



ODS' New Product Release | High-Speed M12 X-Code

To respond to the growing demand of Gigabit Ethernet becoming the standard in Industrial Networking, ODS Electronics introduces the NEW, "Ethernet CAT6A 10Gbps Ethernet M12 X-Coded Connectors." This NEW Product Family is ideal for high-speed data transfer and Industrial Applications as more video applications, sensors and other devices require faster, higher-volume voice, video and data transfer in harsh environment that may be subject to vibration.



Conforming to IEC 61076-2-109, this new series ensures connector compatibility throughout the world between different manufacturers. It features a full 360° metal shield connection point to ensure it is suited for use in harsh industrial environments. In addition, the robust design and industrial protection class IP67/IP68 (for the M12 sides), guarantee high network availability.

The initial offering of ODS' M12 Cat 6A includes overmoulded cable systems together with front fastened female receptacles. The receptacles can be mounted using THR (through hole reflow) technology. This allows for automated assembly, providing significant reductions in installation costs for the OEM.

General Specifications

Specification List	Receptacle	Overmoulded Cable
Contact Number	8P	
Contact Body	PA	
Terminal	Copper Alloy, Gold Plated	
Screw Nut	Brass, Nickel Plated	Zinc, Nickel Plated
Mating Style	Screw Thread	
Max Panel Thickness	4.5mm (Without Cap Chain)	-
Mode of Connection	Thru-hole (THT) Solder Receptacle w/ cable	-
Cable Construction	-	S/FTP 26AWG/ CAT6A 4P LSZH, UV Resistance

Specification List	Receptacle	Overmoulded Cable
Current Rating	0.5A	
Voltage Rating	AC 50V /DC 60V	
Insulation Resistance	≥ 100MΩ at DC 500V	
Operating Temperature	-40°C ~ +90°C	-20°C ~ +80°C
Salt Spray	48 hr.	
Protection Class	IPX8 (mated)	IPX7 (mated)
Mating Cycle	100	
Standard	IEC61076-2-109	



Applications



Industrial Automation



Transportation



Communications



Marine



Agriculture & Construction
Machineries



CCTV & Security

Contact our sales representative for further information or visit our website for more connector products that will surely meet your needs and expectation

About ODS



ODS Electronics Co., Ltd., established in 2011, is a professional designer and manufacturer of waterproof connector solution for harsh and rugged environment conditions. Our mission is to commit to our client's success by providing a competitive and the highest quality connector solution. This spirit is also shown in our logo 'ODS' which means Outdoor Solutions provider.

ODS has earned its reputation as a world-class supplier by consistently providing quality products, service excellence and aggressive delivery schedules. Each customer has a unique request and design, hence, flexibility is always our first concern. We help customers in solving troublesome logistics and design problems with excellent waterproof flexibility and competitive cost. It is this understanding that makes ODS grow. As ODS has its own factories, so our model functions can standardize and customize components and make deliveries on design basis. With this model, ODS brings greater speed, agility, quality and efficiency to every customer.



With a combined production space of over 10,000m² in our factories in China, we are able to exercise complete control over production schedules. Through close management among offices and factories, ODS could serve customers in dynamic ways but still consistently deliver quality products that adhere to strict quality standards.



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