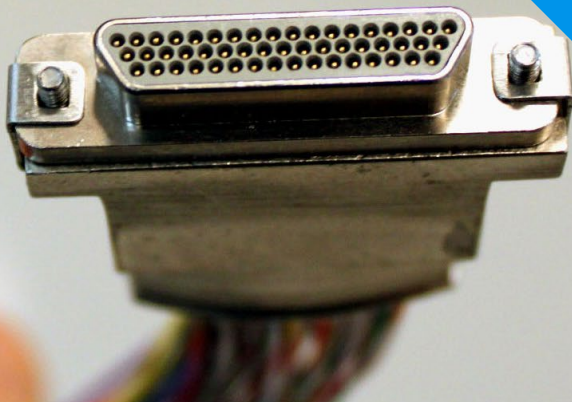
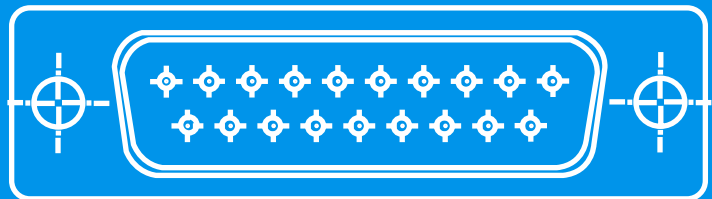




MilSpecWest

THE VERY BEST IN MICRO INTERCONNECT PRODUCTS

MICRO D CATALOG



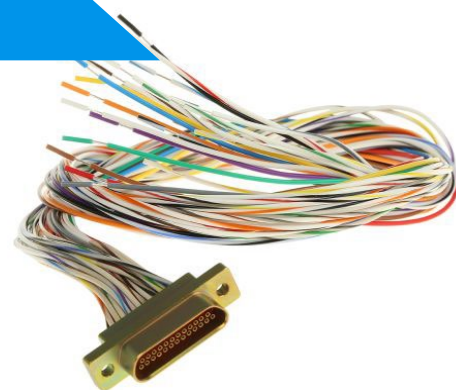
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MICRO D CONNECTOR SERIES

MSWD Micro-D connectors are used in applications requiring highly reliable, extremely small, lightweight connectors with higher density contact configurations than available in traditional rectangular connectors. They are available in 7 shell sizes accommodating from 9 to 51 contacts.



MSWD – MICRO D PART NUMBER BREAKDOWN

MSWD-MSWK-	25	P	18-	Y26	J	-000	MODIFICATION -CONSULT FACTORY
							HARDWARE J = JACKPOST K = JACKSCREW, STANDARD L = JACKSCREW, LOW PROFILE F = FLOAT MOUNT B = NO HARDWARE
							WIRE TYPE Y26 = 7/34 strand,#26 AWG, MIL-W-16878/4, Type E Teflon, yellow C26 = 7/34 strand, #26 AWG, MIL-W-16878/4, Type E Teflon, color coded to MIL-STD-681 Y24 = 19/34 strand,#24 AWG, MIL-W-16878/4, Type E Teflon, yellow C24 = 19/34 strand, #24 AWG, MIL-W-16878/4, Type E Teflon, color coded to MIL-STD-681 L1 = 1/2" un-insulated solid #25 AWG gold plated copper L2 = 1" un-insulated solid #25 AWG gold plated copper S = SOLDER POTS - 26 AWG
							WIRE LENGTH - 18", 24", 36" 72" LEAVE BLANK FOR L1, L2, & S
							P = PLUG , SHELL - PIN CONTACTS S = RECEPTACLE SHELL, SOCKET CONTACTS
							NO. OF CONTACTS : 9, 15, 21, 25, 31, 37, 51
							BASIC PART NUMBER MSWD = ALUMINUM SHELL, ELECTROLESS NICKEL MSWK = STAINLESS STEEL SHELL, PASSIVATED



MSWD - MICRO D CONNECTOR SERIES

MATERIALS & FINISHES

ALUMINUM SHELL	6061 Aluminum with Electroless nickel finish - In accordance with AMS-C-26074 or AMS2404
STAINLESS STEEL SHELL	300 Series Stainless Steel, Passivate - In accordance with AMS-QQ-P-35, AMS 2700, or ASTM A 967
INSERT	Liquid Crystal Polymer
CONTACTS	Copper Alloy, Gold Plated
HARDWARE	300 Series Stainless Steel

MECHANICAL FEATURES

CONTACT SPACING	0.050 (1.27 MM)
SHELL STYLES	PLUGS and RECEPTACLES
NUMBER OF CONTACTS	9 - 51
WIRE SIZE	# 24 AWG - # 32 AWG
CONTACT TERMINATION	Crimp

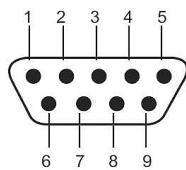
PERFORMANCE DATA

TEST	METHOD	ACCEPTANCE CRITERIA
Dielectric Withholding Voltage	Method 3001: 600 VAC at sea level , 150 VAC at 70,00' altitude	No Breakdown
Insulation Resistance	Method 3003	5,000 Megaohms minimum
Thermal Shock	Method 1003. Condition A: -55C to +125C	No damage
Physical Shock	Method 2004. Condition E: 50Gs, 3 axes, 6 millisecond duration	No loss of continuity greater than usec
Vibration	Method 2005 Condition IV: 20 G's, 10-2,000 Hz 12 Hrs	No loss of continuity greater than usec
Durability	500 cycles of mating and unmating, 500 CPH max	No defects
Moisture Resistance	Method 1002 , Type II modified	Insulation Resistance greater than 100 megohms
Salt Spray	Method 1001, Condition B: 48 hours	No visible degradation
Contact Resistance - MIL	Method 1001, Condition B, @ 3 amps	8 milliohms max
Contact Resistance - STD-202	Method 1001, Condition B, @ 1 milliamps	10 milliohms max
Contact Retention	Per MIL-STD-83513	5 lb minimum axial load

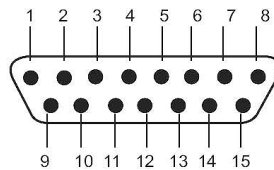


MSWD - MICRO D CONNECTOR SERIES

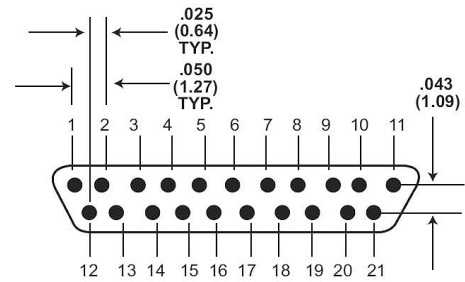
MSWD MICRO D PART NUMBER BREAKDOWN



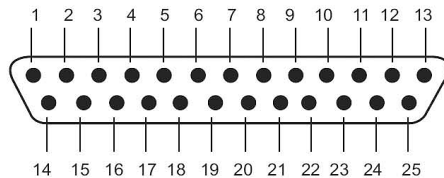
9 Contacts



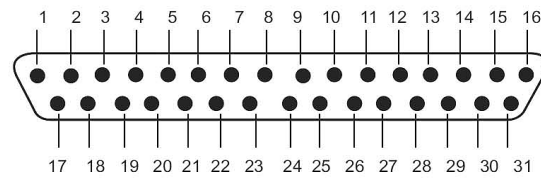
15 Contacts



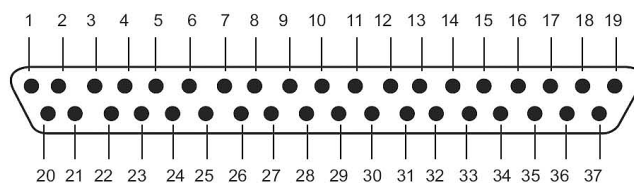
21 Contacts



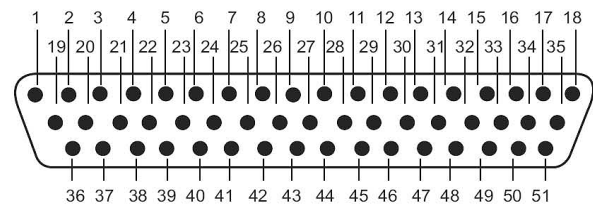
25 Contacts



31 Contacts



37 Contacts

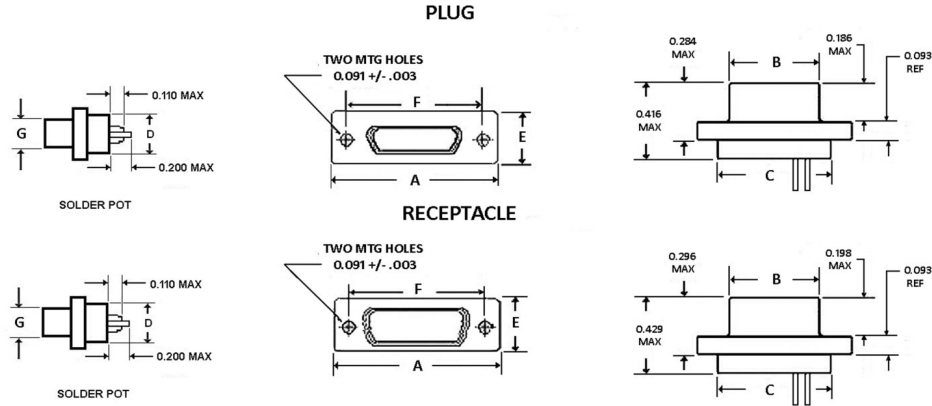


51 Contacts



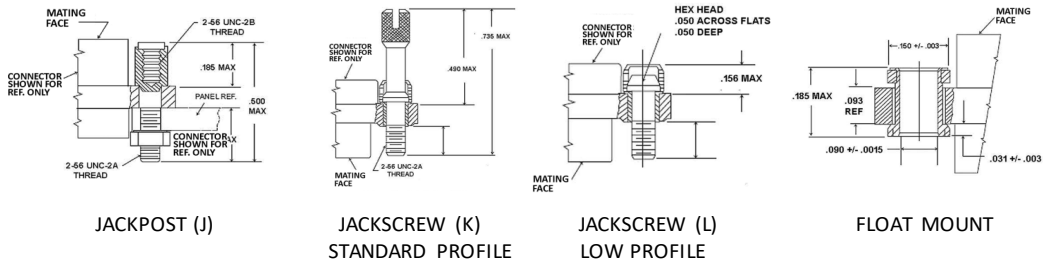
MSWD - MICRO D CONNECTOR SERIES

MICRO-D METAL SHELL - .050" CONTACT SPACING



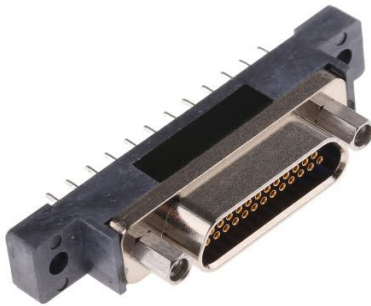
	A	B	C	D	E	F	G
	MAX	MAX	MAX	MAX	MAX	0.005	MAX
MSWD-9P	0.785	0.334	0.400	0.270	0.308	0.565	0.185
MSWD-9S	0.785	0.402	0.400	0.270	0.308	0.565	0.253
MSWD-15P	0.935	0.484	0.550	0.270	0.308	0.715	0.185
MSWD-15S	0.935	0.552	0.550	0.270	0.308	0.715	0.253
MSWD-21P	1.085	0.634	0.700	0.270	0.308	0.865	0.185
MSWD-21S	1.050	0.702	0.700	0.270	0.308	0.865	0.253
MSWD-25P	1.185	0.734	0.800	0.270	0.308	0.965	0.185
MSWD-25S	1.185	0.802	0.800	0.270	0.308	0.965	0.253
MSWD-31P	1.335	0.884	0.950	0.270	0.308	1.115	0.185
MSWD-31S	1.335	0.952	0.950	0.270	0.308	1.115	0.253
MSWD-37P	1.485	1.034	1.100	0.270	0.308	1.265	0.185
MSWD-37S	1.485	1.102	1.100	0.270	0.308	1.265	0.253
MSWD-51P	1.435	0.984	1.050	0.310	0.351	1.215	0.228
MSWD-51S	1.435	1.052	1.050	0.310	0.351	1.215	0.296

MICRO-D METAL SHELL – MOUNTING HARDWARE

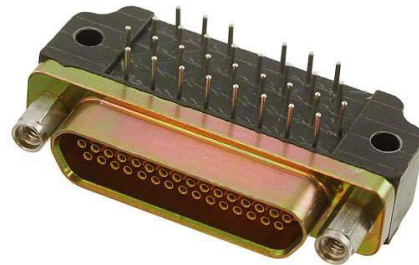




MICRO D CONNECTOR SERIES



MSWDBS – STRAIGHT PCB



MSWDBR – RIGHT ANGLE PCB

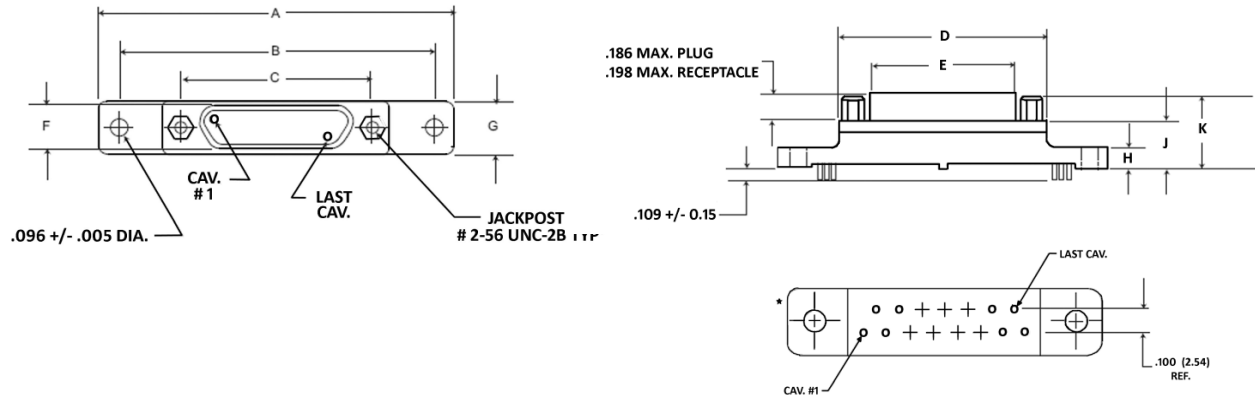
MSWB – PCB MOUNT PART NUMBER BREAKDOWN

MSWBS - MSWBR -	25	P	J	L10	T	-000	
							MODIFICATION -CONSULT FACTORY
							MOUNTING HARDWARE FOR PCB X = NO HARDWARE T - 2-56 THREADED INSERT
							PCB TERMINATION TAIL LENGTH L10 = 0.109 +/- 0.015 L11 = 0.125 +/- 0.015 L12 = 0.150 +/- 0.015 L13 = 0.190 +/- 0.015 L14 = 0.250 +/- 0.015 L15 = 0.375 +/- 0.015
							MOUNTING HARDWARE (SHELL FLANGE) X = NO HARDWARE J = JACKPOSTS
							P = PLUG , SHELL - PIN CONTACTS S = RECEPTACLE SHELL - SOCKET CONTACTS
							NO. OF CONTACTS : 9, 15, 21, 25, 31, 37, 51
							BASIC PART NUMBER - ALUMINUM SHELL, ELECTROLESS NICKEL MSWBS = STRAIGHT PCB MOUNT MSWBR = RIGHT ANGLE PCB MOUNT



MSWD - MICRO D CONNECTOR SERIES

MICRO-D METAL SHELL – STRAIGHT PCB MOUNT

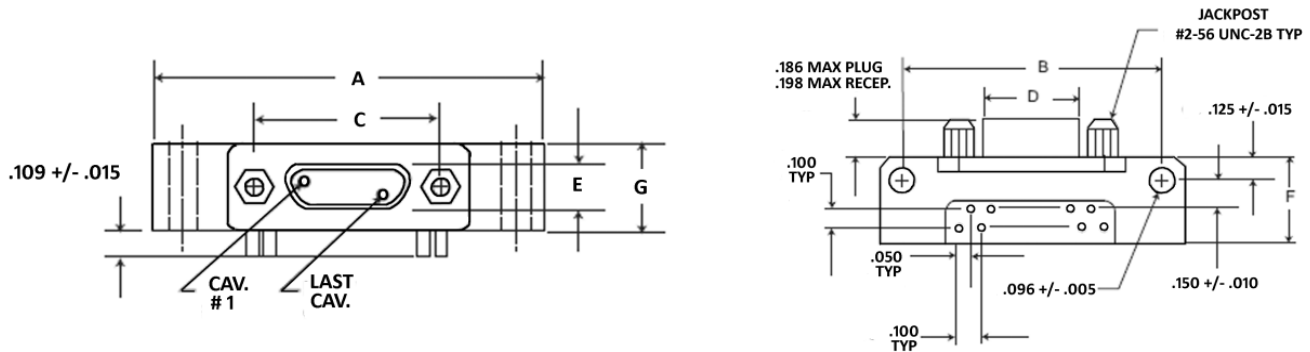


	A	B	C	D	E	F	G	H	J	K
	MAX	+/- .007	+/- .005	MAX	MAX	MAX	MAX	MAX	MAX	MAX
MSWD-9PBS	1.390	1.150	0.565	0.785	0.334	0.185	0.308	0.165	0.355	0.555
MSWD-9SBS	1.390	1.150	0.565	0.785	0.402	0.253	0.308	0.165	0.355	0.555
MSWD-15PBS	1.390	1.150	0.715	0.935	0.484	0.185	0.308	0.165	0.355	0.555
MSWD-15SBS	1.390	1.150	0.715	0.935	0.552	0.253	0.308	0.165	0.355	0.555
MSWD-21PBS	1.690	1.450	0.865	1.085	0.634	0.185	0.308	0.165	0.355	0.555
MSWD-21SBS	1.690	1.450	0.865	1.085	0.702	0.253	0.308	0.165	0.355	0.555
MSWD-25PBS	1.740	1.500	0.965	1.185	0.734	0.185	0.308	0.165	0.355	0.555
MSWD-25SBS	1.740	1.500	0.965	1.185	0.802	0.253	0.308	0.165	0.355	0.555
MSWD-31PBS	2.040	1.800	1.115	1.335	0.884	0.185	0.308	0.165	0.355	0.555
MSWD-31SBS	2.040	1.800	1.115	1.335	0.952	0.253	0.308	0.165	0.355	0.555
MSWD-37PBS	2.340	2.100	1.265	1.485	1.034	0.185	0.308	0.165	0.355	0.555
MSWD-37SBS	2.340	2.100	1.265	1.485	1.102	0.253	0.308	0.165	0.355	0.555
MSWD-51PBS	2.270	2.000	1.215	1.435	0.984	0.228	0.351	0.165	0.355	0.555
MSWD-51SBS	2.270	2.000	1.215	1.435	1.052	0.296	0.351	0.165	0.355	0.555



MSWD - MICRO D CONNECTOR SERIES

MICRO-D METAL SHELL – RIGHT ANGLE PCB MOUNT

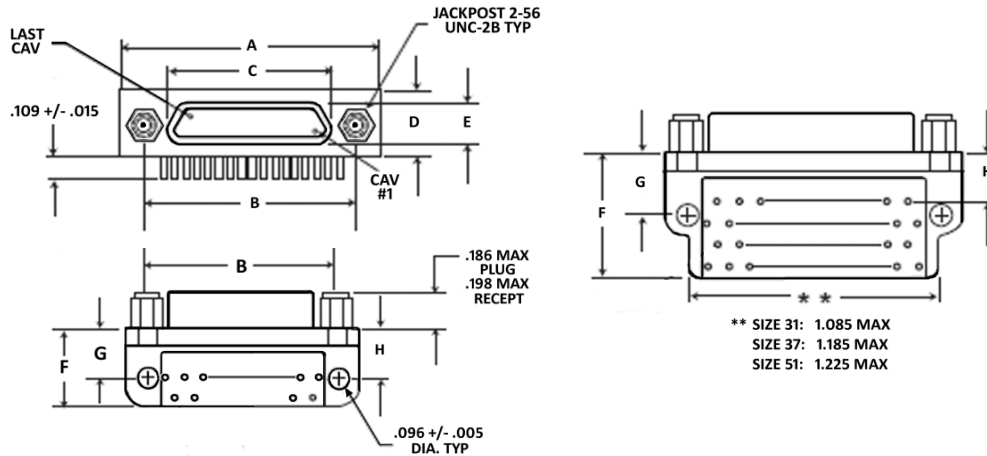


	A	B	C	D	E	F	G
	MAX	+/- .007	+/- .005	MAX	MAX	MAX	MAX
MSWD-9PBR	1.390	1.150	0.565	0.785	0.334	0.185	0.308
MSWD-9SBR	1.390	1.150	0.565	0.785	0.402	0.253	0.308
MSWD-15PBR	1.540	1.300	0.715	0.935	0.484	0.185	0.308
MSWD-15SBR	1.540	1.300	0.715	0.935	0.552	0.253	0.308
MSWD-21PBR	1.690	1.450	0.865	1.085	0.634	0.185	0.308
MSWD-21SBR	1.690	1.450	0.865	1.085	0.702	0.253	0.308
MSWD-25PBR	1.790	1.550	0.965	1.185	0.734	0.185	0.308
MSWD-25SBR	1.790	1.550	0.965	1.185	0.802	0.253	0.308
MSWD-31PBR	2.040	1.800	1.115	1.335	0.884	0.185	0.308
MSWD-31SBR	2.040	1.800	1.115	1.335	0.952	0.253	0.308
MSWD-37PBR	2.340	2.100	1.265	1.485	1.034	0.185	0.308
MSWD-37SBR	2.340	2.100	1.265	1.485	1.102	0.253	0.308
MSWD-51PBR	1.875	1.600	1.215	1.435	0.984	0.228	0.351
MSWD-51SBR	1.875	1.600	1.215	1.435	1.052	0.296	0.351



MSWD - MICRO D CONNECTOR SERIES

MICRO-D METAL SHELL – RIGHT ANGLE PCB MOUNT - CONDENSED



	A	B	C	D	E	F	G	H
	MAX	+/- .005	MAX	MAX	MAX	MAX	+/- .010	+/- .010
MSWD-9PBR	0.785	0.565	0.334	0.308	0.185	0.420	0.250	0.230
MSWD-9SR	0.785	0.565	0.402	0.308	0.253	0.420	0.250	0.230
MSWD-15PBR	0.935	0.715	0.484	0.308	0.185	0.420	0.250	0.130
MSWD-15SBR	0.935	0.715	0.552	0.308	0.253	0.420	0.250	0.130
MSWD-21PBR	1.085	0.865	0.634	0.308	0.185	0.185	0.250	0.130
MSWD-21SBR	1.085	0.865	0.702	0.308	0.253	0.420	0.250	0.130
MSWD-25PBR	1.185	0.965	0.734	0.308	0.185	0.420	0.250	0.130
MSWD-25SBR	1.185	0.965	0.802	0.308	0.253	0.420	0.250	0.130
MSWD-31PBR	1.335	1.115	0.884	0.308	0.185	0.520	0.250	0.130
MSWD-31SBR	1.335	1.115	0.952	0.308	0.253	0.520	0.250	0.130
MSWD-37PBR	1.485	1.265	1.034	0.308	0.185	0.520	0.250	0.130
MSWD-37SBR	1.485	1.265	1.102	0.308	0.253	0.520	0.250	0.130
MSWD-51PBR	1.435	1.215	0.984	0.351	0.228	0.650	0.300	0.150
MSWD-51SBR	1.435	1.215	1.052	0.351	0.296	0.650	0.300	0.150



MSWD - MICRO D CONNECTOR SERIES

MIL STANDARD 681 WIRE COLOR CODE

PIN NO.	MIL-STD-681 NO.	BASE COLOR	FIRST STRIPE	SECOND STRIPE	THIRD STRIPE	PIN NO.	MIL-STD-681 NO.	BASE COLOR	FIRST STRIPE	SECOND STRIPE	THIRD STRIPE
1*	0	BLK				51	957	WHT	GRN	VIO	
2*	1	BRN				52	958	WHT	GRN	GRY	
3*	2	RED				53	967	WHT	BLU	VIO	
4*	3	ORN				54	968	WHT	BLU	GRY	
5*	4	YEL				55	978	WHT	VIO	GRY	
6*	5	GRN				56	9012	WHT	BLK	BRN	RED
7*	6	BLU				57	9013	WHT	BLK	BRN	ORN
8*	7	VIO				58	9014	WHT	BLK	BRN	YEL
9*	8	GRY				59	9015	WHT	BLK	BRN	GRN
10*	9	WHT				60	9016	WHT	BLK	BRN	BLU
11	90	WHT	BLK			61	9017	WHT	BLK	BRN	VIO
12	91	WHT	BRN			62	9018	WHT	BLK	BRN	GRY
13	92	WHT	RED			63	9023	WHT	BLK	RED	ORN
14	93	WHT	ORN			64	9024	WHT	BLK	RED	YEL
15	94	WHT	YEL			65	9025	WHT	BLK	RED	GRN
16	95	WHT	GRN			66	9026	WHT	BLK	RED	BLU
17	96	WHT	BLU			67	9027	WHT	BLK	RED	VIO
18	97	WHT	VIO			68	9028	WHT	BLK	RED	GRY
19	98	WHT	GRY			69	9034	WHT	BLK	ORN	YEL
20	901	WHT	BLK	BRN		70	9035	WHT	BLK	ORN	GRN
21	902	WHT	BLK	RED		71	9036	WHT	BLK	ORN	BLU
22	903	WHT	BLK	ORN		72	9037	WHT	BLK	ORN	VIO
23	904	WHT	BLK	YEL		73	9038	WHT	BLK	ORN	GRY
24	905	WHT	BLK	GRN		74	9045	WHT	BLK	YEL	GRN
25	906	WHT	BLK	BLU		75	9046	WHT	BLK	YEL	BLU
26	907	WHT	BLK	VIO		76	9047	WHT	BLK	YEL	VIO
27	908	WHT	BLK	GRY		77	9048	WHT	BLK	YEL	GRY
28	912	WHT	BRN	RED		78	9056	WHT	BLK	GRN	BLU
29	913	WHT	BRN	ORN		79	9057	WHT	BLK	GRN	VIO
30	914	WHT	BRN	YEL		80	9058	WHT	BLK	GRN	GRY
31	915	WHT	BRN	GRN		81	9067	WHT	BLK	BLU	VIO
32	916	WHT	BRN	BLU		82	9068	WHT	BLK	BLU	GRY
33	917	WHT	BRN	VIO		83	9078	WHT	BLK	VIO	GRY
34	918	WHT	BRN	GRY		84	9123	WHT	BRN	RED	ORN
35	923	WHT	RED	ORN		85	9124	WHT	BRN	RED	YEL
36	924	WHT	RED	YEL		86	9125	WHT	BRN	RED	GRN
37	925	WHT	RED	GRN		87	9126	WHT	BRN	RED	BLU
38	926	WHT	RED	BLU		88	9127	WHT	BRN	RED	VIO
39	927	WHT	RED	VIO		89	9128	WHT	BRN	RED	GRY
40	928	WHT	RED	GRY		90	9134	WHT	BRN	ORN	YEL
41	934	WHT	ORN	YEL		91	9135	WHT	BRN	ORN	GRN
42	935	WHT	ORN	GRN		92	9136	WHT	BRN	ORN	BLU
43	936	WHT	ORN	BLU		93	9137	WHT	BRN	ORN	VIO
44	937	WHT	ORN	VIO		94	9138	WHT	BRN	ORN	GRY
45	938	WHT	ORN	GRY		95	9145	WHT	BRN	YEL	GRN
46	945	WHT	YEL	GRN		96	9146	WHT	BRN	YEL	BLU
47	946	WHT	YEL	BLU		97	9147	WHT	BRN	YEL	VIO
48	947	WHT	YEL	VIO		98	9148	WHT	BRN	YEL	GRY
49	948	WHT	YEL	GRY		99	9156	WHT	BRN	GRN	BLU
50	956	WHT	GRN	BLU		100	9157	WHT	BRN	GRN	VIO

* 10 COLORS REPEAT IS THE STANDARD WIRE COLOR CODE FOR MIL-DTL-83513 STYLE CONNECTORS

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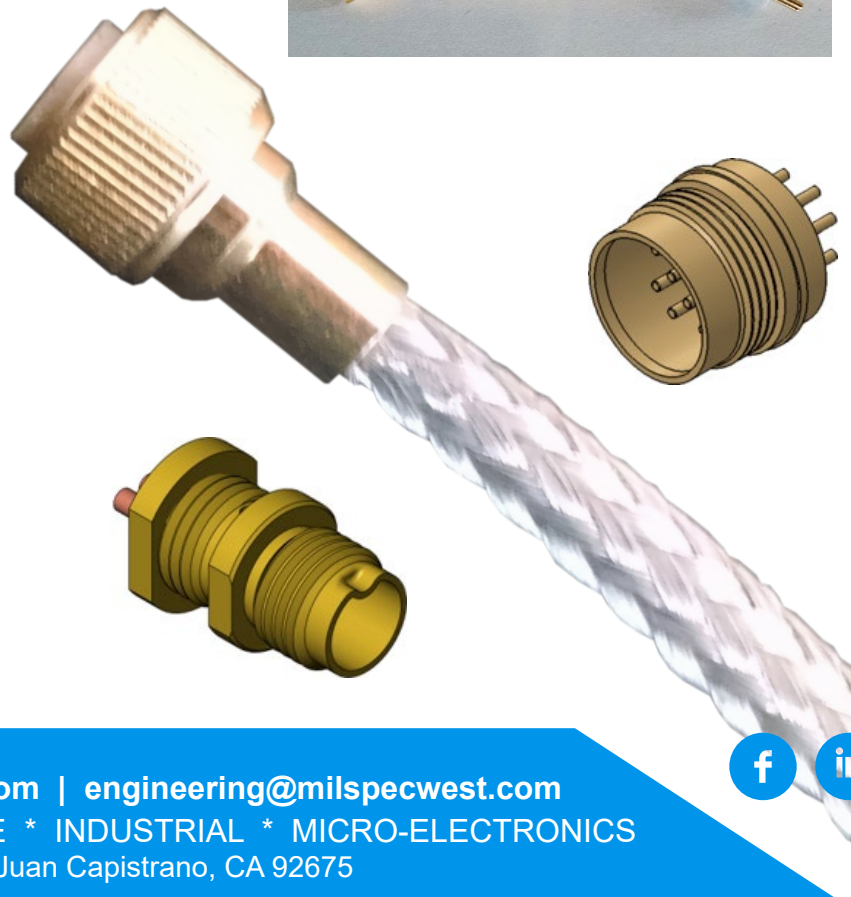


About Milspecwest

Milspecwest is committed to providing quality parts delivered on time. This is completed by using quality systems throughout all facets of our business that are continually improved to better serve our customers. Milspecwest strives to meet and exceed our customer's expectations while maintaining profitability, efficiency and a focus on our company's growth.

When you're looking for the perfect part but the company that made it is either shut down or having quality and delivery issues, it can be very frustrating. Not only are you unable to get your deliverables taken care of on time, but your boss is probably giving you a hard time about it as well. At Milspecwest we understand, that's why we opened our doors – to eliminate the hassle of overseas stocked micro connectors and increase both the speed of delivery and the quality of service. That means not only are you getting the same parts as you'd look for from companies such as Microtech or Comtronic, but you'll get them better than ever before.

Don't just take our word on it, give us a try and experience the difference! Call 949-636-9677





Check Out Our Full Line...

Micro Circular Connectors

MilSpecWest's line of Miniature and Ultra Miniature connectors offers an effective solution to many applications where a reliable, easy to use connection is required.

MSW Micro line is our standard line of Micro connectors. Specifications and sizing is designed to accommodate most requirements.

The MSWH Micro line is MilSpecWest's heavy duty line. The Heavy Duty line is 15% larger than the MSW line. They offer a larger cable diameter and wire gauge.

The MSWU Micro line is Ultra small micro connectors. The size is 30% smaller than the MSW line. Same robust specifications as the MSW line but designed to fit a smaller footprint.



Micro-D Connectors

MSWD Micro-D connectors are used in applications requiring highly reliable, extremely small, lightweight connectors with higher density contact configurations than available in traditional rectangular connectors. They are available in 7 shell sizes accommodating from 9 to 51 contacts with additional special arrangements available.



These connectors are designed to meet the demands for an environmental, high performance, rugged, moisture-sealed microminiature connector. Twist pin technology is a key feature of these connectors with 25 AWG pins or sockets on 0.050 (1.27) centers.

Aluminum shells with Electroless Nickel finish provide good strength and offer excellent EMI and RFI protection. Stainless steel shells are also available for additional environmental integrity. Silicone elastomer interfacial seals provide a moisture and humidity seal between each contact and between contacts and shell.

NanoConn Series NC805

NanoConn Series NC805 is modeled after the popular MIL-DTL-38999 Series III connector series but with half the size and a sizeable weight savings. It is interchangeable and inter-mateable with Glenair's Mighty Mouse 805 series of connectors.



These small but rugged connectors offer excellent vibration resistance, EMI shielding and waterproof performance to IP67. Gold plated contacts are 23 AWG with arrangements having from 4 to 130 positions. Available styles are the self-locking plugs, in-line receptacles, square flange receptacles and jam nut receptacles – all with either an integrated banding platform or accessory threads.

Cable Assemblies

MILSPECWEST manufactures cable assemblies and wire harnesses utilizing our MSW MICRO connectors and a wide range of power, signal and data connectors including MIL-DTL 26482, MIL-DTL-38999, SMA, BNC and many others.



Cables can be shielded or un-shielded with conductor sizes from 32 AWG to 24 AWG. We stock several styles of MILSPEC cables and specialty small gauge cables in order to provide quick turnaround on simple pigtail cables or complex multi-wire harnesses.

Need something special?

(949) 636-9677

We have excellent sources for manufacturing custom requirements.

Our costs are competitive and our turnaround is quick.

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