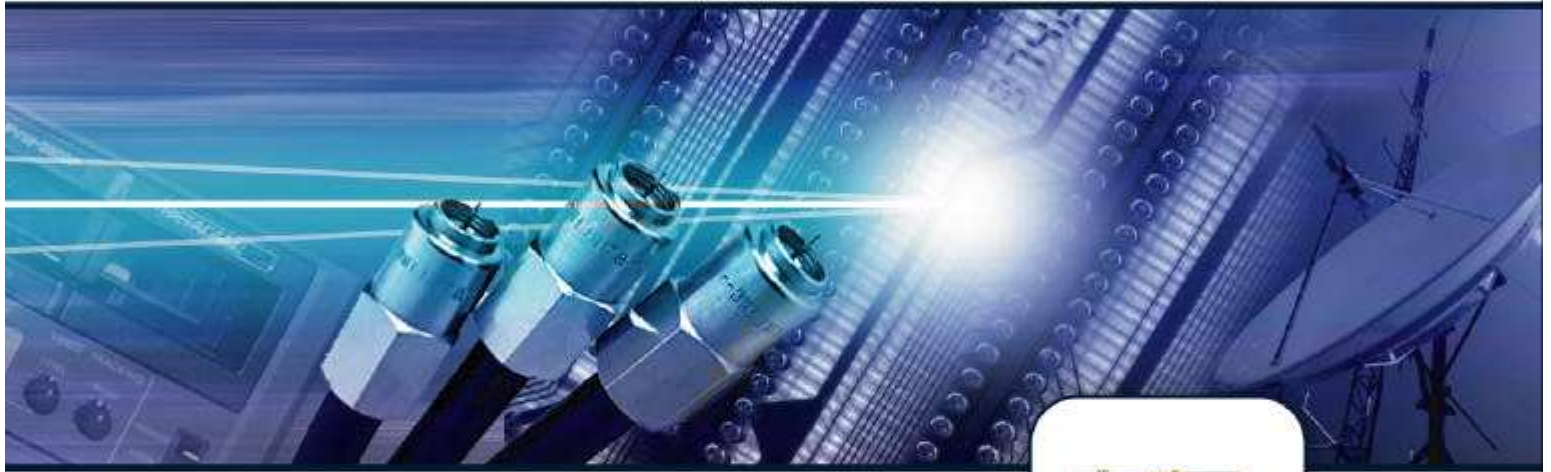




**COMMUNICATION
DEVICES** a division of EDAC Inc.

High Volume Products and
Custom Engineered Solutions



**PRODUCT CAPABILITIES
SELECTION GUIDE**

Communication Devices ("CDD") has extensive experience and success in the design and engineering of RF interconnect products for both custom and high volume applications. We combine the advantages of our North American engineering team with our Asian-based high-volume manufacturing capability. This combination produces parts that have been manufactured economically while being engineered to the strict standards of North America and Europe. The result is high quality and low price. CDD can often produce custom products faster and cheaper than other manufacturers can for their standard products, and we will often design custom solutions to those who cannot get custom product from their traditional suppliers. CDD can also provide cost-effective superior-quality solutions across a broad range of well-known RF product families. We perform the entire process, from initial design and drawings, through to tooling, programming, machining, production, assembly, marking, quality control, packing, and shipping. We deal directly with OEMs and subcontractors around the world, and have a network of independent representatives to assist us in product design and local support.



Communication Devices is committed to providing its customers with products that are of a high quality, are competitively priced, and delivered on time. Our quality control commitment is utilized throughout our operations under ISO 9001:2000. We have an experienced team of quality assurance technicians based in both Asia and North America. All products manufactured and exported from Asia are tested twice through two separate facilities - one in Taiwan and one in Canada - to ensure that the products meet rigorous North American and European quality standards. Communication Devices also has additional capacity and quality-approved subcontracting resources readily available through a network of long term manufacturing partnerships that span across the globe.

Our extensive customer support system includes dedicated inside sales, free factory samples, and highly trained field support. We work in partnership with many contract manufacturers to ensure that the product that is designed into your assembly is the one that is used by your subcontractor during the mass production process - ensuring that Communication Devices quality extends into your final end product.

If you require a high-volume and/or custom solution for an RF interconnect device, just give Communication Devices a call. Please view the product families in this brochure to see what we do best. All of these families have a range of standard products that are manufactured only for high volume consumption, with a typical minimum order of 1,000 pieces. All of these products can be customized to your needs by our factory network, and delivered to your door anywhere in the world.

Engineered RF Solutions

BNC

SERIES 921



Standard UG bayonet type BNC connectors are available in clamp, twist-on, crimp, solderless and quick crimp versions for cable, as well as panel, bulkhead, and terminator versions. Female PCB, crimp, and right angle variations are also available.

- Brass or diecast body
- Delrin or teflon insulation
- 50 or 75 ohm impedance
- Frequency range 0 to 4 Ghz
- Rating 500 Volts rms peak
- Dielectric withstand 1500Vrms
- VSWR 1.3 @ 4 Ghz (straight)
- VSWR 1.5 @ 4 Ghz (angle)
- Min Insertion loss 0.2db

UHF

SERIES 926



The UHF series has been the standard low-cost connector for the radio industry for the past 60 years. Cable styles are available in crimp, clamp, and twist-on. There are also panel and bulkhead types. A variety of adaptors allow for mating with other series.

- Brass or diecast body
- PTFE, PBT, Delrin insulators
- No matched impedance
- Frequency range 0.6-300 mhz
- Rating 500 volts rms peak
- Dielectric withstand 1000Vrms
- VSWR 1.3 @ 1 Ghz (straight)
- VSWR 1.5 @ 1 Ghz (angle)
- Min Insertion loss 0.3db-0.6db

1.6 / 5.6

SERIES 931



This metric thread European series allows for dense connector packaging due to its small size. PCB types include male and female in straight or right angle. Cable styles include clamp or crimp types. Bulkhead, F and Y adaptors are available.

- Nickel/gold plated brass body
- PTFE insulation
- 75 ohm impedance
- Frequency range 0 - 3 Ghz
- Rating 330 volts rms peak
- Dielectric withstand 500Vrms
- VSWR 1.3 @ 1 Ghz (straight)
- VSWR 1.5 @ 1 Ghz (angle)
- Min Insertion loss 0.3db-0.5db

1.0 / 2.3

SERIES 933



This latest microminiature series allows for a PCB footprint as small as 6.35mm square. Plugs are push-lock crimp types for cable use only. Jacks are either PCB with 2 or 4 mounts or a bulkhead crimp. All styles are available in straight and right angle.

- Nickel/gold plated brass body
- PTFE insulation
- 50 or 75 ohm impedance
- Frequency range 0 - 3 Ghz
- Rating 330 volts rms peak
- Dielectric withstand 500Vrms
- VSWR 1.3 @ 1 Ghz (straight)
- VSWR 1.5 @ 1 Ghz (angle)
- Min Insertion loss 0.3db-0.5db

Your global supply chain leader for high

TNC

SERIES 925



TNC is the 7/16 threaded version of the BNC series which over the past 40 years has become a standard for vibration resistance in radio and telecom applications. It is available in PCB, twist-on, clamp, crimp, panel, chassis and bulkhead styles.

- Brass or diecast body
- Delrin or teflon insulation
- 50 or 75 ohm impedance
- Frequency range 0 to 4 Ghz
- Rating 500 Volts rms peak
- Dielectric withstand 1500Vrms
- VSWR 1.3 @ 4 Ghz (straight)
- VSWR 1.5 @ 4 Ghz (angle)
- Min Insertion loss 0.2db

N

SERIES 941



Type N connectors have long been established as the standard for microwave use, and can fit many RG sizes. Plug and jacks are available in bulkhead, cable crimp or clamp, panel crimp or solder styles, as well as types for semi-rigid cable.

- Brass or diecast body
- PTFE insulation
- 50 ohm impedance
- Frequency range 0 to 11 Ghz
- Rating 1500 Volts rms peak
- Dielectric withstand 2500Vrms
- VSWR 1.3 @ 11 Ghz (straight)
- VSWR 1.5 @ 11 Ghz (angle)
- Min Insertion loss 0.3db-0.6db

SMA

SERIES 951



Subminiature A threaded connectors combine outstanding mechanical durability with a very small size. Their popularity has resulted in an extensive range of styles for PCB, panel, bulkhead and cable use, including reversed polarity.

- Nickel/gold, brass/NMSS body
- PTFE insulation
- 50 ohm impedance
- Frequency range 0 - 12 Ghz
- Rating 375 volts rms
- Dielectric withstand 750Vrms
- VSWR 1.3 @ 2 Ghz (straight)
- VSWR 1.5 @ 2 Ghz (angle)
- Min Insertion loss 0.3db-0.6db

SMB / SMC

SERIES 981 / 961



SMB snap-on and SMC 10/32 threaded units are smaller versions of SMA. There is a wide variety of PCB styles, including jack or plug in either straight or right angle. Cable and bulkhead types have crimp termination and semi-rigid types are available.

- Nickel/gold over brass or 626
- PTFE insulation
- 50 or 75 ohm impedance
- Frequency range 0 - 4 Ghz
- Rating 335 volts rms
- Dielectric withstand 750Vrms
- VSWR 1.3 @ 1.5 Ghz (straight)
- VSWR 1.5 @ 1.5 Ghz (angle)
- Min Insertion loss 0.3db-0.6db

High volume and custom applications.

MCX / MMCX

SERIES 955 / 956



The MCX is 30% smaller than an SMB connector yet retains the same snap-on capability. The MMCX is even smaller, with a jack outside diameter of just 3.5mm, making it the smallest RF connector to date. PCB, bulkhead and cable styles are available.

- Nickel/gold over brass or 626
- PTFE insulation
- 50 or 75 ohm impedance
- MCX 4 Ghz; MMCX 6 Ghz
- MCX 335v. MMCX 170vrms
- Dielectric withstand 500Vrms
- VSWR 1.15 @ 4 Ghz MCX
- VSWR 1.4 @ 6 Ghz MMCX
- Min Insertion loss 0.3db-0.6db

F / CATV

SERIES 971



The F type connector is extremely economical and has been widely adopted for CATV use. The F59 has been augmented by various crimp, twist-on, bulkhead, and PCB styles for both plug and jack, as well as by attenuators and adaptors such as the F81.

- Brass or diecast body
- PTFE, PBT, Delrin insulation
- Non-constant impedance
- Frequency range 0 - 300 mhz
- Rating 500 Volts rms peak
- Dielectric withstand 1000Vrms
- VSWR 1.3 @ 1 Ghz (st)
- VSWR 1.5 @ 1 Ghz (angle)
- Min Insertion loss 0.3db-0.6db

SERIES ADAPTERS

SERIES 991



CDD has hundreds of adaptors available, including plug to plug, jack to jack, plug to jack, series to series, and multiple hookup types. CDD can manufacture a wide range of custom styles to suit your needs, including mates to non-RF connectors such as RCA.

- SMA to BNC, TNC, UHF, N
- BNC to F, N, TNC, UHF, RCA
- F to RCA, PAL, TNC, 3.5 MM
- European to American
- Right angle, T and F trees
- Adaptors for bulkheads
- Panel mount adaptors
- 2 and 3 way adaptors
- Custom PCB variations

CABLE ASSEMBLIES

SERIES 928



All CDD RF cable connectors can be used to make custom cable assemblies, including simple assemblies in high production volumes. Our engineering team can specify the required cable to meet your needs that exactly match our connectors.

- Flexible or semi rigid cable
- Custom lengths
- Single ended versions
- Custom markings
- Engineered solutions
- Breakout variations
- Patch cords
- Overmolded end caps
- Shielding options



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COMPLETE LIST OF CDD PRODUCT FAMILIES

921	Series BNC RF brass	937	Series IEC
922	Series BNC RF die-cast	941	Series N
923	Series BNC RF dual	951	Series SMA
925	Series TNC	954	Series SMZ
926	Series UHF	955	Series MCX
927	Series Mini-UHF	956	Series MMCX
928	Cable Assemblies	961	Series SMC
931	Series 1.6 / 5.6	967	Series SSMT
933	Series 1.0 / 2.3	971	Series F
934	Series 5 / 8	981	Series SMB
935	Series 7 / 16	991	Adaptors

