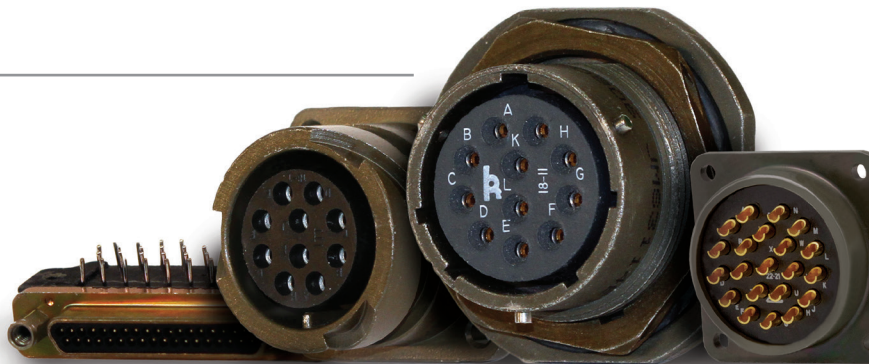


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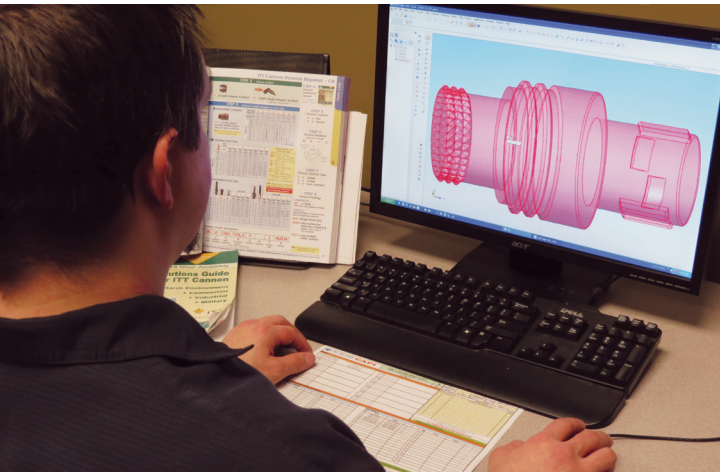
ITT

**CONNECTOR
SOLUTIONS GUIDE**



HARSH ENVIRONMENTS • COMMERCIAL • INDUSTRIAL • MILITARY





PEI partners with customers to design engineered solutions that meet specific application requirements and then delivers with speed, service and consistent quality that is unmatched in the industry.

PEI offers custom cable harness design services and assembly. PEI's Engineered Solutions Group can design and build custom cable assemblies from its extensive inventory of connectors, as well as, leverage its 40-plus years of connector expertise. The PEI team engages customers early in the design process and partners through delivery and optimization.

When it comes to the world of connectors and cable there is a vast array of manufacturing options. Because these products are not the primary driver in a design, they are typically considered late in the design cycle. That tendency, when coupled with long lead times, can cause a disproportionate share of delays and aggravation.

PEI-Genesis will solve your design challenges. We will save you time by allowing your engineering team to focus solely on critical design elements. We will engage with you early in the design cycle, give you access to engineers around the world, provide design tools and methodology, and bring world-class expertise to your application requirements in order to accelerate your design cycle and offload a significant portion of the design effort.

COMPREHENSIVE TECHNICAL SUPPORT

Our engineers are ready to assist you online, by phone, or at your site.

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Email: sales@peigenesis.com

Online: visit www.peigenesis.com to complete a tech support request form – responses guaranteed in 24 hours or less

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PEI-Genesis sells and assembles only fully-authorized products. Our product capabilities meet the highest military and industrial standards for consistent quality, inspection, marketing & packaging.



LIMITED WARRANTY

ITT Cannon manufactures some of the highest quality products available; however, these products are intended for use in strict accordance with the specifications in this catalog.

- A.** If any of the products in this catalog are electrical components, components thereof, or electrical connectors accessories, then the warranty terms set forth in this subparagraph (a) apply to them. ITT Corporation, ITT Cannon and PEI-Genesis warrant each new product sold by ITT Cannon or PEI-Genesis to be free from defects in materials and workmanship under normal use and service. The obligation and liability of ITT Cannon and PEI-Genesis under this warranty is limited to the repair or replacement at its factory, at the option of ITT Cannon or PEI-Genesis, of any such product which proves defective within ninety (90) days after delivery to the first end user, and is found to be defective in materials and workmanship by ITT Cannon inspection. Neither ITT Cannon nor PEI-Genesis shall be obligated or liable under this warranty for apparent defects which examination discloses are due to tampering, misuse, abuse, neglect, improper storage, normal wear and tear and all cases where the products are disassembled by other than authorized ITT Cannon or PEI-Genesis representatives. In addition, neither ITT Cannon nor PEI-Genesis shall be obligated or liable under this warranty unless the date of delivery to the first end user is within six (6) months of the date of delivery to the original purchaser, if different from the first end user, and further provided that written notice of any defect must be given to ITT Cannon or PEI-Genesis within thirty (30) days from the date such defect is first discovered.

Products covered by this warranty must be returned with all transportation charges prepaid to ITT Corporation, ITT Cannon or PEI-Genesis in shipping containers that are adequate to prevent loss or damage in shipment. Products repaired or replaced under this warranty are warranted for the unexpired portion of the original warranty or for thirty (30) days, whichever is greater.

- B.** The purchaser's SOLE AND EXCLUSIVE REMEDY, and the SOLE OBLIGATION of ITT Cannon and PEI-Genesis, under the foregoing warranty shall be to repair or replace any defective or nonconforming products, provided that ITT Cannon or PEI-Genesis may, in their sole discretion, elect instead to refund the purchase price of the affected products. All replaced products shall become the property of ITT Cannon or PEI-Genesis.
- C.** ITT CANNON AND PEI-GENESIS EXPRESSLY DISCLAIM ANY LIABILITY, WHETHER UNDER THIS WARRANTY OR OTHERWISE, FOR ANY FAILURE OF ANY PRODUCT WHICH IS CAUSED, IN WHOLE OR IN PART, BY THE USE OF THAT PRODUCT WITH OR IN ANY COMPONENT PARTS THAT WERE NOT MANUFACTURED BY ITT CANNON.
- D.** THE ABOVE WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, USE OR APPLICATION, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF ITT CANNON OR PEI-GENESIS.
- E.** THE AGGREGATE LIABILITY OF ITT CANNON AND PEI-GENESIS TO ANY PURCHASER IN DAMAGES OR OTHERWISE SHALL NOT EXCEED THE AGGREGATE PURCHASE PRICE OF THE PRODUCTS THAT ARE THE SUBJECT OF THE CLAIM OR DISPUTE. IN NO EVENT SHALL ITT CANNON OR PEI-GENESIS BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL, PUNITIVE OR SPECIAL LOSSES OR DAMAGES OF ANY KIND, HOWSOEVER CAUSED. All such damages are expressly excluded and disclaimed, it being understood that the products sold to the purchaser are not consumer products. No action, regardless of form, arising out of, or in any way connected with any products furnished by ITT Cannon or PEI-Genesis may be brought by a purchaser more than one (1) year after the cause of action accrued.

PRODUCT SAFETY INFORMATION

This information sheet should be read in conjunction with the Product Data Sheet/Catalog distributed by PEI-Genesis. Failure to observe the advice in this information sheet and the operating conditions specified in the Product Data Sheet/Catalog could result in hazardous situations. None of the connectors in this catalog are meant to be mated or unmated under load.

1. MATERIAL CONTENT AND PHYSICAL FORM

Electrical connectors do not usually contain hazardous materials. They contain conducting and nonconducting materials and can be divided into two groups:

- Printed circuit types and low cost audio types which employ all plastic insulators and casings; and
- Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic or glass insulating materials.

Contact materials vary with type of connector and application and are usually manufactured from copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD

There is no fire hazard when the connector is correctly wired and used within the specified parameters.

Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionization and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g., cracked or deformed contacts, or broken strands of wire. Local overheating may also result from the use of incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the Product Data Sheet/Catalog are exceeded and can cause breakdown of insulation and, hence, electric shock. If heating is allowed to continue, it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires, and leakage currents through carbonization of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. HANDLING

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers.

Electrical connectors may be damaged in transit to customers and such damage may result in creation of hazards. Products should therefore be examined prior to installation or use and rejected if found to be damaged in any respect.

4. DISPOSAL

Dispose of all products properly. The incineration of some products may release noxious or even toxic fumes.

5. APPLICATION

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 30 Vac or 42.5 Vdc are potentially hazardous and care should be taken to ensure that such voltages can not be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be inspected, before making live, to ensure there is no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity checks should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheet/Catalog.

Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

IMPORTANT GENERAL INFORMATION

1. AIR AND CREEPAGE PATHS/OPERATING VOLTAGE

The admissible operating voltages depend on the individual applications, and the valid national and other applicable safety regulations. For this reason, the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

2. TEMPERATURE

All information given are temperature limits. The operating temperature depends on the individual application.

3. OTHER IMPORTANT INFORMATION

ITT Cannon and PEI-Genesis continuously endeavor to improve products. Therefore, products may deviate from the description, technical data or specifications and/or shape as shown in this catalog. ITT Cannon and PEI-Genesis reserve the right to change the description, technical data or specifications and/or shape of any products at any time.

4. HARNESSING AND ASSEMBLY INSTRUCTIONS

If applicable, our special harnessing and/or assembly instruction must be adhered to. - This information can be provided on request.

SELECTING THE SERIES TO MEET YOUR NEEDS



CLIP LOCK CIRCULAR

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.



SNAP LOCK CIRCULAR

Snap 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.



SNAP LOCK ENVIRONMENTAL

Ideally suited for easy printed circuit board layout, the rectangular-shaped Snap Lock Environmental (SLE) 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.



APD

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, APDs maintain their integrity in the roughest of environments. High performance features make APDs excellent for use in sensors, ABS brake control, valve actuators, magnetic vehicle control systems, and vehicle use monitoring equipment.



TRIDENT RINGLOCK, TRIDENT NEPTUNE, AND TRIDENT NEPTUNE METAL

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, for use in applications where moisture is not a problem; Trident Neptune, for applications requiring complete moisture sealing; and the 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.



TRIDENT MULTIWAY RACK AND PANEL

ITT Cannon Trident Multiway Rack and Panel connectors are a family of cost-effective rectangular connectors tested to MIL-STD-202 and IEC 512. Trident Multiway Rack & Panel connectors have earned an International Ingress Protection (IP) rating of IP40, meaning they are completely sealed against dust and other solid objects and temporarily submersible up to 1m. The Multiway range has six contact cavity arrangements available and offers an extremely reliable connector system, in which any Trident signal or coaxial contacts can be used.



CA-BAYONET

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.



CT/MS-E/F/R

ITT Cannon CT series MIL-DTL-5015 connectors are manufactured to MIL-5015 specifications for use in very harsh environments. ITT Cannon CT series heavy-duty connectors were originally designed as aerospace components and are popular, cost-effective, rugged commercial and military connectors. Hundreds of contact layouts are available, including common 2 pin connectors, 3 pin connectors, 4 pin connectors, 12 pin connectors and 16 pin connectors. The ITT Cannon CT series is a waterproof connector that is completely sealed to withstand condensation, vibration and flash-over.



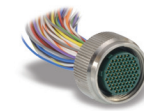
MKJ

ITT Cannon MKJ line of micro-miniature circular connectors offer high-density contact arrangements in a light-weight miniature connector. Reduced in weight by 71% and size by 52% as compared to the D38999 22 size layout, these connectors do not sacrifice environmental performance or reliability. The MKJ micro-miniature series is available in three coupling methods: threaded, bayonet, and breakaway. ITT Cannon MKJ micro-miniature circular connectors come with rear accessory threads or integral band platform for direct attachment of cable shield and overmold. Integral band platform allows direct attachment of cable shield to connector. Available in a wide range of materials and finishes, the MKJ series is the rugged connector that outperforms the rest in defense, aerospace, medical, and industrial applications.



MIKQ

ITT Cannon MIKQ series push-pull micro-miniature connectors have a simple push-pull locking coupling system for quick mating and disconnect. The MIKQ series is rugged, lightweight and small while offering very high performance. MIKQ miniature connectors are often used on panel-to-cable applications, as medical connectors, and in avionics, test sets, communication equipment and high-reliability cameras. The heart of this ITT Cannon plug is the POSALINE MicroPin system, offering uncompromised performance and assuring high normal force, excellent wipe, and superior shock and vibration performance.



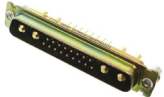
MIKM

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.



MILITARY/HIGH RELIABILITY D-SUB CONNECTORS

ITT Cannon Military/High Reliability D-Subminiature connectors are used in many applications, including aerospace, transportation, communication systems, information systems and test equipment. The D-Subminiature connectors with fixed contacts in solder cup, straight and 90° PC contact terminations are engineered to be comparable to MIL-C-24308. As the inventor of the D-Subminiature connector, ITT Cannon has used its extensive design expertise and high quality manufacturing processes to insure the optimum performance and reliability.



COMBINATION D-SUB CONNECTORS

ITT Cannon Combo D-Sub connectors offer the advantages of an industry standard shield I/O interconnect, with the flexibility of a customized special, designed for any application. This connector system is ideal for applications that require optimization of space while improving overall shielding. Combo D accomplishes this by combining multiple interconnect types into one fully-shielded product, decreasing the number I/O interfaces and reducing the possibility of EMI/RFI leakage.



DL/DLM

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.

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CONNECTOR SERIES COMPARISON CHART

Connector cost generally increases across the table from left to right.

REVIEW THE BASIC TYPES




- Industrial/commercial connectors generally do not need to operate in extreme conditions
- Harsh environment connectors are generally used in harsh and/or outdoor applications.
- Military connectors will meet different mil specifications.







START WITH THESE FOUR VARIABLES:

1. Determine wire gauge range
-Will indicate connector size
2. Determine required number of circuits
-Generally, more circuits means a larger and more expensive connector
3. Determine if water-jet sealing is necessary
-Choices include submersible, individual wire sealing and cable jacket sealing
4. Determine if EMI-RFI Shielding is required
-Does your connection need protection from interfering signals? Generally, this requirement separates economical connectors from mid-range cost

By answering these questions and using the information on this chart, you should identify the series that will fit your needs.

Please visit our website for an interactive comparison and selection guide featuring our entire line of ITT Cannon connectors.

	CLC	SLC	SLE
			
Industrial/Commercial	■	■	■
Harsh Environment	■	■	■
Military			
Wire Gauge Range (AWG)	20 to 16	20 to 16	20 to 16
Number of Circuits	2 & 4	5 & 10	19 & 28
Sealed Against Water Jets	Yes	Yes	Yes
EMI/RFI-Shielding	No	No	No
Style	Circular	Circular	Rectangular
Operating Voltage/ DWV	1000 Vac	1000 Vac	1000 Vac
Current Rating (Amps)	5	5	5
Power & Signal on Same Layout	No	No	No
Operating Temperature	-40°C to 150°C -40°F to 302°F	-40°C to 140°C -40°F to 284°F	-40°C to 125°C -40°F to 257°F
Submersible	Yes	Yes	Yes
Individual Wire Sealing	Yes	Yes	Yes
Cable Jacket Sealing	Yes	Yes	No
Type of Coupling	Clip Lock	Slide Lock	Slide Lock
Life in Mating Cycles (min.)	25	25	25
Shock Test (g's)	100g	100g	100g
Vibration Test (grms)	10.2g	10.2g	10.2g
Susceptibility to Damage	Very Low	Very Low	Very Low
Shell Material	Thermoplastic	Thermoplastic	Thermoplastic
Shell Plating	-	-	-
Shell Color	Black	Black	Black
Positive Shell Polarization	Yes	Yes	Yes
Insert Polarization Options	Yes	Yes	Yes
User Polarization	No	No	Yes
Standards/Associated Specs.	-	-	-
Contact Plating	Gold	Gold	Gold
Contact Styles			
Crimp	■	■	■
Solder			
Printed Circuit Solder			■
Printed Circuit Press Fit			
Thermocouple			
Wire Wrap			
Co-Ax			
Insulation Displacement or Screw			
Pre Terminated			
Fiber Optic			
High Voltage			
First-Mate Last-Break			

APD	Trident Ringlock	Trident Multiway	Trident Neptune	TNM	CB/CA-B-Bayonet	CT/MS E/F/R
						
■	■	■	■	■	■	■
■	■		■	■	■	■
						■
20 to 0	28 to 14	28 to 14	28 to 12	28 to 8	26 to 0	26 to 0
1 to 4	4 to 48	50 & 75	4 to 48	4 to 19	1 to 65	1 to 65
Yes	Yes	No	Yes	Yes	Yes	Yes
No	No	Available	No	Yes	Yes	Yes
Circular	Circular	Rectangular	Circular	Circular	Circular	Circular
1000 VDC	250 Vac	200 VAC	250 Vac	250 Vac	1750 Vac	1750 Vac
240	16	16	30	16 / 40	245	150
No	No	No	Yes	No	Yes	Yes
-40°C to 140°C -40°F to 284°F	-55°C to 105°C -67°F to 221°F	-55°C to 105°C -55°C to 120°C	-55°C to 105°C -67°F to 221°F	-55°C to 105°C -67°F to 221°F	-55°C to 125°C -67°F to 257°F	-55°C to 125°C -67°F to 257°F
Yes	Yes	No	Yes	Yes	Yes	Yes
Yes	No	No	Yes	Yes	Yes	Yes
Yes	Yes	No	Yes	Yes	Yes	Yes
Reverse Bayonet	Bayonet	Thumbscrews	Bayonet	Bayonet	Reverse Bayonet	Threaded
50	500	500	500	500	500	100
20g	10g		10g	10g	50g	50g
20g	15g		15g	15g	10.2g	10.2g
Very Low	Low	Low	Low	Low	Very Low	Very Low
PA Plastic	UL94V0 Plastic/ Copper Alloy	Zinc Alloy	UL94V0 Plastic/ Copper Alloy	Zinc Alloy	Aluminum Alloy	Aluminum Alloy
-	Nickel	Zinc Alloy Gray	Nickel	Nickel	Cadmium, Electroless Nickel, Zinc Cobalt (black or green), Blue Zinc Nickel	Cadmium, Electroless Nickel or Black Zinc Cobalt
Various	Black	Gray	Black	Silver	Olive Drab, Silver or Black	Olive Drab, Silver or Black
Yes	Yes	Available	Yes	Yes	Yes	Yes
Yes	No	No	No	No	Yes	Yes
Yes	Yes	No	Yes	Yes	No	No
DIN-72585	UL		UL	UL	VG 95 234	MIL-DTL-5015 VG 95 342
Gold, Tin, or Silver	Tin or Gold	Tin or Gold	Tin or Gold	Tin or Gold	Silver or Gold	Silver or Gold
■	■	■	■	■	■	■
■	■		■	■	■	■
■	■		■	■	■	■
					■	■
■	■		■			
■			■		■	■
■	■		■		■	■

	MKJ	MIKQ	MIKM	D-Sub	DL/DLD/DLM
					
Industrial/Commercial	■	■	■	■	■
Harsh Environment	■				
Military	■			■	
Wire Gauge Range (AWG)	28 to 12	26 to 25	26 to 25	30 to 18	32 to 18
Number of Circuits	2 to 85	7, 19, 37	7, 55, 85	2 to 78	60 to 2496
Sealed Against Water Jets	Yes	No	No	No	No
EMI/RFI-Shielding	Yes	Yes	Yes	Yes	Yes
Style	Circular	Circular	Circular	Rectangular	Rectangular
Operating Voltage/ DWV	1800 Vac	900 Vac	900 Vac	1700 to 750 Vac	1200 Vac
Current Rating (Amps)	20	3	3	1 to 7.5	5 to 10 ^{##}
Power & Signal on Same Layout	Yes	No	No	Yes	No
Operating Temperature	-67°F to 392°F -55°C to 200°C	-55°C to 125°C -67°F to 257°F	-55°C to 105°C -67°F to 221°F	-55°C to 125°C -67°F to 257°F	-55°C to 105°C -67°F to 221°F
Submersible	Yes	No	No	No	No
Individual Wire Sealing	Yes	Yes	Yes	No	No
Cable Jacket Sealing	Yes	No	No	No	No
Type of Coupling	Push-Pull Bayonet Triple & Dual-Lead Threaded	Push-Pull	Threaded	Screw Lock Thumbscrews or Slide Lock	Quarter Turn Handle
Life in Mating Cycles (min.)	250/2000	500	500	200 Typical	10,000 to 100,000
Shock Test (g's)	300g	50g	50g	50g	50g
Vibration Test (grms)	37g	20	20g	10g	20g
Susceptibility to Damage	Extra Low	Low	Low	Low	Extra Low
Shell Material	Aluminum Alloy	Brass	Stainless Steel	Aluminum, Steel, Brass	Thermoplastic or Aluminum Alloy
Shell Plating	Electroless Nickel	Electroless Nickel	Passivated	Tin, Cadmium, Zinc, Gold Over Copper or Stainless Steel	Nickel (DLM)
Shell Color	Silver	Silver	Silver	Silver, Yellow or Gold	Black or Silver
Positive Shell Polarization	Yes	Yes	Yes	Yes	Yes
Insert Polarization Options	Yes	No	No	No	No
User Polarization	No	No	No	Yes	Yes
Standards/Associated Specs.	-	-	-	24308-Style, GSFC 311P	-
Contact Plating	Gold	Gold	Gold	Tin/Gold	Gold over Nickel
Contact Styles					
Crimp	■	■	■	■	■
Solder				■	
Printed Circuit Solder		■	■	■	■
Printed Circuit Press Fit				■	
Thermocouple					
Wire Wrap				■	■
Co-Ax				■	
Insulation Displacement or Screw				■	
Pre Terminated			■		
Fiber Optic					
High Voltage				■	
First-Mate Last-Break					

^{##} Buss Contact to 60 Amps

CLC

Applications & Features 11
 Technical Specifications 12
 Select Part Number 13
 Exploded View 13
 Dimensions. 14
 Assembly Instructions 15-16

SLC

Applications & Features 17
 Technical Specifications 17
 Select Part Number 18
 Dimensions. 18-19
 Assembly Instructions. 20

SLE

Applications & Features 21
 Technical Specifications 22
 Create Part Number 23
 Dimensions. 24-26
 Assembly Instructions. 27-28

APD

Applications & Features 29
 Technical Specifications 29
 Select Part Number 30-31
 Dimensions. 32-35
 Assembly Instructions. 36-38

Trident Ringlock, Trident Neptune & TNM

Applications & Features 39
 Technical Specifications 40
 Exploded View 41
 Select Part Number 42-43
 Select Part Number Accessories 44-45
 Current Rating 47
 Contacts 48-59
 Trident Neptune Metal (TNM) 50-51
 Dimensions. 52-57
 Assembly Instructions. 58-60

Trident Multiway

Applications & Features 61
 Technical Specifications 62
 How to Order. 63
 Style Selector 64
 Assembly Instructions. 65-67
 Contacts 68-69

CB

Applications & Features 71-72
 Technical Specifications 72-73
 Cross Sections. 73
 Create Part Number 74-75
 Layouts by No. of Contacts 76-80
 Layouts by Shell Size 81-89
 Contacts & Tools 90-91
 Components Chart. 92
 Dimensions. 93-99
 Panel Cutouts & Thickness. 100
 Endbells 101-103
 Accessories 104-107
 Assembly Instructions. 108-109
 Part Numbering 110

CT

Applications & Features 111-112
 Technical Specifications 112-113
 Cross Sections. 113
 Create Part Number 114-115
 Layouts by No. of Contacts 116-120
 Layouts by Shell Size 121-129
 Contacts & Tools 130
 Components Chart. 132
 Dimensions. 132-138
 Panel Cutouts & Thickness. 139
 Endbells 140-142
 Accessories 143-146
 Assembly Instructions. 147-149
 Part Numbering 150

MKJ

Applications & Features 151-152
 Technical Specifications 152
 How to Order 153

MIKQ

Applications & Features 155
 Technical Specifications 155
 Select Part Number 156
 Dimensions. 156

MIKM

Applications & Features 157
 Technical Specifications 157
 Select Part Number 158
 Dimensions. 158

D-Sub Military/High Reliability

Applications & Features 159-161
 How to Order 162-163
 Contacts 164
 Cross Reference Chart. 165-166

D-Sub Combo D

Features 167-169
 Part Numbering 170-171
 Contacts & Tools 172-178

DL/DLM

Applications & Features 179
 Technical Specifications 180-181
 Select Part Number 182-183
 Accessories 184
 Printed Circuit Contacts 185
 Contacts & Tools 186
 Dimensions. 187-192
 Connector Dimensions 193
 Assembly Instructions. 194

Accessories

Sealing Screws & Nut Plates 195
 Heat Shrink Boots 196-197
 Right Angle Heat Shrink Boots 198-199
 Potting System 200
 Convoluted Boots 200-201
 Heat Gun 201
 PMA Adapters 202
 PMA Conduit & Braid 203
 Backshell (Endbell) Tools 204
 Heat Shrink Tubing. 205
 Cord Grips 206-207
 CA/MS Thread Receptacles & Plugs 208-209

Appendix

Glossary of Terms 210-216
 Conversion Charts 216-219