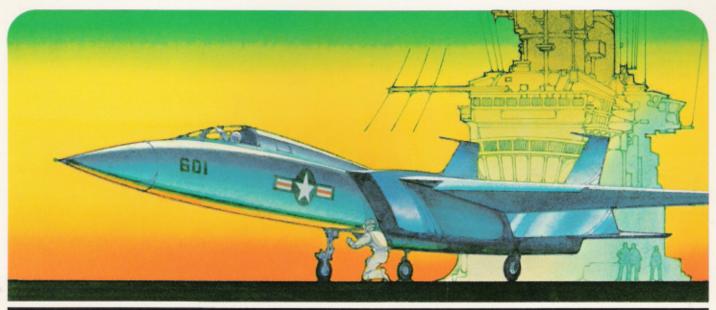
815 Series High-Density Bayonet-Locking Connectors Bulletin 118





|22





MIL-C-81511 MII 81511 MIL-C-8151 IL-C-81511 MIL-(511 MIL-C-81511

INTRODUCTION

Individual Contact Release (ICR) is a stateof-the-art advancement in the Deutsch Company's MIL-C-81511 (Series 3 and 4) connectors. The ICR system permits each crimp-type contact to be individually inserted, released and extracted from the rear of the connector in the coupled or uncoupled position. And, during contact insertion there is a positive "feel" when the contact reaches the locked position.

Featuring one of the industry's lowest contact insertion forces...these Deutsch Connectors provide several additional major advantages over earlier MIL-C-81511 designs:

- Prevention of inadvertent contact release
- □ Simplified assembly procedures
- □ Reduced assembly and rework costs
- □ Higher temperature resistance
- □ Up to 30% less weight
- □ Lower profile
- □ More effective sealing
- Up to 10 lbs.-in. lower mating forces

The Deutsch ICR system incorporates a non-metallic retention mechanism using high strength molded-in plastic retention fingers which are enclosed in rigid plastic cylinders so that it is impossible to overstress the system during contact insertion or extraction or by unauthorized probing. Elimination of metal retention clips saves weight and increases dielectric strength between contacts.

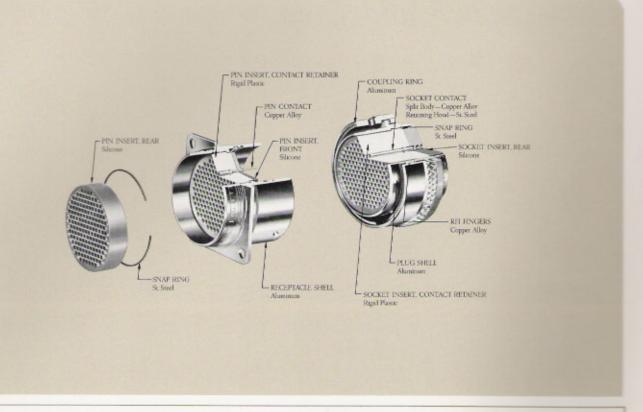
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Design Features



The low contact insertion force inherent in the ICR contact system can reduce assembly time tremendously because in most cases contacts can be inserted into the connector without the use of an insertion tool. Following this simple, single step procedure the contact is positively contained in the connector thereby preventing inadvertent contact release. The integrity of the ICR contact system has been verified by the contact retention system test requirements of MIL-C-81511.

Savings in rework costs can be achieved because contacts can be extracted without uncoupling the connector. This feature also does away with the need to insert tools from the connector front, thereby eliminating the possibility of damaging the critical interfacial sealing areas.

The fully bonded insert construction provides complete dielectric separation between contacts, eliminating the problem of air paths within the connector insert. The bonded insert construction also prevents "cross-pinning." Once the contact enters the contact cavity of the plastic insert, it cannot crossover into an adjacent cavity. The Deutsch 815 Series connectors are intermateable and intermountable with earlier versions of MIL-C-81511. However, the shorter contacts of the Deutsch connector should not be intermixed with those of Series 1 and 2 connectors.

The scoop-proof feature of these connectors prevents damage to pin contacts when the mating half of the connector is accidentally wiped across the pin insert...as may occur in blind mating.

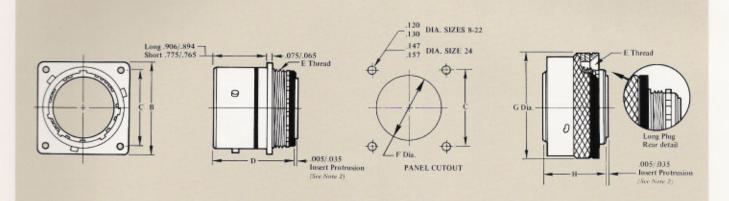
The 815 connectors are available in two versions: a long shell version (commonly called 100% scoop-proof) and a short shell version (commonly called 50% scoop-proof). The short shell version will prevent scooping damage providing the pin contacts are used in the receptacle half of the connector. The long shell version will prevent scooping damage with the pins used in either the plug or receptacle.

Contacts are normally inserted or extracted by a simple plastic tool. Only one tool is needed for a given contact size. Inexpensive and expendable, the tool will fail before damage occurs to the contact or the retention system.

Shell Styles

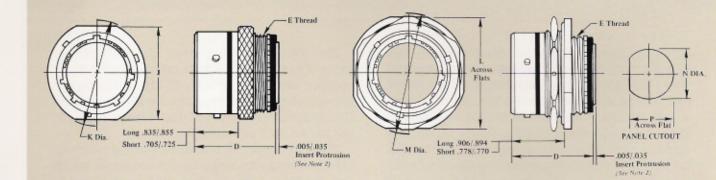
SQUARE FLANGE MOUNT RECEPTACLE

PLUG



CABLE CONNECTING RECEPTACLE

SINGLE HOLE MOUNT RECEPTACLE



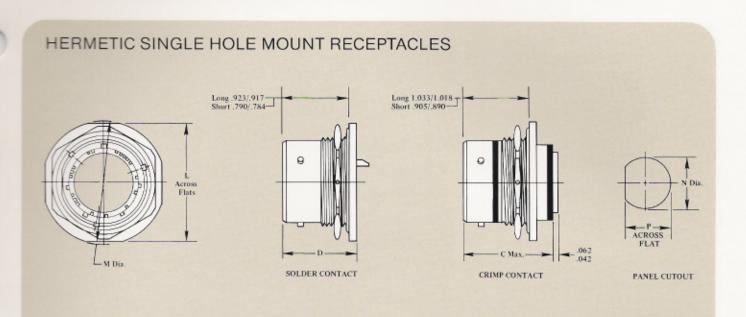
Shell	в	С	D±	.010	E	F	G	Η±	.010	J	к	L	м	N	Р
Size	±.006	$\pm.005$	Long	Short	Thread	$\pm.005$	MAX.	Long	Short		MAX.	$\pm.010$	±.010	±.005	$\pm.005$
8	.812	.594	1.308	1.177	1/2-28UNEF-2A	.635	.850	1.282	.937	.565/.553	.780	.979	1.062	.635	.605
10	.937	.719	1.308	1.177	%-28UN-2A	.760	.975	1.282	.937	.690/.678	.900	1.104	1.187	.760	.730
14	1.125	.906	1.308	1.177	36-28UN-2A	1.010	1.225	1.282	.937	.940/.928	1.150	1.391	1.500	1.010	.980
16	1.250	.969	1.308	1.177	1-28UN-2A	1.135	1.350	1.282	.937	1.066/1.054	1.280	1.516	1.625	1.135	1.105
18	1.343	1.062	1.308	1.177	1%-28UN-2A	1.260	1.475	1.282	.937	1.190/1.178	1.400	1.641	1.735	1.260	1.230
*20	1.467	1.156	1.337	-	1¼-28UN-2A	1.385	1.624	1.311	-	1.315/1.305	1.525	1.766	1.860	1.385	1.355
*22	1.562	1.250	1.337	-	1%-28UN-2A	1.510	1.749	1.311	_	1.440/1.430	1.650	1.891	1.985	1.510	1.480
*24	1.703	1.375	1.377	-	1½-28UN-2A	1.635	1.874	1.311	-	1.565/1.555	1.775	2.016	2.110	1.635	1.605

*Shell Sizes 20, 22 and 24 are available in long shell series only.

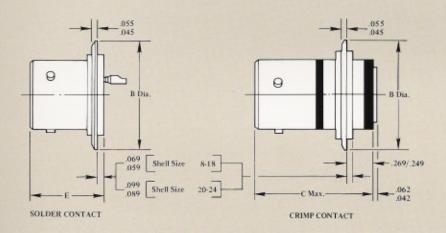
Notes: (1) Max. panel thickness .125

(2) Arrangements containing size 12 contacts, insert protrusion .020/.070

(3) All dimensions are in inches.



HERMETIC SOLDER MOUNT RECEPTACLES





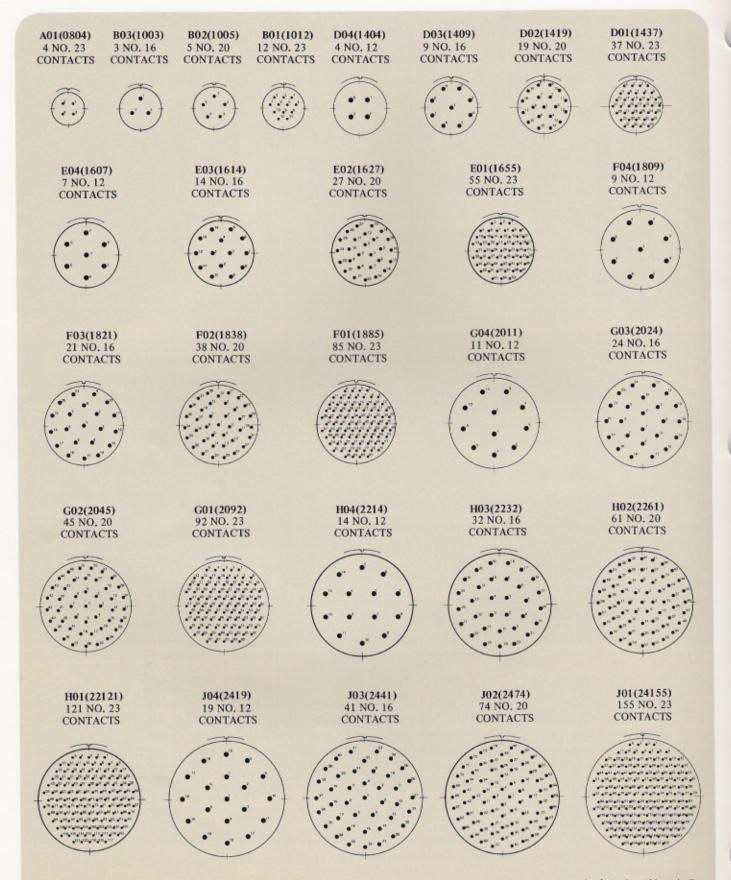
Bands shown are blue on connectors to denote rear release.

Shell	В	CN	MAX.	DN	IAX.	E±	.010	G	L	M	N	Р
Size		Long	Short	Long	Short	Long	Short	±.005	±.010	±.010	±.005	±.005
8	.945/.930	1.292	1.165	1.028	.895	.833	.710	.661	.979	1.062	.635	.605
10	1.070/1.055	1.292	1.165	1.028	.895	.833	.710	.786	1.104	1.187	.760	.730
14	1.320/1.305	1.292	1.165	1.028	.895	.833	.710	1.036	1.391	1.500	1.010	.980
16	1.446/1.431	1.292	1.165	1.028	.895	.833	.710	1.162	1.516	1.625	1.135	1.105
18	1.570/1.555	1.292	1.165	1.028	.895	.863	.730	1.286	1.641	1.735	1.260	1.230
*20	1.816/1.801	1.292	-	1.028	-	.893	-	1.441	1.766	1.860	1.385	1.355
*22	1.941/1.926	1.292	-	1.028	-	.893	-	1.566	1.891	1.985	1.510	1.480
*24	2.066/2.051	1.292	-	1.028	-	.893		1.691	2.016	2.110	1.635	1.605

*Shell Sizes 20, 22 and 24 are available in long shell series only.

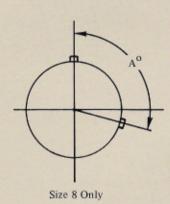
Notes: (1) Max. panel thickness .125 (2) All dimensions are in inches.

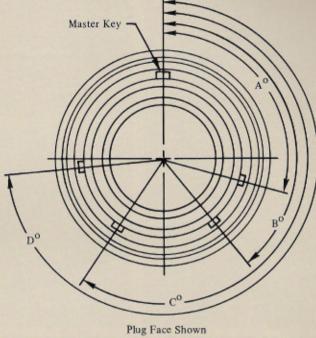
Insert Arrangements



Arrangements are shown looking at pin face (socket is opposite). Cavity identifying numbers are for reference only. Actual marking shall be as required by applicable specifications.

ALTERNATE SHELL KEYING POSITIONS





(Keyways in Receptacle Shells are opposite.)

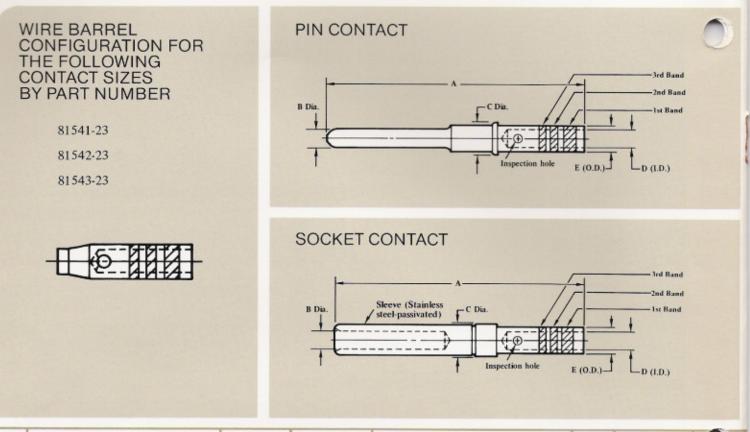
Kaulaa		SIZE	8			SIZES	10 & 14			SIZES	16 & 18	
Keying Position	Ao	B°	Co	Do	A°	Bo	C°	D°	A°	B°	Co	D°
1	128	-	_	-	105	140	215	265	105	140	215	265
2	190	-	-	-	102	132	248	320	18	149	192	259
3	205	-	-	-	80	118	230	312	92	152	222	342
4	220	-	_	-	35	140	205	275	84	152	204	334
5	235	-	_	-	64	155	235	304	24	135	199	240
6	250	_	_	_	35	115	220	270	98	152	268	338

SHORT SHELL KEY/KEYWAY LOCATIONS

LONG SHELL KEY/KEYWAY LOCATIONS

Kauina		SIZ	E 8			SIZES	10 & 14			SIZES	16 & 18		S	SIZES 20	0, 22 & 2	4
Keying Position	Ao	B°	C°	Do	A٥	€ B°	C°	Do	A°	B∘	Co	D°	A°	Bo	Co	Do
1	105	140	215	265	95	141	208	236	80	142	196	293	80	142	196	293
2	102	132	248	320	113	156	182	292	135	170	200	310	135	170	200	310
3	80	118	230	312	90	145	195	252	49	169	200	244	49	169	200	244
4	35	140	205	275	53	156	220	255	66	140	200	257	66	140	200	257
5	64	155	234	304	119	146	176	298	62	145	180	280	62	145	180	280
6	91	131	197	240	51	141	184	242	79	153	197	272	79	153	197	272

Contact & Tooling Information



	c	ONTACT		Connector (3)	с	OLOR BAND	s			
Size	Deutsch Part Number	Military Part Number	Style	Shell Series	First	Second	Third	A MAX.	B DIA.	C MAX.
23	81541-23	M39029/18-23-22	PIN	A&B	VIOLET	VIOLET	BROWN	.644	.0275/.0260	.058
23	81542-23	M39029/16-23-22	SOCKET	В	VIOLET	BLUE	BROWN	.625	.031/.029	.058
23	81543-23	M39029/17-23-22	SOCKET	A	RED	VIOLET	BROWN	.955	.031/.029	.058
23	81541-238	M39029/18-23-28	PIN	A&B	BLUE	VIOLET	BROWN	.644	.0275/.0260	.058
23	81542-238	M39029/16-23-28	SOCKET	В	BLUE	BLUE	BROWN	.625	.031/.029	.058
23	81543-238	M39029/17-23-28	SOCKET	A	BROWN	VIOLET	BROWN	.955	.031/.029	.058
22	CTS-S22/22	M39029/22-22-22	SOCKET	L	BROWN	WHITE	BROWN	.345	.033/.031	.064
20	81541-20	M39029/18-20-20	PIN	A&B	GRAY	VIOLET	BROWN	.644	.041/.039	.079
20	81542-20	M39029/16-20-20	SOCKET	В	GRAY	BLUE	BROWN	.625	.044/.042	.079
20	81543-20	M39029/17-20-20	SOCKET	A	ORANGE	VIOLET	BROWN	.955	.044/.042	.079
20	109032	M39029/15-20-20	SOCKET	L	RED	RED	NONE	.345	.044/.042	.079
16	81541-16	M39029/18-16-16	PIN	A&B	WHITE	VIOLET	BROWN	.644	.063/.061	.111
16	81542-16	M39029/16-16-16	SOCKET	В	WHITE	BLUE	BROWN	.625	.068/.065	.111
16	81543-16	M39029/17-16-16	SOCKET	A	YELLOW	VIOLET	BROWN	.955	.068/.065	.111
16	109033	M39029/15-16-16	SOCKET	L	BLUE	BLUE	NONE	.345	.066/.064	.111
12	81541-12	M39029/18-12-12	PIN	A&B	BLACK	GRAY	BROWN	.680	.095/.093	.172
12	81542-12	M39029/16-12-12	SOCKET	В	BLACK	VIOLET	BROWN	.650	.100/.097	.172
12	81543-12	M39029/17-12-12	SOCKET	A	GREEN	VIOLET	BROWN	.970	.100/.097	.172

NOTES: (1) Body material: Per MIL-C-39039, composition A.

(2) Body finish: Gold per MIL-G-45204, type II, class 1, over a suitable underplating, excluding silver.
(3) Contacts designed for use in long (A) or short (B) shell series or Hermetic rear release (L) connectors as designated in tab block.

CONTACT RETENTION MECHANISM TESTING

To verify the design integrity of the Deutsch contact retention mechanism, a number of rigorous tests have been performed.

- Temperature life with contact retention
- Gage location and retention
- Pin stability
- Retention system fluid exposure
- Insertion/removal tool abuse
- Contact retention
- ·Contact walkout

These tests are described in detail in specification MIL-C81511.

NOTES:

1.

Shielded wire contacts may be substituted for size 16 and size 12 power contacts by replacing the dash in the Deutsch insert arrangement number with the applicable cable group indicator (see page 8). See page 10 for details on shielded wire contacts.

2.

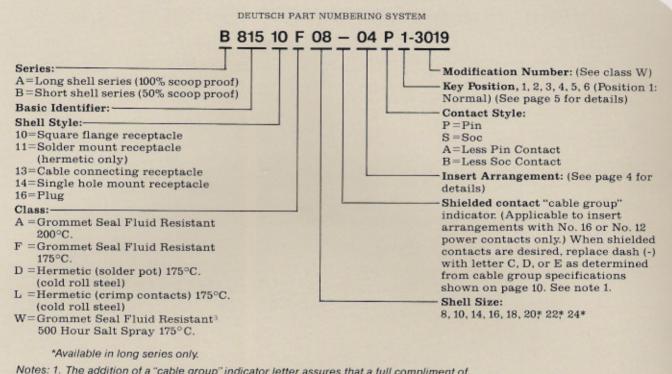
Thermocouple contacts are also available. See page 11 for details.

D MIN.	E MAX.	Weight MAX. (Ibs.)	Wire Gage	Crimp Tool Positioner (4) (5)	Strip Length ±.030	Deutsch Insertion Extraction Tool	Military Insertion Extraction Tool	Sealing Plugs Deutsch Part Number	Sealing Plugs Military Part Number
.033	.050	.00023	22 THRU 28	K338-1 (M22520/2-13)	.192	81515-23	MS3160-22	81539-23	M81511/39-22
.033	.050	.00023	22 THRU 28	K338-1 (M22520/2-13)	.192	81515-23	MS3160-22	81539-23	M81511/39-22
.033	.050	.00057	22 THRU 28	K339-1 (M22520/2-16)	.192	81515-23	MS3160-22	81539-23	M81511/39-22
.018	.050	.00053	28 THRU 32	K338-1 (M22520/2-13)	.192	81515-23	MS3160-22	81539-23	M81511/39-22
.018	.050	.00053	28 THRU 32	K338-1 (M22520/2-13)	.192	81515-23	MS3160-22	81539-23	M81511/39-22
.018	.050	.00053	28 THRU 32	K339-1 (M22520/2-16)	.192	81515-23	MS3160-22	81539-23	M81511/39-22
.033	.050	.00011	22 THRU 28	K330-1 (M22520/2-19)	.207	81515-23	MS3160-22		
.042	.063	.00034	20 THRU 24	K340-1 (M22520/2-14)	.232	81515-20	MS3160-20	81539-20	M81511/39-20
.042	.063	.00045	20 THRU 24	K340-1 (M22520/2-14)	.232	81515-20	MS3160-20	81539-20	M81511/39-20
.042	.063	.00102	20 THRU 24	K342-1 (M22520/2-17)	.232	81515-20	MS3160-20	81539-20	M81511/39-20
.042	.063		20 THRU 24	K331-1 (M22520/2-20)	.207	81515-20	MS3160-20		
.062	.094	.00090	16 THRU 20	K341-1 (M22520/2-15)	.232	81515-16	MS3160-16	81539-16	M81511/39-16
.062	.094	.00090	16 THRU 20	K341-1 (M22520/2-15)	.232	81515-16	MS3160-16	81539-16	M81511/39-16
.062	.094	.00190	16 THRU 20	K343-1 (M22520/2-18)	.232	81515-16	MS3160-16	81539-16	M81511/39-16
.062	.094	-	16 THRU 20	K332-1 (M22520/2-21)	.207	81515-16	MS3160-16		
.097	.153	.00231	12 AND 14	TP360-1 (M22520/1-09)	.266	81515-12	MS3160-12	81539-12	M81511/39-12
.097	.153	.00242	12 AND 14	TP360-1 (M22520/1-09)	.266	81515-12	MS3160-12	81539-12	M81511/39-12
.097	.153	.00517	12 AND 14	TP365-1 (M22520/1-10)	.266	81515-12	MS3160-12	81539-12	M81511/39-12

(4) For termination of size 23 thru 16 contacts, use Daniels AFM8 (M22520/2-01) crimp tool with appropriate positioner per tab block. For size 12 contacts, use Daniels AF8 (M22520/1-01) crimp tool with appropriate positioner. Equivalent military tool and positioner part numbers are shown in parentheses.

(5) For equivalent Buchanan crimp tool and positioner part numbers, see information drawing 107901.

Ordering Information



Notes: 1. The addition of a "cable group" indicator letter assures that a full compliment of shielded contacts will be supplied in lieu of the power contacts. If a combination of power and shielded contacts are required within the same arrangement, order a standard connector and, in addition, order the necessary shielded contacts separately. See page 10.

- 2. Thermocouple contacts are available. See page 11 for part numbers.
- 3. Add -3019 Modification.

				AP	PLICABILIT	Y OF CLAS	SES			
		(100	SERIES 3 % Scoop-p) proof)			(50)	SERIES 4 % Scoop-p		
CLASS	F	А	D	L	w	F	A	D	L	w
Square Flange Receptacle	/41 A81510	/41 A81510	-	-	/41 A81510	/51 B81510	/51 B81510	-	_	/51 B81510
Solder Mount Hermetic Receptacle	-	-	/42 A81511	/47 A81511	_	_	-	/52 B81511	/57 B81511	_
Single Hole Mount Receptacle	/49 A81514	/49 A81514	/44 A81514	/48 A81514	/49 A81514	/53 B81514	/53 B81514	/54 B81514	/50 B81514	/53 B81514
Cable Connecting Receptacle	/45 A81513	/45 A81513	-	_	/45 A81513	/55 B81513	/55 B81513	-	-	/55 A81513
Plug	/46 A81516	/46 A81516	_	_	/46 A81516	/56 B81516	/56 B81516	-	_	/56 B81516

MILITARY STANDARD PART NUMBERING SYSTEM M81511/ 41 F D 01 P 1 Alternate Keying Positions: Basic Military Part No.-1, 2, 3, 4, 5, 6 Specification Slash No. and Shell Style Position 1=Normal(See page 5 for details) Series 3.=Long shell series (100% scoop proof)' Contact Style: /41 Square Flange Receptacle P=Pin /42 Solder Mount Receptacle (Class D Hermetic) S=Socket /44 Single Hole Mount Receptacle A=Less Pin Contact (Class D Hermetic) B=Less Socket Contacts /45 Cable Connecting Receptacle **Insert Arrangement:** /46 Plug /47 Solder Mount Receptacle (Class L Hermetic) (See page 4 for details) /48 Single Hole Mount Receptacle Shell Size: (use letter designation) 8 10 14 16 18 20* 22* 24* A B D E F G H J (Class L Hermetic) /49 Single Hole Mount Receptacle Series 4.=Short shell series (50% scoop proof)1 Class: A =200°C. Grommet Seal /50 Single Hole Mount Receptacle (Class L Hermetic) Fluid Resistant /51 Square Flange Receptacle F =175°C. Grommet Seal /52 Solder Mount Receptacle (Class D Hermetic) Fluid Resistant D=175°C. Hermetic Solder Contacts /53 Single Hole Mount Receptacle /54 Single Hole Mount Receptacle L =175°C. Hermetic Crimp Contacts (Class D Hermetic) W=Grommet Seal Fluid Resistant **/55** Cable Connecting Receptacle 500 Hour Salt Spray 175°C. /56 Plug /57 Solder Mount Receptacle (Class L Hermetic)

*Available in long series only. Note: 1. For shell configuration see applicability of classes.

OTHER DESIGN FEATURES

Individual Contact Sealing

Pin contacts are surrounded by conicalshaped risers which fit into chamfered lead-ins of the socket inserts upon mating. This "cork-in-bottle" sealing effect assures individual contact sealing at the connector interface.

Pin contacts are encapsulated in closelytoleranced rigid plastic to prevent excessive splaying, yet the design provides sufficient "float" to assure proper alignment of contacts.

Protection Against Bent Pins or Sockets Is Built Into the Design

If a pin is bent only slightly, the lead-inchamfer of the rigid plastic face acts as a funnel, straightening the pin and guiding it into the socket for proper engagement. The closely-toleranced plastic will not accept a contact that is bent beyond pre-established limits.

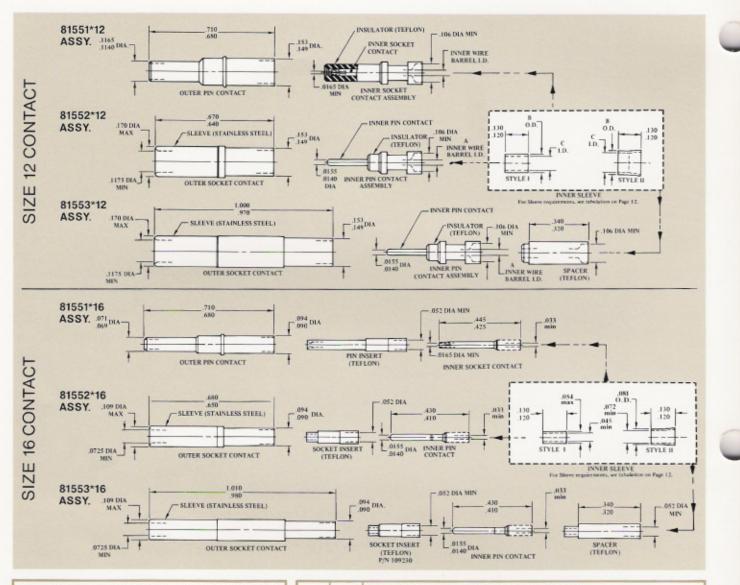
Multiple Seals Provide Protection Against Internal and External Contamination

In addition to individual contact sealing, the 815 Series connectors incorporate additional protective seals: interfacial compression seal, peripheral static/dynamic shell-toshell seal, insert to shell seal, and redundant wire seals to assure absolute sealing against environmental extremes.

Grounding Fingers To Reduce RFI

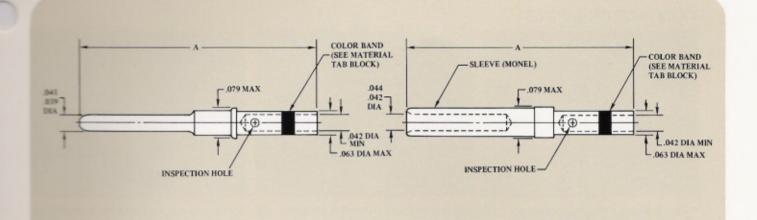
Spring fingers, located in the receptacle of the 50% scoop-proof version, and in the plug of the 100% scoop-proof version, assure a highly conductive path to ground for direct current as well as RFI signals. These grounding fingers make electrical engagement before the contacts engage. They meet or exceed the shell conductivity and attenuation requirements of MIL-C-81511.

Shielded Wire Contacts FOR REDUCED RFI



CC	NTAC	T ASSEMBL	Y SPECIFIC	ATIONS		щ В	INNER S	LEEVE	SPECI	FICAT	IONS
			INNER CO	ONTACT	SIZE	CABLE GROUP	PART NUMBER	STYLE	B MAX	C MIN	CABLE ACCOMMODATION
	P (2	CONTACT					109233	П	.081	.072	M81044/18-22 Shielded
SIZE	CABLE GROUP (2)	PART	PART	A MIN.	16	С	111788	1	.054	.045	W61044/16-22 Shielded
S	00	NUMBER	NUMBER				109233	Ш	.081	.072	M27500-22RC156
		81551C16	109228				100200				REVERE WH95623
16	C	81552C16	109227	.033	12	с	NONE USED	-	-	-	RG-180B/U MICRODOT 293-3922
		81553C16			12	U U	109254	11	.128	.109	RAYCHEM 9530D5117
		81551C12	109252				109253		.128	.113	M81044/18-22 Shielded
12	C	81552C12	109251	.021			103200		.120		
		81553C12	109251				109256	1	.104	.081	M27500-22RC156 REVERE WH95623
		81551D12	109245		12	D	109255	Ш	.128	.118	MICRODOT 250-4070
12	D	81552D12	109244	.033			109255	11	.128	.118	RAYCHEM 5022E5111
		81553D12	100211				111789	I	.100	.091	RATCHEM 5022E5111
		81551E12	109245				109253	11	.128	.113	DC 170D/U
12	E	81552E12	109244	.033	12	E	109256	1	.104	.081	RG 179B/U RG 188A/U
		81553E12	103244				111789	1	.100	.091	NG 100A/U

Thermocouple Contacts



THERMOCOUPLE CONTACT SPECIFICATIONS

CONTACT (1) PART NUMBER	STYLE	CONNECTOR SHELL SERIES	A MAX	CRIMP TOOL POSITIONER
81561-20*	PIN	A&B	.650	K340-1 (M22520/2-14)
81562-20*	SOCKET	В	.625	K340-1 (M22520/2-14)
81563-20*	SOCKET	A	.955	K342-1 (M22520/2-17)

MATERIAL

MATERIAL	CONTACT	BODY PLATING	COLOR BAND	MATCHING CONTACT MATERIAL	ISA CURVE
0	COPPER	GOLD FLASH	BROWN	COPPER CONSTANTAN	т
1	IRON	GOLD FLASH	WHITE	IRON CONSTANTAN	J
2	ALUMEL	UNPLATED	ORANGE	CHROMEL	к
3	CHROMEL	UNPLATED	BLACK	ALUMEL	к
4	COPPER CONSTANTAN	UNPLATED	GREEN	COPPER	т
5	IRON CONSTANTAN	UNPLATED	PURPLE	IRON	J

Notes to Shielded Wire Contacts:

1. Asterisk in shielded wire contact P/N identifies cable group. Replace asterisk with appropriate cable group letter.

For shielded wire contacts use insertion/extraction tool 81515-12 for size 12 Contacts and 81515-16 for size 16 Contacts.
Assembly instructions for shielded wire contacts are available. Request form 670 for Cable Group C, 671 for Cable Group D or 672 for Cable Group E.

Note to Thermocouple Contacts:

1. Asterisk in thermocouple contact P/N identifies material. Replace asterisk with appropriate "material designation" number when ordering. See material tabulation for appropriate number.

GENERAL SPECIFICATIONS

DIELECTRIC WITHSTANDING VOLTAGE (Test Voltage) VAC(rms)

Service Rating I UNMATED MATED SEA LEVEL 1800 1500

MATED

2300

Service Rating II

SEA LEVEL

UNMATED 2300

CONTACT SPACING

(Min, Nominal)

23 084 Center to Center

.1195 Center to Center 20

16 .160 Center to Center

12 .230 Center to Center

CUBBENT BATING

- 23 5.0 Amps.
- 20 7.5 Amps.
- 16 13 Amps.
- 12 23 Amps.

SILICONE INSERT

Front and rear silicone inserts are devoid of all organic matter.

CORROSION

Meets requirements of MIL-STD-1344, method 1001, test condition B.

CONTACT MILLIVOLT DROP

23 70 millivolts at 5 amps & 25°C

- 20 55 millivolts at 7.5 amps & 25°C
- 16 50 millivolts at 13 amps & 25°C
- 12 50 millivolts at 23 amps & 25°C

VIBRATION

Meets requirements of MIL-C-81511.

DIELECTRIC STRENGTH 300 volts/mil

CRIMP RETENTION

Meets requirements of MIL-STD-39029.

USABLE WIRE SIZE

23 Size Contact-Receive conductor

AWG 22 thru 26. Rear Insert will seal on smooth insulation from .030" to .054 O.D.

20 Size Contact-Receive conductor AWG 20 thru 24. Rear Insert will seal on smooth insulation from .040" to .074" O.D.

16 Size Contact-Beceive conductor AWG 16 thru 20. Rear Insert will seal on smooth insulation from .060" to .103" O.D.

12 Size Contact-Beceive conductor AWG 12 thru 14. Rear Insert will seal on smooth insulation from .097" to .135" O.D.

INSULATION RESISTANCE

5000 Megohms minimum at 25°C.

MOISTURE RESISTANCE

Insulation resistance in excess of 500 megohms at 25°C when tested in accordance with MIL-C-81511E.

TEMPERATURE

Operative at temperatures from -65°C to +200°C (Class A) -65°C to +175°C (Class W)

CONTACT RETENTION

Contacts withstand a minimum load of: ize

	Contact S
12 lbs	23
15 lbs	20
25 lbs	16
25 lbs	12

THERMAL SHOCK

Meets Requirements of MIL-C-81511.

DURABILITY

No electrical or mechanical defects after 500 cycles of engagement and disengagement per MIL-C-81511E.

ALTITUDE IMMERSION

Meets requirements of MIL-C-81511.

AIR LEAKAGE

Less than 0.01 micron cu. ft./hr. at 14.7 psi differential per MIL-C81511.

DIELECTRIC WITHSTANDING VOLTAGE (Test Voltage) ALTITUDE Wired, assembled, unmated connectors will withstand:

Service Rating I	Service Rating II	Simulated Altitude
700 VAC (rms)	800 VAC (rms)	50,000 ft
375 VAC (rms)	500 VAC (rms)	70,000 ft
200 VAC (rms)	200 VAC (rms)	110,000 ft

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TE Connectivity: DG1236R24-41S1-3025