

CORDSET COUPLING > FROM MOLEX

As technology continues to evolve, the need for automation is on the upsurge, increasing the demand for sensors, actuators and data connectors. High-speed production, continuous movement and rugged environments are inherent in automation, hence quick and reliable connectivity that can withstand challenging conditions is of prime importance. Molex leverages more than three decades of experience with automation infrastructures to deliver cordset coupling designs that meet the most stringent requirements.

INTRODUCTION

Why cordsets are critical to automation?

When space and time are in short supply, cordset coupling is the perfect solution, providing a quick-disconnect option for fast and efficient wiring. Cordsets also provide protection from EMI/RFI noise or egress and can withstand both corrosive cutting fluid and welding environments.

The main challenge is downtime, as cordsets can fail due to liquid or coolant ingress at the connection point, wire breakage due to over-flexing and wear from harsh environments.



HOW MOLEX HANDLES CORDSET CHALLENGES

Molex designers perform feasibility checks using advanced finite element analysis (FEA) simulation technology followed by a full range of electrical, mechanical, environmental and durability tests. Molex tests its cordsets beyond the required specifications, which ensures they can perform under rugged conditions.

Molex's decades of design experience, advanced software tools and cutting-edge technologies enable us to innovate high-quality designs for maximum performance and reliability in ultra-tough environments. We maximize our diverse technical experience and expertise to integrate various technologies and provide a complete media solution.

An overview of Cordset design cycle at Molex



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SOME OF THE MOLEX CORDSET FEATURES:

- 1 IP67/68/69K-rated protection, with radial O-rings that provide proven protection against water ingress and dust
- 2 Superior seal reduces intermittent signals and downtime for industrial operations and increases productivity
- 3 Patented “push-to-lock” technology ensures a fast and reliable connection with less fatigue for the operator
- 4 Wide selection of cable, pole and length in single- or double-ended configurations provides design flexibility
- 5 Uses a universal industry-standard M12 interface
- 6 Complete connection system with a series of integrated distribution boxes and cordsets offers a simple and secure operator-independent connection.
- 7 The new cordset system features Ultra-Lock technology, which eliminates connector-related production downtime and associated costs

APPLICATIONS

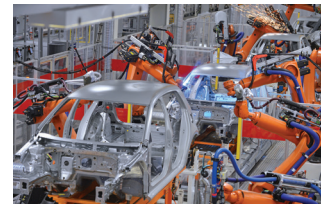
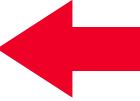
Cordset coupling has been employed extensively for factory automation, automotive production lines, conveying and sorting, robotics and any other automation infrastructure, and notably in the oil and gas and food and beverage industries. Molex has provided automation solutions to major OEMs across the world for decades, earning trust and a strong brand reputation. With our dedicated customer support teams, we help OEM customers choose the right cordsets as well as optimized infrastructure solutions for their application.



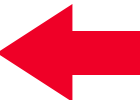
Industrial automation



Industrial electronics



Automotive electronics



THE MOLEX ADVANTAGE >

Molex uses top-notch simulation technologies and has decades of experience in designing connectors and cables for the automation applications. Partnering with Molex means one source for all connection system requirements. Molex's track record of testing, analyzing and consulting throughout product development means customers can rely on Molex for the best analysis and advice for all their projects.

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www.molex.com/capabilities/cordsetco.html

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