



Electronic equipment that is used in harsh environments requires connectors that can withstand exposure to moisture, dust and other elements. Also many applications require components to meet the Ingress Protection (IP) rating of IP67. Sabritec has developed water resistant connectors that can be successfully used in systems where moisture, humidity, water, and dust are present. The Sabritec design method is capable of sealing up to 35 psi in the unmated, open faced condition. These connectors are ideal for high-pressure/low leakage applications in land, air, sea, and space environments. The water resistant connector features can be added to both filtered and non-filtered multipin connectors, coaxial, triaxial, and high speed copper connector types.

Circular, Rack and Panel and D-subminiature Types

Sabritec has incorporated this watertight technology in connector types that meet the requirements of most connector standards including MIL-DTL-38999, MIL-DTL-26482, MIL-DTL-24308, MIL-DTL-83527, MIL-DTL-81659, and ARINC 600. These connectors can be designed to fit the envelope of the specification standard or can incorporate any special features desired including different mounting types, unique shell or flange configurations, or EMI/EMP filtering.

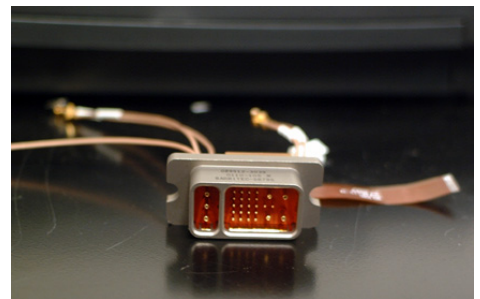
Customer Defined Connector Types

Sabritec also provides water resistant capabilities to connectors that do not conform to any connector standard but are application specific designs as defined by unique interface requirements. Along with being sealed in the unmated condition, these connectors can also incorporate threaded inserts, hybrid contact configurations (power, signal, coaxial, triaxial, and high speed), custom housing configurations, EMI/EMP filtering, and value added cable assemblies.

Please consult the factory for more information.



MIL-DTL-38999 Compliant Watertight Connector



Hybrid Connector with Coax, Power and Signal Contacts



GPS Connector



Filtered Coaxial Switching Connector

Sabritec does not offer standard QPL slash sheet part #'s for multipin circular and rack & panel connectors. Our connectors are fully intermateable and interchangeable with all slash sheet part #'s.



SPECIAL APPLICATION CONNECTORS

MEDICAL AND TEST AND MEASUREMENT APPLICATIONS

At Sabritec, our engineering expertise and complete in-house manufacturing capability allows us to easily modify standard products and/or create completely unique designs from start to finish. If you have the need for a custom product, please contact us with any questions or specifications. We look forward to assisting you in every way possible. Below are just some of the special application connectors and contacts that Sabritec offers. Call Sabritec's Applications Engineering Department for help with your custom interconnect needs.

Test and Measurement Connectors

Sabritec manufactures products that are suitable for the test and measurement industry. These connectors are used in test equipment for applications that require high durability under extreme mating cycles and low insertion force. The complete product series includes modular block, micro-d coax, high impedance triax contacts, and concentric triax, twinax and quadrx contacts.

- Modular connectors for variety of combinations in single connector
- Low insertion- extraction forces
- Low contact resistance
- Mini-modular connectors for off the shelf components
- Mixed power, signal, coaxial, triaxial and fiber optic modules
- High current ratings
- Immunity to shock and vibration
- Up to 100,000 mating cycles

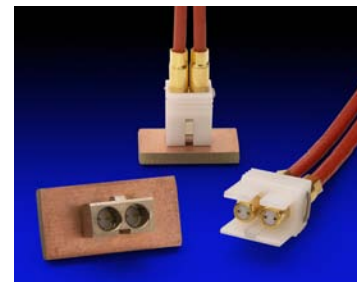
Medical Market Applications

Sabritec supplies the medical market with standard and custom Interconnect solutions where thousands of mating cycles are required. Connectors for this industry include the MDCX coax connectors, Size 8 triax connectors, SCX ultraminiature coax connectors, and nonmagnetic filtered and non-filtered d-subminiature connectors.

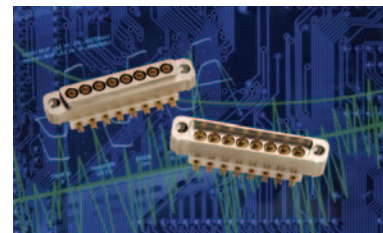
Applications include but are not limited to electronic catheters to map the electrical impulses of a beating heart; patient monitors to keep an "eye" on a patient's blood pressure or oxygen levels; MRI systems to provide doctors with a better view of various internal organs; defibrillators to bring a heart attack victim "back to life"; and medical lab equipment to study the effects of various drugs on the causes of disease.

Umbilical Launch Connectors

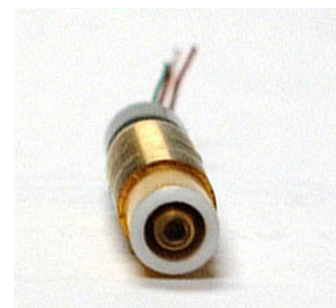
Sabritec offers a wide range of blind mate umbilical launch connectors and lanyard release type connectors. Currently, Sabritec offers Stores Management Type II Rail Launch Connectors for use on various military platforms. These hybrid configuration connectors are in accordance with MIL-STD-1760 for use on aircraft that carry missiles such as AMRAAM. The MIL-STD-1760 Stores Management Connector System uses a Type II launcher plug for use on the railway system which is connected to an intermediary buffer plug. The buffer plug and missile stores receptacle are designed for blindmating on railway launch applications. The three tiered mating sequence can be adapted with various connector interfaces for numerous missile applications with transitional buffers to adapt one missile interface to the MIL-STD-1760 Stores Management Connector System.



Modular Block Connectors



MDCX Connectors



Special Size 12 Triax Contact



Umbilical Railway Launch Connectors



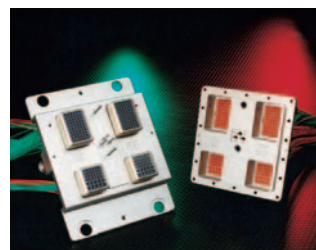
Sabritec offers a full range of space level products designed to meet the rigorous environmental requirements for use in space applications. Our space connector line includes filtered and non-filtered D-subminiature and MIL-DTL-38999 Series III connectors. We offer a complete line of fibre channel connectors and contacts including micro twinax, quadrax, quadsplitter, MIL-DTL-38999 twinax, and blindmate twinax connectors.

Our space level triax connectors feature Sabritec's multiway connector (MTC) with size 10 triax/twinax contacts for numerous insert arrangements. Also featured in our triax line is the NDL-T threaded triax connectors. Our coaxial connector line includes Micro-D connectors with multi-coax assemblies, and SMP and SMPM (miniature SMP) coaxial connectors, and cable assemblies.

Sabritec's space connectors provide low insertion force with high durability power, signal, coax, and triax contacts. Our MTC series is available with 2, 7, 12 or 14 contacts in a single housing and provides a polarizing shell to prevent mismatching.

Sabritec's space level connectors meet requirements for outgassing, toxicity, flammability and environmental concerns, such as vibration and high/low temperature, suitable for use in space and military/aerospace applications

- Continuous operation in low-Earth orbit space environments
- Meets requirements of NHB 8060.1 for outgassing, toxicity, flammability and other environmental concerns
- High pressure sealing for air leakage requirements
- EMI shielding capability
- Inserts include low insertion force, high durability, power, signal and triax contacts
- Accessories include backshells (EMI), protective covers and sealing plugs



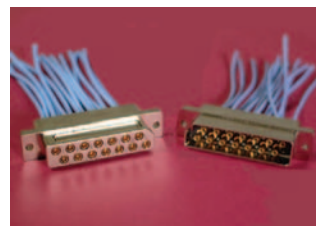
Space Approved Connectors



MIL-DTL-38999 Connectors



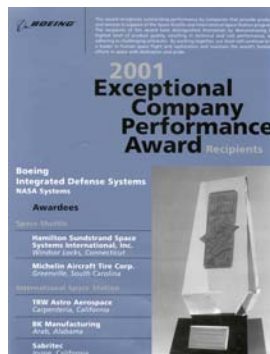
SMP Coaxial Connectors



Twinax Multiway Connectors

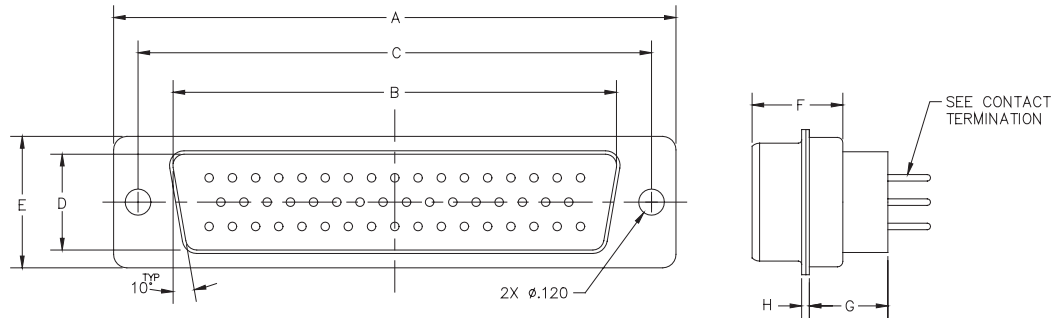


D-Subminiature Connector



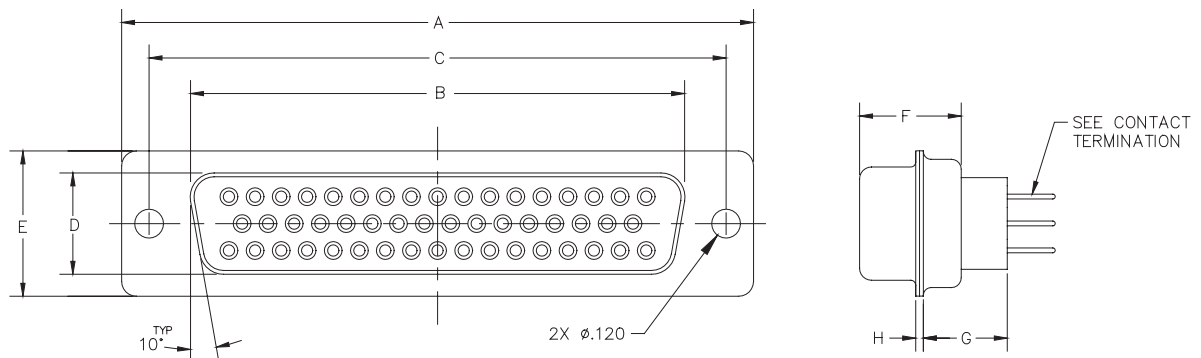
Recipient of the Boeing 2001 Exceptional Company Performance Award

Non Filtered Straight D-Sub Plug



SHELL SIZE	STANDARD DENSITY LAYOUT #20 PIN	HIGH DENSITY LAYOUT #22 PIN	A $\pm.015$	B $\pm.005$	C BASIC	D $\pm.005$	E $\pm.015$	F $\pm.010$	MAX G			H $\pm.010$
									STANDARD DENSITY		HIGH DENSITY	
									PC TAIL & SOLDER CUP	CRIMP	ALL	
1	9	15	1.213	.666	.984	.329	.494	.422	.251	.365	.375	.039
2	15	26	1.541	.994	1.312							
3	25	44	2.088	1.534	1.852							
4	37	62	2.729	2.182	2.500	.441	.605	.426	—	—	—	—
5	50	78	2.635	2.079	2.406							
6	—	104	2.729	2.212	2.500							

Non Filtered Straight D-Sub Receptacle



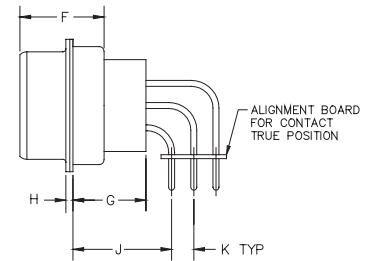
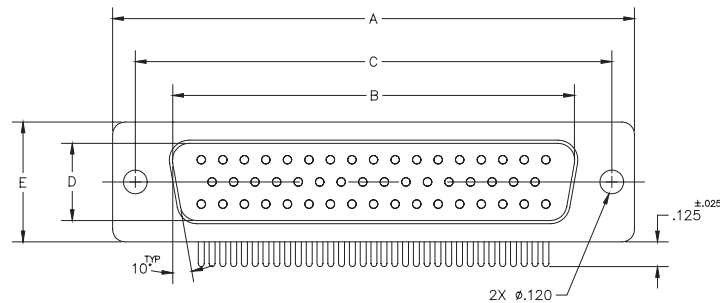
SHELL SIZE	STANDARD DENSITY LAYOUT #20 PIN	HIGH DENSITY LAYOUT #22 PIN	A $\pm.015$	B $\pm.005$	C BASIC	D $\pm.005$	E $\pm.015$	F $\pm.010$	MAX G			H $\pm.010$
									STANDARD DENSITY		HIGH DENSITY	
									PC TAIL & SOLDER CUP	CRIMP	ALL	
1	9	15	1.213	.643	.984	.310	.494	.429	.251	.365	.375	.039
2	15	26	1.541	.971	1.312							
3	25	44	2.088	1.511	1.852							
4	37	62	2.729	2.158	2.500	.423	.605	—	—	—	—	—
5	50	78	2.635	2.064	2.406							
6	—	104	2.729	2.189	2.500							



Non-FILTERED D-SUBMINIATURE CONNECTORS

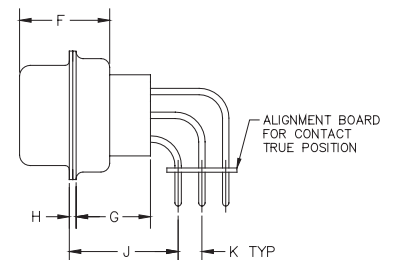
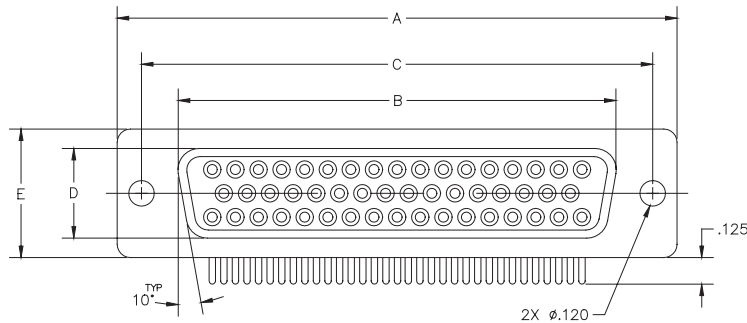
RIGHT ANGLE NON-FILTERED CONNECTORS

Non Filtered Right Angle D-Sub Plug



SHELL SIZE	STANDARD DENSITY LAYOUT #20 SKT	HIGH DENSITY LAYOUT #22 SKT	A ±.015	B ±.005	C BASIC	D ±.005	E ±.015	F ±.010	G MAX		H ±.010	J ±.010		K ±.015	
									STANDARD DENSITY	HIGH DENSITY		STANDARD DENSITY	HIGH DENSITY	STANDARD DENSITY	HIGH DENSITY
1	9	15	1.213	.666	.984	.329	.494	.426	.251	.375	.030	.283	.450	.112	.082
2	15	26	1.541	.994	1.312										
3	25	44	2.088	1.534	1.852										
4	37	62	2.729	2.182	2.500										
5	50	78	2.635	2.079	2.406	.442	.605	.429	.251	.375	.039	.283	.450	.112	.082
6	—	104	2.729	2.212	2.500	.503	.668								

Non-Filtered Right Angle D-Sub Receptacle



SHELL SIZE	STANDARD DENSITY LAYOUT #20 SKT	HIGH DENSITY LAYOUT #22 SKT	A ±.015	B ±.005	C BASIC	D ±.005	E ±.015	F ±.010	G MAX		H ±.010	J ±.010		K ±.015	
									STANDARD DENSITY	HIGH DENSITY		STANDARD DENSITY	HIGH DENSITY	STANDARD DENSITY	HIGH DENSITY
1	9	15	1.213	.643	.984	.310	.494	.429	.251	.375	.030	.283	.450	.112	.082
2	15	26	1.541	.971	1.312										
3	25	44	2.088	1.511	1.852										
4	37	62	2.729	2.158	2.500										
5	50	78	2.635	2.064	2.406	.423	.605	.429	.251	.375	.039	.283	.450	.112	.082
6	—	104	2.729	2.189	2.500	.485	.668								