° from normal position.
3	防小件异物保护：防止工具，铁丝等直径大于2.5mm的物体接触，防止直径大于2.5mm的异物。 Protection against solid objects larger than 2.5 mm (e.g. tools).	3	防洒水保护：防止来自垂直面60°以内任意角度的洒水。 Protection against water sprayed directly at any angle up to 60° off vertical.
4	防颗粒状异物保护：同3中所述，防异物直径大于1mm。 Protection against solid objects larger than 1 mm (e.g. small objects such as nails, screws, insects).	4	防溅水保护：防止来自各个方向的溅水。 Protection against splashing water from any direction. No harmful effects when tested for at least 10 minutes with an oscillating spray (limited ingress permitted).
5	防灰尘沉积保护：防止接触，防止内部灰尘沉积。 Dust protected: partial protection against dust and other particulates (permitted ingress will not compromise the performance of internal components).	5	防射水保护：防止来自任意角度的冲射喷水（喷嘴）。 Protection against low-pressure jets. No harmful effects when water projected in jets from 6.3 mm nozzle, from any direction.
6	防灰尘进入保护：全面防止接触，防止灰尘进入。 Dust tight: full protection against dust and other particulates.	6	防强烈喷水保护：防止暂时性的淹水。 Protection against powerful water jets. No harmful effects when water projected in jets from 12.5 mm nozzle, from any direction.
		7	防浸水保护：防止暂时性的浸水。 Protection against full immersion at up to 1 meter depth for up to 30 minutes. Limited ingress permitted with no harmful effects.
		8	防潜水保护：防止长时间浸没时加压水进入。 Protection against immersion beyond 1 meter. Equipment is suitable for continuous immersion in water. The manufacturer may specify conditions.

M5系列 M5 SERIE

产品芯数：3、4芯

Pins number: 3-4 pins

插头：带电缆长度可任意定制

Plug: The length of cable can be customized

插座：板前安装 板后安装焊线及PCB板式

Socket: Front Mount Solder Type, Back Mount Solder Type and PCB board type

防水等级：IP65 IP67

Waterproof grade: IP65 IP67


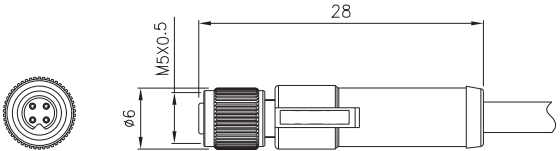

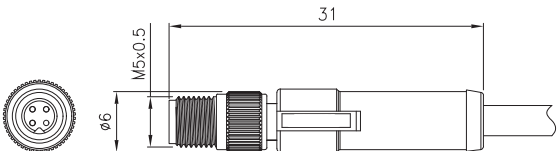

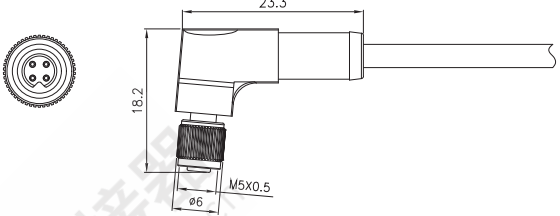

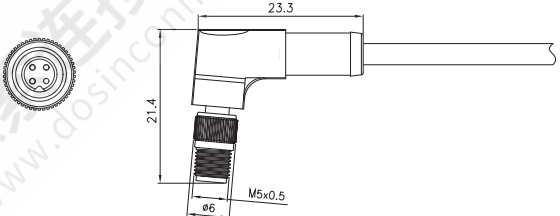

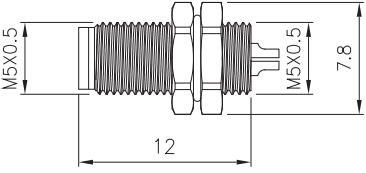
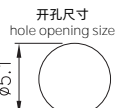

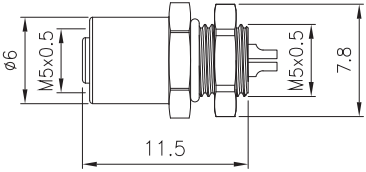


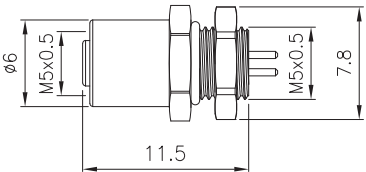


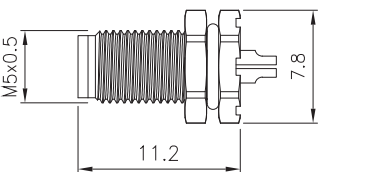

产品符合IEC 61076-2-105标准

The products comply with IEC 61076-2-105 standard



产品参数 PRODUCT PARAMETERS

壳体材料 Shell material	黄铜镀镍 Brass nickel plated	接触阻抗 Contact impedance	≤3mΩ
密封材料 Sealing material	环氧树脂/橡胶 Epoxy resin/Rubber	插拔次数 Durability	≥500次(Cycles)
插针材料 Contact material	磷铜镀金/黄铜镀金 Phosphorus copper gold-plated/Brass copper gold-plated	绝缘阻抗 Insulation impedance	≥100MΩ
胶芯材料 Insulator material	PA66	适用温度 Applicable temperature	-25°C ~ +85°C
成型材料 Molding material	TPU/PVC		

产品图 PRODUCT FIGURE	名称/类型号 NAME/TYPE NO.	尺寸图 DIMENSIONS
非屏蔽款/Unshielded 屏蔽款/Shielded 	直式孔型成型插头 M5 Straight Female overmolded plug M5-0001-04 0 0 00000 UNS: M5-0001 SHD: M5-0002 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	
非屏蔽款/Unshielded 屏蔽款/Shielded 	直式针型成型插头 M5 Straight Male overmolded plug M5-0003-04 0 0 00000 UNS: M5-0003 SHD: M5-0004 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	
非屏蔽款/Unshielded 屏蔽款/Shielded 	弯式孔型成型插头 M5 Angled Female overmolded plug M5-0005-04 0 0 00000 UNS: M5-0005 SHD: M5-0006 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	
非屏蔽款/Unshielded 屏蔽款/Shielded 	弯式针型成型插头 M5 Angled Male overmolded plug M5-0007-04 0 0 00000 UNS: M5-0007 SHD: M5-0008 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	
	板前安装针型插座 焊线式 螺钉M5x0.5 M5 Male Back Fastened Socket (Solder, Screw M5*0.5) M5-0009-03 0 0 00000 No. M5-0009 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	 
	板前安装孔型插座 焊接式 M5 Female Back Fastened Socket (Solder) M5-0011-04 0 0 00000 No. M5-0011 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	 
	板前安装孔型插座 PCB式 M5 Female Back Fastened Socket (PCB) M5-0012-04 0 0 00000 No. M5-0012 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	 
	板后安装针型插座 焊线式 M5 Male Front Fastened Socket (Solder) M5-0013-04 0 0 00000 No. M5-0013 3 4 1-PVC 2-PUR 3-TPU 4-RU 5-PTFE L (mm)	 



M5·电气参数 M5 ELECTRICAL PARAMETERS

M5·PCB芯位图 M5 PCB PINS ARRANGEMENT

针型
Male

M5·接线定义 M5 WIRE DEFINITION

3 芯 (Pins)4芯(Pins)

*接线定义按常规标准,
如按协议或者其他请联系我司业务。
Wiring definition according to conventional standards,
if according to the agreement or other please contact our sales.