

# Selecting the Series to meet your needs

 **Sure-Seal® — Small, low cost, and reliable.** A one-piece resilient body and rugged, multiple moisture seals make Sure Seal connectors a natural for applications where outside contaminants must be excluded. Only two parts are required to complete a Sure Seal connector: the connector and the contacts. It is used in environmental applications where a small, low-cost connector is needed. These sealed connectors meet DOT requirements. Available in three versions: the basic Sure Seal, Mini-Sure Seal, and Power Sure Seal connectors.

**Features include:** Low installed cost ■ Resistant to automotive/industrial environments ■ Field serviceable ■ Polarized against mismates

 **Clip Lock Circular — User friendly and built to last.** Designed to meet the demanding requirements of under-the-hood applications, Clip Lock Circular (CLC) connectors can also be used anywhere you need a small, positive locking, two- or four-circuit sealed connection. Audible and tactile feedback make the CLC connectors extremely user friendly and great for marine use, valves, off-highway vehicles, and automotive harnesses.

**Features include:** Extremely small size ■ Optional Terminal Position Assurance (TPA) ■ Strong resistance to environmental contaminants ■ Low cost design

 **Slide Lock Circular — Easy to assemble and maintain.** Slide Lock Circular (SLC) connectors meet the most demanding requirements of under-the-hood applications, yet are easy to assemble and maintain. The user friendly design features audible and tactile feedback, and excels in engine electronics, instrumentation, in-line connections, and sensors.

**Features include:** High quality circular connector ■ Shared tooling ■ Convertible mounting ■ Strong connector slide locks

 **Slide Lock Environmental — Designed for demanding, under-the-hood applications.** Ideally suited for easy printed circuit board layout, the rectangular-shaped Slide Lock Environmental connector is built to withstand the rigors of engine electronics, automotive CPUs, and instrumentation. Unmating is as simple as depressing the slide locks simultaneously and pulling back on the connector body.

**Features include:** Rectangular connector bodies ■ Keyable connector bodies ■ Clamshell-style plug, cable clamps ■ Strong connector slide locks molded into connector bodies

 **APD — Rugged, high performance connectors at a low-total applied cost.** Originally designed to meet European DIN 72585 requirements for use in the heavy duty trucking industry, APD connectors are finding their way into industrial equipment. Resistant to brake and transmission fluids, oils, greases, salt, dirt, and mud, APD's maintain their integrity in the roughest of environments. High performance features make APD's excellent for use in sensors, ABS brake control, valve actuators, magnetic vehicle control systems, and vehicle use monitoring equipment.

**Features include:** Rugged, extremely resistant plastic housings ■ Three-point, bayonet couple system ■ Color-coded mated pairs ■ Multiple cable handling options

 **Trident Ringlock, Trident Neptune, and Trident Neptune Metal — Small, low cost, and reliable.** Trident circular connectors are a cost-effective, reliable, and aesthetically pleasing method of making connections to and from an electronic package. There are three Trident versions: Trident Ringlock is used in applications where moisture is not a problem; Trident Neptune is for applications requiring complete moisture sealing; the new Trident Neptune Metal adds such features as RF shielding and a strong, all-metal housing. Typical Trident applications include trucks and buses, off-road vehicles, and control cables.

**Features include:** Strong, lightweight, low cost ■ Submersible or waterjet-proof versions ■ Standard and reverse connector housing ■ Signal contacts, coax power contacts

 **Standard-K — Lightweight, reliable, and economical.** Standard-K is the most enduring, quick-disconnect connect ever developed for the electronics industry. Over sixty-five years of flawless service has proven the Standard-K to be rugged, reliable, lightweight, and economical. Standard-K insulators offer resistance to chemicals, superior electronic insulating properties, and excellent dimensional stability. Assembly of the connector is simple and foolproof, using a soldering iron and a screwdriver.

**Features include:** Proven design ■ Superior materials ■ Variety of shell sizes ■ Quick-connect/disconnect ■ Simple assembly and termination

 **CA/MS-E/F/R — Standard MS Circular to MIL-DTL-5015.** ITT Cannon threaded connectors CA/MS, classes E/F/R are designed and manufactured to MIL-DTL-5015 specifications to operate in harsh environmental conditions. These popular connectors are well-suited to commercial applications where a low cost, yet extremely rugged connector is required. These connectors are completely sealed to withstand moisture, condensation, vibration, and flashover.

**Features include:** Rugged shell ■ Full military temperature range ■ Resilient insulator and grommet

  **CA-Bayonet — Rugged with a quick-mating bayonet lock.** CA-Bayonet is basically a MIL-DTL-5015 connector, but with an improved, reverse bayonet coupling system. Originally designed for NATO combat vehicles, aircraft and airborne equipment, these rugged connectors are now widely used in a broad range of commercial applications where resistance to harsh environments and ease of mating is important. Typical applications include off-road vehicles, rail, mass transit, earthmoving equipment, industrial machinery, power generators, and battery systems.

 **KPT/KPSE — High-density contact arrangements in a miniature circular metal shell.** The connector is environmentally sealed and comes in two versions: a solder contact version (KPT) and a high performance, crimp-contact version (KPSE). Both conform to MIL-DTL-26482 specs and use a quick-disconnect bayonet coupling for rapid, positive mating and unmating of the connector. Typical applications include engines, and mobile equipment.

**Features include:** Rugged shell ■ Environmentally sealed ■ Resistant to military environments ■ Resilient insulator and grommet



**PV — Designed for use in demanding, high-reliability environments.** Used extensively in the high-reliability world of the aerospace industry, MIL-DTL-26482 Series 2 connectors use a quick-mating, three-point, bayonet coupling system. Designed to withstand the harshest of environments, these connectors also feature the field-proven, ITT Cannon LITTLE CAESAR® contact retention clip and high-quality silicone seals. Typical applications include commercial and military aircraft, high-temperature industrial equipment, instrumentation, and avionics.

**Features include:** High-quality, Little Caesar contact system  
 ▪ Wide range of cable accessories (including military standard)  
 ▪ Broad operating temperatures ▪ Rear contact insertion and release system ▪ Cork-in-a-bottle-interfacial seal system



**KJL — High density contact arrangements in a miniature shell.** Originally designed for the demanding requirements of today's high performance military and commercial aircraft, these connectors are finding their way into applications needing extremely reliable interconnections. Typical applications include high-performance military aircraft, commercial airlines, armored personnel carriers and tanks, missiles, medical instrumentation, and shipboard use.

**Features include:** Quick mating ▪ Shielded interconnect  
 ▪ Many contact layouts and styles ▪ Corrosion resistance  
 ▪ High-quality military contacts ▪ Full-metal, contact-retention clips ▪ Wide operating temperature range



**KJ — High-density contact arrangements in a low-profile, miniature circular shell.** Designed for use in military vehicles where more and more electronics systems are being packed into the same physical space leaving less room for interconnect devices. Typical applications include high-performance military aircraft, commercial airlines, communications equipment, sophisticated test equipment, missiles, and shipboard applications.

**Features include:** High reliability ▪ Low-profile connector design  
 ▪ Lightweight ▪ Extreme operating temperatures ▪ High-density connectors ▪ Quick-mating coupling systems ▪ Broad range of military and commercial accessories



**KJA — High-density contact arrangements in a miniature circular shell.** Originally designed for the especially demanding requirements of today's high performance military and commercial aircraft, KJA connectors are finding their way into applications needing extremely reliable interconnections. Typical applications include high-performance military aircraft, commercial airlines, communications equipment, missiles, and shipboard use.

**Features include:** High reliability ▪ Outstanding EMI shielding protection ▪ Extreme operating temperatures ▪ High-density connectors ▪ Self-locking connector systems ▪ Broad range of military and commercial accessories ▪ Contact retention clips



**MIKO — Rugged, lightweight connector offering high performance in a small package.** Microminiature Quick-Disconnect connectors feature a simple, push-pull locking coupling system that makes mating quick and easy. Typically used on panel-to-cable applications, MIKO's are typically used in medical equipment, avionics, test sets, head sets, communications equipment, and high-reliability cameras. The connectors feature a POSALINE MicroPin system that offers uncompromising performance in downsized interconnects and a fully-recessed, beryllium-copper pin in the insulator for positive contact alignment.

**Features include:** Push-pull coupling ▪ High-density, 0.050" spacing ▪ Front and rear panel mounting ▪ Pre-wired for easy assembly ▪ Fully potted wires for sealing and strain relief



**MIKM — Rugged, lightweight connector in a small package.** These microminiature, threaded connectors use a high-quality, stainless steel housing with a threaded coupling system. The connectors feature a POSALINE MicroPin system that offers uncompromising performance in downsized interconnects and a fully-recessed, beryllium-copper pin contact in the insulator for positive contact alignment. Applications include medical equipment, avionics, communications equipment, and high-reliability cameras.

**Features include:** Stainless steel housings ▪ High-density, 0.050" spacing ▪ Strong, threaded-coupling system ▪ 100% electrically tested ▪ Pre-wired for easy assembly ▪ PC mounting ability ▪ Fully potted wires for sealing and strain relief



**MDSM — High-density, shielded connectors for today's commercial industry.** This commercial version of the popular MIL-DTL-83513 connector is constructed with UL-approved, 94V0 material and offers a high-density connector with 0.050" center spacing. MDSM's rugged construction and unique contact design make it the right choice for such applications as lap-top/handheld (palmtop) devices, bar code readers, commercial avionics, computers, cellular phones, LAN routers, and industrial automation equipment.

**Features include:** Space saving 0.050" pitch ▪ Fully shielded for EMI/RFI reduction ▪ Reeled crimp contacts for automatic applicators ▪ PdNi contact plating for 10,000 mating cycles  
 ▪ Push-pull or thumbscrew hardware for easy securing



**MDM — High strength and lightweight with an extremely small interconnect.** These MIL-DTL-83513-style, Microminiature D connectors are now being used in applications where standard D-Sub connectors had been used. With a unique, twist-pin design and eight different shell sizes, MDM's are used in a wide range of applications including medical equipment, satellites, robotics, bar code scanners, handheld testers, and navigation systems.

**Features include:** High-strength, lightweight aluminum shells  
 ▪ Extremely small interconnect ▪ Unique, twist-pin and solid-tube socket ▪ Total environmental sealing silicone interfacial shields and epoxy-potted contacts ▪ Pre-wired for fast, easy assembly



**D-Sub — A variety of styles and accessories makes this an economical solution to many interconnect problems.** The ITT Cannon D-Subminiature family of connectors includes a wide variety of styles, options and accessories that make it ideally suited for both commercial/industrial and military/aerospace applications. D-Sub connectors can also be used in a multitude of applications ranging from office equipment to satellites.

**DL/DLD/DLM — Economical and versatile, high-density connectors.** These very versatile, high-density connectors offer an economical interconnect solution for unique applications with a wide variety of sizes and accessories. The Zero Insertion Force (ZIF) connectors guarantee that there's no buildup of mating force typically associated with high pin-count-style connects, making mating and unmating as easy as twisting a handle. The new, DLM shielded metal-shell connector offers a stronger, lightweight aluminum housing that is nickel plated for maximum shielding effectiveness. DL connectors can be found in a variety of applications including medical, sound, lighting, avionics, automotive electronics, robotics, and entertainment equipment.

**Features include:** True ZIF connectors ▪ Long mating life  
 ▪ High pin count ▪ Wide selection of terminations ▪ Nickel plated aluminum housings ▪ Contact wiping