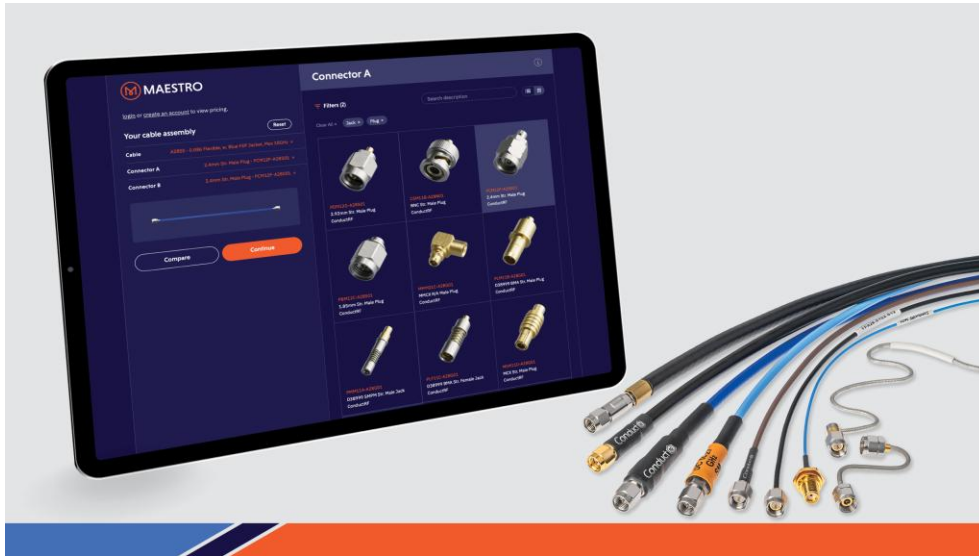


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ConductRF Expands MAESTRO™ RF Cable Composer into a System-Level Design Tool for RF Engineers



June 8, 2026 — Methuen, MA — ConductRF, an industry leading supplier of RF cable assemblies located at **IMS Booth 16095**, today announced the continued expansion of their MAESTRO™ RF Cable Composer, an advanced configuration platform designed to help RF engineers design, compare, and optimize RF cable assemblies to meet their complete requirements for RF and mechanical performance.

In example: an RF subsystem’s requirements call for a three foot long, .141” diameter “SMA cable assembly” that must perform efficiently at a maximum frequency of 18 GHz. The assembly also needs to be connectorized with straight, male plug SMA connectors. With MAESTRO, a user would set their cable length and maximum performance parameters, pick their connectors and cable, submit their assembly for composition and view in real time the assembly’s various high-level RF specifications.

The assembly is presented in a table which automatically offers other similar assemblies with which to compare against. In this fashion, an engineer can explore the frequency handling, insertion loss, VSWR, and shielding effectiveness tradeoffs of several .141” flexible, hand-formable, semi-flexible, *and* semi-rigid cables from various proven suppliers. Upon making a choice, they can instantly purchase the most optimal SMA cable assembly. (There is no set minimum quantity requirement and price breaks are offered as quantities increase.)

While many online cable builders focus primarily on selecting from one manufacturers’

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catalog of cable and connector parts, MAESTRO was developed to address a more fundamental challenge: helping engineers understand how various RF cables and connectors impact overall assembly performance, particularly when working within a defined frequency and loss budget. By enabling users to witness insertion loss with a given cable type, and connector interface—in reference to a cable’s length—the platform provides immediate visibility into how each design choice contributes to (or detracts from) signal integrity at the system level.

This approach reflects ConductRF’s broader philosophy around interconnect design. The company places strong emphasis on sourcing and utilizing only the most proven cable and connector technologies in the industry, paired with the engineering expertise required to match them and assemble them professionally.

From Static “Building” to Real-Time “Composition”

MAESTRO replaces the traditional process of flipping through one manufacturer’s cable and connector images, and then manually cross-referencing part numbers against others, with a dynamic, interactive environment that allows engineers to evaluate tradeoffs in real time. As cable configurations are composed, the platform not only generates a recommended cable assembly but also presents alternative solutions that may offer advantages depending on the application.

Users can sort and filter key electrical and mechanical parameters—including cable type (flexible, semi-flexible, hand-formable, and semi-rigid), frequency handling, insertion loss, VSWR, shielding effectiveness, dielectric material, and cable diameter—to quickly compare tradeoffs and identify the best-fit solution. The result is a more informed decision-making process that balances electrical performance with practical installation factors, rather than relying on assumptions or incomplete data.

Bridging Engineering and Procurement

Beyond design and evaluation, MAESTRO connects directly to an EZ cart e-commerce checkout for fast and efficient procurement, reducing the friction that often exists between engineering intent and purchasing execution. Registered users can view real-time pricing, download CAD/STEP files, and place orders directly within the platform, eliminating delays typically associated with quoting and specification validation.

Standard configurations are typically delivered within one to two weeks, supporting both rapid prototyping efforts and ongoing production requirements.

Connector Interfaces Available

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MAESTRO supports a broad range of RF and microwave connector types, including: 1.0 mm, 1.85 mm (V connectors), 2.4 mm, 2.92 mm (K connectors), 7/16, BNC, CBL, D38999, GPO, MCX, MMCX, N-Type, SMA, SMB, SMP, SMPM, TNC, VITA 67, and VITA 67 Nano.

Built on Proven Industry Components

A key differentiator of the MAESTRO platform is its foundation in widely trusted, field-proven components. In addition to high quality ConductRF brand connectors and cable, the platform supports assemblies composed with leading connector and cable manufacturers across the industry, ensuring exact build-to-print and optimal performance requirements.

Connector Manufacturers Supported

- Amphenol
- Corning Gilbert
- Molex
- Rosenberger
- Southwest Microwave
- SV Microwave
- TE Connectivity
- Times Microwave

Cable Manufacturers Supported

- Huber+Suhner
- Insulated Wire (IW)
- Times Microwave (including LMR® and T-Flex® product lines)
- Certified MIL-STD RG cable suppliers

ConductRF maintains a strict policy when it comes to RG cables, working exclusively with certified sources rather than “RG equivalent” constructions. This distinction is critical in applications where compliance, repeatability, and long-term reliability cannot be compromised.

Flexible Construction and Application-Specific Enhancements

Standard cable constructions available through MAESTRO include a range of jacketing options such as FEP, PTFE, PE, PVC, and Low Smoke Zero Halogen (LSZH), the latter being

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particularly important for naval platforms and enclosed environments requiring reduced smoke and toxicity.

For more demanding applications, ConductRF offers a range of custom enhancements that can be incorporated with minimal impact on delivery timelines. These include Nomex® and Kevlar® protective sleeving, waterproof and environmentally sealed constructions, and corrugated or crush-resistant designs for high-stress installations.

Additional configuration options—such as overmolded boots, molded strain reliefs, color-coded identification, heat shrink labeling, and laser or inkjet marking—allow assemblies to be tailored not just for performance, but also for installation efficiency, maintenance clarity, and lifecycle traceability. (Available by special order after composing base assembly within MAESTRO.)

A Practical Tool for Real-World RF System Design and Supply Chain Efficiency

By combining real-time data modeling, structured comparison, and direct procurement access, MAESTRO represents a shift in how RF cable assemblies are specified and sourced. It enables better decisions, faster timelines, and more predictable outcomes across engineering and procurement teams.

IMS Attendees are invited to stop by ConductRF's Booth 16095 to receive a personal demo of MAESTRO.

For more information, visit www.ConductRF.com

About ConductRF

ConductRF brings over 25 years of experience delivering high-performance RF cable assemblies—from flexible to semi-rigid—trusted in mission-critical military, defense, industrial, telecom, medical imaging, and test and measurement systems worldwide. Built on the principle of choice, ConductRF gives engineers the freedom to compose assemblies using proven cable and connector brands, alongside a growing line of standardized, e-commerce-ready solutions, including True VNA RF test cables. With typical delivery in two weeks or less, and 100% lot testing, the company ensures dependable performance and supply chain confidence. Their MAESTRO™ RF cable composer platform extends this advantage as a powerful engineering and procurement tool for specifying and ordering optimized RF cable assemblies.