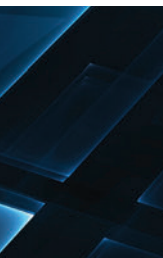


Military & Aerospace Interconnect Solutions



Winchester offers RF and Microwave Solutions from 50 KW to 50 GHz utilizing the industry's largest range of connector interfaces, from EIA to Micro Miniature SMPMs. Various cable types are available, including Low Loss, Crush Resistant, High Power, and Semi-Rigid. Winchester's product offering and technical expertise can solve virtually any RF and Microwave interconnect problem.

RF Connectors and Cable Assemblies

Cable Solutions

Low Loss

Low Loss and Phase Stable flexible coaxial cable assemblies operating up to 18 GHz with industry leading 83% Velocity of Propagation (VoP). Available with SMA, TNC, and N connectors.



TRUcore™

TRUcore™ series assemblies offer excellent RF and Microwave electrical performance combined with superior mechanical and environmental durability. TRUcore™ is available for 18, 26.5, 40, and 50 GHz broadband.



SRC 316 TS

SRC316 and SRC316-TS "Triple Shield" were designed to replace standard RG316, RG174, and RG188 for microwave antenna, test equipment, radar, and tactical applications. Both offer an advanced 'cross-linked' pre-treated dielectric and shielding above 110 dB. SRC316-TS also performs well up to 18 GHz.



SteelFlex®

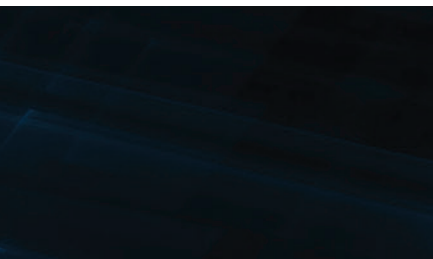
A flexible alternative to standard 085 coax (RG405) and 141 (RG402) semi-rigid coax. SteelFlex® is an excellent choice for electronic warfare applications, higher frequency test cables, and detachable interconnects that demand low attenuation in an affordable low loss flexible coax cable.



TRUflex™ PWR

TRUflex™ PWR flexible solutions for applications that require RF high power/voltage and reliable, high quality electrical performance. Connector interfaces include SC, N, HN, 7/16, EIA/MEIA, and Quick Disconnect SQS, QRM, and QDS.





Frequency Range DC - 50 GHz



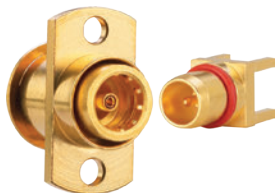
QC-SMA

Quick Connect SMA mates/unmates quicker than standard, threaded SMA without tooling. Backwards compatible to field-installed SMA jacks with a frequency range up to 18 GHz.



Ganged, Multiport

50 Ohm and 75 Ohm interconnects in multiple micro-miniature and sub-miniature interfaces as well as power, signal, and combinations of these types. We strive to provide the right solutions to solve our customers' challenging interconnect needs.



BMA Blindmate

Connectors designed for blindmate applications where multiple RF connectors need to be mated simultaneously. Unique first-make-last-break ground contact allows modular components and subsystems to be "hot swapped" in and out of a live system.



SMP

Subminiature high-frequency connectors with a push-on interface used in PCB-to-PCB or Cable-to-PCB applications.



18 GHz TNC, N, SMA

Connectors designed for use with IW Microwave's 1801, 2301, and 2801 low loss, lightweight cables. These connectors perform to 18 GHz with a low VSWR of <1.17:1.



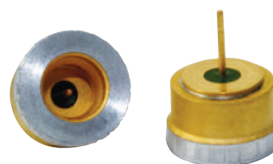
SMPM

Micro-miniature high-frequency connectors with push-on interface used in PCB-to-PCB or Cable-to-PCB applications; 30% smaller than SMP connectors.



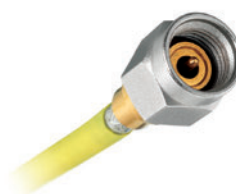
TNC-Keyed

Connector series with 24 different keying angles designed for applications where it is critical to ensure connectors are mated to the correct system port. Plug connectors feature an extended length coupling nut with a machined flat and keying rib. Jacks feature an extended length body with a keying flange that includes a machined flat and keying slot to mate to the plugs.



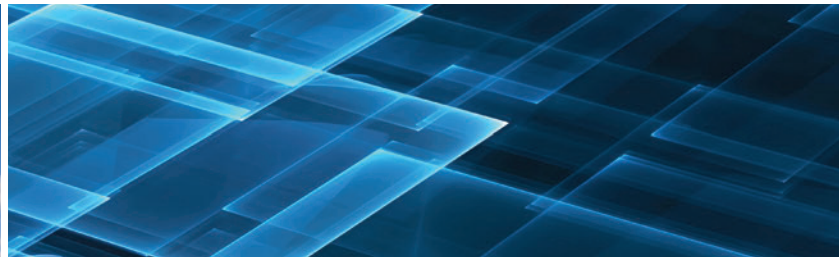
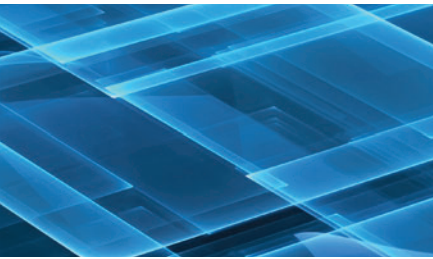
SMP/SMPM Hermetic Feedthroughs

Laser welded SMP and SMPM feedthroughs available in Stainless Steel, Aluminum, and Titanium with patented Press-In design.



2.92 mm

Precision SMK 40 GHz product ideal for demanding test environments that require high frequency transmission with low VSWR. Similar to the SMA interface, it has a smaller body ID and an air dielectric to achieve a significantly higher cutoff frequency. Cable plugs, panel receptacles, and adapters are available.



High-Power



7-16 Series

Highly ruggedized, threaded interface designed for high power/voltage applications. The 7-16 designation refers to the ratio of the inner and outer conductors and is governed by the IEC Standard 169-4 DIN 47223.



SC

Medium-size, threaded coupling version of the C connector; handling coaxial cables from .350" to .450" OD with a frequency range of 0 – 11 GHz. SC connectors are used in severe environments and are popular in aircraft and high vibration applications. They are manufactured IAW MIL-PRF-39012.



EIA

Flange connectors for use in high power transmitting installations (10s of kW to MW) where feedline diameters may be several inches. Common flange sizes include 1-5/8 (3 GHz max frequency) and 7/8 (6 GHz max frequency). EIA flange designs are commonly used in applications connecting high power antennas for ground or airborne radar.



QPL Approved

MIL-PRF-39012

Qualified to more than 600 part numbers—more than any other qualified supplier! Includes C, N, TNC, BNC, and SMA interfaces.



MEIA

A modified EIA interface design that replaces the standard flange mount configuration with a lightweight, threaded coupling that makes installation easier, reduces overall outer diameter space requirements, and retains the inner line size and power handling capability of the standard EIA interface.



MIL-PRF-49142

Seventy-five approved Mil Spec part numbers, including both TRB (bayonet) and TRT (threaded) series Triax connectors.



HN

A modified type N interface with overlapping dielectrics that provide greater power and voltage capabilities in a moderate line size. The modified interface does degrade the operating frequency of the standard type N interface to 4 GHz maximum.



MIL-PRF-55339

Mil Spec adapters, in- and between-series C, N, TNC, and BNC. Twenty-six approved Mil Spec part numbers.



MIL-C-17

Winchester is one of three approved, qualified MIL-C-17 semi-rigid cable manufacturers, producing cable to M17/129, /130, /131, /133, and /151.

Additional Capabilities

Hermetics

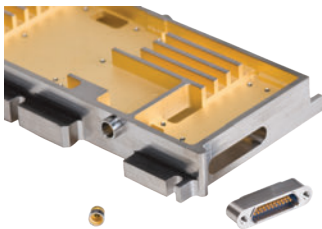
Hermetic Connectors

Exclusive dielectric material, Ceramax, Ceramic to Metal true hermetic Nano D, Micro D, Standard D and Military Circular connectors IAW Mil Specs including, but not limited to, M32139, M83513, M24308 and D38999.



Hermetic Microwave Packaging

Utilizing explosion/laser welding, vacuum brazing, and diffusion bonding technologies, Hermetic Microwave Packaging Solutions are available in Stainless Steel, Aluminum, Titanium, or any combination thereof.



Multi-Pin

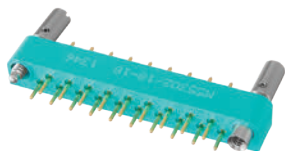
MIL-PRF-28748

Rack and Panel product line that is a comprehensive pin and socket style connector system available for cable-to-cable, cable-to-panel, and cable-to-board applications. The versatility allows for use in a wide variety of industries including industrial, military, aerospace, instrumentation, and telecommunications.



MIL-PRF-55302

Small, ruggedly constructed PCB pin and socket connectors. Available in right-angle and straight-thru versions.



Combo D-Subminiature

Combines Power, Signal, and RF in one connector housing, which is ideal when space is at a premium. Size 8 power contacts in 10 to 80 AMP versions.



Power

PowerSnaps/Mini PowerSnaps

Low-profile miniature connectors enable power in tight spaces. Available in cable, SMT and through-hole designs. AWG from size 8 to size 26.



Signal

MIL-C-5015

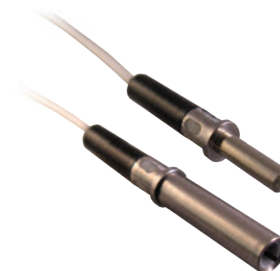
Reverse Bayonet multi-pin connector series is in accordance with the threaded versions of MIL-C-5015 and offers faster coupling and anti-vibration resistance.



Fiber Optics

EL Series™ Expanded Beam Contacts for Ruggedized Cable

Innovative EL Series™ Expanded Beam contacts use double alignment/protected lens technology providing a no-clean solution over traditional EB connectors. Currently available for Industry standard connectors, 38999, ARINC404, 5015, etc.; contacts available for customer termination.



Fiber Optic Cable Assemblies

Build-to-print Fiber Optic or Hybrid Fiber Optic to Copper Cable Assemblies using D38999, M28876, M83522, TFOCA, ARINC 404/600 and other industry standard Military and Aerospace connectors.





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Brands

