

High-precision delivery time for field male connectors

Article Overview

Field male connectors are designed for rapid deployment and high reliability, with field-replaceable options supporting hundreds of mating cycles and minimal contact resistance, enabling precise and durable connections in industrial and RF applications.

Connector Types and Field Readiness

Field male connectors come in various threading types (M8, M12, M23, SMA, etc.) and pole configurations, with straight or angled versions and pin or socket contacts, allowing customization for sensor-actuator cables or RF systems (Pepperl+Fuchs) . Field-replaceable SMA connectors support up to 500 mating cycles and operate from DC to 26.5 GHz, with integral grounding rings to maintain low contact resistance, making them suitable for high-precision applications . Precision RF connectors can operate up to 70 GHz, with minimal insertion loss and return loss, ensuring reliable signal integrity even in harsh environments .

Durability and Performance

High-precision field connectors are engineered for ruggedness and reliability, including resistance to vibration, high-speed movement, and environmental stress. Contact resistance is carefully controlled, and connectors are tested for mechanical and electrical stability over hundreds of mating cycles . Field-attachable connectors allow quick customization and replacement, reducing downtime and enabling rapid deployment in industrial or laboratory settings .

Estimating Delivery Time

While exact delivery times depend on the manufacturer, order quantity, and customization requirements, field-ready connectors are generally designed for fast installation and replacement, often available from distributors or directly from manufacturers with short lead times for standard configurations. For high-frequency or specialized connectors, lead times may extend slightly due to precision manufacturing and testing requirements .

Practical Considerations

- o Field-replaceable designs allow immediate replacement without soldering, reducing installation time.
- o High-frequency precision connectors maintain signal integrity, critical for RF applications.
- o Customization options (threading, pole count, angle) may slightly affect delivery time but ensure compatibility with existing systems.
- o Environmental durability ensures connectors perform reliably in industrial, military, or high-vibration



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applications. In summary, field male connectors are optimized for rapid deployment and high-precision performance, with robust mechanical and electrical characteristics. Standard configurations are typically available with short lead times, while specialized or high-frequency variants may require additional manufacturing time. Proper selection of connector type and field-replaceable options ensures minimal downtime and precise operation in demanding applications.

Pre-COVID, you could usually count on parts being delivered in four to six weeks, but today some of these lead times can now be

Connectors & Accessories INTRODUCTION Carlisle Interconnect Technologies (CarlisleIT) offers a wide portfolio of low-loss, high

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In addition to easy handling, our high-quality field connectors provide proven durability which you can rely on even in challenging

Our unwavering zero-defect policy guarantees the highest precision and reliability, all from a single source: from initial development

Product Description Introducing the RF Quick Coaxial Wave Connector SMA Type Push-Pull Adapter, a

Lead time trends for commercial and military electronic components, including capacitors, discretes, connectors, resistors and more.

Rosenberger precision connectors - engineered for high-frequency applications requiring top-tier quality,

Understand machining lead times, what drives them, and how to cut them fast. Complete 2026 guide with

Wide variety of connectors: from versatile circular connectors (M5 to M58), data, energy storage, and

The HUBER+SUHNER solderless compression mount connector portfolio is ideal for test and characterization boards, high-speed

With this many options, you always get the field connector that exactly suits your application. In addition to easy handling, our high



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Glenair's lead times typically range from immediate availability to a maximum of five weeks. Some of the reliable and rugged

Meanwhile, it also allows for easy assembly and high performance of connectors. From the standpoint of good

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