

For Immediate Release



Extra-Long Length D38999 RF Test Cable Harnesses for Multi-path Signal Validation



June 11, 2026—Methuen, MA — ConductRF, a leader in high-performance RF cable assemblies, is expanding its capabilities in custom-engineered D38999 RF test cables and harnesses, designed to address one of the most persistent challenges in modern aerospace, defense, and advanced communications systems: efficiently testing multiple signal pathways within complex, tightly integrated platforms.

Built around the proven MIL-DTL-38999 circular connector architecture, these solutions transform the system interface itself into a powerful test access point—enabling access to multiple signal paths through a single interface.

Turning Complex Multi-Path Testing into a Single Connection

In today's platforms, the D38999 connector often serves as the central junction for RF, data, power, and fiber signals—condensing dense system architectures into a compact, rugged interface.

Testing those pathways, however, has traditionally been inefficient. Without a purpose-built solution, engineers are often forced into individual signal breakouts, custom fixturing, or partial disassembly. ConductRF's custom D38999 RF test cable assemblies eliminate that friction by allowing engineers to connect once and access multiple RF pathways quickly and reliably.

Engineered for Long-Length, Real-World Test Environments

Extending RF test cables to lengths of 30 feet and beyond introduces challenges such as signal loss and phase instability. An application challenge recently resolved by ConductRF, was a 30 ft long D38999 test cable for an aerospace subcontractor needing to test cockpit systems when test equipment was down on the tarmac.

ConductRF addresses these challengers with deep experience in creating low-loss cable designs, handling phase stability under movement, precision connector integration, and rugged mechanical construction.

Deep Expertise in D38999 Multi-Signal Integration

ConductRF integrates coaxial RF contacts, high-speed data, fiber optics, and power into single circular connectors across D38999 Series I, II, and III shells with over decades of expertise. These assemblies support frequencies from DC through 40+ GHz, with some configurations reaching 65 GHz.

Ruggedization for Mission-Critical Applications

Options include armored cables, overmolded strain relief, environmental sealing, abrasion-resistant jackets, and high-temperature designs.

Additional RF Test Cable Solutions From Precision VNA Testing to Lab Testing and Field Diagnostics

ConductRF also supports RF Test and Measurement customers with a family of True VNA test cables, solutions for Lab/Production RF Testing, and SiteFlex™ RF cables for portable test equipment used in the field.

For more information, visit www.ConductRF.com

About ConductRF

ConductRF brings over 25 years of experience delivering high-performance RF cable assemblies and interconnect solutions for mission-critical applications. Built on the principle of choice, the company provides both standardized and custom RF solutions utilizing proven cable and connector components from a broad ecosystem of qualified manufacturers. Product offerings span flexible,

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hand-formable, semi-flexible, Micro-Bend™, semi-rigid, ruggedized, low-loss microwave, and precision VNA and lab/production test cable assemblies.

ConductRF supports a wide range of RF and microwave connector interfaces including 1.0 mm, 1.85 mm (V), 2.4 mm, 2.92 mm (K), SMA, Type N, SMP, SMPM, MCX, MMCX, D38999 RF contacts, and VITA 67.3 architectures. The company also specializes in custom D38999 multi-signal harness systems integrating RF, fiber, power, and high-speed data technologies within ruggedized circular interconnect platforms.

With typical delivery in two weeks or less and 100% lot testing, ConductRF delivers dependable performance, engineering flexibility, and supply-chain confidence. Its MAESTRO™ RF Cable Composer platform extends this advantage by helping engineers compare, configure, and procure RF cable assemblies through an intelligent online design and sourcing environment.