HIGH-PERFORMANCE MIL-C-83733 QUALIFIED Temperature Ranges of - 65 C to +200 C Environment - Resistant

The Cannon DPK series are high performance environment- resistant, rectangular connectors qualified to MIL-C-83733 (USAF). They feature crimp snapin contacts in the dependable LITTLE CAESAR' rear release contact retention assembly. This field-proven assembly permits contacts to be inserted and extracted at the rear of the connector. Contacts are qualified to military specifications and are crimped with MIL-C-22520 crimp tools, using standard locators.

The versatile DPK Connector is suitable for many applications, particularly where environment or thermal protection is mandatory and high reliability is a design requirement.

These high performance connectors are available in two shell sizes with a variety of mounting configurations. There are 13 contact arrangements available accommodating from 18 to 185 standard contacts. The standard contacts are available in sizes 12, 16, 20 and 220. Shells are a die-cast aluminum alloy with eiectroless nickel finish. Insulators are a high grade, glass reinforced, resin conforming to MIL-M-14 which meets or exceeds the requirements of MIL-C-83733. Silicone rubber is used for wire sealing grommets, interfacial and peripheral seals



How To Order

MIL-C-83733 (USAF) Nomenclature M 83733/4 R B 101 MILITARY PART NUMBER INDICATOR BASIC SPECIFICATION— SPECIFICATION SHEET NUMBER CLASS: R - ENV IRONMENT RESISTANT SHELL SIZE CONTACT ARRANGEMENT

SHELL SIZE

A - Small shell

B - Largge shell

CONTACT MODIFICATION

G-MIL-C-38999 contacts. Size 22D for DPKA-131 and OPKB-185 contact arrangements only.

W-MIL-C-38999 type contacts. Size 22D wrap posts for DPKA-131 and DPKB-185 layouts. .025 (0.63) square posts for .340(8.64); extension from grommet face.

CONTACT ARRANGEMENT

Shell Size A-1 8. 32, 51 and 131 (MIL-STD-1 531). Shell Size B-48, 64, 78, 101 59W7, 71, 71C15, 161 and 185 (MIL-STO-1532).

CONTACT TYPE

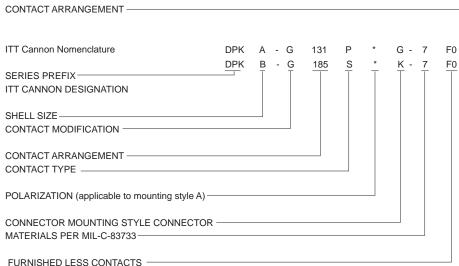
P-Pin (Receptacle Connectors) S-Socket (Plug Connectors)

POLARIZATION

Six-position shell polarization accomplished with Polarizing pins mounted on each end of shell flange. Available on mounting style A only.

MOUNTING STYLES

- A Two mounting holes .197(5.00) diameter (for either nuts or jackscrews ordered seprately) and two polarizing posts. (Replaces Mounting Style B.)
- C Four MS24700-2 bushings, included for the receptacle (M83733/5).
- F Four (4) clinch nuts jNo. 6-32 thread) M83733/6.



G - Four .281(7.14) diameter holes (for MS24700-2 bushings or 231-0019-000 spring mounts) (M83733/1).

(will not be stamoed an connector).

- H- Two mounting hole flange. Two (231-0019-000) spring mounts on the plug and two MS24700-2 bushing mounts on the receptacle (M83733/10/12).
- K Four captivated, non-rotating spring mounts an the plug (M83733/4).
 M-Two mounting hole flance. Two mounting

M- Two mounting hole flange. Two mounting holes .281(7.14) diameter (for MS24700-2 bushings or 231-0019-000 spring mounts) (M83733/9).

- X Two guide pins with two (231-0019-000) spring mounts on the plug and two guide sockets with two .197(5.00) diameter holes on the receptacle (M83733/2; /3)
- Y Two guide sockets with two (231-0019-000) spring mounts on the plug and two guide pins with .197(5.00) diameter holes on the receptacle (M83733/7; /8).
- Z Two staggered clinch nuts an the receptacle (No. 6-32 thread) (MB3733/11).

MATERIAL MOOIRCATION

- 7 standard product line, environment resistant per MIL-C-83733(USAF). QPL M83733



Performance and Material Specifications

MATERIALS

Shell Diecast aluminum alloy A-380 per QQ-A-591 Insulator Thermosetting Plastic/Thermoplastic Contacts Copper allowy per QQ-C-533 Grommets and Seals Silicone base elastomer Mounting hardware Stainless stell/Alloy steel

FINISHES

Shell	Electroless nickel plate per
	MIL-C-26074, Class 3
Contacts	Gold over suitable underplate per
	MIL-C-39029
Hardware	Passivate/Cadmium plate

MECHANICAL FEATURES

Shell Sizes	A (DPKA); B (DPKB)
Coupling	Friction, spring mount or jackscrew-coupling nut
Contact Arrangements	A-18,32,51,g131 B-48,64,78,101,59W1,71C15,161, G185
Contact Termination	Crimp

ELECTRICAL

		Sealing	g Range
Number of o	contacts: 18 thru 185	Wire D	iameter
Contact Sizes	Wire Accommodation (AWG)	Min.	Max.
22D	22,24,26	.030(0.76)	.060(1.52)
20	20,22,24	.040(1.02)	.083(2.11)
16	16,18	.063(1.60	.103(2.62)
12	12,14	.081(2.06)	.158(4.01)
12	RG-179/U	.081(2.06)	.158(4.01)
Shielded			

Max. current carrying capacity of contacts

Contact Size:	#12	#16	#20	#22	
Amperage:	23	13	7.5	5.0	

Test Voltages (AC-RMS)

			Service Rat	ings (M&I)		
Altitude	Equivalent Pressure	Ma	ted	Unn	nated	Unmated 161
(feet)	(Torr)	M	I	М	I	Arrangement
Sea level	-	1300	1800	1300	1800	1000
50,000	87.5	800	1000	550	600	350
70,000	35.5	800	1000	350	400	250
110,000	5.74	800	1000	200	200	150

Cross Reference From Military to Cannon Part Numbers

MIL-SPEC P/N	ITTC P/N	MIL-SPEC P/N	ITTC P/N	MIL-SPEC P/N	ITTC P/N	MIL-SPEC P/N	ITTC P/N
M83733/1RA018	DPKA-18PG-7	M83733/4RA018	DPKA-18SK-7	M83733/7RA018	DPKA-18SY-7	M83733/10RA018	DPKA- 18PH-7
M83733/1RA032	DPKA-32PG-7	M83733/4RAO32	DPKA-32SK-7	M83733/7RA032	DPKA-32SY-7	M83733/10RA032	DPKA-32PH-7
M83733/1RA051	DPKA-51PG-7	M83733/4RA051	DPKA-51SK-7	M83733/7RA051	DPKA-51SY-7	M83733110RA051	DPKA-51PH-7
M83733/1RA131	DPKA-G131PG-7	M83733/4RA131	DPKA-G131 SK-7	M83733/7RA131	DPKA-G131SY-7	M83733/10RB048	DPKB-48PH-7
M83733/1RB048	DPKB-48PG-7	M8373314RA048	DPKB-48SK-7	M83733/7RB048	DPKB-48SY-7	M83733/10RB064	DPKB-64PH-7
M83733/1RB064	DPKB-64PG-7	M8373314RB064	DPKB-64SK-7	M83733/7RB064	DPKB-64SY-7	M83733/10RB071	DPKB-71PH-7
M83733/1RB071	DPKB-71PG-7	M83733/4RB071	DPKB-71SK-7	M83733/7RB071	DPKB-72SY-7	M83733/10RB71C	DPKB-71C15PH-7
M83733/1RB71C	DPKB-71C15PG-7	M83733/4RB71C	DPKB-71CI 5SK-7	M83733/7RB71C	DPKB-71C15SY-7	M83733110RB078	DPKB-78PH-7
M83733/1RB078	DPKB-78PG-7	M83733/4RB078	DPKB-78SK-7	M83733/7RB078	DPKB-78SY-7	M83733110RB101	DPKB-101PH-7
M83733/1RB101	DPKB-101PG-7	M83733/4RB101	DPKB-101 SK-7	M83733/7RB101	DPKB-101 SY-7	M83733/11RA018	DPKA-18PZ-7
M83733/1RB185	DPKB-GI85PG-7	M83733/4RB185	DPKB-G185SK-7	M83733/BRA018	DPKA-18PY-7	M83733/11RA032	DPKA-32PZ-7
M83733/2RA018	DPKA-18SX-7	M83733/5RA018	DPKA-18PC-7	M83733/BRA032	DPKA-32PY-7	M83733/11RA051	DPKA-51PZ-7
M83733/2RA032	DPKA-32SX-7	M83733/5RA032	DPKA-32PC-7	M83733/BRA051	DPKA-51PY-7	M83733/11RB048	DPKB-48PZ-7
M83733/2RA051	DPKA-51SX-7	M83733/5RA051	DPKA-51PC-7	M83733/8RB048	DPKB-48PY-7	M83733/11RB064	DPKB-64PZ-7
M83733/2RA131	DPKA-GI 31 SM	M83733/5RA131	DPKA-G131 PC-7	M83733/8RB064	DPKB-64PY-7	M83733/11RB071	DPKB-71PZ-7
M83733/2RB048	DPKB-48SX-7	M83733/5RB048	DPKB-48PC-7	M83733/8RB071	DPKB-71PY-7	M83733/11RB71C	DPKB-71C15PZ-7
M83733/2RB064	DPKB-64SX-7	M83733/5RB064	DPKB-64PC-7	M83733/8RB71C	DPKB-71CI 5PY-7	M83733/11RB078	DPKB-78PZ-7
M83733/2RB071	DPKB-71SX-7	M83733/5RB71C	DPKB-71C15PC-7	M83733/BRB078	DPKB-78PY-7	M83733/11RB101	DPKB-101 PZ-7
M83733/2RB71C	DPKB-71C15SX-7	M83733/5RB078	DPKB-78PC-7	M83733/8RB101	DPKB-101PY-7	M83733/12RA018	DPKA-18SH-7
M83733/2RB078	DPKB-78SX-7	M83733/5RB101	DPKB-101PC-7	M83733/9RA018	DPKA-IBPM-7	M83733/12RA032	DPKA-32SH-7
M83733/2RB101	DPKB-101SX-7	M83733/5RB185	DPKB-G185PC-7	M83733/9RA032	DPKA-32PM-7	M83733/12RA051	DPKA-51SH-7
M83733/3RA018	DPKA-18PX-7	M83733/5RB071	DPKB-71PC-7	M83733/9RA051	DPKA-51 PM-7	M83733/12RB048	DPKB-48SH-7
M83733/3RA032	DPKA-32PX-7	M83733/6RA018	DPKA-18PF-7	M83733/9RB048	DPKB-48PM-7	M83733/12RB064	DPKB-64SH-7
M83733/3RA051	DPKA-51PX-7	M83733/6RA032	DPKA-32PF-7	M83733/9RB064	DPKB-64PM-7	M83733/12RB071	DPKB-71SH-7
M83733/3RA131	DPKA-G131PX-7	M83733/6RA051	DPKA-51PF-7	M83733/9RB071	DPKB-71PM-7	M83733/12RB71C	DPKB-7ICI5SH-7
M83733/3RB048	DPKB-48PX-7	M83733/6RA131	DPKA-G131 PF-7	M83733/9RB71C	DPKB-11C15PM-7	M83733/12RB078	DPKB-78SH-7
M83733/3RB064	DPKB-64PX-7	M83733/6RB048	DPKB-48PF-7	M83733/9RB078	DPKB-78PM-7	M83733/12RB101	DPKB-101SH-7
M83733/3RB071	DPKB-71PX-7	M83733/6RB064	DPKB-64PF-7	M83733/9RB101	DPKB-101PM-7		
M83733/3RB71C	DPKB-71C15PX-7	M83733/6RB071	DPKB-71PF-7				
M83733/3RB078	DPKB-78PX-7	M83733/6RB71C	DPKB-71C15PF-7				
M83733/3RB101	DPK- 101PX-7	M83733/6RB078	DPKB-78PF-7				
M83733/3RB185	DPKB-G185PX-7	M83733/6RB101	DPKB-101 PF-7				
		M83733/6RB185	DPKB-G185PF-7				



Test Data

The following is a presentation of the certified capabilities of Cannon's DPK, high performance, rectangular, rack and panel series connectors with respect to critical qualification performance and design requirements of MIL-C-83733. The data presented herein is a condensation of authentic qualification test data extracted from the original qualification reports on file at the ITT Cannon Test Laboratory.

The successful completion of the conducted qualification program clearly demonstrates the compliance of ITT Cannon, DPK series connectors and contacts to meet or exceed the performance requirements of MIL-C-83733.

Identification of Qualification Specimens

The DPK connectors listed below represent the description and identification of the test specimens

subjected to the qualification test sequence of MIL-C-83733.

DPKA-G-131PC-7 (Receptacle)
DPKA-G131SK-7 (Plug)
DPKA-G131SK-7 (Receptacle)
DPKA-G-131PC-7 (Receptacle)
DPKB-G185PC-7 (Receptacle)

Table I below, lists the conducted tests executed in accordance with the applicable test paragraphs of MIL-C-83733, with the Test Level, Parrameter Limits and Measured Values listed in Table 11.

TABLE 1 TEST PERFORMED

Test Description	Test Description	Test Description	Test Description
Examination Of Product	Contact Separating Forces	Low Leve Contact Resistance	Moisture Resistance
visual Examination	Connector Mating and Unmating Forces	Thermal Shock	Altitude Immersion
Sample Preparation	Contact Retention	Crimp Potential Drop	Insert Retention
Insulation Resistance - 25 C	Endurance	Vibration (Random)	Corrosion
Withstanding Voltage - Sea Level	Gold Plating Porosity	Physical Shock	Analyses
Withstanding Voltage - Altitude	Temperature Life	Ozone Exposure	Service and Storage Life
Contact Resistance	Insulation Resistance - 200 C	Fluid Immersion	Gases and Toxic or Corrosive Fumes

TARI F II

	TAI	BLE II			
Test or Environment	Test Level or Special Requirments	Parameters Limits	Measured Val or Commen		
Examination Of Product visual Examination Sample Preparation Insulation Resistance - 25°C Withstanding Voltage - Sea Level Withstanding Voltage - Altitude Contact Resistance	Assure compliance with: a) Applicable detail specifications and control drawings b) Materials c) Design and construction d) Dimensional e) Finish f) Product identification g) Workmanship	Compliance to applicable detail specification and control drawings.	d Product submitted accompanied by Q.A.certifiates of complicomplied with the applicable acceptance requirements for q testing.		
VISUAL EXAMINATION	Visual examination of qualification test specimens for completness, workmanship, identification and /or other detrimental conditions.	Visual examination acceptance.	No visible detection of any condition det	rimental to normal function.	
SAMPLE PREPARATION	MIL-W-16878/4A, 28 AWG (min. dia.) and 22 AWG (max. dia.) wire. Daniels WA22A crimping tool. M22520/2-06 and M22520/2-09 contact positioner for resp.22D size socket and pin. MS7495A22M insertion and MS27495R22M removal tool.	Assemblies to conform with specified wiring and termination requirements.	Qualification test specimens prepared at with specified wiring requirements. No d wiring operation.		
INSULATION RESISTANCE [25℃ (77 F)]	C (77 F)] contact paris and each contact and connector shell. Electrification Time 120 secs. maximum.		Insul. res. range (ohms) (25°C) DPKA Adj. Cont. Cont./Shell 300G-1.0T 1.1T-1.8T DPKB 400G-1.6T 1.1T-20T (Ganged parallel test circuits)		
DIELECTRIC WITHSTANDING VOLTAGE (SEA LEVEL)	Unmated condition. 50% of contact complement measured. Test voltage 1350 Vac/rms-60hz, applied between adjacent contact pairs and each contact and connector shell.	No electrical breakdown, flashover or excessive current leakage.Electrification 2 secs. minimum.	No evidence of breakdown or flashover Leakage <.5mA. (Gange Parallel test circuits)		
SALT SPARY (CORROSION)	Method 101, test condition B. (48 hours) unmated. Salt soultion 5% by weight. S.G. 1.026 to 1.040 at 22.8°C-23.9°C (73°F-75°F). Solution pH6.5 to 7.2 and chamber temp 33.9°C to 36.1°C (93°F to 97°F).	Visual examination. No degradation of normal connector functions.	No detrimental corrosive attack on conn contacts.	ector's surface finish or	
CONTACT RESISTANCE [AT 25°C AND 200°C (77 F AND 392 F)]	Mated condition 20% of contact complement tested. Test circuit per Fig. 2 measured across points YY performed at 25℃ and 200℃ (77% and 392%). Contact/ Wire size Adc 22D/28 1.5 22D/22 5.0	Max. Voltage Drop (MV) Wire 25°C 200°C Size (77 F) (392 F) 28 8 19 22 14 25	Size Adc 28 1.5	Range Avg. (mV) (mV) 2.3-5.2 3.8 6.3-10 8.2 (200°C) 9-17 11.8 16-21 17.8	
CONTACT SEPARATING FORCES	100% of socket contact complement measured. Separating force measured on steel test pin .0294 \pm .0001 (0.747 \pm 0.002) dia. insertion depth .205 (5.21) min. from insert face.	Separating Force (ounce-force) Min. Max. 0.6 4.9	Separating force range (ounce-force) DPKA Sep. Force 1.3-4.1 DPKB 1.0-2.9	Avg. Force 2.4 2.0	
CONNECTOR MATIN AND UNMATING FORCES	Mating dept, .390 (9.91) panel spacing. Total of 10 cycles mating and unmatings. Forces measured on 10th cycle.	Axial mating and unmating forces 175 pounds-force maximum.	Mating/Unmating Force (pound-force) Mate DPKA 145 DPKB 150 Forces obtained on 10th cycle.	Unmated 34 72	
CONTACT RETENTION	Unmated. 50% of contacts measured. 10.0 1bf applied to contact engaging end. Zero reference at 2.0 1bf preload. Displacement measured under spec. load.	Max. contact displacement under 10.0 1bf load .011 (0.28) maximum.	Contact Displacement Range (inch) DPKA Pins 0.002-0.00 Sockets 0.002-0.00 DPKB Pins 0.002-0.00 Sockets 0.002-0.00	0.0031 4 0.0027	
ENDURANCE (DURABILITY)	Mating dept, .450 (11.43) panel spacing. Total of 500 cycles mating and unmating at a rate of 300 cycles/hour maximum.	Withstand 500 cycles of durability conditioning without detrimental effects to function.	5,002 0,000	VIVVEV	



Test Data (Continued)

		ued)

Test or	Test Leve				_			ured Values		
Environment	Special Requ	irments	Parameters Li	mits			or (Comments		
THERMAL SHOCK	Mated condition. Five continuous cycles of temperature change. 30 mins. exposure at each temp. extreme constitutes one cycle. Transfer time between chambers 2 mins. max. temp, extremes: -54 ± 3 C and 200 ± 3 C (-?? +_5.4 F and 392 ± 5.4 F).									
CRIMP POTENTIAL DROP	20% of the contacts in each connector measured across points X-X and X'-X'.	easured. Test circuit per Fig. 2	Max. crimp potential drop: Wire		Crimp m\	/ drop rangockets)	је.			
	Contact/Wire-size 22D/28	Test Current (Adc)	Size 28	M.V. 2.8		Adc 1.5		Range 1.7-2.1		Avg. 1.8
	22D/22	5.0	22	7.0	(Pins) DPKB (so	1.5 ickets)		1.1-1.6		1.3
						Adc 5.0		Range 1.8-2.4		Avg. 2.1
					(Pins)	5.0		1.4-1.8		1.5
DIELECTRIC WITHSTANDING VOLTAGE (ALTITUDE)	Mated condition. 50% of contact compler at simulated altitude of 70,000 ft. (33.7 m Vac/rms-60 Hz, applied between adjacer and connector shell.	nin Hg pressure) Test voltage 825	Same as at sea level conditi	ons.	No evidence of breakdown or flashover. Leakage <.5mA. (G Parallel test circuits)		. (Ganged			
INSULATION RESISTANCE ELEVATE TEMP.[200°C (392 F)]	TION RESISTANCE ELEVATED Umnated condition. 50% of contact complement measured. Test points 204 Megohms minimum at 500 Vdc.			Insul. Res	s. range (o Adj. Coi 1.4G-10 0.75G-1)G	C (392 F)]	Cont./Shel 2.4G-4.0G 2.26G-5.0	i	
VIBRATION (RANDOM)	Method 214, Test condition 11. Letter 'G'. table 214-2. Contact circuit senes wired fight hours duration in each of three mut mating depth .450 (11.43) panel spacing.	far current discontinuity monitoring. tually peipendicular axes. Connector	No current discontinuity) 1.0 cracking, breaking or looser parts.		(Ganged parallel test circuits) Connectors met random vibration requirements. No electrical discontinuity detected.		etrical			
PHYSICAL SHOCK	Mated condition, .450 111.43) panel spac mS, waveshape terminal peak smooth, p series wired for current discontinuity mor three mutually perp. axes.	eak amplitude 20g. Contact circuit	No current discontinuity) 1.0 cracking, breaking or looser parts.		Connectors met physical shock requirenments. No electrical discontinuity or damage detected.		rical			
MOISTURE RESISTANCE	Method 106, (Step 7b) ommed) Mated co temperature cycling. At end Step 6 final of RH insulation resistance in asured 100% contacts and the shell in parallel circuit.	cycle at 25 C (777) and 90-98%	Insulation resistance at final Megohms minimum at 50 Vo		Insul. Res	s. range (o 1.66-50 Avg: 22	0G	humidity cycle DPKB	1.6-500G Avg: 190	
ALTITUDE IMMERSION	Mated condition. Immersed in 5% sail so ends exposed to chamber atmosphere. § (1.0 inch Hg). 30 mins. at altitude followe Repeat for total of 3 cycles. Insul. res. an complement at room ambient and submerses.	Simulated test altitude 75,000 ft, and by 15 arms. at room ambient, and OWV measured 100% of contact	Insulation resistance 1.2 Gig Vdc. DWV 1350 Vac/rms - 6 electrification time 60 secs. breakdow, flashover or leads	0 Hz, minimum. No	DPKA	1.5T-4.5 Avg. 1.9 o evidence	ges (ohms) 5T 9T	DPKB	0.7-3.5T Avg: 1.3T	
INSERT RETENTION	Unmated. 46 lbf/in.; pressure lead applied 1bl/in. 2/sec maintained for 5 secs. min.		No insert disiocation from no connector shell.	ormal position in the			rt moveme	nt and/or dislo	cation from	normal
OZONE EXPOSURE	Unimated. Ozone concentration 0.010 to period 2 hours minimum at room tempera	0.015 percent by volume. Exposure	No derterioration.		No evider	nce of ozoi	ne effects.			
FLUID IMMERSION	Fluid immersion rest fluids and procedure Sample No. 4-1P/R MIL-L-7808 4-2P/R MIL-L-23699 4-3P/R M2-V CHEVRON		No detrimental damage of e performance. Axial Mate and unimate forces aft 175 1bf max.		Other than evidence of normal light swelling of the connector seals, the samples did not exhibit any dertirmental affects. Now was not imparied. After Fluid Immersion Mating/Unmating forces					
	4-4P/R MIL-H-5606 4-5P/R MIL-A-8243 4-6P/R MIL-C-25769 4-7P/R MIL-T-5624 (JP-5) 4-8P/R Coolanol-25 4-9P/R Regular (Leaded con 4-10P/R Solvent (a) MIL-STD- 4-12P/R Solvent (b) MIL-STD- 4-12P/R Solvent (c) MIL-STD-	-202)			DPKA 4-1P/R 4-2P/R 4-3P/R 4-4P/R 4-5P/R 4-6P/R	Mate 125 125 127 132 132 123		und-Force) d DPKB 4-7P/R 4-8P/R 4-9P/R 4-10P/R 4-11P/R 4-12P/R	Mate 138 141 137 145 150 148	Unmated 71 57 63.5 76 81 86
GOLD PLATING POROSITY	Unwired. wouisembled contact bodies. O Nitric Acid (S.GI.42) to we part distilled immersion period.		No visible reaction (bubbles	forming) to reagent.	No evide	nce of reac	ction to reac	gent.		
TEMPERATURE LIFE W/CONTACT LOADING	Wired mated condition, with contacts und #16 112.5 Ilisil. A current of 100 MA was duration, 1000 hours at temperature of +	applied during life of test. Test	Withstand temp life. No dam discontinuity higher than 1.0 contact dislodging order load	microsecond. No	miscrose	cond or gre	eater during	ing and/or ele the speified to s. All post tes	emperature	life exposure

Conclusion

All subject test specimens, connector components, materials, accessories and contacts covered by this report satisfied and/or exceeded the specified requirement.

The successful completion of the qualification program as reported herein, demonstrates the capabilities of the subject ITT Cannon DPK series connectors to comply with stringent verification

qualification requirements in accordance with MIL-C-83733. On the basis of testing, the DPK connector series was granted full OPI status to MIL-C-83733.



Weights

The following are weights for DPK connector assemblies, mounting hardware, contacts, and sealing plugs. All connector weights are listed less contacts (FO) and mounting hardware. The total connector weight is obtained by adding mounting hardware, contacts, and sealing plugs weight to the connector assembly weight.

Example:

DPKB-101SK-7 (with 90 contacts and 11 sealing plugs)

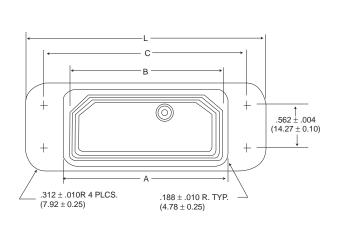
`	Weight Pounds	Weight Grams
DPKB-101SG-7-FO	.2332	105.78
Type K Spring Mount	.0825	37.42
90 Number 20 Socket Contacts	.0639	28.98
11 Number 20 Sealing Plugs	.0020	.88
Maximum Connector Weight	.3816	173.06

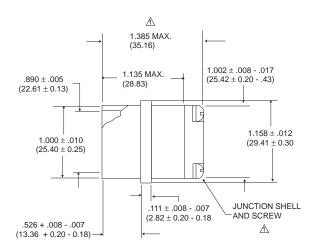
Part Numbet	Maximum Weight		
(Description)	Lbs.	Grams	
DPKA-18PG-7-F0	.1474	66.86	
DPKA- I 8SG-7-F0	.1496	67.86	
DPKA-32PG-7-F0	.1496	57.86	
DPKA-18SG-7-F0	.1518	68.86	
DPKA-51PG-7-F0	.1529	69.35	
DPKA-51SG-7-F0	.1551	70.35	
DPKA-G131PG-7-F0	.1045	47.40	
DPKA-G131SG-7-F0	.1077	48.85	
DPKB-48PG-7-F0	.2398	108.77	
DPKB-48SG-7-F0	.2486	112.76	
DPKB-59W7PG-7-F0	.2354	106.78	
DPKB-59W7SG-7-F0	.2442	110.78	
DPKB-64PG-7-F0	.2354	106.78	
DPKB-64SG-7-F0	.2442	110.78	
DPKB- 71 PG-7-F0	.2288	103.78	
DPKB-71SG-7-F0	.2332	105.78	
DPKB-71C1 5PG-7-F0	.2288	103.78	
DPKB-71C1 5SG-7-F0	.2332	105.78	
DPKB-78PG-7-F0	.2266	102.78	
DPKB-78SG-7-F0	.2288	103.78	
DPKB-101PG-7-F0	.2288	103.78	
DPKB-101SG-7-F0	.2332	105.78	
DPKB-GI 85PG-7-F0	.1628	73.85	
DPKB-G1 85SG-7-F0	.1650	74.85	
#12 Pin, 030-9185-003	.00298	1.353	
#12 Skt, 030-9186-003	.00291	1.318	
‡16 Pin, 030-9205-007	.00135	.611	
#16 Skt, 030-9206-006	.00146	.664	
#20 Pin. 030-9173-006	.00062	.280	
#20 Skt, 031-9174-004	.00071	.322	
#220 Pin, 030-2042-000	.00021	.093	
#220 Skt, 031-1147-000	.00025	.111	
#12 Shielded Pin, 249-1825-001	.00206	.943	
#12 Shielded Skt, 249-1826-000	.00258	1.168	
#8 Coaxial Pin, 59W7 Layout	.00420	1.910	
#8 Coaxial Skt, 59W7 Layout	.00650	2.948	
Type C Bushing, 012-0515-000 (4 reqd)	.00606	2.750	
Type K Spring Mtg Captive (non-rotate)	.08250	37.42	
Type F Nut (4 reqd)	.00072	.325	
Type G Spring Mtg 231-0019-000 (4 reqd)	.01180	5.350	
Size 22; 225-1013-000	.00006	.027	
Size 20; 225-0070-000	.00018	.080	
Size 16; 225-0071-000	.00036	.163	
Size 12; 225-0072-000	.00064	.291	
SEALING PLUGS			



Receptacle (Pin Contacts)

BASIC RECEPTACLE SHELL DIMENSIONS



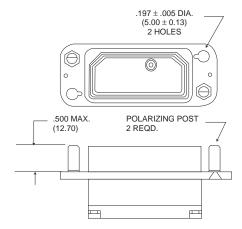


⚠ Junction shell and screws are not supplied on - G131 and -G185 layouts.

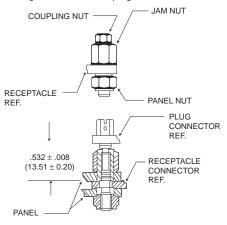
SHELL SIZE	Α	В	С	L	N Staggered
	2.085 (52.96)	1.976 (50.19)	2.580 (65.58	3.030 (76.96)	2.150 (54.61)
DPKA*P**	2.072 (52.63)	1.961 (49.81)	2.570 (65.38)	3.000 (76.20)	2.130 (54.10)
	3.385 (85.98)	3.281 (83.34)	3.880 (98.53)	4.330 (109.98)	3.450 (87.63)
DPKB*P**	3.372 (85.65)	3.261 (82.83)	3.870 (98.32)	4.300 (109.22)	3.430 (87.12)

DPK TYPES

Mounting Style A

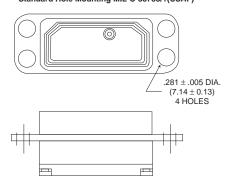


Mounting Dimensions for Coupling Nut Assemblies



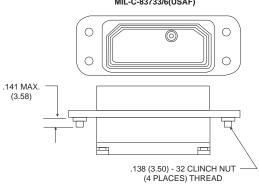
DPK/Mil-C-83733 TYPES

Mounting Style G Standard Hole Mounting MIL-C-83733/1(USAF)



Cannon

Mounting Style F Clinch Nut Mounting MIL-C-83733/6(USAF)



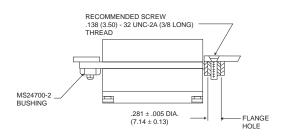


Receptacle/Configurations (Pin Contacts)

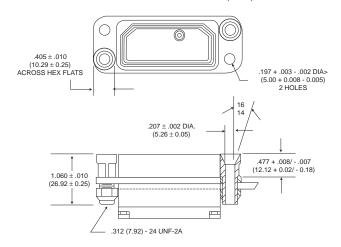
DPK/MIL-C-83733 TYPES

Mounting Stye C Bushing Mounting MIL-C-83733/5(USAF)



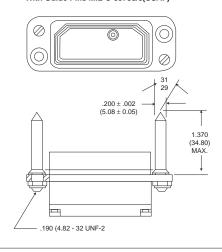


Mounting Stye X With Guide Sockets MIL-C-83733/3(USAF)

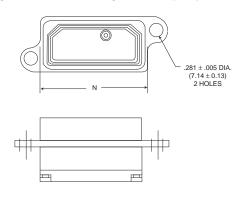


DPK/MIL-C-83733 TYPES

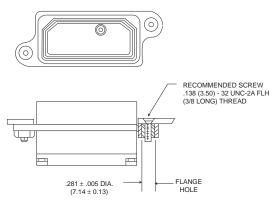
Mounting Stye Y With Guide Pins MIL-C-83733/8(USAF)



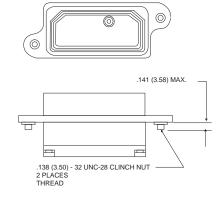
Mounting Stye M Staggered Standard Hole Mounting MIL-C-83733/9(USAF)



Mounting Stye H Staggered Bushing Mounting MIL-C-83733/10(USAF)



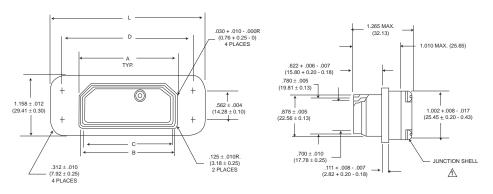
Mounting Stye Z Staggered Clinch Nut Mounting MIL-C-83733/11(USAF)





Pluge/Configurations (Socket Contacts)

Basic Plug Shell Dimensions



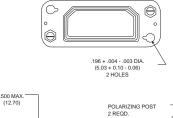
N SHELL SIZE В С D Staggered 1.959 (49.76) 1.780 (45.21) 2.580 (65.53) 3.030 (76.96) 2.150 (54.61) 1.864 (47.35) 3.000 (76.20) 1.946 (49.43) DPKA*P** 1.853 (47.07) 1.763 (44.78) 2.570 (65.28) 2.130 (54.10) 3.259 (82.78) 3.080 (78.23) 3.880 (96.52) 4.330 (109.98) 3.450 (87.63) 3.164 (80.37) DPKB*P** 4.300 (109.22) 3.246 (82.45) 3.063 (77.80) 3.870 (98.30) 3.430 (87.12) 3.153 (80.09)

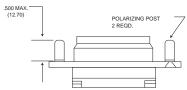
Junction shell and hardware are not supplied on -G131 and -G185 layouts.

See page 83 Style M and H

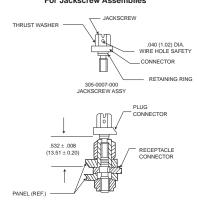
DPK Styles

Mounting Style A



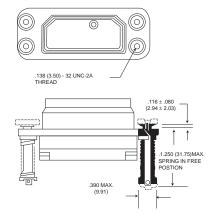


Mounting Spacing Dimensions For Jackscrew Assemblies

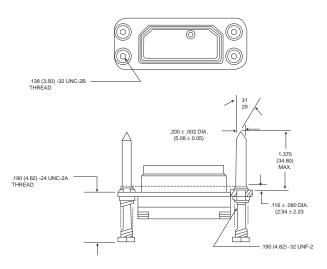


DPK/MIL-C-83733 TYPES

Mounting Style K - MIL-C-83733/4(USAF) With Captive Springs



Mounting Style X - MIL-C-83733/2(USAF) With Guide Pins and Spring Mounting



- NOTES: 1. Springs are pre-loaded to 25 pounds each in free position.
 - Spring forces will be 118 pounds minimum at .500 (12.70) panel spacing and 176 pounds maximum at .390 (9.91) panel spacing
- NOTES: 1. Springs are pre-loaded to 25 pounds each in free position.
 - Spring forces will be 118 pounds minimum at .500 (12.70) panel spacing and 176 pounds maximum at .390 (9.91) panel spacing
 - 3. This configuration must not be used on teh 131 or 185 contact layouts.



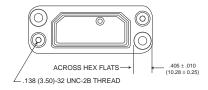
Dimensions are shown in inches (millimeters).

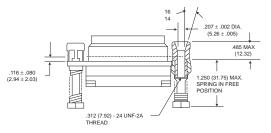
Dimensions subject to change.

Pluge/Configurations (Socket Contacts)

DPK/MIL-C-83733 TYPES

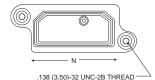
Mounting Style Y - MIL-C-83733/7(USAF) With Guide Sockets and Spring Mounting



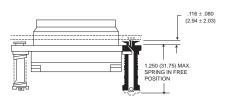


NOTES: 1. Springs are pre-loaded to 25 pounds each in free position.
2. Spring forces will be 118 pounds minimum at .500 (12.70) panel spacing and 88 pounds maximum at .390 (9.91) panel spacing

Mounting Style H - MIL-C-83733/7(USAF) Staggered Spring Mounting



See page 82

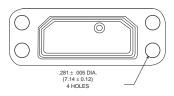


NOTES: 1. Springs are pre-loaded to 25 pounds each in free position.

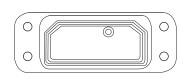
- Spring forces will be 118 pounds minimum at .500 (12.70) panel spacing and 88 pounds maximum at .390 (9.91) panel spacing
- 3. This configuration must not be used on teh 131 or 185 contact layouts.

DPK Commercial Types

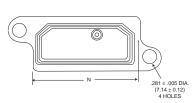
Mounting Style G Standard Hole Mounting



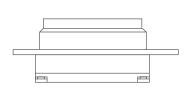
Mounting Style F **Clinch Nut Mounting**

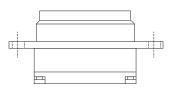


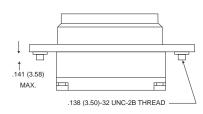
Mounting Syle M Mounting



See page 82









Mounting Styles/Applications

DPK connectors for rectangular or staggered mounting are available in both two- and four-spring mount assemblies, or the same shelf style may be o rdered to accommodate bushing assemblies. In the spring mount version the spring-loaded mechanism will compensate for a panel space variation of up to .070(1.78) while insuring electrical and environmental integrity.

DPK connectors are also available with polarizing posts, accommodations for jackscrews, and coupling nuts for cord-to-card and cord-to-panel applications. Another shelf style has two or four mounting holes fitted with captive clinch nuts.

For mounting dimensions of the various mounting styles shown here please refer to page 87.

Style A

Mounting style A is designed for cord-to-panel and c ord-to-cord applications. Connectors are supplied with two polarizing posts installed and provisions for installation of two jackscrew assemblies or two coupling nut assemblies. (Replaces Mounting Style B.)



Plug



Jackscrew Assembly 305-0007-000

Ordered Separately



Coupling Nut Assembly 335-0002-000

Stylle C

Mounting style C is designed for cord-to-panel or rack-to-panel applications. Connectors are supplied with (4) MS24700-2 bushings on the receptacle and 4 spring mount assemblies on the plug.



Receptacle Pin Contacts

M83733/5



Receptacle Pin Contacts

Supplied with Connector







Bushing MS247000-2 (Self-Locking 012-0515-000

Spring Mount Assembly MIL-C-83733/17 231-00019-000

Style F

Style G "Z

000 spring mounts,

Mounting Style F is designed for rack-to-panel pplications. Connectors are supplied with four captive clinch nuts installed.

Mounting style G is designed for rack-to-panel applications. Connectors are supplied with four .281(7.14) diameter holes which will accommodate either four MS24700-2 bushings or four 231-0019-

M83733/6



Receptacle



Pin Contacts





M83733/1



Receptacle Pin Contacts

Ordered Separately







Bushing MS247000-2 (Self-Locking 012-0515-000

MIL-C-83733/17 231-00019-000

Mounting style H is designed for rack-to-panel applications. Connectors are supplied with two .281(7.14) diameter holes which are staggered. Two spring mounts are on the plug end two MS24700-2 bushings are on the receptacle.

M83733/12



Plug Socket Contacts

M83733/10



Receptacle Pin Contacts

Supplied with Connector







Spring Mount Assembly MIL-C-83733/17 231-00019-000

Style K

Mounting style K is designed for rack-to-panel a pplications. Connectors are supplied with four c aptivated, non-rotating spring mounts on the plug.

M83733/4



Plug Socket Contacts

Style M

Mounting style M is designed for rack-to-panel applications. Connectors are supplied with two .281 (7,14) diameter holes which are staggered and will accommodate eight two MS24700-2 bushings or two 231-0019-000 spring mounts.











Plug Socket Contacts

Receptacle Pin Contacts

M83733/3

Bushing MS247000-2 (Self-Locking 012-0515-000

Spring Mount Assembly MIL-C-83733/17 231-00019-000

Style X

Mounting sty~le X is designed for rack-to-panel applications where positive alignment is required before connectors are mated. Plug has two guide pins and two spring mounts (MIL-STO-1533); receptacle has two guide sockets and two .197 (5.00) dia. holes.





Receptacle



Plug Socket Contacts

Pin Contacts

Jackscrew Assembly 305-0007-000

Coupling Nut Assembly 335-0002-000

Style Y

Mounting style Y is identical to mounting style X, Xcept the guide sockets are on the plug and the guide pin and springs are on the receptacle.





Plug Socket Contacts

M83733/8



Receptacle Pin Contacts

Supplied with Connector







Guide Sockets 226-0349-000

Mounting style Z is designed for use in rack-10 panel applications. Connectors are supplied with two captive clinch nuts which are staggered.

M83733/11



Receptacle Pin Contacts

MIL-C-83733/DPK Mounting Style

MIL-C-83733 Connector Type	DPK Mtg. Style	Mating MIL-C-83733 Connector	DPK Mtg. Style	
M83733/1 RECEPTACLE	G	M83733/4	К	
M83733/2 PLUG	X	M83733/3	X	
M83733/3 RECEPTACLE	X	M83733/2	X	
		M83733/1	G	
M83733/4 PLUG	K	M83733/5	С	
		M83733/6	F	
M83733/5 RECEPTACLE	С	M83733/4	К	
M83733/6 RECEPTACLE	F	M83733/4	К	
M83733/7 PLUG	Y	M83733/8	Y	
M83733-08 RECEPTACLE	Y	M83733/7	Y	
M83733/-09 RECEPTACLE*	M	M83733/12	Н	
M83733/-10 RECEPTACLE*	Н	M83733/12	Н	
M83733/-11 RECEPTACLE*	Z	M83733/12	н	
		M83733/9	M	
M83733/2 RECEPTACLE	Н	M83733/10	Н	
		M83733/11	Z	

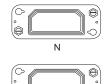
^{*}Not recommended for G131 and G185 layouts.

Polarization (Mounting Style A only)

Polarizing Post Alternate Positions

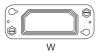
Pin inserts polarizing postitions are 180 opposite socket insert polarizing positions. Shaded areas indicate extended portion of the polarizing post. Cord to panel DPK connectors are available in 35 alternate polarizing positions by changing indexing of the polarizing posts. Keystone corners and hexagonal posts provide this wide range of alternate positions.

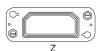
Face view of socket insert plug connector engaging end.











Contact Data

Standard Contacts

Contact Size	Туре	Cannon Part Number	MIL-C-39029 Military Part Number	Crimp Tool	Insertion/ Extraction Tool	Grommet Sealing Plug Part Number (Color)
12	Pin Skt.	030-9185-003 037-9186-003	M39029/4-113 M39029/5/118	M22520/1-01 with	MIL-I-81969/14-04	225-0072-000 (Yellow)
16	Pin Skt.	030-9205-007 031-9206-006	M39029/4-111 M39029/5-116	M22520/1-02 Turret	MIL-I-81969/14-03	225-0071-000 (Blue)
20	Pin Skt.	030-9173-006 031-9174-004	M39029/4-110 M39029/5-115	M22520/2-01 with M22520/2-02 Turret	MIL-I-81969/14-11	225-0070-000 (Red)
22	Pin Skt.	030 -1975-008 031-1113-008	M39039/11-144 M39029/12-148	M22520/2-01 with M22520/2-23 Turret	MIL-I-81969/14-01	
22D	Pin Skt.	030-2042-000 031-1147-000	M39029/58-360 M39029/57-354	M22520/2-01 with M22520/2-06 (Socket) Turret M22520/2-09 (Pin) Turret	MIL-I-81969/14-01	225-1013-000 (Black)

Coaxial/Shielded Contacts

Coaxial	Туре	Prefix	Cannon Part Number	Cable Accom.	DWV Voltage	Min./Max. O.D. Wire Accom.	Crimp Tool	Ins./ Ext. Tool	Grommet Sealing Plug Part Number (Color)
Coaxial Contacts*	Plug Receptacle	G G	249-5500-012 249-5500-013	RG-316	500 VDC	.122 (3.10) .250 (6.35)	CCTC8 Outer M22520/2-01 M22520/2-30	Cet-C8	225-0085-00
59W7 Arrangement Only	Plug Receptacle	F F	249-5500-010 249-5500-011	RG-180/U	500 VDC	.122/250	CCTC9 Outer M22520/2-01 M22520/2-30	Cet-C8	(White)

Plug coaxials go into plug connectors (59W7S inserts with socket contacts). Receptacle coaxials go into receptacle connectors ("P" inserts) with pin contacts (59W7P inserts with pin contacts).

Coaxial	Туре	Cannon Part Number	MIL-C-39029 Part Number	Cable Accom.	Min./Max Cable Dia.	Crimp Tool	Locator	Ins./ Ext. Tool	Grommet Sealing Plug Part Number (Color)
Size 12 Contact 71C15 Layout Only	Pin Socket	249-1825-001 249-1826-000	M39029/50-340 M39029/51-341	RG-179U	.081 (2.06) .158 (4.01)	.M22520/5-01 Outer M22520/2-01 Inner	.M22520/5-08 Outer M22520/2-30 Inner	CIET - 12	225-0072-000 (Yellow)

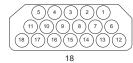
^{*}Pin shielded contacts utilized in receptacle connectors (71C15P inserts). Socket shielded contacts utilized in plug connectors (71C15S inserts).



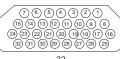
Contact Arrangements

DPKA

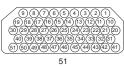
Face View Pin Insert Shown



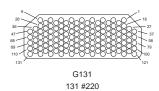
18 #12



32 #16 ı



51 #20 1



М

DPKB

Layout

No. of Contacts

and Wire Size

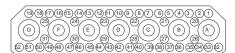
Service Rating



Layout No. of Contacts and Wire Size Service Rating

48 30 #16 (1,2,10-15,22-29,35-48),

18#12 (3-9,16-21,30-34)



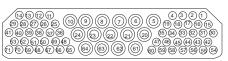
59W7 52 #20 (1-52) 7 Coax. (A-G) #20: 1500 Coax: 1000 I & 500 VDC (Coax)

The 59W7 Layout is sold less coaxial contacts, se page 86 for contact part numbers.



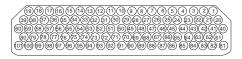
Layout No. of Contacts and Wire Size Service Rating

64 64 #16



Layout No. of Contacts and Wire Size Service Rating

56 #20 (1-4,11-30,36-60,65-71) 15 Shielded #12 (5-10, 31-35,61-64) #20: 1500: #12 Shielded: 500 1&500 VDC (Coax)



101 #20

1

Layout No. of Contacts and Wire Size Service Rating

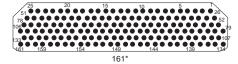


G185 Layout No. of Contacts 185 #22D and Wire Size Service Rating M

71 56#20 (1-4,11-30,36-60,65-71 15 #12 (5-10,31-56,61-64) 1



38 #20 (1-4,14-21,32-38,51-57, 68-78),40 #16 (5-13, 22-31, 40-50,58-67



161 #22

1000 VDC

*P0S-ALINE DESIGN

In the 161 contact arrangement, the entire pin contact is recessed in and individual cavity in the plug connector. The socket contact is exposed and extends from the connector receptacle face. (Pin insulator accepts socket contacts.)

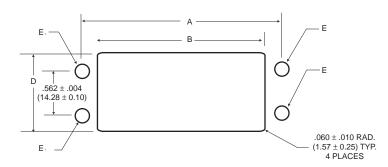


Panel Cutout Dimensions

Mounting Styles

PG, SG SY,PY PC, PF, SF, S*A, S*B SX, PX, SK P*A, P*B

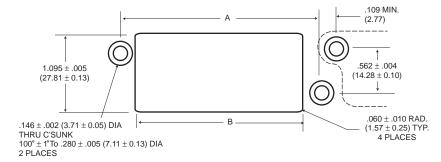
Figure 1.



Mounting Styles

SH, SM

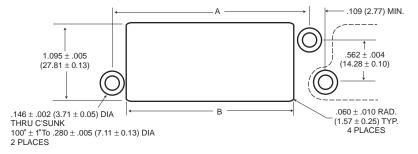
Figure 2.



Mounting Styles

PM, PH, P2

Figure 3.



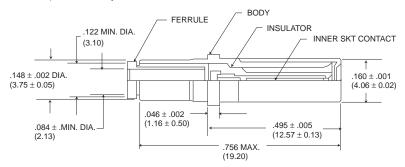
MIL-C-83733 Part No./ Mounting Style	DPK	Figure	A ± .004(± 0.10)		B ± .005(± 0.13)		D ± .005(± 0.13)		E ₁		E ₂	
	Mounting Styles	Ref.	Shell Size A	Shell Size B	Shell Size A	Shell Size B	Shell Size A	Shell Size B	Shell Size A	Shell Size B	Shell Size A	Shell Size B
M83733/1/5/6	PG, SG, PC, PF,SF	1	2.578 (65.48)	3.875 (98.43)	2.103 (51.13)	3.400 (86.36)	1.022 (25.96)	1.022 (25.96)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)
M83733/2	SX	1	2.578 (65.48)	3.875 (98.43)	2.103 (51.13)	3.465 (88.01)	1.022 (25.96)	1.095 (27.81)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)	.260 (6.60) .250 (6.35)	.260 (6.60) .250 (6.35)
M83733/3	PX	1	2.578 (65.48)	3.875 (98.43)	2.103 (51.13)	3.465 (88.01)	1.022 (25.96)	1.095 (27.81)	.320 (8.13) .315 (8.00)	.320 (8.13) .315 (8.00)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)
M83733/4	SK	1	2.578 (65.48)	3.875 (98.43)	2.167 (55.04)	3.465 (88.01)	1.095 (27.81)	1.095 (27.81)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)
M8733/7	SY	1	2.578 (65.48)	3.875 (98.43)	2.167 (55.04)	3.465 (88.01)	1.095 (27.81)	1.095 (27.81)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)	.430 (10.92) .420 (10.67)	.430 (10.92) .420 (10.67)
M83733/8	PY	1	2.578 (65.48)	3.875 (98.43)	2.167 (55.04)	3.465 (88.01)	1.095 (27.81)	1.095 (27.81)	.380 (9.65) .370 (9.40)	.380 (9.65) .370 (9.40)	.148 (3.76) .144 (3.66)	.148 (3.76) .144 (3.66)
M83733/9/10/11	PM, PH PZ	2	2.578 (65.48)	3.875 (98.43)	2.167 (55.04)	3.465 (88.01)	1.095 (27.81)	1.022 (25.96)	-	-	-	-
M83733/12	SH, SM	3	2.578 (65.48)	3.875 (98.43)	2.095 (53.21)	3.400 (86.36)	1.095 (27.81)	1.095 (27.81)	-	-	-	-
N/A	S*A, S*B, P*A, P*B	1	2.578 (65.48)	3.875 (98.43)	2.103 (51.13)	3.465 (88.01)	1.022 (25.96)	1.095 (27.81)	.301 (7.65) .294 (7.45)	.301 (7.65) .294 (7.45)	.301 (7.65) .294 (7.45)	.301 (7.65) .294 (7.45)

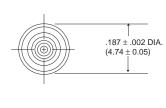
Assembly/Shielded Contacts

Socket

249-1826-000/MIL-C-39029/51

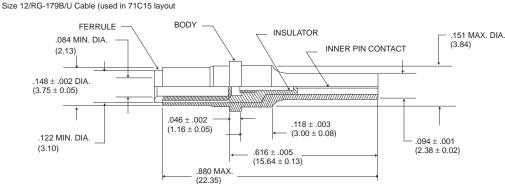
Size 12/RG-179B/U Cable (used in 71C15 layout

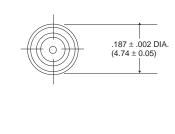




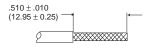
Pin

249-1826-000/MIL-C-39029/50

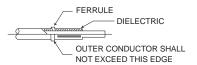




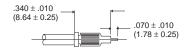
Assembly Instructions



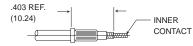
Step 1. Strip outer jacket to dimensions shown to expose outer conductor.



Step 2.Slip (or install) ferrule over outer conductor against cable jacket. Exposed portion of the outer conductor must be combed out then folded back over ferrule.



 $\begin{tabular}{ll} \bf Step \ 3. \\ \end{tabular}$ Trim cable to dimensions, as shown. (Ferrule must butt against cable jacket).



Step 4.

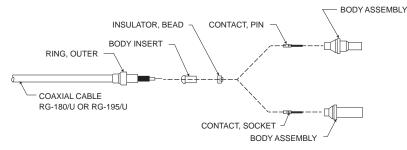
Install inner contact against dielectric then crimp contact and center Insert cable, ferrule and inner contact to rear of shell and crimp conductor with a M22520/2-01 cimp tool using a M22520/2-30 locator.

Step 5.

into place with M22520/5-03 crimp tool.

Coaxial Contact/Assembly

249-5500-010 Socket* 249-5500-011 PIN*



STEP 1.

Slide outer ring over cable as shown (Figure 1).

STEP 2.

Strip cable as shown (Figure 1).

STEP 3

Install body insert, insulatro bed, and contact on cable as shown (Figure 2.)

STEP 4

With body insert, insulator bead, and contact firmly in place, crimp the contact with tool M22520/2-01 (setting number 3) and loacator M22520/2-30 (Figure 2). Caution: The assembled componenets must be tightly in place after crimping.

*These contacts are used in the F59C7 layout.

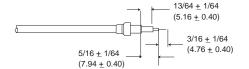
STEP 5.

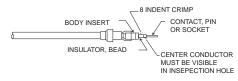
Slide body assembly over componenets and under shield until firmly bottomed in place. Locate outer ring over shield and against body as shown (Figure 3).

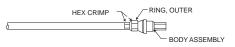
STEP 6.

With cable and body assembly securely held together, hex crimp the outer ring with tool CCT-C9 (Figure 3). Important: For optimum hex crimp, firmly bottom the outer ring against the shoulder of the hex die before compressing the handles. NOTES: 1. These assembly instructions apply to 249-5500-010, and 249-5500-011.

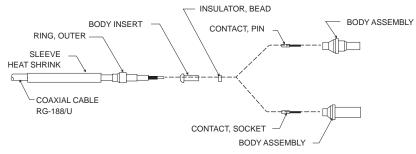
- 2. The following assembly tools are required:
 - a) CCT-C9 hex crimp tool
 - b) MS3198-Q W/L-3198-C1 contact crimp tool and locator
 - c) 149 C(300 F) hot air gun (recommended): Regal heat Gun No. 9A)
 - d) Blades, scissors, and picks







249-5500-012 Socket* 249-5500-013 PIN*



STEP 1

Slide heat-shrink sleeve and outer ring over cable as shown

STEP 2.

Strip cable as shown (Figure 1). Caution: Do not nick shield wires.

STEP 3.

Install body insert, insulator bead, and contact on cable as shown.

STEP 4.

With body insert, insulator bead, and contact firmly in place, crimp the contact with tool M25250/2-01, using setting number 3 and loacator M25250/2-30 (Figure 2). Caution: The assembled componenets must be tightly in place after crimping.

STEP 5.

Slide body assembly over componenets and under shield until firmly bottomed in place. Locate outer ring over shield and against body as shown (Figure 3).

STFP 6

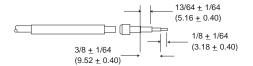
With cable and body assembly securely held together, hex crimp the outer ring with tool CCT-C9 (Figure 3). Important: For optimum hex crimp, firmly bottom the outer ring against the shoulder of the hex die before compressing the handles.

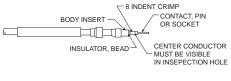
STEP 7

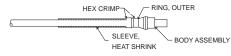
The final step is to shrink the heat sleeve in place with a hot air source of 149 C to 327 C (300 F to 621 F) (Figure 3).

NOTES: 1. These assembly instructions apply to 249-5500-010, and 249-5500-011.

- 2. The following assembly tools are required:
 - a) CCT-C9 hex crimp tool
 - b) M22520/2-01 contact crimp tool and locator
 - c) 149 C(300 F) hot air gun (recommended): Regal heat Gun No. 9A)
 - d) Blades, scissors, and picks







*These contacts are used in the G59C7 layout.



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