



RUGGED, ROBUST CONNECTIVITY

With dozens of complex processes happening every second, the last thing factory engineers want to worry about is a tiny connection coming unplugged. But worry they do, since a single broken connection can bring a production line to a grinding halt, costing a manufacturer thousands (even millions) of dollars in lost production time. To survive in the harsh environment of industrial manufacturing and warehouses, rugged and robust connectivity solutions are a must.

Connect it and forget it

There are several aspects important to manufacturers when it comes to “rugged” connectivity.

First and foremost, rugged connectivity is about ensuring the reliability of the production line. Manufacturers expect their connections to be stable and dependable, they expect the system to run. And after spending significant time and resources on a solution, customers want to feel assured that they do not have to worry about those connections until it comes time to disconnect it. The connections should take care of themselves.

“Rugged” in terms of reliable data connectivity is also critical. In a real-time system where every millisecond counts, customers do not want to retransmit their data packages over and over again. With the quantity of data increasing, and the volume of data being transported between devices and sensors and components ramping up, manufacturers require connections robust enough to consistently handle the constant stream of high-speed data transmission.

And, of course, as the name implies, customers expect “rugged” connectivity to be mechanically sturdy and tough, able to withstand the uncompromising vibration, shock, electromagnetic interference, and dust of the industrial environment. ▶

**ONE
BROKEN
CONNECTION**

A single broken connection can bring a production line to a grinding halt, costing a manufacturer thousands (even millions) of dollars in lost production time.

BUILT TOUGH

TE Connectivity specializes in connectivity solutions designed to withstand harsh industrial environments.

Heavy Duty Connectors

- Reliable data, signal and power connections even in a harsh environment
- Flexible modular design allows for customization to your specific application
- Integrates with different meeting requirements that connect the robot arm to the control cabinet



INTERCONTEC Connectors

- 150 A wire-to-wire connection ideal for teaching pendant units (TPUs)
- Robust die-cast housing provides excellent noise resistance
- Vibration resistant and durable for more than 500 cycles and in temperatures ranging from -20°C to 130°C
- Fast, reliable mating thanks to the quick-lock system
- IEC water resistant and dust resistant, IP67 compliant



Are you interested in learning more about TE Connectivity's expertise in rugged industrial robotics connectivity?

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