

RF CONNECTOR & CABLE SOLUTIONS

PEI-Genesis is your global partner for a broad range of interconnect and cable solutions, specializing in harsh environments and industrial applications. With over \$100 million of connector inventory from industry-leading manufacturers, our dedicated team of engineers and specialists provide superior standard and custom solutions.



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Amphenol® RF

Amphenol RF solutions include waterproof IP-rated, non-magnetic, QPL military approved, 12G SDI, ruggedized, board-to-board, low PIM, high-frequency, quick-locking, ultra-miniature and tamper resistant options.



Micro-Mode

A leader in RF and microwave components, catering to wireless communication, aerospace, and defense industries for over 50 years. Their extensive product line includes RF connectors, adapters, terminators, and tools, tailored for diverse applications.



Designs and manufactures RF/Microwave coaxial connectors, cable assemblies and passive components designed for military, IoT, 5G, satellite, high speed, aerospace, commercial and telecommunications applications.



Times Microwave designs and manufactures high-performance coaxial cables, connectors, and custom solutions for demanding applications such as aerospace, military and defense, wireless infrastructure, and more.



JOHNSON

The breadth of products available within the Johnson range includes board and cable mount connectors as well as semi-rigid, conformable, and flexible RF coaxial cables, with so many configurations available with same and between series adapters.

SEMFLEX











Semflex offers cost-effective solutions with a broad line of RF and microwave products, providing rapid turnaround time for new designs and high-quality products. The cable assemblies and connectors are specifically designed for optimal electrical, mechanical, and environmental performance.









MIDWEST MICROWAVE

Midwest offers a range of products for military and commercial applications, including Attenuators, Adapters, Terminations, Power Dividers, Couplers, and more. They also provide QPL-approved products in several series.

TROMPETER

Trompeter provides MIL-STD-1553B products such as couplers, connectors, cable assemblies, terminations, RFI caps, and adapters. They also supply Triax interconnect solutions for precision Test and Measurement applications and are a key supplier to the Video and Broadcast markets.

| Product | RF Band | Brands | Markets | Parametric Data | | | | | | |
|---|---|----------------------------------|---|----------------------|--|--|-----------------------------|---|--|------------------|
| | | | | Coupling Type | Impedance | Temperature Rating | Power handling | Insertion Loss | Cable Termination Style | Connector Family |
|  Twinax | Up to 200 MHz (extendable to 500 MHz with caution) | Amphenol RF Cinch - Trompeter | Broadband, Military, Instrumentation | Threaded, Bayonet | Non-Constant 50 Ohm (can be used with 50, 75, 93 Ohm) | -55°C to +85°C (PTFE) -45°C to +121°C (Rexolite) | Not rated | Not rated | Crimp, Solder | Standard |
|  UHF | Up to 300 MHz, Extendable to 1 GHz | Amphenol RF | Antenna, Military, DAS, Public Safety, Low Freq. Application | Threaded | Non-Constant 50 Ohm | -65°C to +165°C (-55°C to +85°C for Rexolite) | 500 W @ 100 MHz @ 25°C | Not rated | Crimp, Solder | Standard |
|  Triax | Up to 300 MHz (Triax-C) Up to 500 MHz (Triax BNC, TNC) | Amphenol RF Cinch - Trompeter | Industrial, Military, Instrumentation | Threaded, Bayonet | Non-Constant (can be used with 50, 75, 93 Ohm) | -55°C to +85°C (PTFE) -45°C to +121°C (Rexolite) | Not rated | Not rated | Crimp, Solder | Standard |
|  SMB | Up to 4 GHz, Extendable to 10 GHz | Amphenol RF Cinch - Johnson | Antennas, Telecom, Radio Boards, PC/LAN, GPS, Satcom, Base Stations, Instrumentation | Threaded, Push-On | 50 Ohm | -65°C to +165°C | 95 W @ 1 GHz @ 25°C | .30 dB @ 1.5 GHz Max (Straight) .60 dB @ 1.5 GHz Max (Right Angle) | Crimp, Clamp, PCB, Solder, End Launch | Sub-Miniature |
|  BNC | Up to 4 GHz, Extendable to 12 GHz | Amphenol RF Cinch - Trompeter | Wireless, SATCOM, Military, Medical, Broadcast, Telco, LAN, Instrumentation | Bayonet | 50, 75 Ohm | -65°C to +165°C | 316 W Max @ 1 GHz @ 25°C | 0.2 dB Max @ 3 GHz | Crimp, Clamp, Solder, Twist On | Miniature |
|  MMCX | Up to 6 GHz | Amphenol RF Cinch - Johnson | Antennas, Instrumentation, Satcom, Base Stations, Telecommunications, Broadband, GPS | Snap-On | 50 Ohm | -40°C to +90°C | 63 W Max @ 1 GHz | .1 √(f(GHz)) dB Max | Crimp, Solder, Press Fit | Sub-Miniature |
|  UMC | Up to 6 GHz | Amphenol RF Cinch - Johnson | PC, Wireless LAN, Mobile Phones, GPS, Bluetooth, Microwave Radio | Snap-On | 50 Ohm | -40°C to +90°C | 14W @ 1 GHz @ 25° | 0.1dB max @ 3 GHz, 0.15dB max @ 6GHz | PCB | Ultra-Miniature |
|  N | Up to 11 GHz, Extendable to 18 GHz | Amphenol RF | Antenna, Military, Instrumentation, Radar, Broadcast | Threaded | 50, 75 Ohm | -65°C to +165°C (-40°C to +85°C for Phosphor Bronze contact) | 300 W @ 10 GHz @ 25°C | 0.15 dB Max @ 9 GHz (straight) 0.30 dB Max @ 10 Gz (right angle) | Crimp, Clamp, Solder, PCB Mount, others | Standard |
|  TNC | Up to 11 GHz, Extendable to 18 GHz | Amphenol RF SV Microwave | Antenna, Industrial, Wireless, Military, Broadband | Threaded | 50, 75 Ohm | -65°C to +165°C | 316 W Max @ 1 GHz @ 25°C | 0.18 dB Max @ 9 GHz (straight) 0.21 dB Max @ 9 Gz (right angle) | Crimp, Clamp, Solder, Twist On | Miniature |
|  MCX | Up to 12 GHz | Amphenol RF Cinch - Johnson | WLAN, GPS, PC/LAN, Automotive, Base Station, Head End, Radios, Antennas, Instrumentation, Telecommunications | Snap-On | 50 or 75 Ohm | -65°C to +165°C | 95 W Max @ 1 GHz @ 25 °C | 0.10 db Max @ 1 GHz | Crimp, PCB, Solder, End Launch | Sub-Miniature |

| Product | RF Band | Brands | Markets | Parametric Data | | | | | | |
|---|--------------------------------------|--|---|---------------------|-----------|--|-------------------------|--------------------------|-------------------------------------|------------------|
| | | | | Coupling Type | Impedance | Temperature Rating | Power handling | Insertion Loss | Cable Termination Style | Connector Family |
| SMA  | Up to 18 GHz, Extendable to 34 GHz | Amphenol RF SV Microwave Cinch - Johnson | Antenna, Instrumentation, Wireless, PC/LAN | Threaded | 50 Ohm | -65°C to +165°C (-40°C to +85°C for Phosphor Bronze contact) | 75 W @ 10 GHz @ 25°C | 0.06 √(f(GHz)) dB Max | Crimp, Solder | Sub-miniature |
| BMA  | Up to 22 GHz | SV Microwave | Military, Aerospace, Microwave applications | Push-On, Snap-On | 50 Ohm | -65°C to +165°C | Not rated | Not rated | Crimp, Solder, PCB Mount, others | Sub-miniature |
| SMP  | Up to 26.5 GHz, Extendable to 40 GHz | Amphenol RF SV Microwave Micro-Mode Cinch - Johnson | Antenna, Instrumentation, Military, Broadband, Medical, Quantum Computing | Push-On, Snap-On | 50 Ohm | -65°C to +165°C | 32 W @ 1 GHz @ 25°C | 0.1 √(f(GHz)) dB Max | Crimp, Solder, PCB Mount, others | Sub-miniature |
| SMPM  | Up to 26.5 GHz, Extendable to 65 GHz | Amphenol RF SV Microwave Micro-Mode Cinch - Johnson | Antenna, Instrumentation, Military, Broadband, Medical, Quantum Computing | Push-On, Snap-On | 50 Ohm | -65°C to +165°C | 16 W @ 1 GHz @ 25°C | 0.1 √(f(GHz)) dB Max | Crimp, Solder, PCB Mount, others | Micro-miniature |
| SMPS  | Up to 26.5 GHz, Extendable to 65 GHz | SV Microwave Micro-Mode | Military, Aerospace, Board-to- board, High-density multiport, Instrumentation | Push-On, Snap-On | 50 Ohm | -65°C to +165°C | Not rated | Not rated | Solder | Micro-miniature |
| 2.92mm  | Up to 40 GHz | SV Microwave Cinch - Johnson | Military, SATCOM, Microwave, Instrumentation, Quantum computing | Threaded | 50 Ohm | -65°C to +165°C | Not rated | Not rated | Solderless, Solder | Sub-miniature |
| 2.4mm  | Up to 50 GHz | SV Microwave | Military, Aerospace, PCB, High- density multiport, Instrumentation | Threaded | 50 Ohm | -65°C to +165°C | Not rated | Not rated | Solderless, Solder | Sub-miniature |
| 1.85mm  | Up to 65 GHz | SV Microwave Cinch - Johnson | Military, Aerospace, SATCOM, Test & Measurement | Threaded | 50 Ohm | -65°C to +165°C | - | .04 √ f (GHz) dB max | PCB, Solder, End Launch | Sub-Miniature |