

Configurable D-Sub Connector Express



Spectrum Control's Configurable Connector Express™ with D-Sub Filtered Connectors enables rapid design of application-specific filtered connectors without traditional delays. By combining selective filtering, flexible mechanical options, and a web-based configurator, it delivers precise EMI performance while reducing lead times by up to **50% (16 → 8 weeks)**.



- **Designed for Speed:** Rapid online configuration and faster design cycles
- **Built for Flexibility:** Selective loading with broad electrical and mechanical options
- **Optimized Performance:** Right-sized filtering for signal integrity and improves EMI compliance
- **Lower Program Risk:** Fewer redesigns, improved schedules, and shorter procurement

Challenge	Our Solution	System Impact
Long lead times for custom connectors	Web-based configuration and ordering	Faster procurement and accelerated program timelines
Over/under-filtering from fixed designs	Selective loading	Optimized signal integrity and improved EMI compliance
Late-stage EMI failures and redesigns	Application-specific filtering	Fewer redesigns and faster path to compliance
Complex, manual configuration processes	Intuitive online configurator	Reduced engineering effort and fewer errors

Where Spectrum Delivers Value: a configurable interconnect solution that enables precise EMI filtering, accelerates system integration, reduces design risk, and improves compliance outcomes.

Applications



**Test &
Measurement**



**Electronic
Warfare**



**Command &
Control**



**Healthcare
Electronics**



**Industrial
Electronics**



Filtered D-Sub Connectors

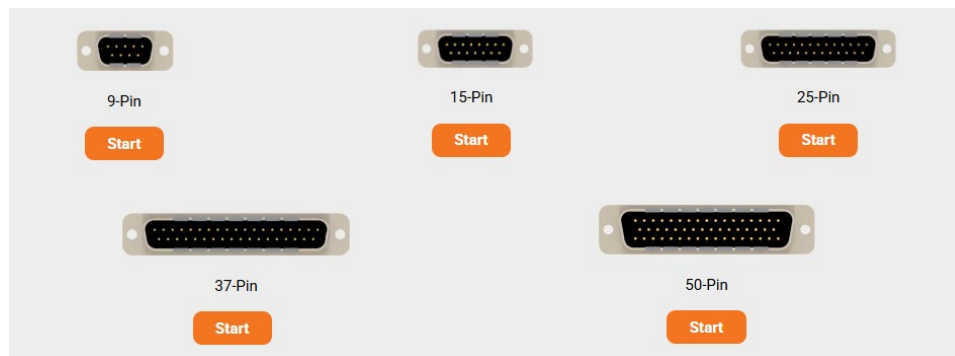


Delivers configurable EMI filtering with selective loading, enabling precise signal protection and system-level compliance across high-reliability applications

- Pi and C filter circuits
- Capacitance up to 4000 pF (Pi), 5000 pF (C)
- 9, 15, 25, 37 and 50 pin in straight and right-angle positions
- Mixed filtered/insulated contacts
- Pin to PCB, pin to solder cup, and socket to solder cup

Easy to Configure: 5 SIMPLE STEPS

1 Choose Shell Size Configuration



2 Choose Your Termination

- Pin to PCB – Straight
- Pin to PCB – Right Angle
- Pin to Solder Cup – Straight
- Socket to Solder Cup - Straight

3 Choose Your Options

- Threaded locking inserts
 - Stand-off with board lock
 - Grounding bracket
 - Grounding bracket with board lock
- *Available options vary by termination*

4 Configure Circuit Values for Each Pin

- 100 pF – Pi
- 310 pF – Pi
- 1000 pF – Pi
- 2500 pF – Pi
- 4000 pF – Pi
- 1000 pF – C
- 5000 pF – C
- Insulated Line

5 Submit for Quote



About Spectrum Control

Spectrum Control is a mission-focused technology company delivering innovative, adaptable solutions across RF, optical, power, digital, and EMI protection that go beyond specifications to support system performance and program success.

RF Signal Chain

Power/Protect/
Interconnect

Communications
& Data Layer

To learn more about these products or
Spectrum Control email us at
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Learn More 

