

SPACECRAFT COMPONENTS CORP.

MULTI-PIN CONNECTORS

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ABOUT SPACECRAFT COMPONENTS

SPACECRAFT COMPONENTS MANUFACTURING DIVISION

Beginning in early 1980, the connector industry experienced a series of sales and mergers resulting in a reduced number of connector manufacturers. This trend continues today.

While the connector industry has done a magnificent job of meeting the demands of its customers, on occasion it has been difficult to supply small quantity modifications to standard products. Quick delivery of prototype quantities appears to be a thing of the past. This is where Spacecraft Components Manufacturing comes in.

The commitment to our customers over these many years is something about which we are very proud. To meet the requirements of quick delivery for small quantities of prototype connectors, Spacecraft Components Manufacturing has its own design department, a modern machine shop and an outstanding staff whose connector knowledge is unmatched in the Industry.

The principals of Spacecraft Components include the founders of Flight Connector Corp, ESC, Inc and Electro-Sonic Components, Inc. Flight Connector developed the first front release firewall connector with a self-locking coupling nut presently being used throughout the airline industry with special emphasis on Boeing, Douglas and Airbus. We were also the founders of ESC, Inc., manufacturer of connector accessories and were responsible for developing a low profile self-locking feature for backshells used extensively throughout the Connector Industry. We are justly proud of our contribution to the safety of aircraft in flight.

As our literature states, we are a reliable source for the full range of connectors with special emphasis upon:

- MIL-DTL-5015 Reverse Bayonet Coupling per VG95234
- MIL-DTL-5015 Threaded Coupling
- MIL-C-22992 Class L
- MIL-C-26482 Series 1 Solder Types
- SAE-AS81703 Series 1 and 2

Spacecraft Components also is pleased to announce we now manufacture a full line of Reverse Bayonet connectors. We enthusiastically welcome your inquiries for this increasingly popular connector.



SPACECRAFT COMPONENTS DISTRIBUTION DIVISION

Connectors are our only business! Since our founding in 1962, Spacecraft Components Corp. has established itself as an independent distributor and one of the most reliable, competitive suppliers of electrical connectors and connector accessories to the Aerospace, Airline, Electronic and Electromechanical industries. We believe in maintaining and expanding a large, comprehensive connector inventory – the largest on the West Coast and probably throughout the country. Need it fast? Your off-the-shelf order can be on its way in as little as 3 hours.

Our large, comprehensive connector inventory encompasses plugs and receptacles of all types including coaxial, hermetic, firewall, environmental and non-environmental in both solder and crimp contact configurations.

A complete line of connector accessories such as adapters, backshells, dust caps, cable clamps and strain reliefs is on hand for all connector types. (See Catalog 401)

Spacecraft Components Corp. is the nation's largest and most reliable connector company, stocking all major QPL approved connector manufacturers: Aero Electric, Amphenol, Bendix, Burndy, Cannon, Deutsch, Flight Connector, G & H Technology, ITT Cannon, Matrix, Pyle-National, Radiall, RMS, Souriau, Trans Technology, TRW Cinch, Veam, etc. In addition, we have connectors for Airbus, Boeing and Douglas Aircraft. We are an authorized distributor for: Astro Tool, ECI Technology, Commital, Glenair, Robert Technologies and Spacecraft Manufacturing.

Because we purchase our inventory in large volumes from connector manufacturers, distributors, as well as from inventories of original equipment manufacturers and the US Government agencies, we are able to accord you substantial savings on your connector requirements.

Our Quality Control system meets or exceeds the requirements of MIL-I-45208 and ISO 9002.

Besides current MIL-SPEC and commercial connectors, the inventory of Spacecraft Components Corp. contains many hard-to-find and out-of-production connectors. Whatever your connector needs (off-the-shelf or custom-assembled), our expert professional staff can help you with your connector problems. If, however, the connector you want is not in stock, our Connector Locator Service will find it for you.

Take advantage of Spacecraft Components Corp's free Connector Consultation Service to find the right connector or accessory for your application. Simply give us your physical and operational parameters and we will provide you with a connector or accessory that will meet or exceed your requirements.

Under the proprietary part numbers in this catalog, we can supply connectors to the standard configurations shown herein or connectors reconfigured to meet the most stringent special requirements. These changes include but are not limited to, different materials, finishes, accessory and insert configurations not offered by other connector manufacturers as part of their standard product line.

Spacecraft Components has the ability to reconfigure connectors to meet customer requirements by using components of other QPL manufacturers. We can assemble a custom or special connector to meet your specifications at a lower cost and reduced delivery time. We are so confident of our ability to deliver a connector that meets your requirements that we offer a Lifetime Warranty as outlined below:

LIFETIME WARRANTY

Spacecraft Components Corp. warrants to the original purchaser it will correct by replacement any defect in workmanship or in-operation of any component purchased from Spacecraft Components Corp. for the life of the equipment in which the component is originally and properly installed. This agreement and warranty supersedes all other warranties expressed or implied.

<http://www.spacecraft.com/sccabout.html>

SECTION 1C

MIL-DTL-5015 SERIES 1/VG95234 TYPE REVERSE BAYONET COUPLING

The connectors shown in this section are a hybrid of the popular MIL-DTL-5015 Series 1 specification and share the same insert configurations and basic outline and mounting dimensions. Developed to meet severe industrial applications, the design features quick positive coupling, dynamic sealing, temperature range of -55°C to +125°C and high shock and vibration capabilities. Positive coupling is indicated audibly and by feel when the lock pins snap into place. Locking is confirmed visually when yellow dots on the receptacle and plug are in alignment.

VG95234 SPECIFICATION

These connectors are compatible with and are intermateable with VG95234 European specification connectors. However, the VG95234 specification requires higher push-out forces than standard and does not allow for solder contacts.

Spacecraft Components Corp. connectors meet the performance requirements of MIL-DTL-5015. Performance, reliability and interchangeability with products of other manufacturers are guaranteed.

An extensive accessory range permits these connectors to operate in any environment, and a high number of insert configurations cover every need of the user.

SHELLS

Shell components are fabricated from high grade aluminum alloy per QQ-A-225 or QQ-A-591 or equivalent. Finish is electrically conductive cadmium plate with an olive drab chromate after-treatment per QQ-P-416, Type II, Class 3. This finish offers corrosion resistance to MIL-STD-1344, Method 1001, Test Condition B. Other finishes are available. These connectors are also available in type 303 or 316 stainless steel with passivated, black cadmium or electrodeposited nickel finishes. Contact the Sales Department for further information.

INSERT AND GROMMETS

They are manufactured of synthetic rubber per MIL-R-3065 and offer high dielectric strength and resistance to hydraulic and lubrication oils. Rated temperature range is -55°C to +125°C.

CONTACTS

Pin and socket contacts are machined from bar stock and designed to resist severe vibration and repeated mating cycles. Socket contacts Sizes 16 and 12 are of a closed entry design. Contacts are available in both solder and crimp versions. Thermocouple materials are also available. Standard plating finish is silver with gold being available.

CHARACTERISTICS

- Durable, field-proven design
- Environmental resistant
- Resilient inserts
- Single key/keyway shell polarization
- Operating voltage to 3000 VAC (RMS) at sea level
- Cost effective

OPTIONS

- Solder or crimp contacts, sizes 18 to 4/0 accepting 22 to 4/0 AWG wire
- Coaxial and thermocouple contact options
- 13 basic shell styles
- 12 shell sizes
- Two hundred and seventy three contact arrangements from 1 to 150 circuits
- Alternate insert positioning



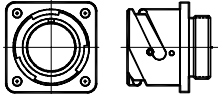
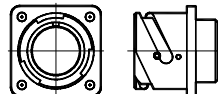
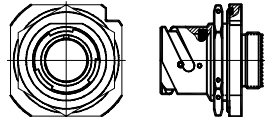
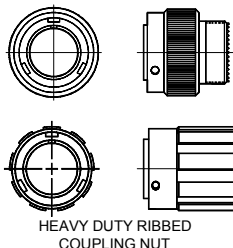
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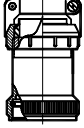
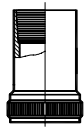
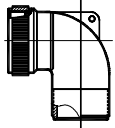
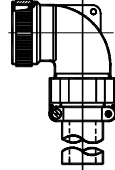
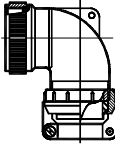
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REVERSE BAYONET CONNECTOR QUICK REFERENCE

SHELL TYPES		BACKSHELLS		ONE PIECE STRAIN RELIEF		MS3057*A CLAMP		MS3057*C CLAMP			
		GROMMET SEAL	CONDUIT ADAPTER								
				SOLID SHELL	LOCKING SHELL	SOLID SHELL	SOLID SHELL	LOCKING SHELL	SOLID SHELL	LOCKING SHELL	
ENVIRONMENTAL, NO GROMMET		ARV	A1	AX1	N/A	N/A	N/A	CF	CFX		
ENVIRONMENTAL WITH GROMMET		RV	R	RX	E	F	FX	CFZ	CFZX		
NON-ENVIRONMENTAL, NO GROMMET		N/A	A	AX	AE	AF	AFX	N/A	N/A		
 WALL MOUNT RECEPTACLE		SCPB00* FRONT MOUNT	•	•	N/A	•	•	N/A	•	N/A	
		SCPB020* FRONT MOUNT	BACKSHELLS NOT SUPPLIED WITH THIS CONFIGURATION OF SHELL								
		SCPB030* REAR MOUNT WITH REAR TEETH	•	•	•	•	•	•	•	•	
		SCPB038* REAR MOUNT WITH 90 degree BACKSHELL	USE SCPB030* FOR STRAIGHT BACKSHELLS								
 BOX MOUNT RECEPTACLE		SCPB02* FRONT MOUNT (REAR THREADS OPTIONAL)	SINCE THESE SHELLS DO NOT HAVE REAR THREADS, BACKSHELLS CANNOT BE USED								
		SCPB03* REAR MOUNT (REAR THREADS OPTIONAL)									
		IN-LINE RECEPTACLE		SCPB01*	•	•	•	•	•	•	•
 JAM NUT RECEPTACLE		SCPB070*	•	•	•	•	•	•	•	•	
		SCPB07* (LESS REAR THREADS)	SINCE THESE SHELLS DO NOT HAVE REAR THREADS, BACKSHELLS CANNOT BE USED								
		PLUG		SCPB06* STRAIGHT	•	•	•	•	•	•	•
 HEAVY DUTY RIBBED COUPLING NUT		SCPB06*GG* RUBBER COVERED COUPLING NUT	•	•	•	•	•	•	•	•	
		SCPB065* HEAVY DUTY RIBBED COUPLING NUT	•	•	N/A	•	•	N/A	•	N/A	
		SCPB08* 90 degree	USE SCPB06* FOR STRAIGHT BACKSHELLS								
		SCPB08*GG* RUBBER COVERED COUPLING NUT	USE SCPB06* FOR STRAIGHT BACKSHELLS								
		PANEL MOUNT PLUG		SCPB064	SINCE THESE SHELLS DO NOT HAVE REAR THREADS, BACKSHELLS CANNOT BE USED						



REVERSE BAYONET CONNECTOR QUICK REFERENCE

MS3057°C CLAMP (LONG LENGTH)		PIPE THREAD		SHRINK BOOT	SHRINK BOOT	SHRINK BOOT EMI/RFI	CONDUIT ADAPTER	MS3057*A CLAMP	MS3057°C CLAMP
									
SOLID SHELL	LOCKING SHELL	SOLID SHELL	LOCKING SHELL	SOLID SEAL	LOCKING SHELL	LOCKING SHELL	LOCKING SHELL	LOCKING SHELL	LOCKING SHELL
LCF	LCFX	APT	APTX	AG	AG2G	ASB	08R1	N/A	08CFZ
LCFZ	LCFZX	PT	PTX	G	G2G	SB	08R	08F	08CFZ1
N/A	N/A	N/A	N/A	N/A	N/A	N/A	08A	08AF	N/A
●	N/A	●	N/A	●	N/A	●	NOT RECOMMENDED WITH FRONT MOUNT RECEPTACLE		
									➡
●	●	●	●	●	●	●	USE SCPB038*	USE SCPB038*	USE SCPB038*
							●	●	●
									➡
●		●		●		●	NOT RECOMMENDED FOR USE, CONSULT FACTORY.		
●	●	●	●	●	●	●	CONSULT FACTORY FOR PART NUMBERS		
									➡
●	●	●	●	●	●	●	USE SCPB08*	USE SCPB08*	USE SCPB08*
●	●	●	●	●	●	●	USE SCPB08*GG*	USE SCPB08*GG*	USE SCPB08*GG*
●	N/A	●	N/A	●	N/A	N/A	N/A	N/A	N/A
							●	●	●
							●	●	●
									➡

MIL-DTL-5015-REVERSE BAYONET COUPLING



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SCPB SERIES

ORDERING INFORMATION

SCPB 00 CFZ 18 - 1 S W F80 XXX

SERIES PREFIX

SCPB Receptacles with wear pins.
SCPBS Receptacles without wear pins.
SCPBH Inserts are Halogen free.
SCPBG06 Plug with EMI/RFI ground spring.

SHELL STYLE

See Table I below.

CLASS

See Table II below.

SHELL SIZE

10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40.

INSERT CONFIGURATION

See pages 4C-1 thru 4C-32 for illustrations and codes.

CONTACT STYLE

P Pin contacts.
PS Pin/socket, TB connector only.
S Socket contacts.

MODIFICATION

A95 Contact-.000010 gold over .000010 nickel.
F0 Less contacts.
(005) Hard black anodize.
(023) Electroless nickel.
(024) Zinc colbalt, olive drab color.
(025) Zinc colbalt, black color.
(142) Contacts-.000030 gold over .000050 nickel.
 For other codes contact Sales Dept.

CONTACT TYPE

BLANK Solder termination.
CR Metric crimp for DIN wire
CR1 Metric crimp for AWG wire.
F80 Crimp for AWG wire.

ALTERNATE POSITION (POLARIZATION)

BLANK (normal), **W, X, Y, Z.**
 See pages 4C-1 thru 4C-9.

FOR ELECTRICAL CHARACTERISTICS SEE PAGE 3C-2

TABLE I. SHELL STYLE

SHELL STYLE	DESCRIPTION	SEE PAGE
00	Wall mount receptacle	1C-5
01	In-line receptacle	1C-7
01FR	In-line receptacle	1C-38
02	Box mount receptacle, front panel mount	1C-6
020	Wall mount receptacle less rear accessories	1C-6
020FR	Wall mount receptacle, front panel mount	1C-37
03	Box mount receptacle, rear panel mount	1C-8
03	Box mount receptacle, PC tail rear mount	1C-10
030	Wall mount receptacle for rear panel mounting	1C-9
030	Wall mount receptacle, PC tail	1C-10
030FR	Wall mount receptacle	1C-37
038	90° Wall mount receptacle	1C-11
06	Straight plug	1C-11
06FR	Straight plug	1C-35
064PP	Panel mount plug	1C-14
064FR	Panel mount plug	1C-37
065FR	Straight plug	1C-40, 1C-41
07	Jam nut receptacle	1C-13
070	Jam nut receptacle with rear accessory threads	1C-13
08	90° plug	1C-16, 1C-17
TB	Thru-bulkhead receptacle	1C-12

SC71-301

TABLE II.

APPLICATION	NON-ENVIRONMENTAL	ENVIRONMENTAL WITH GORMMET	ENVIRONMENTAL NO GROMMET	SEE PAGE
INDIVIDUAL WIRES	A, ARV, LA	R, LR, R, RV	APT	1C-18
	AE, AF	E; F	—	1C-19
JACKETED CABLE	—	CFZ, LCFZ	CF, LCF	1C-20
	—	WKG	WK, WK3	1C-22
SHIELDED	—	—	WK1	1C-22
KELLUMS	—	LC, LC3	LCG, LCG4	1C-21
PG	—	SL1	SL, SLX	1C-20
SHRINK BOOT	—	G, G2G	AG, AG2G	1C-23
SHIELDED	—	SB	ASB	1C-23
FLEX CONDUIT				
TYPE CL-P	—	NM	NMG	1C-24
TYPE EF	—	RK	ARK	1C-25
METAL CORE	—	CMEG	—	1C-26
RUBBER HOSE	—	—	BC	1C-27
PMA	—	—	PIL**	1C-28

SCPB-301a

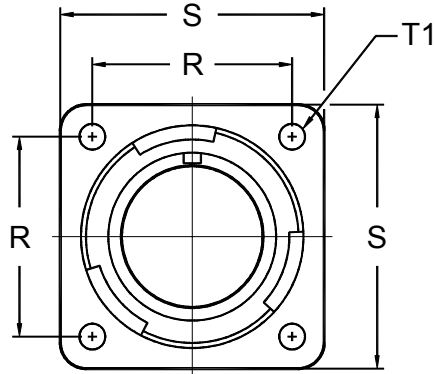


SCPB SERIES

00 WALL MOUNT RECEPTACLE

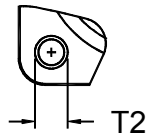
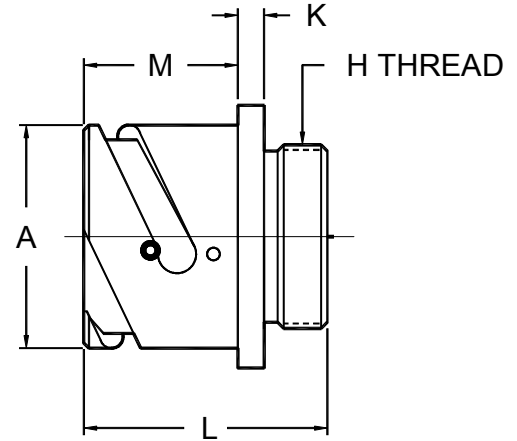
FRONT MOUNT

FRONT VIEW

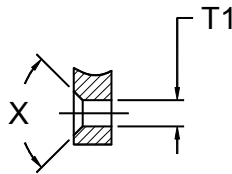


MOUNTING HOLE OPTIONS
See Table I.

SIDE VIEW



THREADED



COUNTERSUNK

TABLE I. MOUNTING HOLE CODES

CODE	MOUNTING HOLE TYPE
None	Through holes - Standard
FF	Metric thread
UN	UNC thread
FS	Metric countersink (X=90°)
FSM	UN countersink (X=82°)

SCPB00

SHELL SIZE	FRONT VIEW					SIDE VIEW				
	R	S	T1	T2		A	H	K	L	M
	±0.1	±0.3	+0.1 -0.0	THREAD		+0.00 -0.15	THREAD CLASS 2A	±0.2	±0.3	+0.4 -0.0
				METRIC	UNC					
10SL	18.2	25.4	3.2	M4	8-32UNC	18.2	5/8-24 UNEF	2.8	27.6	14.2
14S	23.0	30.0	3.2	M4	8-32UNC	24.6	3/4-20 UNEF	3.2	27.6	14.3
16S	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	27.6	14.0
16	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	33.8	19.0
18	27.0	35.0	3.2	M4	8-32UNC	30.8	1-20 UNEF	4.0	33.8	19.1
20	29.4	38.0	3.2	M4	8-32UNC	34.2	1 1/8-18 UNEF	4.0	33.8	19.1
22	31.8	41.0	3.2	M4	8-32UNC	37.4	1 1/4-18 UNEF	4.0	33.8	19.0
24	34.9	44.5	3.7	M4	10-24UNC	40.9	1 3/8-18 UNEF	4.0	35.8	20.6
28	39.7	50.8	3.7	M5	10-24UNC	46.7	1 5/8-18 UNEF	4.0	35.8	20.6
32	44.5	57.0	4.3	M5	1/4-20UNC	53.4	1 7/8-16 UN	4.0	37.3	22.2
36	49.2	63.5	4.3	M5	1/4-20UNC	59.6	2 1/16-16 UN	4.0	37.3	22.2
40	55.5	69.9	4.3	M5	1/4-20UNC	65.5	2 5/16-16 UNS	4.0	37.3	22.2

SCPB00-301

DIMENSIONS ARE IN MM.

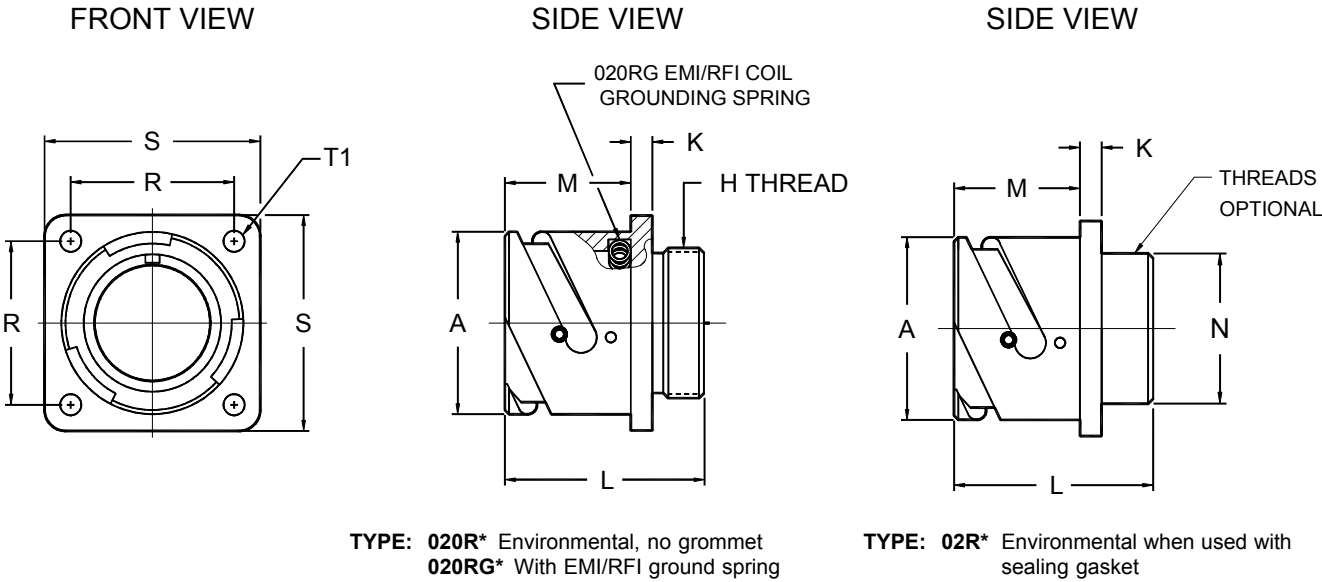
FOR AVAILABLE BACKSHELLS SEE PAGES 1C-18 THRU 1C-28

SCPB SERIES

02 BOX MOUNT RECEPTACLE

020 WALL MOUNT RECEPTACLE

FRONT MOUNT



*Mounting hole code. See Table I.

MOUNTING HOLE OPTIONS
See Table I.

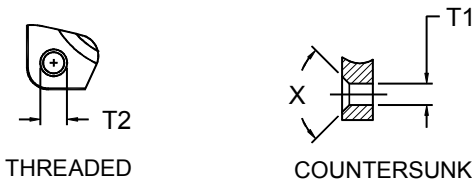


TABLE I. MOUNTING HOLE CODES

CODE	MOUNTING HOLE TYPE
None	Through holes - Standard
FF	Metric thread
UN	UNC thread
FS	Metric countersink (X=90°)
FSM	UN countersink (X=82°)

SCPB00

SHELL SIZE	FRONT VIEW					SIDE VIEW					
	R	S	T1	T2 THREADS		A	H	K	L	M	N
	±0.1	±0.3	+0.1 -0.0	METRIC	UNC	+0.00 -0.15	THREAD CLASS 2A	±0.2	±0.3	+0.4 -0.0	MAX.
10SL	18.2	25.4	3.2	M4	8-32UNC	18.2	5/8-24 UNEF	2.8	27.6	14.2	16.2
14S	23.0	30.0	3.2	M4	8-32UNC	24.6	3/4-20 UNEF	3.2	27.6	14.2	19.2
16S	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	27.6	14.2	22.4
16	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	33.8	19.0	22.4
18	27.0	35.0	3.2	M4	8-32UNC	30.8	1-20 UNEF	4.0	33.8	19.0	25.6
20	29.4	38.0	3.2	M4	8-32UNC	34.2	1 1/8-18 UNEF	4.0	33.8	19.0	29.0
22	31.8	41.0	3.2	M4	8-32UNC	37.4	1 1/4-18 UNEF	4.0	33.8	19.0	32.2
24	34.9	44.5	3.7	M4	10-24UNC	40.9	1 3/8-18 UNEF	4.0	35.8	20.6	35.3
28	39.7	50.8	3.7	M5	10-24UNC	46.7	1 5/8-18 UNEF	4.0	35.8	20.6	41.4
32	44.5	57.0	4.3	M5	1/4-20UNC	53.4	1 7/8-16 UN	4.0	37.3	22.2	47.8
36	49.2	63.5	4.3	M5	1/4-20UNC	59.6	2 1/16-16 UN	4.0	37.3	22.2	54.1
40	55.5	69.9	4.3	M5	1/4-20UNC	65.5	2 5/16-16 UNS	4.0	37.3	22.2	59.0

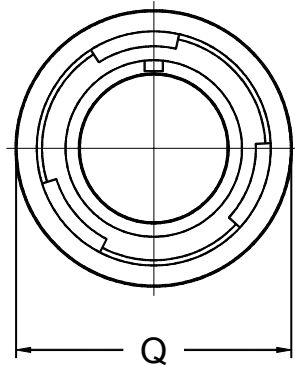
DIMENSIONS ARE IN MM.

SCPB020-301

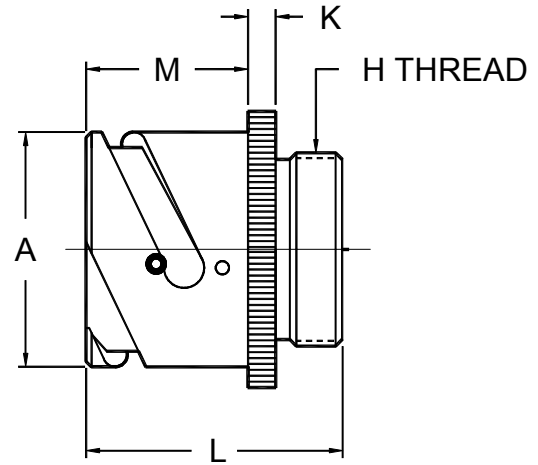
SCPB SERIES

01 IN-LINE RECEPTACLE

FRONT VIEW



SIDE VIEW



SHELL SIZE	FRONT VIEW	SIDE VIEW				
	Q MAX.	A +0.00 -0.15	H THREAD CLASS 2A	K ±0.2	L ±0.3	M +0.4 -0.0
10SL	22.5	18.2	5/8-24 UNEF	2.8	27.6	14.2
14S	29.5	24.6	3/4-20 UNEF	3.2	27.6	14.2
16S	31.5	27.4	7/8-20 UNEF	3.2	27.6	14.2
16	31.5	27.4	7/8-20 UNEF	3.2	33.8	19.0
18	34.5	30.8	1-20 UNEF	4.0	33.8	19.0
20	37.5	34.2	1 1/8-18 UNEF	4.0	33.8	19.0
22	40.5	37.4	1 1/4-18 UNEF	4.0	33.8	19.0
24	44.5	40.9	1 3/8-18 UNEF	4.0	35.8	20.6
28	50.0	46.7	1 5/8-18 UNEF	4.0	35.8	20.6
32	56.5	53.4	1 7/8-16 UN	4.0	37.3	22.2
36	63.0	59.6	2 1/16-16 UN	4.0	37.3	22.2
40	69.0	65.5	2 5/16-16 UNS	4.0	37.3	22.2

DIMENSIONS ARE IN MM.

SCPB01-301

FOR AVAILABLE BACKSHELLS SEE PAGES 1C-18 THRU 1C-28

MIL-DTL-5015-REVERSE BAYONET COUPLING



SPACECRAFT
COMPONENTS CORP.
DISTRIBUTION DIVISION



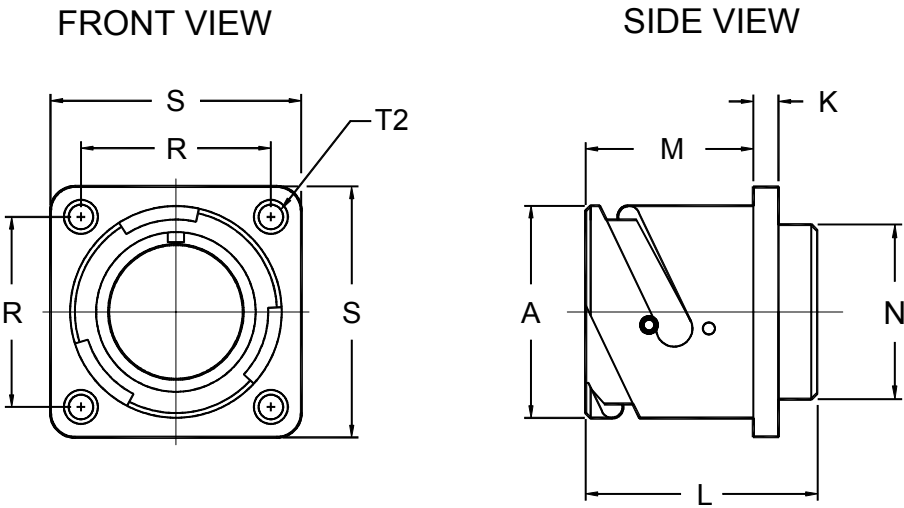
3040 North Clayton Street
Phone: 702-851-7600
Email: space@spacecraft.com

North Las Vegas, NV 89032
Fax: 702-851-7620
Web: www.spacecraft.com

SCPB SERIES

03 BOX MOUNT RECEPTACLE

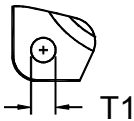
REAR MOUNT



TYPE: 03R* Environmental when used with sealing gasket

* Mounting hole code. See Table I.

MOUNTING HOLE OPTION
See Table I.



THROUGH HOLES

TABLE I. MOUNTING HOLE CODES

CODE	MOUNTING HOLE TYPE
FP	Through holes
None	Metric thread - Standard
UN	UNC thread

SCPB030

SHELL SIZE	FRONT VIEW					SIDE VIEW				
	R ±0.1	S ±0.3	T1 +0.1 -0.0 STYLE 03RFP	T2 THREAD		A +0.00 -0.15	K ±0.2	L ±0.3	M +0.4 -0.0	N MAX.
				METRIC	UNC					
10SL	18.2	25.4	3.2	M4	8-32UNC	18.2	2.8	27.6	18.20	16.2
14S	23.0	30.0	3.2	M4	8-32UNC	24.6	3.2	27.6	18.20	19.2
16S	24.6	32.5	3.2	M4	8-32UNC	27.4	3.2	27.6	18.20	22.4
16	24.6	32.5	3.2	M4	8-32UNC	27.4	3.2	33.8	21.50	22.4
18	27.0	35.0	3.2	M4	8-32UNC	30.8	4.0	34.5	23.05	25.6
20	29.4	38.0	3.2	M4	8-32UNC	34.2	4.0	34.5	23.05	29.0
22	31.8	41.0	3.2	M4	8-32UNC	37.4	4.0	34.5	23.05	32.2
24	34.9	44.5	3.7	M4	10-24UNC	40.9	4.0	35.8	23.05	35.3
28	39.7	50.8	3.7	M5	10-24UNC	46.7	4.0	35.8	24.05	41.4
32	44.5	57.0	4.3	M5	1/4-20UNC	53.4	4.0	37.3	24.05	47.8
36	49.2	63.5	4.3	M5	1/4-20UNC	59.6	4.0	37.3	24.05	54.1
40	55.5	69.8	4.3	M5	1/4-20UNC	65.5	4.0	37.3	24.05	59.0

DIMENSIONS ARE IN MM.

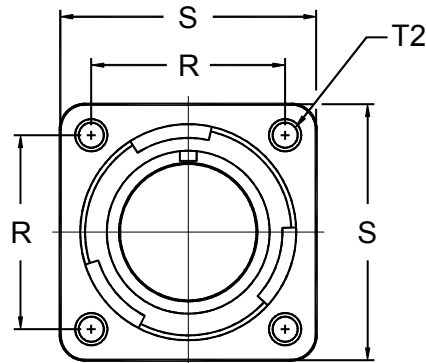
SCPB03

SCPB SERIES

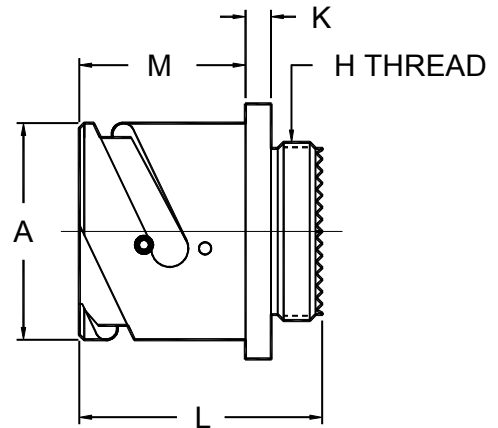
030 WALL MOUNT RECEPTACLE

REAR MOUNT

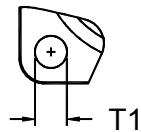
FRONT VIEW



SIDE VIEW



MOUNTING HOLE OPTION
See Table I.



THROUGH HOLES

TABLE I. MOUNTING HOLE CODES

CODE	MOUNTING HOLE TYPE
FP	Through holes
None	Metric thread - Standard
UN	UNC thread

SCPB030

SHELL SIZE	FRONT VIEW					SIDE VIEW				
	R ±0.1	S ±0.3	T1 +0.1 -0.0	T2 THREAD		A +0.00 -0.15	H THREAD CLASS 2A	K ±0.2	L ±0.3	M +0.4 -0.0
			STYLE FP	METRIC	UNC					
10SL	18.2	25.4	3.2	M4	8-32UNC	18.2	5/8-24 UNEF	2.8	27.6	18.20
14S	23.0	30.0	3.2	M4	8-32UNC	24.6	3/4-20 UNEF	3.2	27.6	18.20
16S	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	27.6	18.20
16	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	33.8	23.05
18	27.0	35.0	3.2	M4	8-32UNC	30.8	1-20 UNEF	4.0	33.8	23.05
20	29.4	38.0	3.2	M4	8-32UNC	34.2	1 1/8-18 UNEF	4.0	33.8	23.05
22	31.8	41.0	3.2	M4	8-32UNC	37.4	1 1/4-18 UNEF	4.0	33.8	23.05
24	34.9	44.5	3.7	M4	10-24UNC	40.9	1 3/8-18 UNEF	4.0	35.8	23.05
28	39.7	50.8	3.7	M5	10-24UNC	46.7	1 5/8-18 UNEF	4.0	35.8	24.05
32	44.5	57.0	4.3	M5	1/4-20UNC	53.4	1 7/8-16 UN	4.0	37.3	24.05
36	49.2	63.5	4.3	M5	1/4-20UNC	59.6	2 1/16-16 UN	4.0	37.3	24.05
40	55.5	69.9	4.3	M5	1/4-20UNC	65.5	2 5/16-16 UNS	4.0	37.3	24.05

DIMENSIONS ARE IN MM.

SCPB030-301

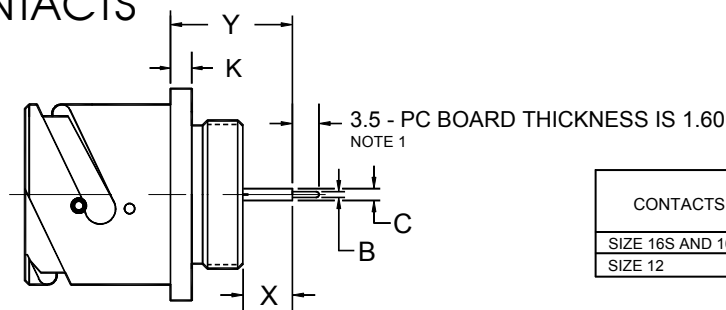
FOR AVAILABLE BACKSHELLS SEE PAGES 1C-18 THRU 1C-28

SCPB SERIES

03 BOX MOUNT RECEPTACLE

030 WALL MOUNT RECEPTACLE

PC TAIL CONTACTS



CONTACTS	B +0.00 -0.05	C +0.00 -0.10
SIZE 16S AND 16	0.75	1.6
SIZE 12	1.8	3.4

TYPE: 020YM* Environmental with PC tail contacts

030YM* Environmental with PC tail contacts

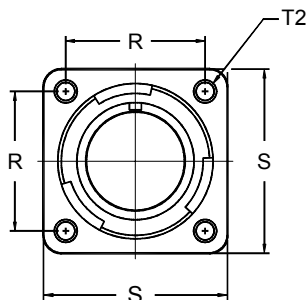
SHELL SIZE	SHELL TYPE	K ±0.2	TYPE: YM		TYPE: YM1		TYPE: YM2		TYPE: YM3		TYPE: YM4 NOTE 1	
			X ±.50	Y ±.50	X ±.50	Y ±.50	X ±.50	Y ±.50	X ±.50	Y ±.50	X ±.50	Y ±.50
10SL	020/PIN	2.79	4.22	14.70	-	-	-	-	-	-	1.90	12.39
	020/SOCKET	2.79	4.93	15.42	-	-	-	-	-	-	-	-
	030/PIN	2.79	1.29	10.69	-	-	-	-	-	-	-	-
	030/SOCKET	2.79	1.96	11.38	-	-	7.15	16.55	-	-	-	-
14S	020/PIN	3.20	4.14	14.53	-	-	-	-	-	-	1.85	12.24
	020/SOCKET	3.20	4.93	15.29	-	-	-	-	-	-	-	-
	030/PIN	3.20	1.29	10.62	-	-	-	-	-	-	-	-
	030/SOCKET	3.20	1.96	11.38	-	-	7.15	16.55	-	-	-	-
16S	020/PIN	3.20	1.80	12.19	-	-	-	-	-	-	2.03	12.42
	020/SOCKET	3.20	4.93	15.26	-	-	-	-	-	-	-	-
	030/PIN	3.20	1.29	10.72	-	-	-	-	-	-	-	-
	030/SOCKET	3.20	1.96	11.38	-	-	7.15	16.55	-	-	-	-
16	020/PIN	3.20	5.18	20.00	6.78	21.59	-	-	-	-	-	-
	020/SOCKET	3.20	5.28	20.09	6.80	21.61	-	-	-	-	-	-
	030/PIN	3.20	5.18	15.95	6.78	17.55	-	-	-	-	-	-
	030/SOCKET	3.20	5.20	15.96	6.80	17.55	-	-	-	-	-	-
18	020/PIN	3.98	5.20	19.91	5.22	21.51	-	-	-	-	-	-
	020/SOCKET	3.98	5.28	19.96	6.80	21.49	-	-	-	-	-	-
	030/PIN	3.98	5.18	15.95	6.78	17.55	-	-	-	-	-	-
	030/SOCKET	3.98	5.20	15.96	6.80	17.55	-	-	-	-	-	-
20	020/PIN	3.98	5.18	19.89	6.78	21.49	-	-	-	-	-	-
	020/SOCKET	3.98	5.28	19.96	6.80	21.49	-	-	-	-	-	-
	030/PIN	3.98	5.18	15.95	6.78	17.55	-	-	-	-	-	-
	030/SOCKET	3.98	5.20	15.98	6.80	17.55	-	-	-	-	-	-
22	020/PIN	3.98	5.18	19.89	6.78	21.49	-	-	-	-	-	-
	020/SOCKET	3.98	5.28	20.01	6.80	21.54	-	-	-	-	-	-
	030/PIN	3.98	5.18	15.95	6.78	17.55	-	-	-	-	-	-
	030/SOCKET	3.98	5.20	15.96	6.80	17.55	-	-	-	-	-	-
24	020/PIN	3.98	4.90	20.00	-	-	3.30	18.41	-	-	-	-
	020/SOCKET	3.98	4.90	21.54	-	-	3.38	20.01	-	-	-	-
	030/PIN	3.98	6.78	17.55	-	-	5.18	15.95	-	-	-	-
	030/SOCKET	3.98	6.80	17.56	-	-	5.20	15.98	-	-	-	-
28	020/PIN	3.98	4.90	20.00	-	-	3.30	18.41	-	-	-	-
	020/SOCKET	3.98	4.90	21.54	-	-	3.38	20.01	-	-	-	-
	030/PIN	3.98	4.90	16.56	-	-	3.30	14.96	-	-	-	-
	030/SOCKET	3.98	4.90	16.56	-	-	3.30	14.96	-	-	-	-
32	020/PIN	3.98	-	-	-	-	3.28	18.41	1.68	16.81	-	-
	020/SOCKET	3.98	-	-	-	-	3.30	18.41	1.78	16.89	-	-
	030/PIN	3.98	-	-	-	-	3.28	16.56	1.68	14.96	-	-
	030/SOCKET	3.98	-	-	-	-	3.30	16.56	1.70	14.96	-	-
36	020/PIN	3.98	-	-	-	-	3.30	18.41	1.66	16.81	-	-
	020/SOCKET	3.98	-	-	-	-	3.30	18.41	1.78	16.89	-	-
	030/PIN	3.98	-	-	-	-	3.28	16.56	1.68	14.96	-	-
	030/SOCKET	3.98	-	-	-	-	3.30	16.56	1.70	14.96	-	-
40	020/PIN	3.98	-	-	-	-	3.28	18.41	1.68	16.81	-	-
	020/SOCKET	3.98	-	-	-	-	3.30	18.41	1.78	16.89	-	-
	030/PIN	3.98	-	-	-	-	3.28	16.56	1.68	14.96	-	-
	030/SOCKET	3.98	-	-	-	-	3.30	16.56	1.70	14.96	-	-

DIMENSIONS ARE IN MM.
NOTE 1: TYPE YM4 HEIGHT IS 2.0, NOT 3.5

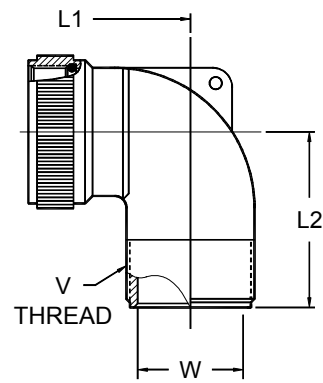
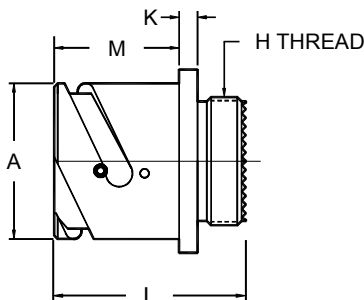
SCPB0302-301

038 90° WALL MOUNT RECEPTACLE REAR MOUNT

FRONT VIEW



SIDE VIEW



BACKSHELL FOR THREADED ACCESSORY

TYPE: **038A*** Non-environmental, no grommet
038R* Environmental with grommet

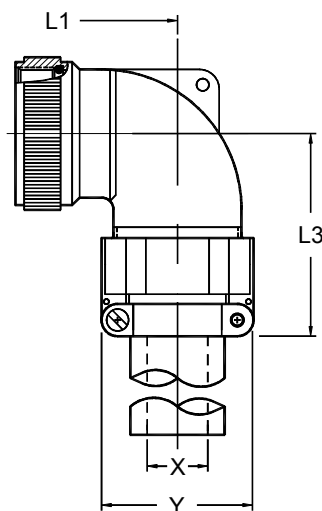
MOUNTING HOLE OPTION
See Table I.



TABLE I. MOUNTING HOLE CODES

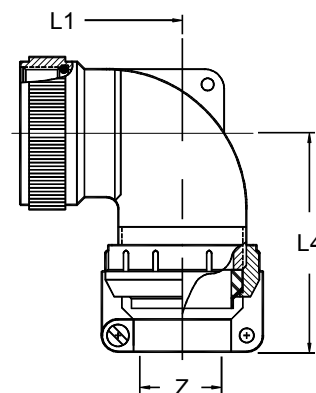
CODE	MOUNTING HOLE TYPE
FP	Through holes
None	Metric thread - Standard
UN	UNC thread

SCPB030



FOR INDIVIDUAL WIRES

TYPE: **038F*** Environmental with grommet
038AF* Non-environmental, no grommet



FOR JACKETED CABLE

TYPE: **038CF*** Environmental, no grommet
038CFZ* Environmental with grommet

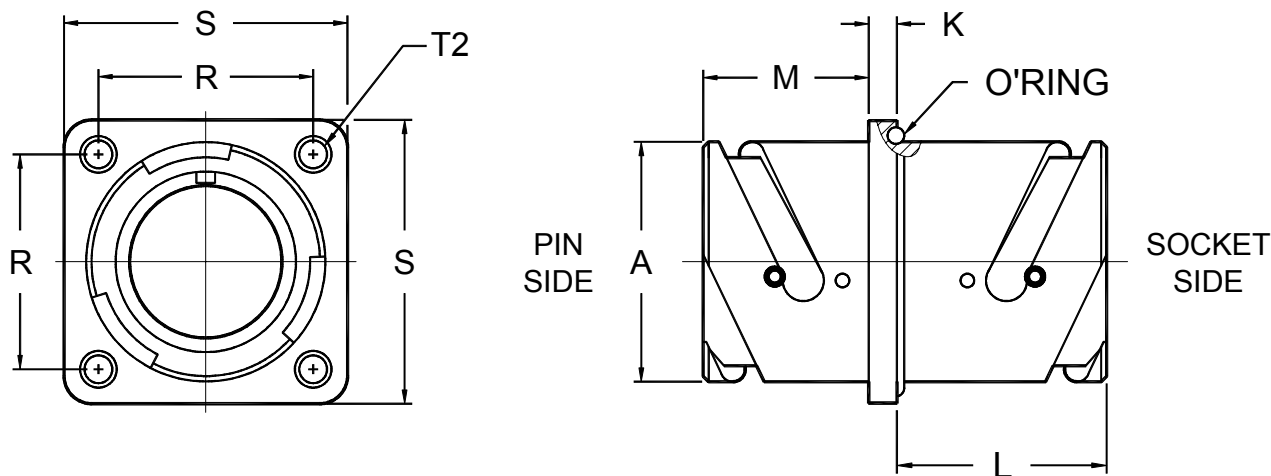
* Mounting hole code. See Table I.

SHELL SIZE	FRONT VIEW						SIDE VIEW						038A*, 038R*, 038AF*, 038F*, 038CF*, 038CFZ*											
	R	S	T1	T2 THREAD		A	H	K	L	M	L1	L2	L3	L4	V	W	X	Y	Z		OPEN	CLOSED		
	±0.1	±0.3	+0.1 -0.0			+0.00 -0.15	THREAD CLASS 2A	±0.2	±0.3	+0.4 -0.0	MAX.	MAX.	MAX.	MAX.	THREAD CLASS 2A	MIN.	MIN.	MAX.						
			STYLE FP	METRIC	UNC																			
10SL	18.2	25.4	3.2	M4	8-32UNC	18.2	5/8-24 UNEF	2.8	27.6	18.20	45	30	42	53	5/8-24 UNEF	8.5	6.5	22.7	7.93	2.38				
14S	23.0	30.0	3.2	M4	8-32UNC	24.6	3/4-20 UNEF	3.2	27.6	18.20	47	30	44	54	3/4-20 UNEF	12.0	9.0	27.5	11.12	5.84				
16S	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	27.6	18.20	48	30	47	56	7/8-20 UNEF	14.5	11.0	30.0	13.48	8.0				
16	24.6	32.5	3.2	M4	8-32UNC	27.4	7/8-20 UNEF	3.2	33.8	23.05	57	30	47	56	7/8-20 UNEF	14.5	11.0	30.0	13.48	8.0				
18	27.0	35.0	3.2	M4	8-32UNC	30.8	1-20 UNEF	4.0	33.8	23.05	58	35	53	60	1-20 UNEF	17.5	14.2	32.2	15.87	9.6				
20	29.4	38.0	3.2	M4	8-32UNC	34.2	1 1/8-18 UNEF	4.0	33.8	23.05	61	35	53	62	1 3/16-18 UNEF	19.5	15.8	37.5	19.00	11.3				
22	31.8	41.0	3.2	M4	8-32UNC	37.4	1 1/4-18 UNEF	4.0	33.8	23.05	61	35	53	63	1 3/16-18 UNEF	22.0	15.8	37.5	19.00	11.3				
24	34.9	44.5	3.7	M4	10-24UNC	40.9	1 3/8-18 UNEF	4.0	35.8	23.05	66	40	58	70	1 7/16-18 UNEF	25.0	21.4	43.3	23.80	15.5				
28	39.7	50.8	3.7	M5	10-24UNC	46.7	1 5/8-18 UNEF	4.0	35.8	24.05	66	40	60	71	1 7/16-18 UNEF	29.0	21.4	43.3	23.80	15.5				
32	44.5	57.0	4.3	M5	10-24UNC	53.4	1 7/8-16 UN	4.0	37.3	24.05	72	45	67	83	1 3/4-18 UNS	34.0	26.7	51.7	31.75	23.4				
36	49.2	63.5	4.3	M5	1/4-20UNC	59.6	2 1/16-16 UN	4.0	37.3	24.05	75	50	71	91	2-18 UNS	38.5	31.7	58.0	35.00	23.4				
40	55.5	69.9	4.3	M5	1/4-20UNC	65.5	2 5/16-16 UNS	4.0	37.3	24.05	78	55	95	95	2 1/4-16 UN	48.0	34.9	65.5	41.25	29.9				

DIMENSIONS ARE IN MM.

SCPB038

SCPB SERIES TB THRU-BULKHEAD RECEPTACLE



MOUNTING HOLE OPTION
See Table I.

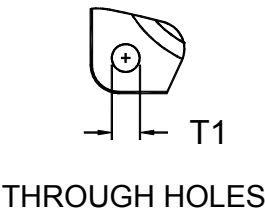


TABLE I. MOUNTING HOLE CODES

CODE	MOUNTING HOLE TYPE
FP	Through holes
None	Metric thread - Standard
FSM	UNC thread

SCPB030

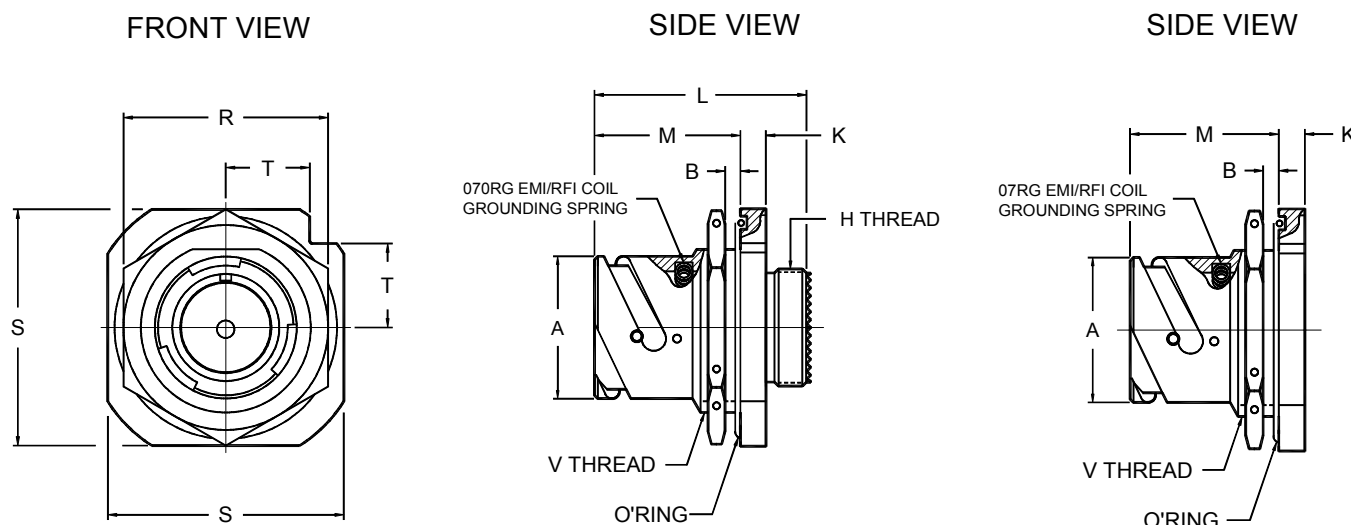
SHELL SIZE	FRONT VIEW					SIDE VIEW			
	R	S	T1	T2		A	K	L	M
	±0.1	±0.3	+0.1 -0.0	THREAD		+0.00 -0.15	±0.2	MAX.	+0.4 -0.0
				METRIC	UNC				
10SL	18.2	25.4	3.2	M4	8-32UNC	18.2	2.8	20.5	14.2
14S	23.0	30.0	3.2	M4	8-32UNC	24.6	3.2	20.1	14.2
16S	24.6	32.5	3.2	M4	8-32UNC	27.4	3.2	20.1	14.2
16	24.6	32.5	3.2	M4	8-32UNC	27.4	3.2	29.2	19.0
18	27.0	35.0	3.2	M4	8-32UNC	30.8	4.0	28.4	19.0
20	29.4	38.0	3.2	M4	8-32UNC	34.2	4.0	28.4	19.0
22	31.8	41.0	3.2	M4	8-32UNC	37.4	4.0	28.4	19.0
24	34.9	44.5	3.7	M4	10-24UNC	40.9	4.0	26.8	20.6
28	39.7	50.8	3.7	M5	10-24UNC	46.7	4.0	26.8	20.6
32	44.5	57.0	4.3	M5	1/4-20UNC	53.4	4.0	25.2	22.2
36	49.2	63.5	4.3	M5	1/4-20UNC	59.6	4.0	25.2	22.2
40	55.5	69.8	4.3	M5	1/4-20UNC	65.5	4.0	25.2	22.2

DIMENSIONS ARE IN MM.

SCPBTB

SCPB SERIES

07 JAM NUT RECEPTACLE 070 JAM NUT RECEPTACLE REAR MOUNT



TYPE: 070 Environmental
070RG Environmental with EMI/RFI grounding spring

TYPE: 07R Environmental
07RG Environmental with EMI/RFI ground spring

FOR AVAILABLE BACKSHELLS SEE PAGES 1C-18 THRU 1C-28

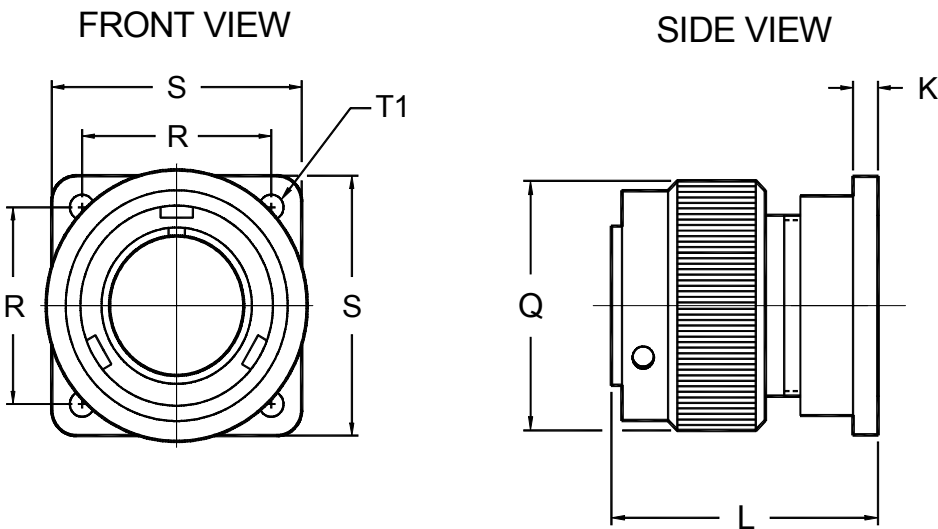
SHELL SIZE	FRONT VIEW			SIDE VIEW							
	R ±0.4	S ±0.3	T MAX.	A +0.00 -0.15	B PANEL THICKNESS		H THREAD CLASS 2A	K ±0.2	L MAX.	M +0.4 -0.0	V THREAD CLASS 2A
					MIN.	MAX.					
10SL	27.0	31.8	11.2	18.2	2.4	5.2	5/8-24 UNEF	4.0	36.2	24.5	7/8-20 UNEF
14S	33.0	41.3	14.6	24.6	2.4	7.5	3/4-20 UNEF	4.8	38.9	26.8	1 1/8-18 UNEF
16S	38.1	44.4	15.7	27.4	2.4	7.5	7/8-20 UNEF	4.8	38.9	26.8	1 1/4-18 UNEF
16	38.1	44.4	15.7	27.4	2.4	7.5	7/8-20 UNEF	4.8	48.5	32.1	1 1/4-18 UNEF
18	39.7	47.6	16.8	30.8	2.4	9.0	1-20 UNEF	4.8	47.7	33.7	1 3/8-18 UNEF
20	44.0	50.8	18.0	34.2	2.4	9.0	1 1/8-18 UNEF	4.8	49.3	33.7	1 1/2-18 UNEF
22	46.0	57.2	20.2	37.4	2.4	9.1	1 1/4-18 UNEF	4.8	49.3	33.7	1 5/8-18 UNEF
24	50.8	57.2	20.2	40.9	2.4	9.1	1 3/8-18 UNEF	4.8	49.6	33.7	1 3/4-18 UNEF
28	55.0	63.5	22.5	46.7	2.4	8.5	1 5/8-18 UNEF	5.6	51.3	35.2	2-18 UNS
32	62.0	69.8	24.7	53.4	2.4	6.5	1 7/8-16 UN	5.6	51.3	35.2	2 1/4-16 UN
36	71.0	76.2	26.9	59.6	2.4	8.3	2 1/16-16 UN	5.6	51.3	35.2	2 1/2-16 UN
40	75.0	82.5	29.6	65.5	2.4	8.3	2 5/16-16 UNS	5.6	51.2	35.2	2 3/4-16 UN

DIMENSIONS ARE IN MM.

SCP070-301

SCPB SERIES

064PP PANEL MOUNT PLUG



TYPE: 064PP Environmental when used with sealing gasket

SHELL SIZE	FRONT VIEW			SIDE VIEW		
	R ±0.1	S ±0.8	T1 +0.2 -0.1	K +0.5 -0.2	L MAX.	Q MAX.
10SL	18.2	25.4	3.2	2.8	29.9	22.8
14S	23.0	30.0	3.2	3.2	29.9	29.2
16S	24.6	32.5	3.2	3.2	35.1	32.0
16	24.6	32.5	3.2	3.2	35.1	32.0
18	27.0	35.0	3.2	3.2	40.2	36.5
20	29.4	38.0	3.2	3.2	43.8	39.9
22	31.8	41.0	3.2	3.8	43.8	43.1
24	34.9	44.5	3.7	3.8	43.8	46.6
28	39.7	50.8	3.7	4.0	44.0	53.4
32	44.5	57.0	4.3	4.0	45.1	60.1
36	49.2	63.5	4.3	4.0	45.1	66.3
40	55.5	69.9	5.2	4.0	45.1	72.4

DIMENSIONS ARE IN MM.

SCPB064

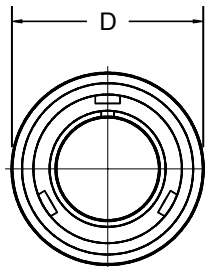
SCPB & SCPBG SERIES

06 STRAIGHT PLUG

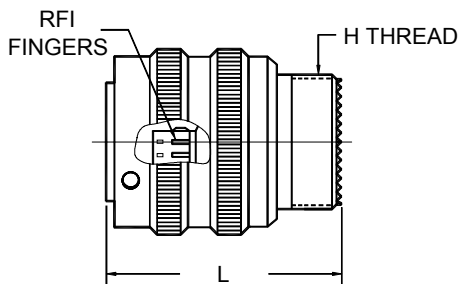
06GG** RUBBER COVERED COUPLING NUT

065 EXTENDED COUPLING NUT

FRONT VIEW



SIDE VIEW



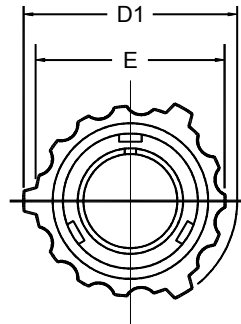
TYPE: 06**

SHELL SIZE	D MAX.	H THREAD CLASS 2A	L ±0.3
10SL	22.8	5/8-24 UNEF	24.7
14S	29.2	3/4-20 UNEF	24.7
16S	32.0	7/8-20 UNEF	24.7
16	32.0	7/8-20 UNEF	33.8
18	36.5	1-20 UNEF	33.8
20	39.9	1 1/8-18 UNEF	33.8
22	43.1	1 1/4-18 UNEF	33.8
24	46.6	1 3/8-18 UNEF	35.7
28	53.4	1 5/8-18 UNEF	35.7
32	60.1	1 7/8-16 UN	37.3
36	66.3	2 1/16-16 UN	37.3
40	72.4	2 5/16-16 UNS	37.3

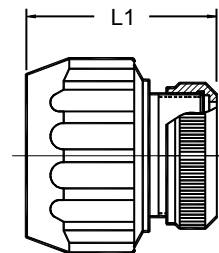
DIMENSIONS ARE IN MM.

SCPB06-301

FRONT VIEW



SIDE VIEW

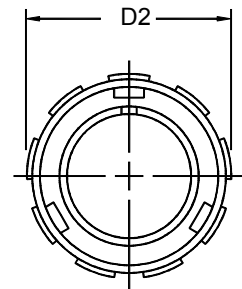


TYPE: 06**GG

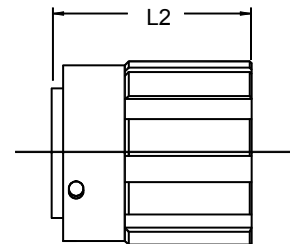
SHELL SIZE	D1 DIA.	E DIA.	L MAX.
10SL	33.5	28.5	89
14S	40.2	32.5	89
16S	*	*	*
16	*	*	*
18	49.0	43.5	106
20	51.5	46.0	107
22	56.5	50.5	107
24	60.0	54.0	118
28	67.0	61.0	118
32	76.0	67.6	127
36	82.3	74.3	134
40	88.0	80.0	144

DIMENSIONS ARE IN MM.

FRONT VIEW



SIDE VIEW



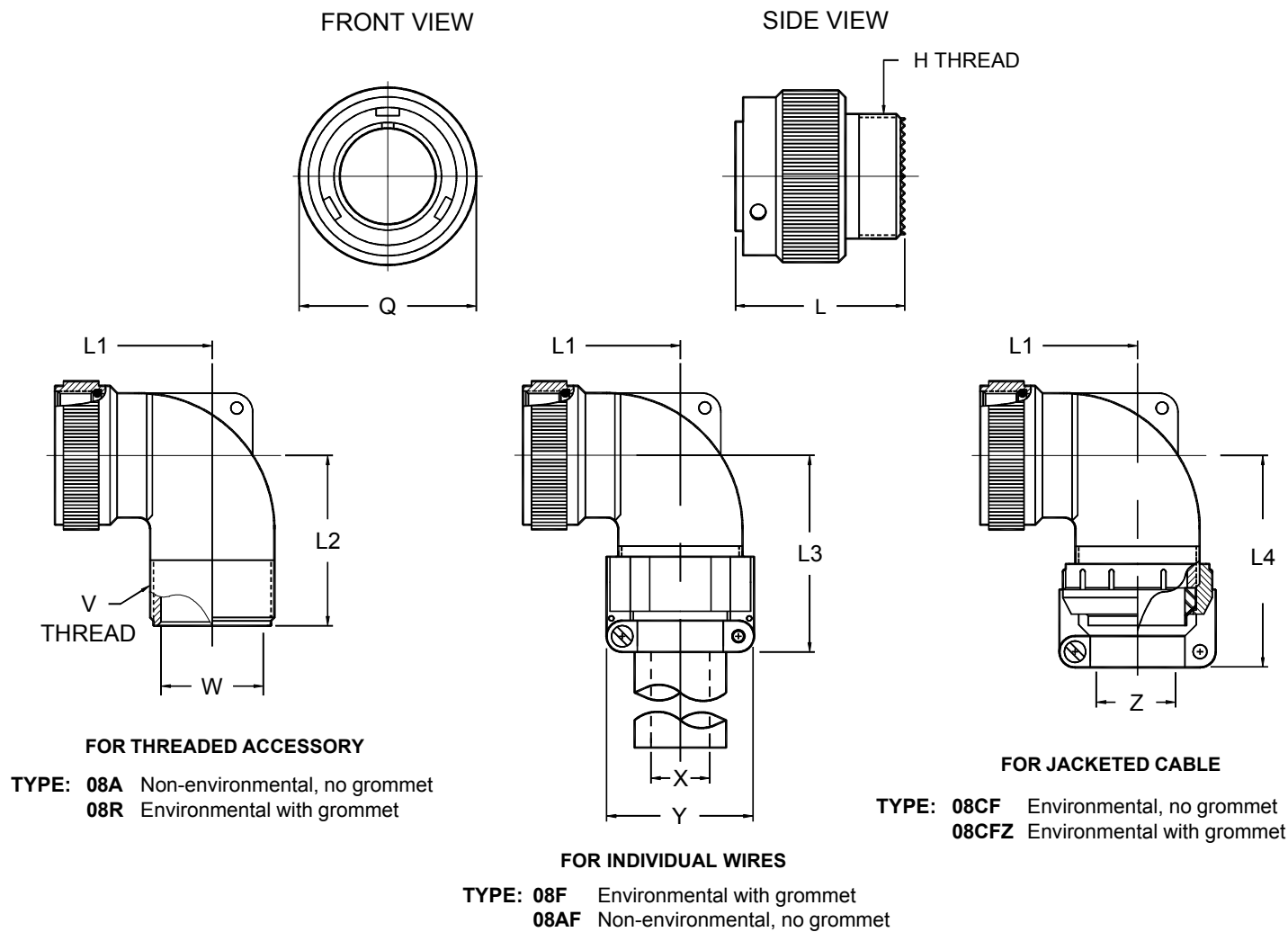
TYPE: 065**

SHELL SIZE	D2 MAX.	L2 DIA.
10SL	25.3	34.9
14S	31.7	34.9
16S	35.9	35.2
16	35.9	40.3
18	39.5	50.5
20	42.9	50.5
22	46.1	50.5
24	49.5	50.5
28	56.9	51.3
32	63.7	53.3
36	70.1	53.3
40	75.7	53.3

DIMENSIONS ARE IN MM.

FOR AVAILABLE BACKSHELLS SEE PAGES 1C-18 THRU 1C-28

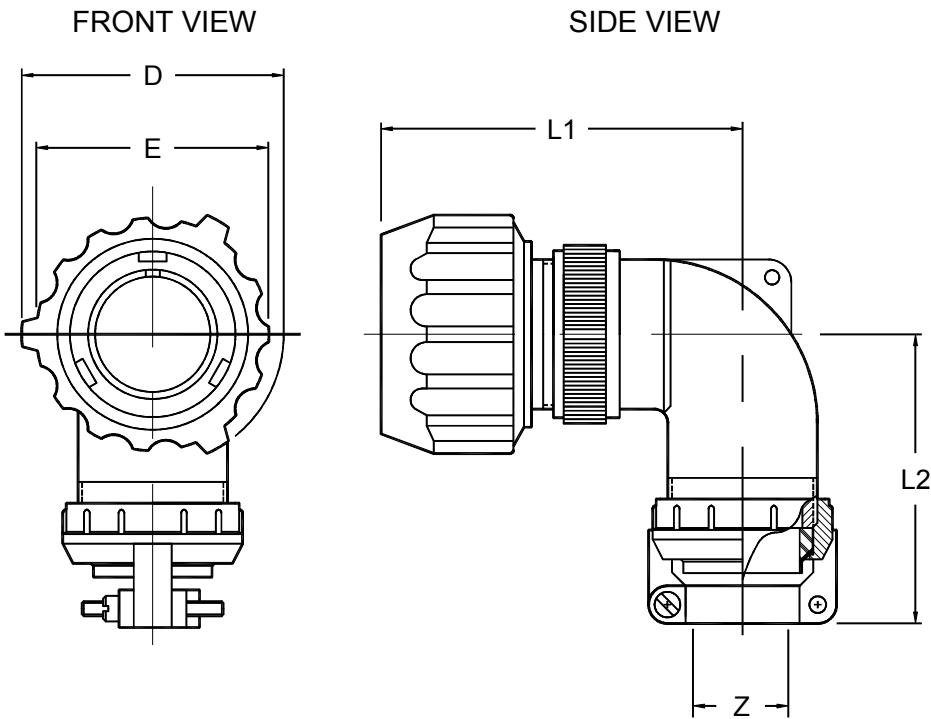
SCPB & SCPBG SERIES 08 90° PLUG



SCPB & SCPBG SERIES

08 90° PLUG

RUBBER COVERED COUPLING NUT



FOR JACKETED CABLE

TYPE: **08CFGG** Environmental, no grommet
08CFZGG Environmental with grommet

SHELL SIZE	FRONT VIEW		SIDE VIEW			
	D	E	L1	L2	Z	
	DIA.	DIA.	MAX.	MAX.	OPEN	CLOSED
10SL	33.5	28.5	49	61	7.93	2.38
14S	40.2	32.5	53	61	11.12	5.84
16S	*	*	*	*	13.48	8.0
16	*	*	*	*	13.48	8.0
18	49.0	43.5	64	68	15.87	9.6
20	51.5	46.0	67	68	19.00	11.3
22	56.5	50.5	67	68	19.00	11.3
24	60.0	54.0	73	76	23.80	15.5
28	67.0	61.0	73	76	23.80	15.5
32	76.0	67.6	78	87	31.75	23.4
36	82.3	74.3	81	98	35.00	23.4
40	88.0	80.0	84	103	41.25	29.9

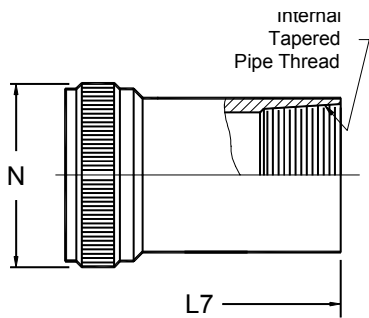
DIMENSIONS ARE IN MM.

SCPB08GG

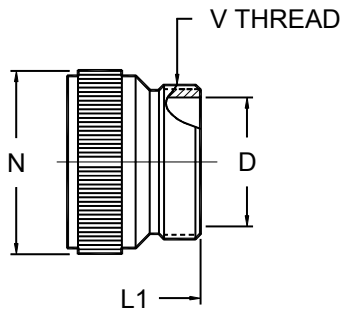
* CONSULT FACTORY FOR DIMENSIONS.

MIL-DTL-5015-REVERSE BAYONET COUPLING

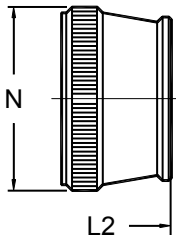
DISCREET/INDIVIDUAL WIRES



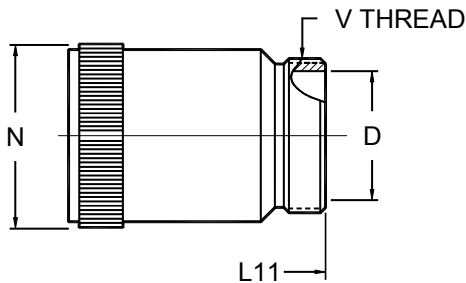
CLASS: APT* Environmental, no grommet



BACKSHELL FOR ACCESSORY ATTACHMENT
CLASS: A* Non-environmental, no grommet
R* Environmental with grommet



CLASS: RV* Environmental with grommet
ARV* Non-environmental, no grommet



CLASS: LA* Non-environmental, no grommet
LR* Environmental with grommet

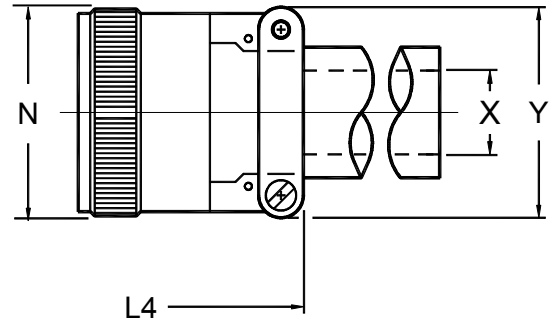
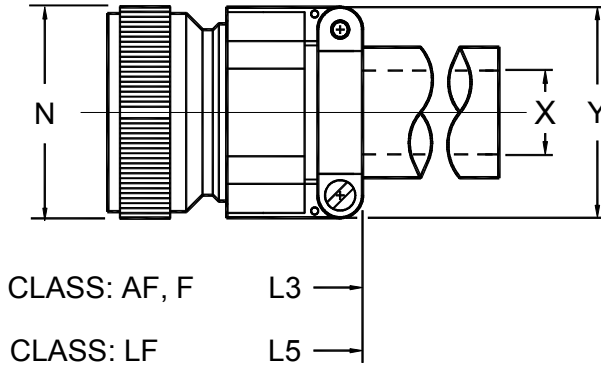
* FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE

SHELL SIZE	N MAX.	APT, ARV & RV												A, LA, LR & R							
		00 01				030				06						00 01		030		06	
		L2 MAX.	L7 MAX.	CODE	PIPE THREAD	L2 MAX.	L7 MAX.	CODE	PIPE THREAD	L2 MAX.	L7 MAX.	CODE	PIPE THREAD	D MIN.	V THREAD CLASS 2A	L1 MAX.	L11 APPX.	L1 MAX.	L11 APPX.	L1 MAX.	L11 APPX.
10SL	20.0	40	60	01	1/8	40	60	01	1/8	40	60	01	1/8	8.2	5/8-24 UNEF	43	67	46	70	47	68
14S	24.0	40	60	02	1/4	40	60	02	1/4	40	60	02	1/4	11.1	3/4-20 UNEF	47	68	50	71	47	69
16S	26.0	40	60	03	3/8	40	60	03	3/8	40	60	03	3/8	14.3	7/8-20 UNEF	47	68	50	71	47	69
16	26.0	56	70	04	1/2	56	70	04	1/2	56	70	04	1/2	14.3	7/8-20 UNEF	58	78	58	77	58	77
18	29.5	56	70	05	3/4	56	70	05	3/4	56	70	05	3/4	16.7	1-20 UNEF	58	82	58	80	58	80
20	33.0	57	70	06	1	57	70	06	1	57	70	06	1	19.8	1 3/16-18 UNEF	58	82	58	80	58	80
22	36.0	57	70	07	1 1/4	57	70	07	1 1/4	57	70	07	1 1/4	19.8	1 3/16-18 UNEF	59	82	59	80	59	80
24	40.0	59	80	08	1 1/2	57	80	08	1 1/2	59	80	08	1 1/2	25.4	1 7/16-18 UNEF	61	84	59	79	61	81
28	46.0	59	80	09	2	59	80	09	2	59	80	09	2	27.0	1 7/16-18 UNEF	67	88	67	86	67	86
32	51.5	60	80	10	2 1/2	60	80	10	2 1/2	60	80	10	2 1/2	32.5	1 3/4-18 UNS	71	88	71	88	71	89
36	58.0	60	95			60	95			60	95			35.7	2-18 UNS	72	88	72	88	71	89
40	64.5	61	95			61	95			61	95			45.0	2 1/4-16 UN	86	88	86	88	86	89

DIMENSIONS ARE IN MM.

SCP01R-301

DISCREET/INDIVIDUAL WIRES



CLASS: AF* Non-environmental, no grommet
 F* Environmental with grommet
 LF* Environmental, with grommet

CLASS: AE* Non-environmental, no grommet
 E* Environmental, with grommet

***FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE**

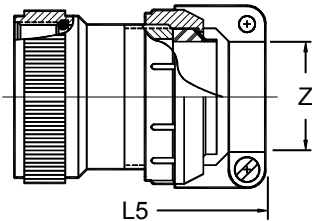
SHELL SIZE	N MAX.	X MIN.	Y MAX.	00 01			030			06		
				L3	L4	L5	L3	L4	L5	L3	L4	L5
				APPX.	APPX.	APPX.	APPX.	APPX.	APPX.	APPX.	APPX.	APPX.
10SL	22	6.5	22.7	59	64	82.3	61	67	85.2	57	64	82.2
14S	25	9.0	27.5	63	69	84.5	66	72	87.4	61	69	82.8
16S	28	11.0	30.0	65	71	86.1	68	75	89.0	64	71	84.4
16	28	11.0	30.0	71	82	96.4	73	82	95.2	72	82	95.5
18	31	14.2	32.2	71	82	100.8	73	82	98.4	74	82	98.7
20	35	15.8	37.5	71	82	101.0	73	82	98.7	74	82	98.7
22	38	15.8	37.5	73	83	100.3	73	83	98.7	76	83	98.7
24	41	21.4	43.3	76	87	105.1	74	85	99.6	78	87	101.3
28	48	21.4	43.3	83	93	109.1	83	93	106.4	83	93	106.2
32	54	26.7	51.7	88	99	109.8	89	99	109.2	88	99	108.6
36	61	31.7	58.0	90	100	110.9	90	100	110.9	89	100	110.0
40	68	34.9	65.5	118	128	124.4	118	128	124.4	118	128	123.7

DIMENSIONS ARE IN MM.

SCPB011-301

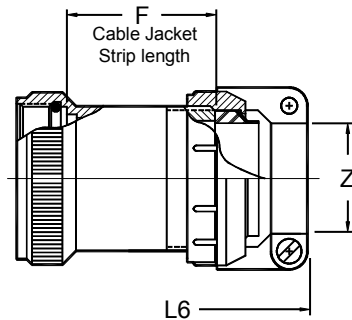
MIL-DTL-5015-REVERSE BAYONET COUPLING

JACKETED CABLE



FOR JACKETED CABLE

CLASS: CF* Environmental, no grommet
CFZ* Environmental with grommet



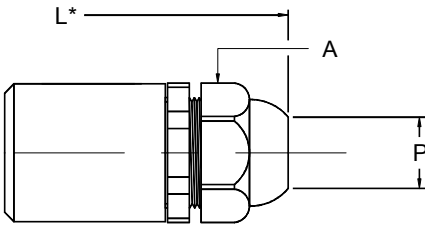
CLASS: LCF* Environmental, no grommet
LCFZ* Environmental with grommet

* FOR MOUNTING HOLE CODE SEE TABLE I
OF APPLICABLE RECEPTACLE

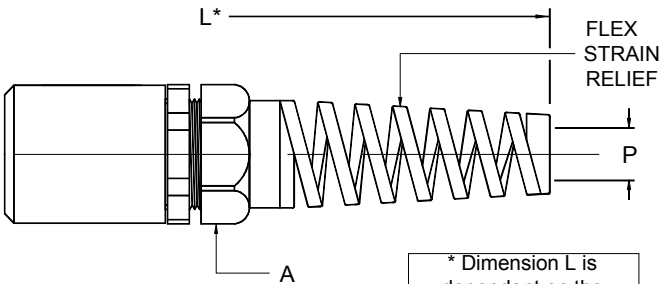
SHELL SIZE				00 01		030		06	
	F	Z		L5	L6	L5	L6	L5	L6
	REF.	OPEN	CLOSED	APPX.	APPX.	APPX.	APPX.	APPX.	APPX.
10SL	42	7.93	2.38	66	94	69	97	66	94
14S	42.6	11.12	5.84	71	95	74	98	71	95
16S	42.6	13.48	8.0	71	95	74	98	71	95
16	42.6	13.48	8.0	78	104	80	105	78	104
18	45.8	15.87	9.6	79	109	81	112	82	110
20	45.9	19.00	11.3	79	109	81	112	82	110
22	45.9	19.00	11.3	82	109	82	112	83	110
24	44.5	23.80	15.5	86	113	84	115	86	113
28	49.5	23.80	15.5	92	118	92	121	92	113
32	49.6	31.75	23.4	102	126	102	127	102	126
36	50	35.00	23.4	107	130	107	131	107	130
40	50	41.25	29.9	122	130	122	131	122	130

DIMENSIONS ARE IN MM.

SCPB061-301



CLASS: SL* Long environmental metal backshell with plastic PG type fitting.
SL1* Same as SL but includes wire sealing grommet and compression ring.



CLASS: SLX* Same as SL but with a plastic PG fitting and strain relief

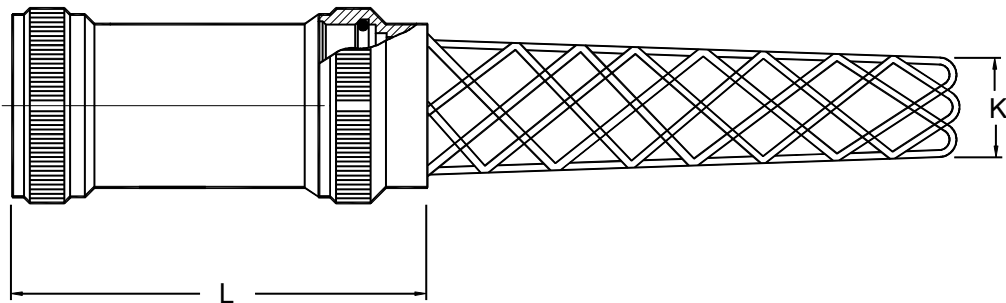
* Dimension L is dependent on the backshell used, the cable range and the fitting used. Consult factory.

TABLE III: CABLE RANGE CODE

SUFFIX (XX) CABLE CODE		TYPE	P CABLE RANGE		A WRENCH FLATS
FLEX STRAIN RELIEF	NO STRAIN RELIEF		MM	(INCHES)	
SPB07R	07R	PG7	2.0-5.0	(0.08-0.20)	15.0
SPB07	07	PG7	3.0-6.5	(0.12-0.26)	15.0
SPB09R	09R	PG9	2.0-6.0	(0.08-0.24)	19.0
SPB09	09	PG9	4.0-8.0	(0.16-0.31)	19.0
SPB11R	11R	PG11	3.0-7.0	(0.12-0.28)	22.0
SPB11	11	PG11	5.0-10.0	(0.20-0.39)	22.0
SPB13R	13R	PG13.5	5.0-9.0	(0.20-0.35)	24.0
SPB13	13	PG13.5	6.0-12.0	(0.24-0.47)	24.0
SPB16R	16R	PG16	7.0-12.0	(0.28-0.47)	27.0
SPB16	16	PG16	10.0-14.0	(0.39-0.55)	27.0
SPB21R	21R	PG21	9.0-16.0	(0.35-0.63)	33.0
SPB21	21	PG21	13.0-18.0	(0.51-0.71)	33.0
SPB29R	29R	PG29	12.0-20.0	(0.47-0.79)	42.0
SPB29	29	PG29	18.0-25.0	(0.71-0.98)	42.0
SPB36R	36R	PG36	20.0-26.0	(0.79-1.02)	53.0
SPB36	36	PG36	22.0-32.0	(0.87-1.26)	53.0
SPB42	42	PG42	30.0-38.0	(1.18-1.50)	60.0
SPB48	48	PG48	34.0-44.0	(1.34-1.73)	65.0

SCPB065-301

JACKETED CABLE



FOR JACKETED CABLE

- CLASS: LC*** Long environmental backshell suitable for various sizes of cable; grommet, compression ring and cord grip included.
- CLASS: LCG*** Same as LC but without the wire sealing grommet and compression ring.
- CLASS: LC3*** Same as LC but with rubber covered coupling nut.
- CLASS: LCG4*** Same as LCG but with rubber covered coupling nut.

*** FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE**

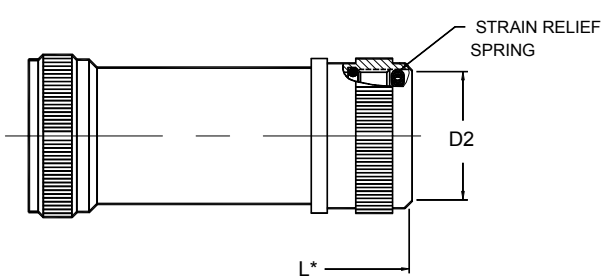
SHELL SIZE	L APPX.	K		
		SUFFIX CODE	CABLE RANGE	
			MIN	MAX
10SL	100	K0	6.35	9.53
14S	100	K1	9.53	12.7
16S	100	K2	12.7	15.87
16	110	K3	15.87	19.05
18	110	K4	19.05	22.23
20	116	K5	22.23	25.4
22	116	K6	25.4	28.45
24	120	K7	28.45	31.75
28	129	K8	32.77	38.1
32	145	K9	39.62	41.28
36	145	K10	41.28	44.45
40	145			

DIMENSIONS ARE IN MM.

JACKETED 1

MIL-DTL-5015-REVERSE BAYONET COUPLING

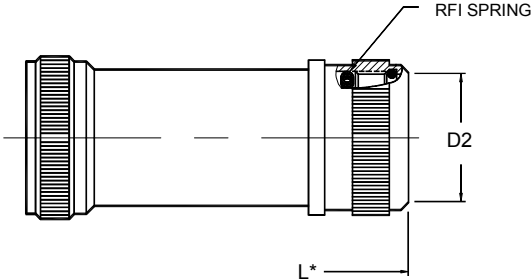
JACKETED CABLE



CLASS: WK* Long environmental backshell and backnut assembly suitable to seal and grip on the jacket of the cable.

CLASS: WKG* Same as WK but with wire sealing grommet and compression ring.

CLASS: WK3* Same as WK but with rubber covered coupling nut.



CLASS: WK1* Long environmental, backshell and backnut assembly for terminating shielded jacketed cable.

*** FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE**

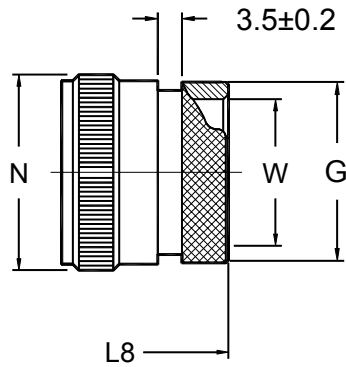
SHELL SIZE	L* TYPICAL	D2		
		SUFFIX CODE	CABLE RANGE	
			MIN	MAX
10SL		01	1.59	3.18
14S		02	3.18	6.35
16S		03	6.35	9.53
16		04	9.53	12.7
18		05	12.7	15.88
20		06	15.88	19.05
22		07	19.05	22.23
24		08	22.23	25.4
28		09	25.4	28.58
32		10	28.58	31.75
36		11	31.75	34.93
40		12	34.93	38.1
		13	38.1	41.23
		14	41.23	44.45
		15	44.45	47.63
		16	47.63	50.8

DIMENSIONS ARE IN MM.

JACKETED2

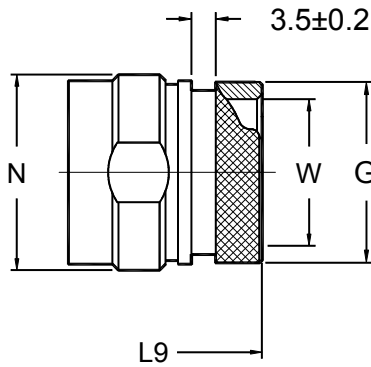
* "L" Dimensions will vary depending upon diameter cable and if the backshell is a step up or a step down configuration. Contact Sales Department for dimensions.

SHRINK BOOT ADAPTERS



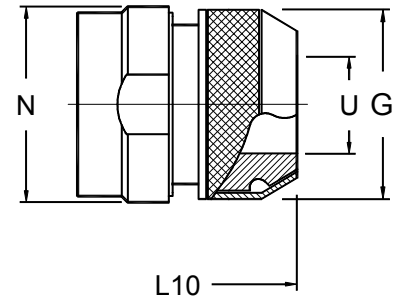
FOR SHRINK BOOT

CLASS: G* Environmental with grommet
AG* Environmental, no grommet



FOR SHRINK BOOT

CLASS: G2G* Environmental with grommet
AG2G* Environmental, no grommet



FOR SHRINK BOOT & EMI/RFI SHIELDING

CLASS: SB* Environmental with grommet
ASB* Environmental, no grommet

* FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE

SHELL SIZE					00 & 01			030			06		
	G	N	W	U	L8	L9	L10	L8	L9	L10	L8	L9	L10
	±0.2	MAX.	MIN.	MIN.	MAX.	APRX.	MAX.	MAX.	APRX.	MAX.	MAX.	APRX.	MAX.
10SL	15.5	22	8.5	8.6	48	49.8	52.2	60	49	51.4	48	49	51.4
14S	19.1	25	12.0	10.6	48	49.8	52.2	60	49	51.4	48	49	51.4
16S	23.9	28	14.5	13.5	48	50.6	54.2	60	49.8	53.4	48	49.8	53.4
16	23.9	28	14.5	13.5	60	60.1	63.3	60	59.3	62.5	60	59.3	62.5
18	23.9	31	17.5	14.6	60	59.6	64.5	60	58.8	63.7	60	58.8	63.7
20	29.6	35	19.5	18.5	65	60.3	64.5	65	59.5	63.7	65	59.5	63.7
22	29.6	38	22.0	20.8	65	60.3	64.5	65	59.5	63.7	65	59.5	63.7
24	37.8	41	25.0	24.6	65	62.9	65.2	65	62.1	64.4	65	62.1	64.4
28	37.8	48	29.0	27.0	65	64.7	65.2	65	63.9	64.4	65	63.9	64.4
32	47.8	54	34.0	33.3	70	67	66.8	70	66.2	66	70	66.2	66
36	47.8	61	38.5	38.5	75	67	66.8	75	66.2	66	75	66.2	66
40	52.4	68	48.0	46.0	77	67.3	66.8	77	66.5	66	77	66.5	66

DIMENSIONS ARE IN MM.

SCP061sb-301

MIL-DTL-5015-REVERSE BAYONET COUPLING



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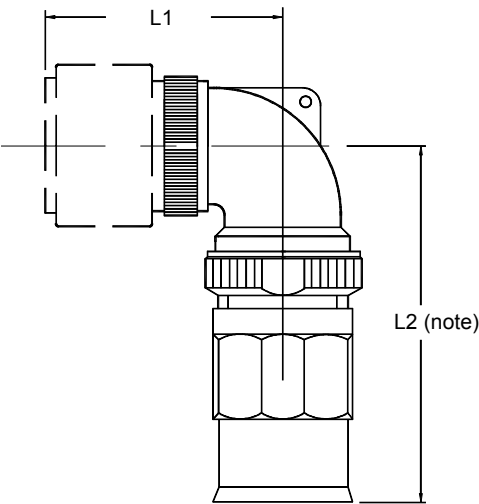
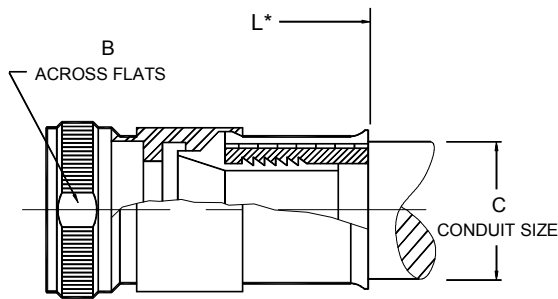
3040 North Clayton Street
Phone: 702-851-7600
Email: space@spacecraft.com

North Las Vegas, NV 89032
Fax: 702-851-7620
Web: www.spacecraft.com

FLEXIBLE CONDUIT-NON-METALIC CORE

ANACONDA ANAMET SEALTITE

TYPE CL-P



CLASS: NM* Straight long or 90° NM backshell with adapter and backnut assembly to seal and grip on the jacket of a non-metallic flexible CL-P type Anaconda sealtite conduit. Class includes a wire sealing grommet and compression ring.

CLASS: NMG* Same as NM but without the wire sealing grommet and compression ring.

TYPE: 08N*
08NMG*

*** FOR MOUNTING HOLE CODE SEE TABLE I
OF APPLICABLE RECEPTACLE**

CONDUIT (CL-P TYPE) TRADE SIZE	SUFFIX IN PART NUMBER
3/8	01
1/2	02
3/4	03
1	04
1 1/4	05
1 1/2	06
2	07

CONDUIT4

SHELL SIZE	L1 MAX.	L2 APPX.
10SL	38.1	
14S	39.7	
16S	42.9	
16	52.4	
18	54.0	
20	59.7	
22	59.1	
24	63.9	
28	63.9	
32	69.8	
36	73.0	
40	76.1	

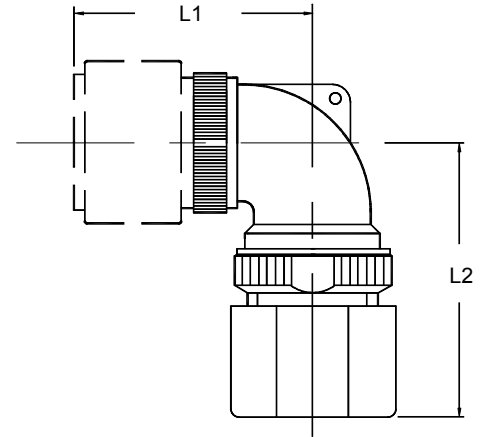
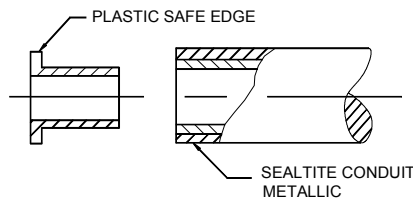
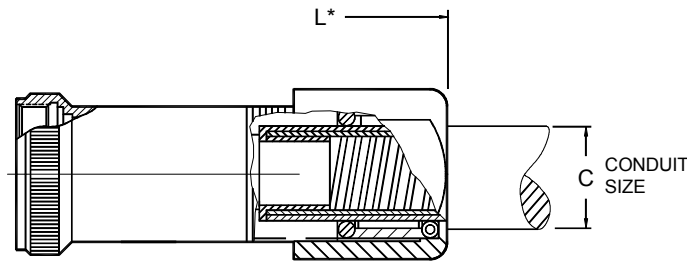
DIMENSIONS ARE IN MM.

CONDUIT1

FLEXIBLE CONDUIT - METALIC CORE

ANACONDA ANAMET SEALTITE

TYPE EF



CLASS: RK* Straight long or 90° RK backshell with adapter and backnut assembly to seal and grip on the jacket of a steel core flexible EF type Anaconda sealtite conduit. Class includes a wire sealing grommet and compression ring.

CLASS: ARK* Same as RK but without the wire sealing grommet and compression ring.

TYPE: 08ARK*
08RK*

* FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE

CONDUIT (EF TYPE) TRADE SIZE	SUFFIX IN PART NUMBER
3/8	(038)
1/2	(050)
3/4	(075)
1	(100)
1-1/4	(125)
1-1/2	(150)
2	(200)

CONDUIT5

SHELL SIZE	L1 MAX.	L2 APPX.
10SL	24.6	34.9
14S	24.6	34.9
16S	24.6	35.2
16	34.1	40.3
18	34.1	50.5
20	34.1	50.5
22	34.1	50.5
24	35.7	50.5
28	35.7	51.3
32	37.3	53.3
36	37.3	53.3
40	37.3	53.3

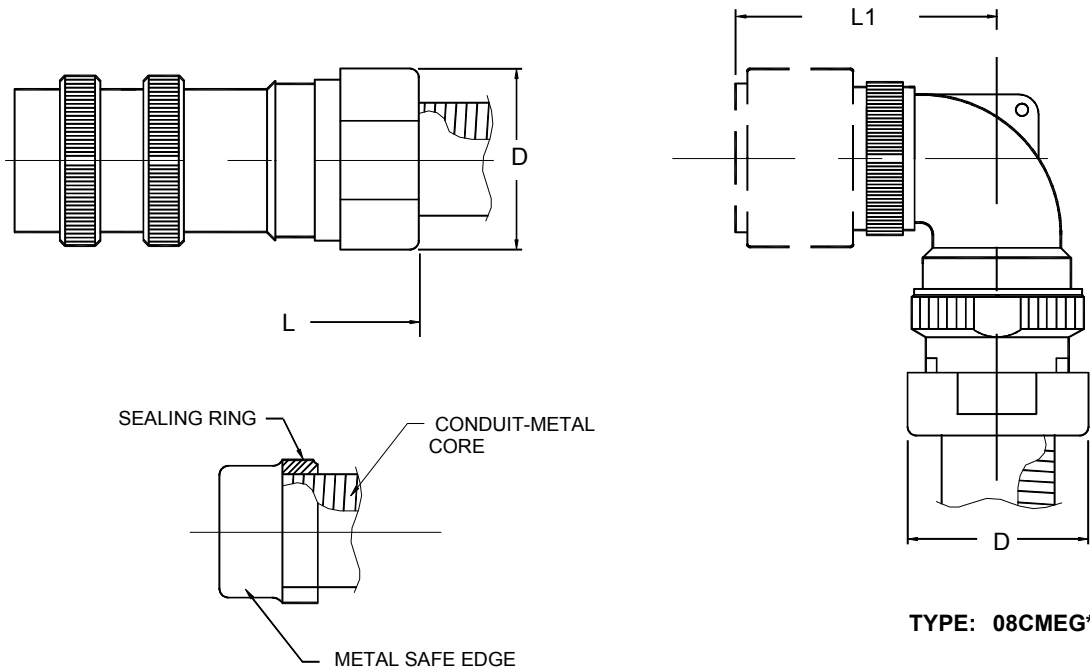
DIMENSIONS ARE IN MM.

CONDUIT2

MIL-DTL-5015-REVERSE BAYONET COUPLING

FLEXIBLE CONDUIT - METALIC CORE

ELECTRI-FLEX



CLASS: CMEG* Includes the backshell hardware suitable for flexible metal core Electri-flex conduit. Class includes a wire sealing grommet and compression ring.

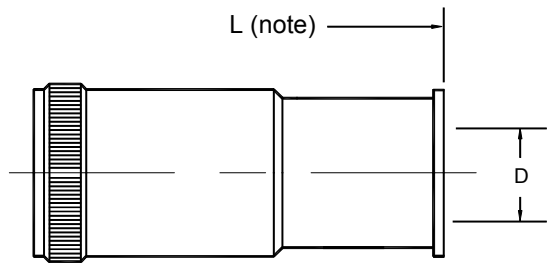
*** FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE**

CONDUIT TRADE SIZE	SUFFIX IN PART NUMBER	L APPX.	L1 MAX.	D MAX.
3/4	(075)	106.9	59.7	41.9
100	(100)	111.2	59.7	47.6

DIMENSIONS ARE IN MM. FLEXIBLE2

*Dimension "L" is dependent on conduit size used with each shell size. Consult Sales Department.

FLEXIBLE CONDUIT - RUBBER HOSE



Note: Suffix in connector part number represents conduit inner diameter.

CLASS: BC* Long metal environmental backshell with a rear lip suitable for Flexible rubber conduit (hose) secured to the backshell by a metal band or a hose clamp.

* FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE

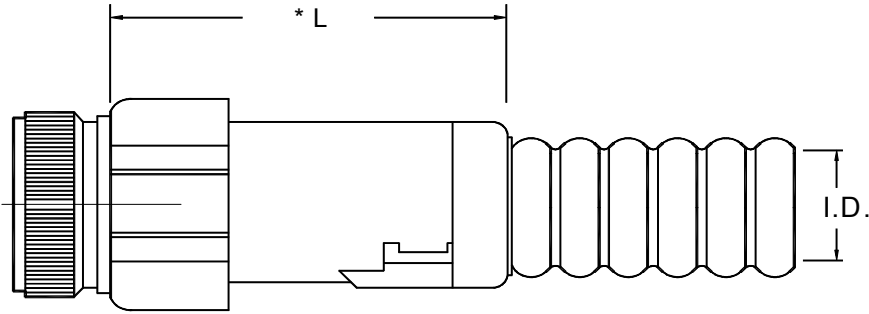
CONDUIT INNER DIA	SUFFIX IN PART NUMBER	D MAX
11.4	(046)	7.5
12.5	(049)	7.5
13.5	(053)	10.4
19.1	(075)	15.9
21.3	(084)	17.5
26.9	(106)	23.9
27.9	(110)	26.6
31.0	(122)	28.6
35.1	(138)	29.4
39.9	(157)	37.8
50.0	(197)	45.2

DIMENSIONS ARE IN MM. FLEXIBLE1

MIL-DTL-5015-REVERSE BAYONET COUPLING

FLEXIBLE CONDUIT - PLASTIC

PMA



Note: Dimension "L" is dependent on conduit size used with each shell size. Please consult our Customer Service Department.

- CLASS: PILAG*** Environmental, for PMA BVIRA fitting.
- CLASS: PILB*** Environmental, for PMA BFILB fitting.
- CLASS: PILMG*** Environmental, for PMA BFILM fitting.
- CLASS: PIVG*** Environmental, for PMA BVIVG fitting.
- CLASS: PILJ*** Environmental, for PMA BFILJ fitting.

* FOR MOUNTING HOLE CODE SEE TABLE I OF APPLICABLE RECEPTACLE

CLASS	SHELL SIZE	PMA FITTING	PART NUMBER SUFFIX	CONDUIT INNER DIA	L
PILAG	10SL	BVIRA-U152	(U152)	11.9	36.5
	14S	BVIRA-U182	(U182)	11.9	36.5
	14S	BVIRA-U187	(U187)	15.2	44.5
PILB	14/20	BFILB-U297	(U297)	15.2	38.0
	20 & 22	BFILB-U293	(U293)	22.0	38.0
PILMG	16S & 16	BFILM-U293	(U217)	15.2	33.0
	18	BFILM-U247	(U247)	15.2	35.0
	18	BFILM-U242	(U242)	12.0	35.0
	20 & 22	BFILM-U297	(U297)	15.2	35.0
PIVG	20 & 22	BVIVG-U293	(U353)	22.0	55.0
	24 & 28	BVIVG-U353	(U353)	22.0	52.0
	24 & 28	BVIVG-U356	(U356)	36.5	63.0
	24 & 28	BVIVG-U357	(U357)	15.2	46.5
	32	BVIVG-U436	(U436)	35.8	62.5
	32	BVIVG-U439	(U439)	27.7	51.5
	32	BVIVG-U433	(U433)	22.0	52.0
	36	BVIVG-U509	(U509)	27.7	55.0
	36	BVIVG-U503	(U503)	22.0	51.5
	40	BVIVG-U563	(U563)	22.0	51.0
	40	BVIVG-U566	(U566)	35.8	62.0
	40	BVIVG-U568	(U568)	46.7	64.0
	40	BVIVG-U569	(U569)	27.7	51.0
PILJ	40	BFILJ-U568	(U568)	46.7	65.0

DIMENSIONS ARE IN MM.

CONDUIT3

ENTERTAINMENT INDUSTRY CONNECTORS

This group of connectors provide for the needs of:

- Audio
- Audio & Video
- Control Lighting
- HMI Lighting

AUDIO CONNECTORS

These connectors can be ordered with up to 150 conductors with wire sizes of 18 AWG to 4/0 AWG. This series also has a 1/3 turn quick release coupling mechanism.

AUDIO-VIDEO CONNECTORS

There are certain selected insert arrangements which allow up to 8 channels of video and 31 channels of audio in the same connector.

The "FR" series provides a hard black non-conductive anodize finish that insures years of service and yet the finish will show little signs of wear.

The coupling nut has been changed so that it has a larger grip area that allows for easier uncoupling and mating.

CONTROL LIGHTING

A 19 contact connector has been adapted as an "Industry Standard". There are 7 contacts in the center which are used for grounding. These 7 socket contacts protrude forward .100 inches further than the remaining 12. This assures you of a grounding-first or "make-before-break" situation.

Connectors may be ordered with either solder or crimp contacts. Several different backshell designs are available.

HMI LIGHTING

These connectors are used to power light fixtures from 575 watts through 18,000 watts. In order to prevent mating an incorrect plug to a receptacle, inserts can be polarized.

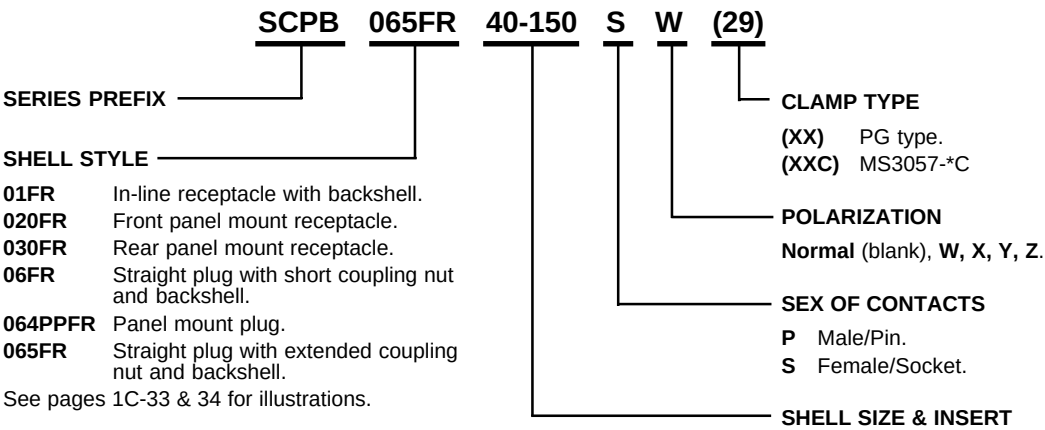
Additionally, the backshell can be color coded: black, blue, gold, green or red, further insuring proper selection of a mating plug.



AUDIO CONNECTORS

SCPB REVERSE BAYONET SERIES

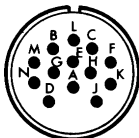
ORDERING INFORMATION



Most commonly used types are shown below.

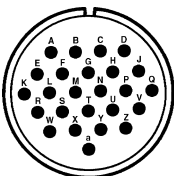
CHANNELS	TOTAL CONTACTS	CONTACT SIZE	INSERT NUMBER
4	13	16	20-11
8	25	16	24A25
12	37	16	28-21
16	54	16	32-22
28	85	16	40-56
48	150	18	40-150

SC108



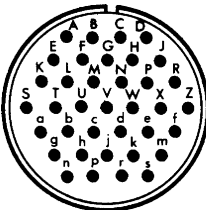
20-11†

13-#16



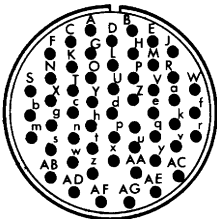
24A25

24-#16



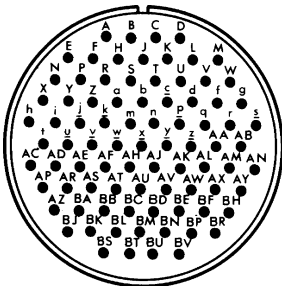
28-21†

37-#16



32-22†

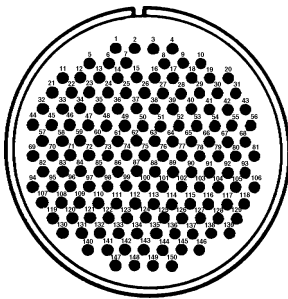
54-#16



40-56†

40A56

85-#16



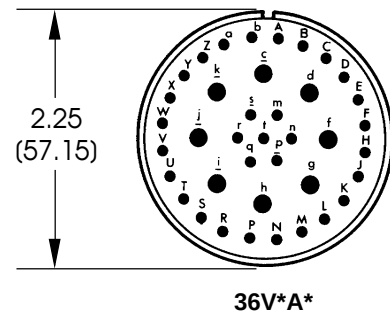
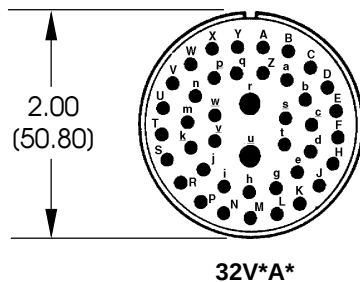
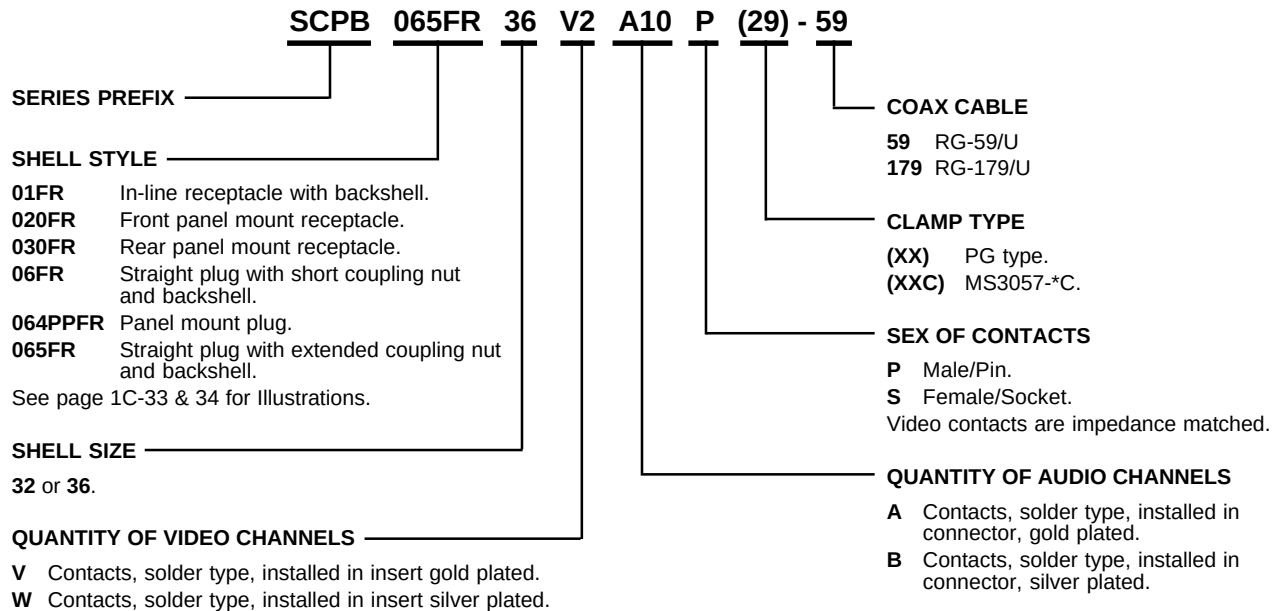
40-150

40A150

150-#18

COMBINATION AUDIO AND VIDEO CONNECTORS

SCPB REVERSE BAYONET SERIES



42 CONTACTS 2 VIDEO 40 AUDIO SIZE 16

VIDEO	LETTER	AUDIO	+(POS)	-(NEG)	GD
1	r	1	A	B	C
2	u	2	D	E	F
		3	H	J	K
		4	L	M	N
		5	P	R	S
		6	T	U	V
		7	W	X	Y
		8	Z	a	b
		9	c	d	e
		10	g	h	i
		11	j	k	m
		12	n	p	q
		13	s	w	v

NOTE: "t" is not used

SC105

39 CONTACTS 8 VIDEO 31 AUDIO SIZE 16

VIDEO	LETTER	AUDIO	+(POS)	-(NEG)	GD
1	c	1	A	B	C
2	h	2	D	E	F
3 (Red)	f	3	H	J	K
4 (Green)	j	4	L	M	N
5 (Blue)	k	5	P	R	S
6 (Horizontal)	d	6	T	U	V
7 (Vertical)	g	7	W	X	Y
8 (Sync)	i	8	Z	a	b
		9	n	p	q
		10	m	r	s

NOTE: "t" is not used

SC106

Inserts are shown smaller than actual size



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 DISTRIBUTION DIVISION



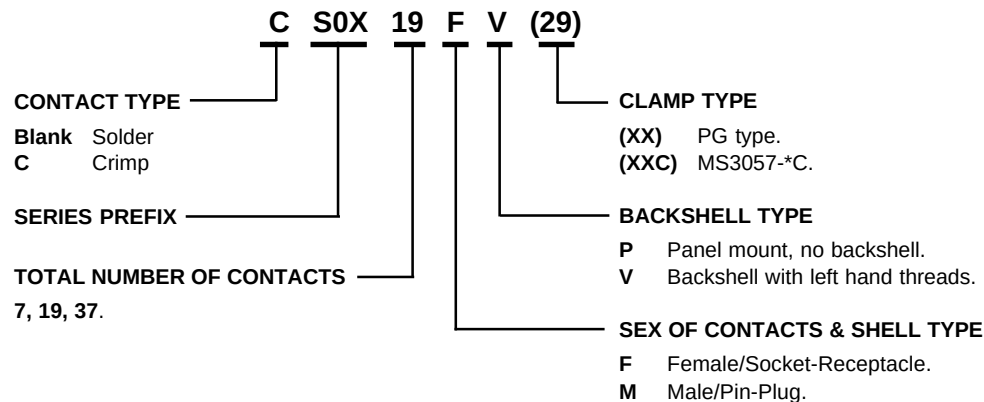
3040 North Clayton Street
 Phone: 702-851-7600
 Email: space@spacecraft.com

North Las Vegas, NV 89032
 Fax: 702-851-7620
 Web: www.spacecraft.com

CONTROL LIGHTING CONNECTORS

CS0X AND S0X THREADED SERIES

ORDERING INFORMATION



CROSS REFERENCE

DESCRIPTION	SOCAPEX	VEAM	SPACECRAFT	SEE PAGE
Panel Mount Female Receptacle	SLEF419AR	VSC020-32S-19S	CS0X19FP	1C-33
In-Line Female Receptacle w/ Backshell	SLFFDR419AR	VSC01SL-32S-19S(29)*	CS0X19FV(29)*	1C-33
In-Line Male Plug w/ Backshell	SLFMD419AR	VSC06SL-32S-19P(29)*	CS0X19MV(29)*	1C-34
Panel Mount Male Plug	SLEME419AR	VSC26-32S-19P	CS0X19MP	1C-34

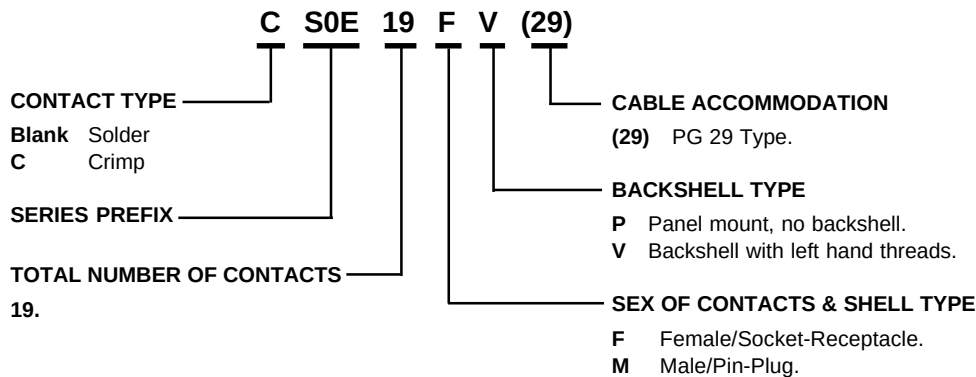
BACKSHELLS AND SHELLS: Aluminum alloy, hard black anodize finish.

* Backshells have a left hand thread.

CONTACTS: Gold over nickel.

CS0E AND S0E SERIES

ORDERING INFORMATION



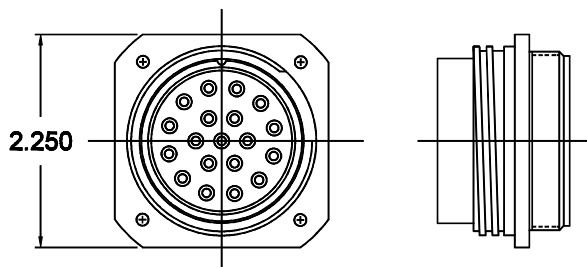
Material: Die cast aluminum

Finish: Black

Contacts: Gold over nickel

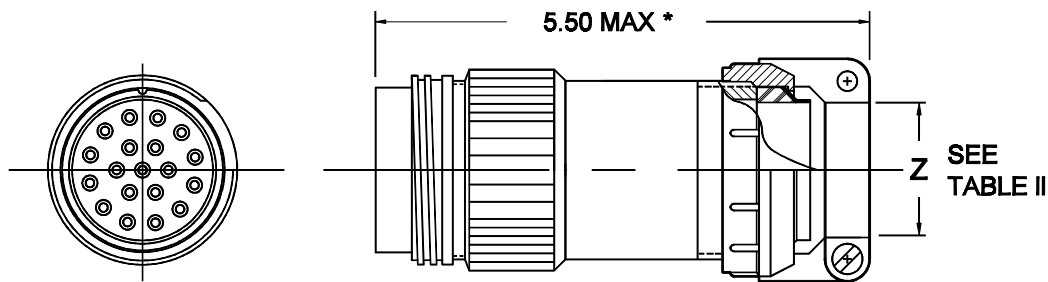
Shells are illustrated on pages 1C-33 and 1C-34.

CONTROL LIGHTING CONNECTORS



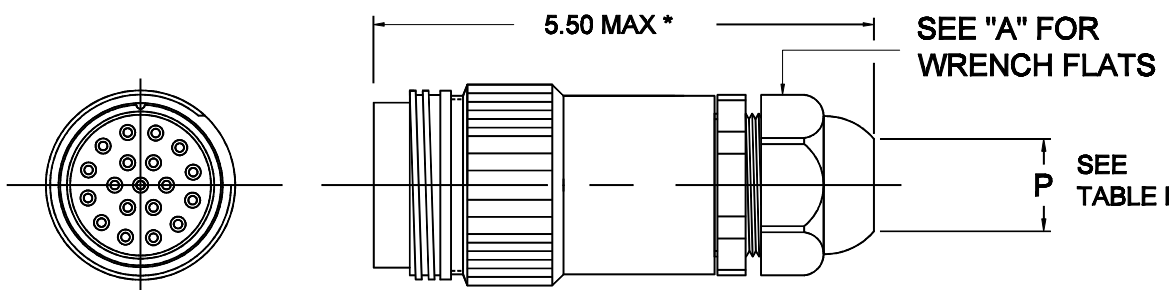
PANEL MOUNT RECEPTACLE

(C)S0X19FP or (C)S0E19FP



IN-LINE RECEPTACLE

(C)S0X19FV(XX)



IN-LINE RECEPTACLE

(C)S0X19FV(XX) or (C)S0E19FV(29)

TABLE I: CABLE RANGE CODE

(XX) CLAMP CODE	TYPE	P CABLE RANGE		A WRENCH FLATS
		mm	(in.)	
07R	PG7	2.0-5.0	(0.08-0.20)	15.0
07	PG7	3.0-6.5	(0.12-0.26)	15.0
09R	PG9	2.0-6.0	(0.08-0.24)	19.0
09	PG9	4.0-8.0	(0.16-0.31)	19.0
11R	PG11	3.0-7.0	(0.12-0.28)	22.0
11	PG11	5.0-10.0	(0.20-0.39)	22.0
13R	PG13.5	5.0-9.0	(0.20-0.35)	24.0
13	PG13.5	6.0-12.0	(0.24-0.47)	24.0
16R	PG16	7.0-12.0	(0.28-0.47)	27.0
16	PG16	10.0-14.0	(0.39-0.55)	27.0
21R	PG21	9.0-18.0	(0.35-0.63)	33.0
21	PG21	13.0-18.0	(0.51-0.71)	33.0
29R	PG29	12.0-20.0	(0.47-0.79)	42.0
29	PG29	18.0-25.0	(0.71-0.98)	42.0
36R	PG36	20.0-26.0	(0.79-1.02)	53.0
36	PG36	22.0-32.0	(0.87-1.26)	53.0
42	PG42	30.0-38.0	(1.18-1.50)	60.0
48	PG48	34.0-44.0	(1.34-1.73)	65.0

SCPBV8CR

TABLE II: CLAMP CODE

(XX) CLAMP CODE	Z - CABLE RANGE	
	OPEN	CLOSED
04C	7.92 (.312)	2.40 (.095)
06C	11.12 (.438)	5.84 (.230)
08C	13.48 (.531)	8.0 (.315)
10C	15.87 (.625)	9.6 (.378)
12C	19.00 (.748)	11.3 (.445)
16C	23.80 (.937)	15.5 (.610)
20C	31.75 (1.250)	23.4 (.921)
24C	35.00 (1.378)	23.4 (.921)
28C	41.25 (1.624)	29.9 (1.177)
32C	47.60 (1.874)	34.9 (1.374)

Dimensions are in mm or (xxx) inches.

* Dimension is dependent on the backshell used, the cable range and the fitting used. Consult factory.

CONTROL LIGHTING CONNECTORS

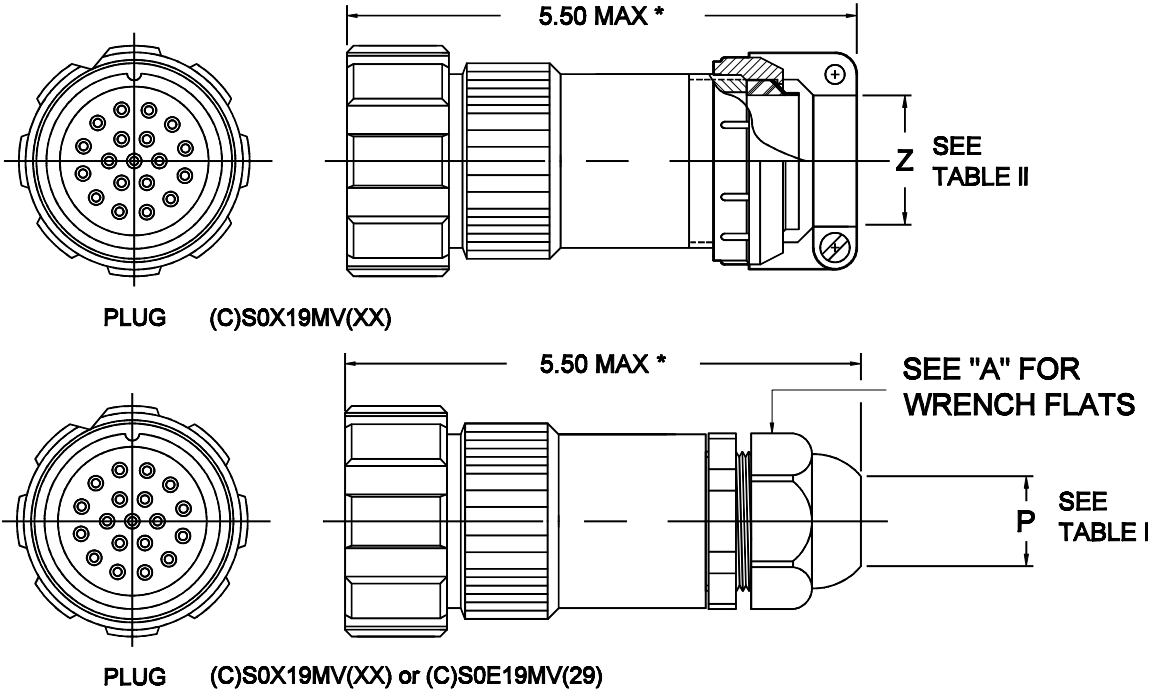
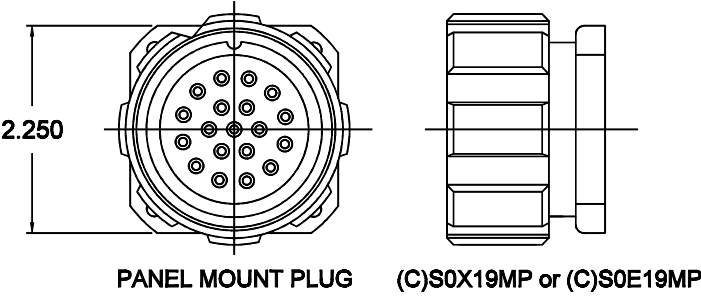


TABLE I: CABLE RANGE CODE

(XX) CLAMP CODE	TYPE	P CABLE RANGE		A WRENCH FLATS
		mm	(in.)	
07R	PG7	2.0-6.0	(0.08-0.20)	15.0
07	PG7	3.0-6.5	(0.12-0.26)	15.0
09R	PG9	2.0-8.0	(0.08-0.24)	19.0
09	PG9	4.0-8.0	(0.16-0.31)	19.0
11R	PG11	3.0-7.0	(0.12-0.28)	22.0
11	PG11	5.0-10.0	(0.20-0.39)	22.0
13R	PG13.5	5.0-8.0	(0.20-0.35)	24.0
13	PG13.5	8.0-12.0	(0.24-0.47)	24.0
16R	PG16	7.0-12.0	(0.28-0.47)	27.0
16	PG16	10.0-14.0	(0.39-0.55)	27.0
21R	PG21	9.0-16.0	(0.35-0.63)	33.0
21	PG21	13.0-18.0	(0.51-0.71)	33.0
29R	PG29	12.0-20.0	(0.47-0.79)	42.0
29	PG29	18.0-25.0	(0.71-0.98)	42.0
36R	PG36	20.0-26.0	(0.79-1.02)	53.0
36	PG36	22.0-32.0	(0.87-1.26)	53.0
42	PG42	30.0-38.0	(1.18-1.50)	60.0
48	PG48	34.0-44.0	(1.34-1.73)	65.0

SCPBVSCP

TABLE II: CLAMP CODE

(XX) CLAMP CODE	Z - CABLE RANGE	
	OPEN	CLOSED
04C	7.92 (.312)	2.40 (.095)
06C	11.12 (.438)	5.84 (.230)
08C	13.48 (.531)	8.0 (.315)
10C	15.87 (.625)	9.6 (.378)
12C	19.00 (.748)	11.3 (.445)
16C	23.80 (.937)	15.5 (.610)
20C	31.75 (1.250)	23.4 (.921)
24C	35.00 (1.378)	23.4 (.921)
28C	41.25 (1.624)	29.9 (1.177)
32C	47.60 (1.874)	34.9 (1.374)

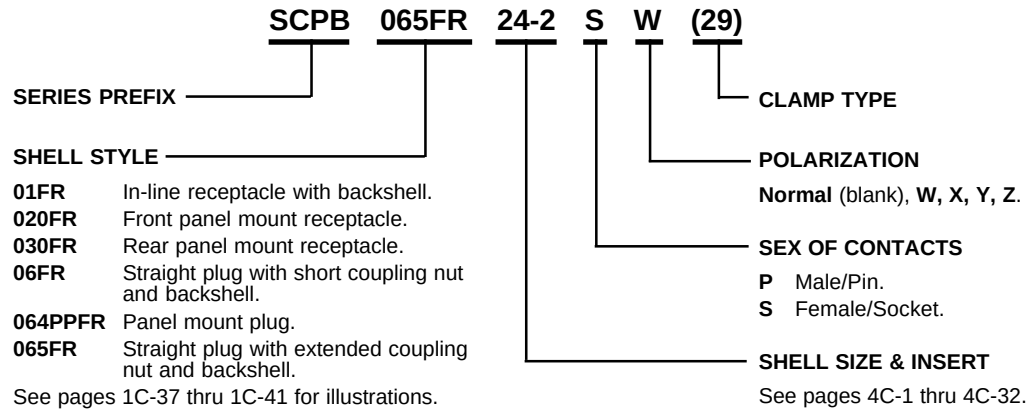
Dimensions are in mm or (xxx) inches.

* Dimension is dependent on the backshell used, the cable range and the fitting used. Consult factory.

HMI LIGHTING CONNECTORS

SCPB REVERSE BAYONET SERIES

ORDERING INFORMATION



CROSS REFERENCE

DESCRIPTION	VEAM	SPACECRAFT
In-Line Receptacle w/ Backshell	CIR01FR	SCPB01FR
Front Panel Mount Receptacle	CIR020FR	SCPB020FR
Panel Mount Plug	CIR064PPFR	SCPB064PPFR
Straight Plug with Backshell	CIR065FR	SCPB065FR

BACKSHELLS AND SHELLS: Aluminum alloy, black hard anodize finish.

CONTACTS: Silver plated crimp contacts. Solder contacts available on request.



HMI LIGHTING CONNECTORS

SCPB REVERSE BAYONET SERIES

Most popular HMI type connectors are listed below. Contact Sales for other types.

APPLICATION	SPACECRAFT PART NUMBER	SEX
2.5/4K Input Power Cable End Female Plug	SCPB065FR28-3S(29R)	Socket
2.5/4K Input Power Panel Mount Male Receptacle	SCPB030FR28-3P	Pin
6/12/18K In-Line Male Receptacle	SCPB01FR28-6P(290S)	Pin
6/12/18K Input Power Cable End Female Plug	SCPB065FR28-6S(290S)	Socket
6/12/18K Input Power Panel Mount Male Receptacle	SCPB030FR28-6P-AM	Pin
6/12/18K Panel Mount Female Plug	SCPB064PPFR28-6S	Socket
12K Cable End Male Receptacle	SCPB01FR36-3P(36)	Pin
12K Input Power Cable End Female Plug	SCPB065FR36-3S(36)	Socket
12K Input Power Panel Mount Male Receptacle	SCPB030FR36-3P	Pin
12K Panel Mount Female Plug	SCPB064PPFR36-3S	Socket
ARRIFLEX 6K In-Line Female Plug	SCPB065FR28-22S-326(290S)	Socket
ARRIFLEX 6K In-Line Male Receptacle	SCPB01FR28-22P-326(290S)	Pin
ARRIFLEX 6K Panel Mount Female Plug	SCPB064PPFR28-22S	Socket
ARRIFLEX 6K Panel Mount Male Receptacle	SCPB020FR28-22P	Pin
CINEMILLS 12/18K In-Line Male Plug	SCPB065FR28-10P(20C)	Pin
CINEMILLS 12/18K In-Line Female Receptacle	SCPB01FR28-10S(20C)	Socket
CINEMILLS 12/18K Panel Mount Female Receptacle	SCPB030FR28-10S	Socket
CINEMILLS 12/18K Panel Mount Male Plug	SCPB064PPFR28-10P	Pin
LTM 575/1200 In-Line Female Receptacle	SCPB01FR20-15S-18(922)	Socket
LTM 575/1200 In-Line Male Plug	SCPB065FR20-15P-18(922)	Pin
LTM 575/1200 Panel Mount Female Receptacle	SCPB020FR20-15S-18	Socket
LTM 575/1200 Panel Mount Male Plug	SCPB064PPFR20-15P	Pin
LTM 4K In-Line Female Receptacle	SCPB01FR924-11S(942)BY	Socket
LTM 4K In-Line Male Plug	SCPB065FR924-11P(942)BY	Pin
LTM 4K Panel Mount Female Receptacle	SCPB020FR924-11S	Socket
LTM 4K Panel Mount Male Plug	SCPB064PPFR924-11P	Pin
LTM 6/12/18K In-Line Female Receptacle	SCPB01FR28A9S-122-R8(20C)	Socket
LTM 6/12/18K In-Line Male Plug	SCPB065FR28A9P-GM-122-R8(20C)	Pin
LTM 6/12/18K Panel Mount Female Receptacle	SCPB020FR28A9S-122-R8	Socket
LTM 6/12/18K Panel Mount Male Plug	SCPB064PPFR12-28A9P-GM	Pin
STRAND 575W In-Line Female Receptacle	SCPB01FR24-2SZ(941)BG	Socket
STRAND 575W In-Line Male Plug	SCPB065FR24-2PZ(941)BG	Pin
STRAND 575W Panel Mount Female Receptacle	SCPB030FR24-2SZ	Socket
STRAND 575W Panel Mount Male Plug	SCPB064PPFR24-2PZ	Pin
STRAND 2.5K In-Line Female Receptacle	SCPB01FR24-2S(941)BR	Socket
STRAND 2.5K In-Line Male Plug	SCPB06524-2P(941)BR	Pin
STRAND 2.5K Panel Mount Female Receptacle	SCPB030FR24-2S	Socket
STRAND 2.5K Panel Mount Male Plug	SCPB064PPFR24-2P	Pin
STRAND 4K In-Line Female Receptacle	SCPB01FR24-11S(941)BB	Socket
STRAND 4K In-Line Male Plug	SCPB065FR24-11P(941)BB	Pin
STRAND 4K Panel Mount Female Receptacle	SCPB030FR24-11S	Socket
STRAND 4K Panel Mount Male Plug	SCPB064PPFR24-11P	Pin
STRAND 6K In-Line Female Receptacle	SCPB01FR32-68S(290S)	Socket
STRAND 6K In-Line Male Plug	SCPB065FR32-68P(290S)	Pin
STRAND 6K Panel Mount Female Receptacle	SCPB030FR32-68S	Socket
STRAND 6K Panel Mount Male Plug	SCPB064PPFR32-68P	Pin
STRAND 12K In-Line Female Receptacle	SCPB01FR40A10S(290S)	Socket
STRAND 12K In-Line Male Plug	SCPB065FR40A10P(290S)	Pin
STRAND 12K Panel Mount Female Receptacle	SCPB030FR40A10S	Socket
STRAND 12K Panel Mount Male Plug	SCPB064PPFR40A10P	Pin
STRAND 12K Panel Mount Male Plug W/LKG RING	SCPB064PPFR24-2PW	Pin
STRAND 12K In-Line Male Plug	SCPB065FR24-2PW(941)BY	Pin
STRAND 12K In-Line Female Receptacle	SCPB01FR24-2SW(941)BY	Socket
STRAND 12K Panel Mount Female Receptacle	SCPB030FR24-2SW	Socket

SC107

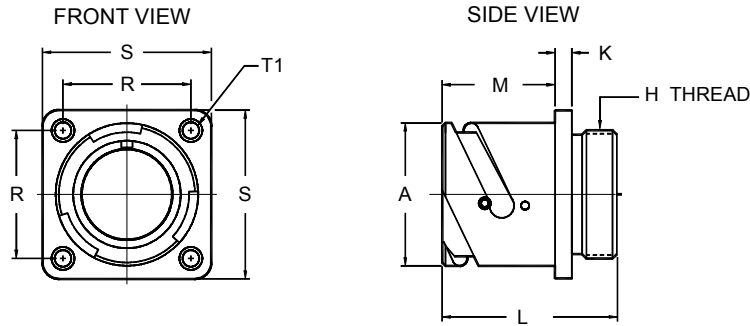


FRONT PANEL MOUNT **SCPB020FR**

REAR PANEL MOUNT **SCPB030FR**

WALL MOUNT RECEPTACLE

HMI LIGHTING CONNECTORS



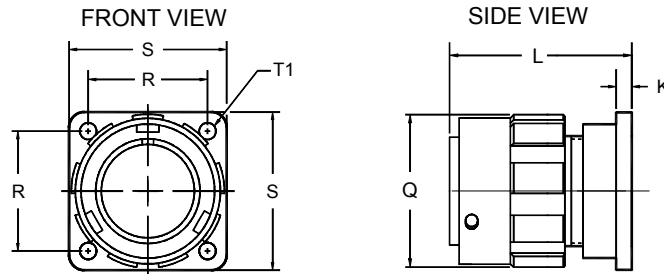
FINISH: BLACK ANODIZE
CONTACTS: F80 SILVER PLATED CRIMP CONTACTS

SHELL SIZE	FRONT VIEW			SIDE VIEW				SHELL TYPE	
	R	S	T1	A	H	K	L	020	030
	±0.1	±0.3	+0.1 -0.0	+0.00 -0.15	THREAD CLASS 2A	±0.2	±0.3	M +0.4 -0.0	M +0.4 -0.0
10SL	18.2	25.4	3.2	18.2	5/8-24 UNEF	2.8	27.6	14.2	18.2
14S	23.0	30.0	3.2	24.6	3/4-20 UNEF	3.2	27.6	14.2	18.2
16S	24.6	32.5	3.2	27.4	7/8-20 UNEF	3.2	27.6	14.2	18.2
16	24.6	32.5	3.2	27.4	7/8-20 UNEF	3.2	33.8	19.0	23.05
18	27.0	35.0	3.2	30.8	1-20 UNEF	4.0	33.8	19.0	23.05
20	29.4	38.0	3.2	34.2	1 1/8-18 UNEF	4.0	33.8	19.0	23.05
22	31.8	41.0	3.2	37.4	1 1/4-18 UNEF	4.0	33.8	19.0	23.05
24	34.9	44.5	3.7	40.9	1 3/8-18 UNEF	4.0	35.8	20.6	23.05
28	39.7	50.8	3.7	46.7	1 5/8-18 UNEF	4.0	35.8	20.6	24.05
32	44.5	57.0	4.3	53.4	1 7/8-16 UN	4.0	37.3	22.2	24.05
36	49.2	63.5	4.3	59.6	2 1/16-16 UN	4.0	37.3	22.2	24.05
40	55.5	69.9	4.3	65.5	2 5/16-16 UNS	4.0	37.3	22.2	24.05

DIMENSIONS ARE IN MM.

SCPB03X

SCPB064PPFR
WALL MOUNT PLUG



064PPFR Environmental when used with sealing gasket

FINISH: BLACK ANODIZE
CONTACTS: F80 SILVER PLATED CRIMP CONTACTS

SHELL SIZE	FRONT VIEW			SIDE VIEW		
	R ±0.1	S ±0.8	T1 +0.2 -0.1	K +0.5 -0.2	L MAX.	Q MAX.
10SL	18.2	25.4	3.2	2.8	29.9	25.3
14S	23.0	30.0	3.2	3.2	29.9	31.7
16S	24.6	32.5	3.2	3.2	35.1	35.9
16	24.6	32.5	3.2	3.2	35.1	35.9
18	27.0	35.0	3.2	3.2	40.2	39.5
20	29.4	38.0	3.2	3.2	43.8	42.9
22	31.8	41.0	3.2	3.8	43.8	46.1
24	34.9	44.5	3.7	3.8	43.8	49.5
28	39.7	50.8	3.7	4.0	44.0	56.9
32	44.5	57.0	4.3	4.0	45.1	63.7
36	49.2	63.5	4.3	4.0	45.1	70.1
40	55.5	69.9	5.2	4.0	45.1	75.7

DIMENSIONS ARE IN MM.

SCPB064FR



SPACECRAFT
COMPONENTS CORP.
DISTRIBUTION DIVISION



3040 North Clayton Street
Phone: 702-851-7600
Email: space@spacecraft.com

North Las Vegas, NV 89032
Fax: 702-851-7620
Web: www.spacecraft.com

LIGHTING INDUSTRY CONNECTORS

SCPB01FR HMI LIGHTING CONNECTORS

IN-LINE RECEPTACLE

EXAMPLE PART NUMBER: SCPB01FR24-28P-(XX)

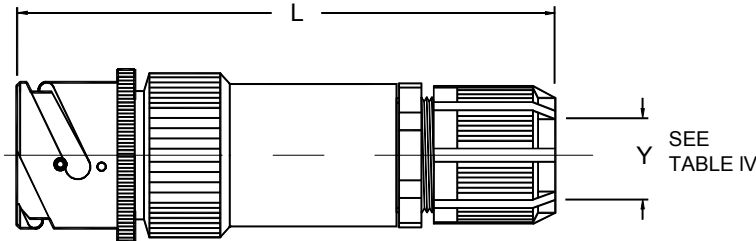
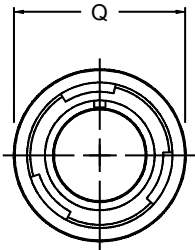
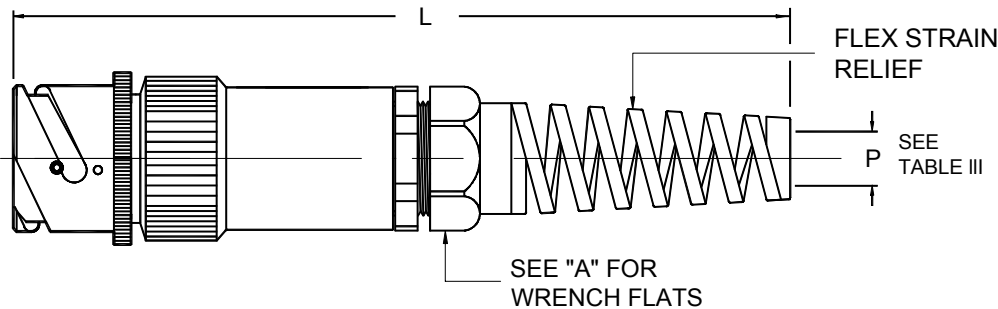
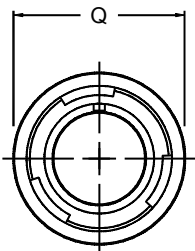
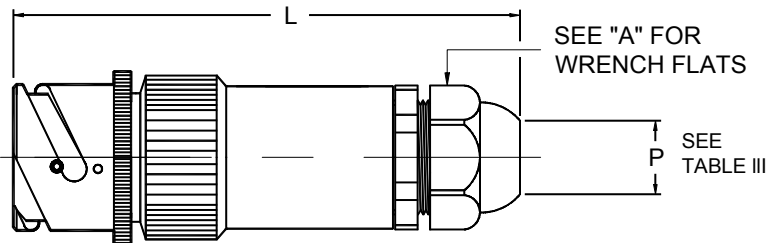
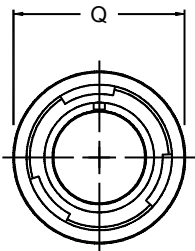
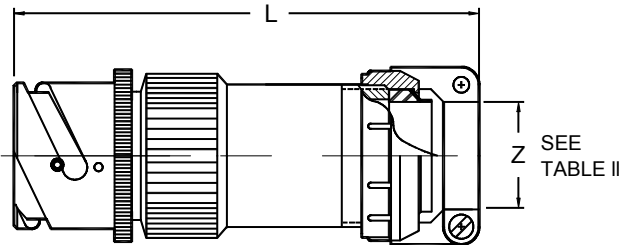
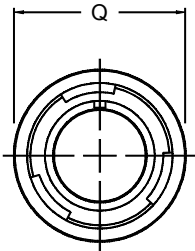
FINISH: BLACK ANODIZE

CONTACTS: F80 SILVER PLATED CRIMP CONTACTS

SEE TABLES ON 5A-43

FRONT VIEW

SIDE VIEW



HME LIGHTING CONNECTORS **SCPB01FR**

IN-LINE RECEPTACLE

TABLE I

	FRONT VIEW	SIDE VIEW
SHELL SIZE	Q DIA. MAX.	L
10SL	22.5	* Dimension L is dependent on the backshell used, the cable range and the fitting used. Consult factory.
14S	29.5	
16S	31.5	
16	31.5	
18	34.5	
20	37.5	
22	40.5	
24	44.5	
28	50.0	
32	56.5	
36	63.0	
40	69.0	

DIMENSIONS ARE IN MM.
* CONSULT FACTORY

TABLE II: CLAMP CODE

(XX) CLAMP CODE	Z - CABLE RANGE	
	OPEN	CLOSED
04C	7.92	2.40
06C	11.12	5.84
08C	13.48	8.0
10C	15.87	9.6
12C	19.00	11.3
16C	23.80	15.5
20C	31.75	23.4
24C	35.00	23.4
28C	41.25	29.9
32C	47.60	34.9

TABLE III: CABLE RANGE CODE

(XX) CABLE CODE		TYPE	P CABLE RANGE		A WRENCH FLATS
FLEX STRAIN RELIEF	NO STRAIN RELIEF		MM	(INCHES)	
SPB07R	07R	PG7	2.0-5.0	(0.08-0.20)	15.0
SPB07	07	PG7	3.0-6.5	(0.12-0.26)	15.0
SPB09R	09R	PG9	2.0-6.0	(0.08-0.24)	19.0
SPB09	09	PG9	4.0-8.0	(0.16-0.31)	19.0
SPB11R	11R	PG11	3.0-7.0	(0.12-0.28)	22.0
SPB11	11	PG11	5.0-10.0	(0.20-0.39)	22.0
SPB13R	13R	PG13.5	5.0-9.0	(0.20-0.35)	24.0
SPB13	13	PG13.5	6.0-12.0	(0.24-0.47)	24.0
SPB16R	16R	PG16	7.0-12.0	(0.28-0.47)	27.0
SPB16	16	PG16	10.0-14.0	(0.39-0.55)	27.0
SPB21R	21R	PG21	9.0-16.0	(0.35-0.63)	33.0
SPB21	21	PG21	13.0-18.0	(0.51-0.71)	33.0
SPB29R	29R	PG29	12.0-20.0	(0.47-0.79)	42.0
SPB29	29	PG29	18.0-25.0	(0.71-0.98)	42.0
SPB36R	36R	PG36	20.0-26.0	(0.79-1.02)	53.0
SPB36	36	PG36	22.0-32.0	(0.87-1.26)	53.0
SPB42	42	PG42	30.0-38.0	(1.18-1.50)	60.0
SPB48	48	PG48	34.0-44.0	(1.34-1.73)	65.0

SCPB01FRa

TABLE IV

SHELL SIZES	CABLE CODE	Y CABLE RANGE	
		MM	(INCHES)
10SL, 12S, 14S 16, 16S, 18 20	920	3.0-9.4	(.125-.375)
	921	7.9-14.2	(.310-.560)
	922	12.7-19.1	(.500-.750)
18, 20 22, 24	930	3.0-9.4	(.125-.375)
	931	7.9-14.2	(.310-.560)
	932	12.7-19.1	(.500-.750)
24, 28, 32 36, 40	940	7.9-14.2	(.310-.560)
	941	12.7-19.1	(.500-.750)
	942	17.8-24.1	(.700-.950)



SCP**B065FR** HMI LIGHTING CONNECTORS
STRAIGHT PLUG

SCP**B065FR** ENVIRONMENTAL

EXAMPLE PART NUMBER: SCPB065FR24-28P-(XX)

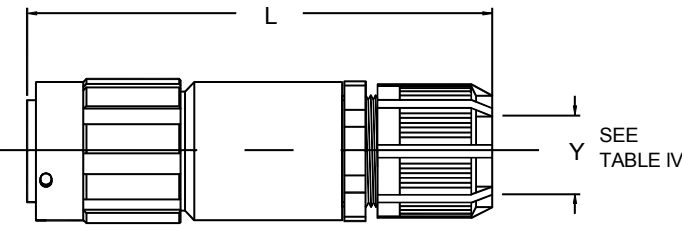
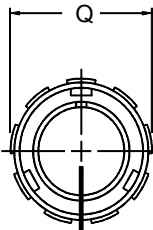
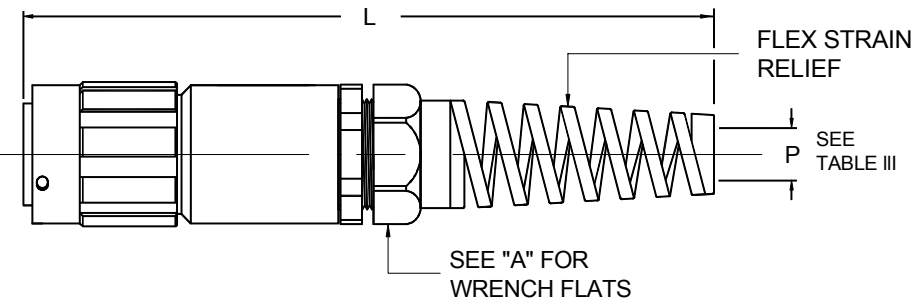
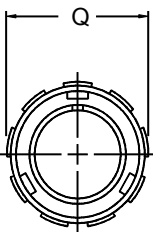
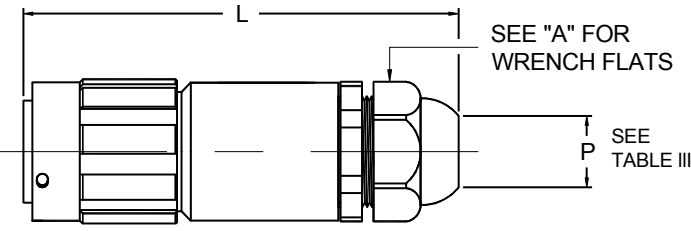
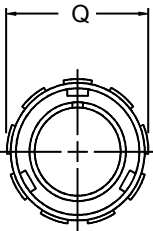
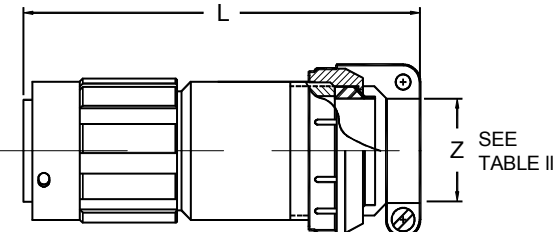
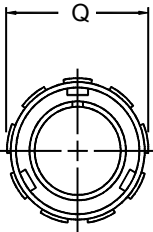
FINISH: BLACK ANODIZE

CONTACTS: F80 SILVER PLATED CRIMP CONTACTS

SEE TABLES BELOW

FRONT VIEW

SIDE VIEW



SCP**B065**

HMI LIGHTING CONNECTORS **SCPB065FR**

STRAIGHT PLUG

TABLE I

	FRONT VIEW	SIDE VIEW
SHELL SIZE	Q DIA. MAX.	L
10SL	22.5	* Dimension L is dependent on the backshell used, the cable range and the fitting used. Consult factory.
14S	29.5	
16S	31.5	
16	31.5	
18	34.5	
20	37.5	
22	40.5	
24	44.5	
28	50.0	
32	56.5	
36	63.0	
40	69.0	

DIMENSIONS ARE IN MM.

* CONSULT FACTORY

TABLE II: CLAMP CODE

(XX) CLAMP CODE	Z - CABLE RANGE	
	OPEN	CLOSED
04C	7.92	2.40
06C	11.12	5.84
08C	13.48	8.0
10C	15.87	9.6
12C	19.00	11.3
16C	23.80	15.5
20C	31.75	23.4
24C	35.00	23.4
28C	41.25	29.9
32C	47.60	34.9

TABLE III: CABLE RANGE CODE

(XX) CABLE CODE		TYPE	P CABLE RANGE		A WRENCH FLATS
FLEX STRAIN RELIEF	NO STRAIN RELIEF		MM	(INCHES)	
SPB07R	07R	PG7	2.0-5.0	(0.08-0.20)	15.0
SPB07	07	PG7	3.0-6.5	(0.12-0.26)	15.0
SPB09R	09R	PG9	2.0-6.0	(0.08-0.24)	19.0
SPB09	09	PG9	4.0-8.0	(0.16-0.31)	19.0
SPB11R	11R	PG11	3.0-7.0	(0.12-0.28)	22.0
SPB11	11	PG11	5.0-10.0	(0.20-0.39)	22.0
SPB13R	13R	PG13.5	5.0-9.0	(0.20-0.35)	24.0
SPB13	13	PG13.5	6.0-12.0	(0.24-0.47)	24.0
SPB16R	16R	PG16	7.0-12.0	(0.28-0.47)	27.0
SPB16	16	PG16	10.0-14.0	(0.39-0.55)	27.0
SPB21R	21R	PG21	9.0-16.0	(0.35-0.63)	33.0
SPB21	21	PG21	13.0-18.0	(0.51-0.71)	33.0
SPB29R	29R	PG29	12.0-20.0	(0.47-0.79)	42.0
SPB29	29	PG29	18.0-25.0	(0.71-0.98)	42.0
SPB36R	36R	PG36	20.0-26.0	(0.79-1.02)	53.0
SPB36	36	PG36	22.0-32.0	(0.87-1.26)	53.0
SPB42	42	PG42	30.0-38.0	(1.18-1.50)	60.0
SPB48	48	PG48	34.0-44.0	(1.34-1.73)	65.0

SCPB01FRa

TABLE IV

SHELL SIZES	CABLE CODE	Y CABLE RANGE	
		MM	(INCHES)
10SL,12S,14S 16,16S,18 20	920	3.0-9.4	(.125-.375)
	921	7.9-14.2	(.310-.560)
	922	12.7-19.1	(.500-.750)
18,20 22,24	930	3.0-9.4	(.125-.375)
	931	7.9-14.2	(.310-.560)
	932	12.7-19.1	(.500-.750)
24,28,32 36,40	940	7.9-14.2	(.310-.560)
	941	12.7-19.1	(.500-.750)
	942	17.8-24.1	(.700-.950)



SECTION 2C

SCPB SERIES

CONNECTOR ACCESSORY

QUICK REFERENCE

(FOR COMPLETE DETAILS ON THESE PARTS SEE **SPACECRAFT CATALOG 401**)

ACCESSORY	SOLDER or F80 CRIMP
BACKSHELLS, ENVIRONMENTAL	
STRAIGHT - CABLE SEALING GLAND	B002*AB
STRAIGHT - FOR ANAMET CONDUIT	B031A*AB
STRAIGHT - FOR PG ADAPTER	B033A*AB
STRAIGHT - FOR PIPE THREAD (PT) ADAPTERS	B035A*AB
STRAIGHT - FOR SEALTITE™ LIQUIDTITE CONDUIT	B037A*AB
45° - CABLE SEALING GLAND	B002CC-AB
90° - CABLE SEALING GLAND	B002D-AB
BACKSHELLS, ENVIRONMENTAL EMI/RFI	
STRAIGHT - CONE TYPE	B004*AB
STRAIGHT - INVERTED CONE	B015*AB
STRAIGHT - 2 RING	B023*AB
STRAIGHT - LIGHTWEIGHT	B043*AB
45° - CONE TYPE	B004CC-AB
45° - INVERTED CONE TYPE	B005CC-AB
45° - 2 RING TYPE	B023CC-AB
45° - LIGHTWEIGHT	B043CC-AB
90° - CONE TYPE	B004D-AB
90° - INVERTED CONE TYPE	B015D-AB
90° - 2 RING TYPE	B023D-AB
90° - LIGHTWEIGHT	B043D-AB
BACKSHELLS, NON-ENVIRONMENTAL	
STRAIGHT	B001A-AB B001B-AB
45°	B001CC-AB
90°	B001D-AB

* Additional alpha-numeric are required to complete part number.

SCP023d

ACCESSORY	SOLDER or F80 CRIMP
BACKSHELLS, NON-ENVIRONMENTAL EMI/RFI	
STRAIGHT - CONE TYPE	B003*AB
STRAIGHT - INVERTED CONE TYPE	B014*AB
STRAIGHT - LIGHTWEIGHT	B043*AB
45° - CONE TYPE	B003CC-AB
45° - INVERTED CONE TYPE	B014CC-AB
45° - LIGHTWEIGHT	B042CC-AB
90° - CONE TYPE	B003D-AB
90° - INVERTED CONE TYPE	B014D-AB
90° - LIGHTWEIGHT	B043D-AB
BACKSHELLS, POTTING BOOTS & RINGS	
	NOTE 1
BACKSHELLS, SHIELD TERMINATIONS	
STRAIGHT - CRIMP RING - FOR SHRINK BOOT	B005*AB
STRAIGHT - CRIMP RING TYPE	B007*AB
45° - CRIMP RING - FOR SHRINK BOOT	B005CC*AB
45° - CRIMP RING TYPE	B007CC*AB
90° - CRIMP RING - FOR SHRINK BOOT	B005D*AB
90° - CRIMP RING TYPE	B007D*AB
SHIELD CRIMP RING	B049AF26-2
BACKSHELLS, SHORTING CANS	
	B012*AB B013*AB
BACKSHELLS, SHRINK BOOT ADAPTERS	
STRAIGHT BOOT ADAPTER	B006A*AB B006B*AB

NOTE 1 Contact Sales Department for part numbers and availability.

SCP026d

CONTINUED ON NEXT PAGE

SCPB SERIES

CONNECTOR ACCESSORY QUICK REFERENCE

CONTINUED FROM PREVIOUS PAGE

ACCESSORY	SOLDER or F80 CRIMP
BACKSHELLS, STRAIN RELIEF/CABLE CLAMPS	
STRAIGHT - CABLE CLAMP	MS3057-*A
	MS3057-*B
	MS3057-*C
DUMMY RECEPTACLES	
	DRP19
	SCPB05-*
DUST CAPS	
METAL, FOR PLUG	DCP19
	SCPB*TV
METAL, FOR RECEPTACLE	DCR19
	SCPB*TF
GASKET FOR FLANGE MOUNT RECEPTACLES	
ENVIRONMENTAL - EM/RFI	M83528/004
ENVIRONMENTAL	MS51007-*
	MS52000-*
JAM NUTS	
	SC3186-*
MOUNTING PLATES	
	B049AF94
	B049AF95
	B049AF96
RUBBER BUSHINGS	
	MS3420-*
	MS3420-*A
SEALING PLUGS	
	MS25251
	M527488

NOTE 1 Contact Sales Department for part numbers and availability.

SCP027d

SECTION 3C

MIL-DTL-5015

SPECIAL FEATURES

TECHNICAL DATA

CONTACTS & TOOLS

SPECIAL FEATURES

Spacecraft can supply connectors with:

1. Plugs with a self-locking coupling nut, which eliminates the need for safety wire. A low-cost coupling mechanism is available for all series.
2. Our connectors can provide superior EMI/RFI shielding by:
 - A. Providing full accessory teeth at the rear of the connector shell, thus minimizing "leakage".
 - B. To further enhance performance, plugs can be supplied with grounding fingers around the outside of the barrel.
 - C. Receptacles can be supplied with an internal grounding spring.
3. Shells/hardware can be provided in a high impact/strength aluminum as well as carbon steel, 300 series stainless and naval brass.
4. A wide range of finishes are available:
 - A. Anodize - both hard and soft.
 - B. Cadmium to pass 48, 96, 500 or 1000 hours salt spray.
 - C. Electroless nickel.
 - D. Zinc Boron.
 - E. Should include black zinc cobalt.
5. Standard insert material is neoprene, but can be provided in fuel resistant Viton or halogen-free neoprene.
6. Various backshell configurations are available for environmental and non-environmental applications together with EMI/RFI protection. See our Catalog 401 for details.



MIL-DTL-5015

TECHNICAL DATA

TABLE I
CONTACT ARRANGEMENT
SERVICE RATING

MS SERVICE RATING	RECOMMENDED OPERATING VOLTAGE* AT SEA LEVEL		EFFECTIVE CREEPAGE DISTANCE NOM.	MECHANICAL SPACING NOM.
	DC	AC (RMS)		
INST.	250	200	1/16	
A	700	500	1/8	1/16
D	1250	900	3/16	1/8
E	1750	1250	1/4	3/16
B	2450	1750	5/16	1/4
C	4200	3000	1	5/16

sc61

* The values listed in Table I represent operating values which include a generous safety factor. It may be necessary for some applications to exceed the operating voltages listed here. If this is necessary, designers will find Table II useful for determining the degree to which the recommended values of Table I can be exceeded.

ELECTRICAL SERVICE DATA

Test current ratings of contacts and allowable voltage drop under test conditions when assembled as in service are shown below. Maximum total current to be carried per connector is the same as the allowable in wire bundles as specified in MIL-W-5088.

ALTITUDE VOLTAGE DERATING CHART**

MS SERVICE RATING	NOMINAL DISTANCE		STANDARD SEA LEVEL CONDITIONS		PRESSURE ALTITUDE† 50,000 FEET		PRESSURE ALTITUDE† 70,000 FEET	
	AIRSPACE	CREEPAGE	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)
INST.	1/32	1/16	1400	1000	550	400	325	260
A	1/16	1/8	2800	2000	800	600	450	360
D	1/8	3/16	3600	2800	900	675	500	400
E	3/16	1/4	4500	3500	1000	750	550	440
B	1/4	5/16	5700	4500	1100	825	600	480
C	5/16	1	8500	7000	1300	975	700	560

† Not corrected for changes in density due to variations in temperature.

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** No attempt has been made to recommend operating voltages. The designer must determine his own operating voltage by the application of a safety factor to the above derating chart to compensate for circuit transients, surges, etc.

CONTACT RATINGS

CONTACT SIZE	WIRE SIZE	RATED CURRENT	POTENTIAL DROP	MAX CURRENT
20	20	7.5A	83 mV	7.5A
18	18	7.5	83 mV	10A
16 & 16S	16 AWG	13 A	49 mV	22A
12	12 AWG	23 A	42 mV	41A
8	8 AWG	46 A	26 mV	73A
4	4 AWG	80 A	23 mV	135A
0	0 AWG	150 A	21 mV	245A
4/0	4/0	225A	53 mV	350A

SC52

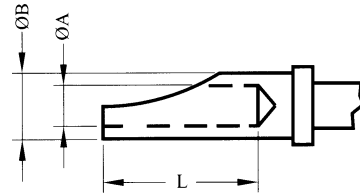
MIL-DTL-5015

SOLDER CONTACTS

SOLDER CONTACT CURRENT RATINGS*

MATING END SIZE	WIRE BARREL SIZE	ALLOWABLE WIRE SIZE	TEST CURRENT** AMPS
15/16S	16	16 18 20 22	13 10 7.5 5
12	12	12 14	23 17
8	8	8 10	46 33
4	4	4 6	80 60
0	0	0 1 2	150 125 100

SC55



SOLDER CUP DIMENSIONS

CONTACT SIZE	A MIN	B	L
16	.069 [1.75]	.096/.116 [2.43/2.94]	.250/.313 [6.35/7.95]
12	.112 [2.84]	.130/.150 [3.30/3.81]	.375/.438 [9.52/11.12]
8	.205 [5.20]	.243/.259 [6.17/6.57]	.500/.563 [12.70/14.30]
4	.328 [8.33]	.370/.397 [9.39/10.08]	.625/.688 [15.87/17.47]
0	.464 [11.78]	.510/.550 [12.95/13.97]	.625/.688 [15.87/17.47]

Dimensions in brackets [] are in millimeters.

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TABLE II. WIRE RANGE ACCOMMODATIONS

CONTACT SIZE	WIRE SIZE	OD OF FINISHED WIRE (INCH)					
		SOLDER CONTACT CONNECTORS		CRIMP CONTACT CONNECTORS			
		MIN	MAX	FRONT RELEASE		REAR RELEASE	
				MIN	MAX	MIN	MAX
16-16	20 18 16	.064 [1.63]	.130 [3.30]	0.66 [1.68]	.130 [3.30]	.053 [1.35]	.103 [2.62]
12-12	14 12	.114 [2.90]	.170 [4.32]	.097 [2.46]	.170 [4.32]	.085 [2.16]	.158 [4.01]
8-8	10 8	.164 [4.17]	.255 [6.48]	.132 [3.35]	.255 [6.48]	.132 [3.35]	.255 [6.48]
4-4	6 4	.272 [6.91]	.370 [9.40]	.237 [6.02]	.370 [9.40]	.237 [6.02]	.370 [9.40]
0-0	2 0	.415 [10.54]	.550 [13.97]	.360 [9.14]	.550 [13.97]	.360 [9.14]	.550 [13.97]

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* Solder Wells Filled

** Contact ratings as stated are test ratings only. The connector could not withstand full rated current through all contacts continuously. Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc, can be expected in a particular circuit.

MIL-DTL-5015 SERIES I - SOLDER CONTACTS

SIZE	PIN	PIN FILLED SOLDER CUP (Note 1)	SOCKET (Note 1)	SOCKET FILLED SOLDER CUP (Note 1)	MATERIAL	FINISH	COLOR CODE
16S	P12-5100-310	P12-5100-315	S12-5100-610	S12-5100-615	Note 2	Silver	—
16S	P12-5100-000	—	S12-5100-000	—	Alumel	None	Green
16S	P12-5100-010	—	S12-5100-010	—	Chromel	None	White
16S	P12-5100-020	—	S12-5100-020	—	Constantan	Cadmium	Black
16S	P12-5100-040	—	S12-5100-040	—	Iron	None	Yellow
16	P12-3800-310	P12-3800-315	S12-3800-610	S12-3800-615	Note 2	Silver	—
16	P12-3800-000	—	S12-3800-000	—	Alumel	None	Green
16	P12-3800-010	—	S12-3800-010	—	Chomel	None	White
16	P12-3800-020	—	S12-3800-020	—	Constantan	Cadmium	Black
16	P12-3800-040	—	S12-3800-040	—	Iron	None	Yellow
12	P12-6500-310	P12-6500-315	S12-6500-610	S12-6500-615	Note 2	Silver	—
12	P12-6500-000	—	S12-6500-000	—	Alumel	None	Green
12	P12-6500-010	—	S12-6500-010	—	Chromel	None	White
12	P12-6500-020	—	S12-6500-020	—	Constantan	Cadmium	Black
12	P12-6500-040	—	S12-6500-040	—	Iron	None	Yellow
8	P12-7900-310	P12-7900-315	S12-7900-510	S12-7900-515	Note 2	Silver	—
4	P12-8500-310	P12-8500-315	S12-8500-510	S12-8500-515	Note 2	Silver	—
1/0	P12-9200-310	P12-9200-315	S12-9200-510	S12-9200-515	Note 2	Silver	—

Note 1: Only MS3100 thru MS3108 and MS25183 connectors are supplied with solder filled cups

SC1661

Note 2: Pins are brass; Sockets are copper.



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MIL-DTL-5015

PIN F80 CRIMP CONTACTS

ORDERING INFORMATION

R12 - 36

15 - 140

SERIES PREFIX

R12 MIL-C-5015 crimp F80 pin contact.

CONTACT SIZE

CODE	25	36	49	64	79	85	92	97
SIZE	18	16	16S	12	8	4	1/0	4/0

WIRE RANGE

See Table below.

MODIFICATION

Consult Sales Department.

MATERIAL/FINISH

000

Alumel/none.

010

Chromel/none.

020

Constantan/none.

040

Iron/cadmium.

110

Copper/silver.

140

Copper/gold.

142

Copper/gold 0.00030.

PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM ²					
R12-2500-110	18	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.055 [1.46]	0.95 [2.40]	1.165 [29.61]
R12-3632-110	16	Copper	Silver	28-32	—	.018 [0.45]	.077 [1.95]	.062 [3.20]	.126 [3.175]	1.250 [31.75]
R12-3608-110	16	Copper	Silver	24-26	0.20-0.15	.034 [0.85]	.061 [1.55]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3613-110	16	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3612-110	16	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3615-110	16	Copper	Silver	18	1.0	.060 [1.50]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-110	16	Copper	Silver	16-18	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-000	16	Alumel	None	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-010	16	Chromel	None	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-020	16	Constantan	None	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-040	16	Iron	Cadmium	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3620-110	16	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3626-110	16	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-4913-110	16S	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4912-110	16S	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4915-110	16S	Copper	Silver	18	1.0	.060 [1.50]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-110	16S	Copper	Silver	16-18	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-000	16S	Alumel	None	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-010	16S	Chromel	None	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-020	16S	Constantan	None	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-040	16S	Iron	Cadmium	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4920-110	16S	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4926-110	16S	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.062 [1.58]	.126 [3.20]	1.050 [26.65]

SC50a

3C-4



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MIL-DTL-5015

PIN F80 CRIMP CONTACTS

PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM ²					
R12-6412-110	12	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6415-110	12	Copper	Silver	18	1.0	.060 [1.50]	.134 [3.40]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6420-110	12	Copper	Silver	14-18	2.0-1.0	.078 [2.00]	1.50 [3.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6422-110	12	Copper	Silver	—	2.5	.087 [2.20]	.150 [3.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-110	12	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-000	12	Alumel	None	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-010	12	Chromel	None	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-020	12	Constantan	None	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-040	12	Iron	Cadmium	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6430-110	12	Copper	Silver	—	4.0	.118 [3.00]	.176 [4.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6431-110	12	Copper	Silver	—	4.0	.130 [3.30]	.166 [4.20]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6438-110	12	Copper	Silver	10	6.0	.142 [3.60]	.176 [4.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6408-110	12	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-7915-110	8	Copper	Silver	18	1.0	0.60 [1.50]	.134 [3.40]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7918-110	8	Copper	Silver	14-18	2.0-1.0	0.71 [1.80]	.150 [3.80]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7926-110	8	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7930-110	8	Copper	Silver	—	4.0	.118 [3.00]	.176 [4.80]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7900-110	8	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7950-110	8	Copper	Silver	—	10.0	.201 [5.00]	.272 [6.90]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7958-110	8	Copper	Silver	—	13.2	.229 [5.80]	.307 [7.80]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-8522-110	4	Copper	Silver	—	2.5	.087 [2.20]	.150 [3.80]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8526-110	4	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8530-110	4	Copper	Silver	—	4.0	.118 [3.00]	.189 [4.80]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8550-110	4	Copper	Silver	—	10.0	.201 [5.00]	.275 [7.00]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8562-110	4	Copper	Silver	—	16.0	.244 [6.20]	.374 [9.50]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8500-110	4	Copper	Silver	4	22.0	.280 [7.10]	.375 [9.53]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8525-110	4	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8535-110	4	Copper	Silver	—	35.0	.354 [9.00]	.565 [14.35]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-9245-110	1/0	Copper	Silver	8	9.0	.177 [4.55]	.268 [6.80]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9250-110	1/0	Copper	Silver	—	10.0	.201 [5.00]	.275 [7.00]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9246-110	1/0	Copper	Silver	4	22.0	.281 [7.15]	.375 [9.53]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9225-110	1/0	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9235-110	1/0	Copper	Silver	—	35.0	.354 [9.00]	.565 [14.35]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9275-110	1/0	Copper	Silver	—	50.0	.421 [10.70]	.565 [14.35]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9200-110	1/0	Copper	Silver	1/0	53.0	.453 [11.50]	.565 [14.35]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9790-110	4/0	Copper	Silver	2	33.5	.354 [9.0]	.565 [14.35]	.500 [12.69]	.787 [20.0]	2.35 [59.7]
R12-97115-110	4/0	Copper	Silver	1/0	53.0	.453 [11.5]	.565 [14.35]	.500 [12.69]	.787 [20.0]	2.33 [59.2]
R12-97135-110	4/0	Copper	Silver	2/0	67.4	.532 [13.5]	.650 [16.5]	.500 [12.69]	.787 [20.0]	2.40 [60.9]
R12-9700-110	4/0	Copper	Silver	4/0	107.0	.650 [16.5]	.787 [20.0]	.500 [12.69]	.787 [20.0]	2.60 [65.9]

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MIL-DTL-5015

SOCKET F80 CRIMP CONTACTS

ORDERING INFORMATION

T12 - 36

15 - 540

SERIES PREFIX
T12 MIL-C-5015 crimp F80 pin contact.

CONTACT SIZE

CODE	25	36	49	64	79	80	85	86	92	93	97
SIZE	18	16	16S	12	8	8*	4	4*	1/0	1/0*	4/0*

* Indicates closed entry socket.

contsz2

MODIFICATION
Consult Sales Department.

MATERIAL/FINISH

000 Alumel/none.

010 Chromel/none.

020 Constantan/none.

040 Iron/cadmium.

110 Copper/silver.

140 Copper/gold.

142 Copper/gold 0.00030.

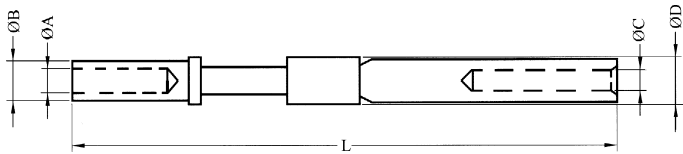
510* Copper/silver.

540* Copper/gold.

542* Copper/gold 0.00030.

WIRE RANGE
See Table below.

* Applies only to socket contacts sizes 8, 4, 1/0 and 4/0.



PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM ²					
T12-2500-110	18	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.056 [1.46]	.095 [2.40]	1.197 [34.4]
T12-3632-110	16	Copper	Silver	28-32	—	.018 [0.45]	.077 [1.95]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3608-110	16	Copper	Silver	24-26	0.20-0.15	.034 [0.85]	.061 [1.55]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3613-110	16	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3612-110	16	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3615-110	16	Copper	Silver	18-20	1.0	.060 [1.50]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-110	16	Copper	Silver	16-18	1.5-1.0	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-000	16	Alumel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-010	16	Chromel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-020	16	Constantan	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-040	16	Iron	Cadmium	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3620-110	16	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3626-110	16	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-4913-110	16S	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4912-110	16S	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4915-110	16S	Copper	Silver	18	1.0	.060 [1.50]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-110	16S	Copper	Silver	16-18	1.5-1.0	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-000	16S	Alumel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-010	16S	Chromel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-020	16S	Constantan	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-040	16S	Iron	Cadmium	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4920-110	16S	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4926-110	16S	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.065 [1.65]	.126 [3.20]	1.050 [26.65]

SC51ax

MIL-DTL-5015

SOCKET F80 CRIMP CONTACTS

PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM ²					
T12-6412-110	12	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6415-110	12	Copper	Silver	18	1.0	.060 [1.50]	.134 [3.40]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6420-110	12	Copper	Silver	14-18	2.0-1.0	.078 [2.00]	.150 [3.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6422-110	12	Copper	Silver	—	2.5	.087 [2.20]	.150 [3.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-000	12	Alumel	None	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-010	12	Chromel	None	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-020	12	Constantan	None	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-040	12	Iron	Cadmium	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-110	12	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6430-110	12	Copper	Silver	—	4.0	.118 [3.00]	.176 [4.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6431-110	12	Copper	Silver	—	4.0	.130 [3.30]	.166 [4.20]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6438-110	12	Copper	Silver	10	6.0	.142 [3.60]	.176 [4.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6408-110	12	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-7915-510	8	Copper	Silver	18	1.0	.060 [1.50]	.134 [3.40]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7918-510	8	Copper	Silver	14-18	2.0-1.0	.071 [1.80]	.150 [3.80]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7926-510	8	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-8026-510*	8	Copper	Silver	—	4.0	.118 [3.00]	.176 [4.80]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7930-510	8	Copper	Silver	—	4.0	.118 [3.00]	.176 [4.80]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7900-510	8	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-8000-510*	8	Copper	Silver	—	10.0	.201 [5.00]	.272 [6.90]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7950-510	8	Copper	Silver	—	10.0	.201 [5.00]	.272 [6.90]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-8050-510*	8	Copper	Silver	6	13.2	.229 [5.80]	.307 [7.80]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-8522-510	4	Copper	Silver	—	2.5	.087 [2.20]	.150 [3.80]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8622-510*	4	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8526-510	4	Copper	Silver	—	4.0	.118 [3.00]	.189 [4.80]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8630-510*	4	Copper	Silver	—	4.0	.118 [3.00]	.189 [4.80]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8550-510	4	Copper	Silver	—	10.0	.201 [5.00]	.275 [7.00]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8650-510*	4	Copper	Silver	—	10.0	.201 [5.00]	.275 [7.00]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8562-510	4	Copper	Silver	—	16.0	.244 [6.20]	.374 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8662-510*	4	Copper	Silver	—	16.0	.244 [6.20]	.374 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8500-510	4	Copper	Silver	4	22.0	.281 [7.15]	.375 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8600-510*	4	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8525-510	4	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8625-510*	4	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8535-510	4	Copper	Silver	—	35.0	.354 [9.00]	.565 [14.35]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8635-510*	4	Copper	Silver	—	35.0	.354 [9.00]	.565 [14.35]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-9245-510	1/0	Copper	Silver	8	9.0	.177 [4.55]	.268 [6.80]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9345-510*	1/0	Copper	Silver	—	10.0	.201 [5.00]	.275 [7.00]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9250-510	1/0	Copper	Silver	—	10.0	.201 [5.00]	.275 [7.00]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9350-510*	1/0	Copper	Silver	—	10.0	.201 [5.00]	.275 [7.00]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9246-510	1/0	Copper	Silver	4	22.0	.281 [7.15]	.375 [9.53]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9346-510*	1/0	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9225-510	1/0	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9325-510*	1/0	Copper	Silver	—	25.0	.307 [7.80]	.374 [9.50]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9235-510	1/0	Copper	Silver	—	35.0	.354 [9.00]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9335-510*	1/0	Copper	Silver	—	35.0	.354 [9.00]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9275-510	1/0	Copper	Silver	—	50.0	.421 [10.70]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9375-510*	1/0	Copper	Silver	—	50.0	.421 [10.70]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9200-510	1/0	Copper	Silver	1/0	53.0	.453 [11.50]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9300-510*	1/0	Copper	Silver	—	53.0	.453 [11.50]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9790-510	4/0	Copper	Silver	2	33.5	.354 [9.0]	.565 [14.35]	.506 [12.85]	.787 [20.0]	2.29 [58.2]
T12-97115-510	4/0	Copper	Silver	1/0	53.0	.453 [11.5]	.565 [14.35]	.506 [12.85]	.787 [20.0]	2.22 [56.3]
T12-97135-510	4/0	Copper	Silver	2/0	67.4	.532 [13.5]	.650 [16.5]	.506 [12.85]	.787 [20.0]	2.28 [58.0]
T12-9700-510	4/0	Copper	Silver	4/0	107.0	.650 [16.5]	.787 [20.0]	.506 [12.85]	.787 [20.0]	2.49 [63.0]

* Closed entry contact

SC51bx



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TOOLING

INSERTION, REMOVAL AND CRIMP TOOLS

FOR F80 CRIMP CONTACTS

CONTACT		WIRE SIZE (AWG)	INSERTION TOOL	REMOVAL TOOL KIT	GUIDE PINS	MANUAL CRIMP TOOL FRAME		PICO TOOLS MODEL 300		PICO TOOLS MODEL 400-BHD		PICO TOOLS MODEL 500-D	
						MS3191A	M22520/1-01	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.
						LOCATOR	LOCATOR						
R12-2500-★	18 Pin	20-26	T117346	T118249	—	—	—	—	—	414DA-20N	9632	514DA-20N	10627
T12-2500-★	18 Skt	20-26	T117346	T118249	T125000	—	—	—	—	414DA-20N	9641	514DA-20N	10640
R12-3600-★	16 Pin	16-18	T117345	T118250	—	600091†	TH378★	314DA-16	C17P	414DA-16N	9633	514DA-16N	10628
T12-3600-★	16 Skt	16-18	T117345	T118250	T125001	600092M†	TH378★	314DA-16	C17S	414DA-16N	9642	514DA-16N	10641
R12-3608-★	16 Pin	24-26	T117346	T118250	—	—	—	—	—	414DA-22N	9633	—	—
T12-3608-★	16 Skt	24-26	T117346	T118250	T125001	—	—	—	—	414DA-22N	9642	—	—
R12-3612-★	16 Pin	20	T117345	T118250	—	—	—	—	—	414DA-16N	9633	514DA-16N	10628
T12-3612-★	16 Skt	20	T117345	T118250	T125001	—	—	—	—	414DA-16N	9642	514DA-16N	10641
R12-3613-★	16 Pin	20-26	T117346	T118250	—	—	TH378★	314DA-20	C17P	414DA-16N	9633	514DA-16N	10628
T12-3613-★	16 Skt	20-26	T117346	T118250	T125001	—	TH378★	314DA-20	C17S	414DA-16N	9642	514DA-16N	10641
R12-3615-★	16 Pin	18	T117345	T118250	—	—	TH378★	314DA-20	C17P	414DA-16N	9633	514DA-16N	10628
T12-3615-★	16 Skt	18	T117345	T118250	T125001	—	TH378★	314DA-20	C17S	414DA-16N	9642	514DA-16N	10641
R12-3620-★	16 Pin	14	T117345	T118250	—	—	TH378★	314DA-16	C17P	414DA-16N	9633	514DA-16N	10628
T12-3620-★	16 Skt	14	T117345	T118250	T125001	—	TH378★	314DA-16	C17S	414DA-16N	9642	514DA-16N	10641
R12-3626-★	16 Pin	12	T117082	T118250	—	—	TH378★	314DA-12	C17P	414DA-12N	9633	514DA-12N	10628
T12-3626-★	16 Skt	12	T117082	T118250	T125001	—	TH378★	314DA-12	C17S	414DA-12N	9642	514DA-12N	10641
R12-3632-★	16 Pin	28-32	T117345	T118250	—	—	—	—	—	414DA-16N048	9633	514DA-16N048	10628
T12-3632-★	16 Skt	28-32	T117345	T118250	T125001	—	—	—	—	414DA-16N048	9642	514DA-16N048	10641
R12-4900-★	16S Pin	16-18	T117345	T118250	—	600093†	TH379★	314DA-16	C16P	414DA-16N	9634	514DA-16N	10629
T12-4900-★	16S Skt	16-18	T117345	T118250	T125001	600245†	TH379★	314DA-16	C16S	414DA-16N	9634	514DA-16N	10629
R12-4912-★	16S Pin	20	T117345	T118250	—	—	TH379★	314DA-20	C16P	414DA-16N	9634	514DA-16N	10629
T12-4912-★	16S Skt	20	T117345	T118250	T125001	—	TH379★	314DA-20	C16S	414DA-16N	9634	514DA-16N	10629
R12-4913-★	16S Pin	20-26	T117346	T118250	—	—	—	—	—	414DA-20N	9634	514DA-20N	10629
T12-4913-★	16S Skt	20-26	T117346	T118250	T125001	—	—	—	—	414DA-20N	9634	514DA-20N	10629
R12-4915-★	16S Pin	18	T117345	T118250	—	—	—	—	—	414DA-16N	9634	514DA-16N	10629
T12-4915-★	16S Skt	18	T117345	T118250	T125001	—	—	—	—	414DA-16N	9634	514DA-16N	10629
R12-4920-★	16S Pin	14	T117345	T118250	—	—	TH379★	314DA-16	C16P	414DA-16N	9634	514DA-16N	10629
T12-4920-★	16S Skt	14	T117345	T118250	T125001	—	TH379★	314DA-16	C16S	414DA-16N	9634	514DA-16N	10629
R12-4926-★	16S Pin	12	T117082	T118250	—	—	—	—	—	414DA-18N	9634	514DA-18N	10629
T12-4926-★	16S Skt	12	T117082	T118250	T125001	—	—	—	—	414DA-18N	9634	514DA-18N	10629
R12-6400-★	12 Pin	12	T117082	T118250	—	600216†	TH378★	—	—	414DA-12N	9635	514DA-12N	10630
T12-6400-★	12 Skt	12	T117082	T118250	T125002	600216†	TH378★	—	—	414DA-12N	9635	514DA-12N	10630
R12-6408-★	12 Pin	8	T117082	T118250	—	—	—	—	—	414DA-6N155	9635	514DA-6N155	10630
T12-6408-★	12 Skt	8	T117082	T118250	T125002	—	—	—	—	414DA-6N155	9635	514DA-6N155	10630
R12-6412-★	12 Pin	20	T117345	T118250	—	—	—	—	—	414DA-16N	9635	514DA-16N	10630
T12-6412-★	12 Skt	20	T117345	T118250	T125002	—	—	—	—	414DA-16N	9635	514DA-16N	10630
R12-6415-★	12 Pin	18	T117082	T118250	—	600216†	TH378★	—	—	414DA-16N	9635	514DA-16N	10630
T12-6415-★	12 Skt	18	T117082	T118250	T125002	600216†	TH378★	—	—	414DA-16N	9635	514DA-16N	10630
R12-6420-★	12 Pin	14-18	T117082	T118250	—	—	—	—	—	414DA-10N096	9635	514DA-10N096	10630
T12-6420-★	12 Skt	14-18	T117082	T118250	T125002	—	—	—	—	414DA-10N096	9635	514DA-10N096	10630
R12-6422-★	12 Pin	2.5mm ²	T117082	T118250	—	620216†	—	—	—	414DA-8N142	9635	514DA-8N142	10630
T12-6422-★	12 Skt	2.5mm ²	T117082	T118250	T125002	620216†	—	—	—	414DA-8N142	9635	514DA-8N142	10630
R12-6430-★	12 Pin	4.0mm ²	T117082	T118250	—	—	—	—	—	414DA-10N096	9635	514DA-10N096	10630
T12-6430-★	12 Skt	4.0mm ²	T117082	T118250	T125002	7100659†	—	—	—	414DA-10N	9635	514DA-10N	10630
R12-6431-★	12 Pin	4.0mm ²	T117082	M118250	—	7100659†	—	—	—	414DA-10N	9635	514DA-10N	10630
T12-6431-★	12 Skt	4.0mm ²	T117082	M118250	T125002	—	—	—	—	414DA-18N	9635	514DA-18N	10630
R12-6438-★	12 Pin	6.0mm ²	T117082	M118250	—	—	—	—	—	414DA-10N	9635	514DA-10N	10630
T12-6438-★	12 Skt	6.0mm ²	T117082	M118250	T125002	—	—	—	—	414DA-10N	9635	514DA-10N	10630

★ Indicates additional alpha- numerics are required to complete part number.
† Locators provided by Astro Tool.
Note 1. Consult Sales Department
Note 2. Pico Tools Die part numbers ending in letter N are for an 8 indent crimp. For a Hex crimp, change letter N to HEX.

TOOLING

INSERTION, REMOVAL AND CRIMP TOOLS FOR **F80** CRIMP CONTACTS

CONTACT		WIRE SIZE (AWG)	INSERTION TOOL	REMOVAL TOOL KIT	GUIDE PINS	MANUAL CRIMP TOOL FRAME		PICO TOOLS MODEL 300		PICO TOOLS MODEL 400B HD		PICO TOOLS MODEL 500D	
						MS3191A LOCATOR	M22520/1-01 LOCATOR	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.
R12-7900-★	8 Pin	8	T117344	T118260	Not Required	—	—	—	—	414DA-6N155	9636	514DA-6N155	10631
T12-7900-★	8 Skt	8	T117344	T118260		—	—	—	—	414DA-6N155	9636	514DA-6N155	10631
T12-8000-★	8 Skt	8	T117344	T118260		—	—	—	—	414DA-6N155	9636	514DA-6N155	10631
R12-7915-★	8 Pin	18	T117082	T118260		—	—	—	—	414DA-12N077	9636	514DA-12N077	10631
T12-7915-★	8 Skt	18	T117082	T118260		—	—	—	—	414DA-12N077	9636	514DA-12N077	10631
T12-8015-★	8 Skt	18	T117082	T118260		—	—	—	—	414DA-12N077	9636	514DA-12N077	10631
R12-7918-★	8 Pin	14-18	T117082	T118260		—	—	—	—	414DA-18N	9636	514DA-18N	10631
T12-7918-★	8 Skt	14-18	T117082	T118260		—	—	—	—	414DA-18N	9636	514DA-18N	10631
T12-8018-★	8 Skt	14-18	T117082	T118260		—	—	—	—	414DA-18N	9636	514DA-18N	10631
R12-7926-★	8 Pin	12	T117082	T118260		—	—	—	—	414DA-18N	9636	514DA-18N	10631
T12-7926-★	8 Skt	12	T117082	T118260		—	—	—	—	414DA-18N	9636	514DA-18N	10631
T12-8026-★	8 Skt	12	T117082	T118260		—	—	—	—	414DA-18N	9636	514DA-18N	10631
R12-7930-★	8 Pin	4.0mm ²	T117082	T118260		—	—	—	—	414DA-10N096	9636	514DA-10N096	10631
T12-7930-★	8 Skt	4.0mm ²	T117082	T118260		—	—	—	—	414DA-10N096	9636	514DA-10N096	10631
T12-8030-★	8 Skt	4.0mm ²	T117082	T118260		—	—	—	—	414DA-10N096	9636	514DA-10N096	10631
R12-7950-★	8 Pin	10.0mm ²	T117344	T118260		—	—	—	—	414DA-8N142	9636	514DA-8N142	10631
T12-7950-★	8 Skt	10.0mm ²	T117344	T118260		—	—	—	—	414DA-8N142	9636	514DA-8N142	10631
T12-8050-★	8 Skt	10.0mm ²	T117344	T118260		—	—	—	—	414DA-8N142	9636	514DA-8N142	10631
R12-7958-★	8 Pin	6	Note 1	T118260		—	—	—	—	414DA-6N170	9636	514DA-6N170	10631
T12-7958-★	8 Skt	6	Note 1	T118260		—	—	—	—	414DA-6N170	9636	514DA-6N170	10631
T12-8058-★	8 Skt	6	Note 1	T118260		—	—	—	—	414DA-6N170	9636	514DA-6N170	10631
R12-8500-★	4 Pin	4	T117347	T118270	Not Required	—	—	—	—	414DA-4N215	9637	514DA-4N215	10632
T12-8500-★	4 Skt	4	T117347	T118270		—	—	—	—	414DA-4N215	9637	514DA-4N215	10632
T12-8600-★	4 Skt	4	T117347	T118270		—	—	—	—	414DA-4N215	9637	514DA-4N215	10632
R12-8522-★	4 Pin	2.5mm ²	T117082	T118270		—	—	—	—	414DA-18N	9637	514DA-18N	10632
T12-8522-★	4 Skt	2.5mm ²	T117082	T118270		—	—	—	—	414DA-18N	9637	514DA-18N	10632
T12-8622-★	4 Skt	2.5mm ²	T117082	T118270		—	—	—	—	414DA-18N	9637	514DA-18N	10632
R12-8525-★	4 Pin	25.0mm ²	T117347	T118270		—	—	—	—	414DA-4N	9637	514DA-4N	10632
T12-8525-★	4 Skt	25.0mm ²	T117347	T118270		—	—	—	—	414DA-4N	9637	514DA-4N	10632
T12-8625-★	4 Skt	25.0mm ²	T117347	T118270		—	—	—	—	414DA-4N	9637	514DA-4N	10632
R12-8526-★	4 Pin	12	T117082	T118270		—	—	—	—	414DA-10N	9637	514DA-10N	10632
T12-8526-★	4 Skt	12	T117082	T118270		—	—	—	—	414DA-10N	9637	514DA-10N	10632
T12-8626-★	4 Skt	12	T117082	T118270		—	—	—	—	414DA-10N	9637	514DA-10N	10632
R12-8530-★	4 Pin	4.0mm ²	T117082	T118270		—	—	—	—	414DA-10N105	9637	514DA-10N105	10632
T12-8530-★	4 Skt	4.0mm ²	T117082	T118270		—	—	—	—	414DA-10N105	9637	514DA-10N105	10632
T12-8630-★	4 Skt	4.0mm ²	T117082	T118270		—	—	—	—	414DA-10N105	9637	514DA-10N105	10632
R12-8535-★	4 Pin	35.0mm ²	T117348	T118270		—	—	—	—	414DA-0N315	9637	514DA-0N315	10632
T12-8535-★	4 Skt	35.0mm ²	T117348	T118270		—	—	—	—	414DA-0N315	9637	514DA-0N315	10632
T12-8635-★	4 Skt	35.0mm ²	T117348	T118270		—	—	—	—	414DA-0N315	9637	514DA-0N315	10632
R12-8550-★	4 Pin	10.0mm ²	T117344	T118270		—	—	—	—	414DA-8N142	9637	514DA-8N142	10632
T12-8550-★	4 Skt	10.0mm ²	T117344	T118270		—	—	—	—	414DA-8N142	9637	514DA-8N142	10632
T12-8650-★	4 Skt	10.0mm ²	T117344	T118270		—	—	—	—	414DA-8N142	9637	514DA-8N142	10632
R12-8562-★	4 Pin	16.0mm ²	T117347	T118270		—	—	—	—	414DA-4N	9637	514DA-4N	10632
T12-8562-★	4 Skt	16.0mm ²	T117347	T118270		—	—	—	—	414DA-4N	9637	514DA-4N	10632
T12-8662-★	4 Skt	16.0mm ²	T117347	T118270		—	—	—	—	414DA-4N	9637	514DA-4N	10632

Note 1. Consult Sales Department

Note 2. Pico Tools Die part numbers ending in letter N are for an 8 indent crimp. For a Hex crimp, change letter N to HEX

★ Indicates additional alpha-numeric are required to complete part number.

† Locators provided by Astro Tool.

Tool2a

MIL-DTL-5015-SPECIAL FEATURES - TECHNICAL DATA-CONTACTS & TOOLS



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TOOLING

INSERTION, REMOVAL AND CRIMP TOOLS FOR **F80** CRIMP CONTACTS

CONTACT		WIRE SIZE (AWG)	INSERTION TOOL	REMOVAL TOOL KIT	GUIDE PINS	MANUAL CRIMP TOOL FRAME		PICO TOOLS MODEL 300		PICO TOOLS MODEL 400-BHD		PICO TOOLS MODEL 500-D	
						MS3191A	M22520/1-01	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.
P/N	SIZE					LOCATOR	LOCATOR						
R12-9200-★	1/0 Pin	1/0	T117348	T118280	Not Required	—	—	—	—	414DA-0N	9638	514DA-0N	10633
T12-9200-★	1/0 Skt	1/0	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
T12-9300-★	1/0 Skt	1/0	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
R12-9225-★	1/0 Pin	25.0mm ²	T117347	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
T12-9225-★	1/0 Skt	25.0mm ²	T117347	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
T12-9325-★	1/0 Skt	25.0mm ²	T117347	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
R12-9235-★	1/0 Pin	35.0mm ²	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
T12-9235-★	1/0 Skt	35.0mm ²	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
T12-9335-★	1/0 Skt	35.0mm ²	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
R12-9245-★	1/0 Pin	8	T117344	T118280		—	—	—	—	414DA-6N155	9638	514DA-6N155	10633
T12-9245-★	1/0 Skt	8	T117344	T118280		—	—	—	—	414DA-6N155	9638	514DA-6N155	10633
T12-9345-★	1/0 Skt	8	T117344	T118280		—	—	—	—	414DA-6N155	9638	514DA-6N155	10633
R12-9246-★	1/0 Pin	4	Note 1	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
T12-9246-★	1/0 Skt	4	Note 1	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
T12-9346-★	1/0 Skt	4	Note 1	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
R12-9250-★	1/0 Pin	10.0mm ²	T117344	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
T12-9250-★	1/0 Skt	10.0mm ²	T117344	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
T12-9350-★	1/0 Skt	10.0mm ²	T117344	T118280		—	—	—	—	414DA-4N	9638	514DA-4N	10633
R12-9275-★	1/0 Pin	50.0mm ²	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
T12-9275-★	1/0 Skt	50.0mm ²	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
T12-9375-★	1/0 Skt	50.0mm ²	T117348	T118280		—	—	—	—	414DA-0N	9638	514DA-0N	10633
R12-9700-★	4/0 Pin	4/0	Note 1	Note 1	Not Required	—	—	—	—	—	—	514DA-N470	10636
T12-9700-★	4/0 Skt	4/0	Note 1	Note 1		—	—	—	—	—	—	514DA-N470	10639
R12-9790-★	4/0 Pin	2	Note 1	Note 1		—	—	—	—	414DA-0N	9639	514DA-0N	10634
T12-9790-★	4/0 Skt	2	Note 1	Note 1		—	—	—	—	414DA-0N	9640	514DA-0N	10637
R12-97115-★	4/0 Pin	1/0	Note 1	Note 1		—	—	—	—	414DA-0N	9639	514DA-0N	10634
T12-97115-★	4/0 Skt	1/0	Note 1	Note 1		—	—	—	—	414DA-0N	9640	514DA-0N	10637
R12-97135-★	4/0 Pin	2/0	Note 1	Note 1		—	—	—	—	—	—	514DA-N345	10635
T12-97135-★	4/0 Skt	2/0	Note 1	Note 1		—	—	—	—	—	—	514DA-N345	10638

Tool3a

Note 1. Consult sales department.

Note 2. Pico Tools Die part numbers ending in letter N are for an 8 indent crimp. For Hex crimp, change letter N to HEX.

★ Indicates additional alpha-numeric are required to complete part number.

† Locators provided by Astro Tool.



TOOLING

INSERTION AND REMOVAL TOOLS FOR **F80** CRIMP CONTACTS

ALTERNATE INSERTION TOOLS

CONTACT SIZE	SPACECRAFT	ASTRO TOOL	BENDIX	ITT CANNON	COMMITAL	DANIELS	VEAM
18	T117346	—	—	—	M.117346	—	T98143
16	T117345	ATBX1-7345	11-7345	CIT-F80-16	M.117345	DAK168-16	11-7345
12	T117082	ATBX1-7082	11-7082	CIT-F80-12	M.117082	DAK168-12	46736
8	T117344	ATBX1-8220	11-8220	CIT-8	M117344	DAK159	A46151-8T50
4	T117347	ATC1377	11-7365-4*	CIT-4	M.117347	—	A46151-4T50
1/0	T117348	—	11-7365-5*	CIT-0	M.117348	—	A46151-0T50

* Requires 11-7364 Arbor Press

AltIns

ALTERNATE REMOVAL TOOLS

CONTACT SIZE	SPACECRAFT	ASTRO TOOL	BENDIX	ITT CANNON	COMMITAL	DANIELS	VEAM
18	T118249	—	—	—	M.118249	—	11-7576-37
16	T118250	ATBX2-8250	11-8250(Kit)	CET-F80-16	M.118250	DRK59	A43240
12	T118250	ATBX2-8250	11-8250(Kit)	CET-F80-12	M.118250	DRK59	A43240
8	T117260	ATBX2-8250	11-8250(Kit)	CET-8	M.118260	DRK59	A43240-8
4	T118270	ATC2234	P=11-7370-4* S=11-7674-2*	CET-4	M.118270	—	46150-4
1/0	T118280	—	P=11-7370-5* S=11-7674-3*	CET-0	M.118280	—	46150-0

* Requires 11-7364 Arbor Press

AltRem

ALTERNATE GUIDE PINS

CONTACT SIZE	SPACECRAFT	BENDIX	ITT CANNON	COMMITAL	VEAM
18	T125000	—	—	M.125000	27977-20T50
16	T125001	Unknown	226-1017-000	M.125001	27977-16T50
12	T125002	Unknown	226-1018-000	M.125002	27977-16T50
8	T125003	Unknown	Not Required	M.125003	Not Required
4	Not Required	Not Required	Not Required	Not Required	Not Required
1/0	Not Required	Not Required	Not Required	Not Required	Not Required

AltGid



MIL-DTL-5015 SERIES I

THERMOCOUPLE CONTACTS

A thermocouple is essentially a pair of wires of dissimilar metals connected at both ends. When the two junctions are subjected to different temperatures, an electrical potential is set up between them, almost directly proportional to the temperature difference. A voltage measuring instrument in the circuit can thus measure temperature.

Because thermocouple junctions can withstand higher temperatures than the connectors used in conjunction with them, care must be taken to isolate the connectors. While contacts can withstand temperatures shown in the following table, standard insert materials can withstand only 257°F continuous operation. However, special dielectrics and shell finishes can extend the usable connector range above 500°F.

THERMOCOUPLE LIMITS

COMBINATION	CONDITIONS	TEMPERATURE RANGE
Copper-Constantan	Material has good resistance to corrosion with long life and stable calibration.	Thermocouple Junction: Below 500°F Connector Contacts: 400°F
Iron-Constantan	Material can be used in either oxidizing or reducing atmospheres. It is not recommended for low temperatures and in the presence of moisture due to the rusting of the iron.	Thermocouple Junction: 500°F to 1200°F Connector Contacts: *600°F
Chromel-Alumel	Material is good for high temperature work and is more stable than iron and constantan combinations.	Thermocouple Junction: High Temperature Connector Contacts: *400°F

* These contacts can withstand higher temperatures but have not been tested because the general line of connectors will not withstand such temperatures in continuous operation.

9322

THERMOCOUPLE MATERIALS

CONTACT DESIGNATION	MATERIAL	MAGNETISM
Alumel (Al)	94% Nickel; 2.5% Manganese; 2% Aluminum; 1% Silicone; ½% Iron	Magnetic
Constantan (Co)	45% to 60% Copper; 40% to 55% Nickel; 0 to 1.4% Manganese; 0.1% Iron	Non-Magnetic
Copper (Cu)	87.5 to 90% Copper; 1.8 to 2.2% Lead; .1% Iron; 5% Nickel; .5% normal impurities and balance zinc	Non-Magnetic
Iron (Ir)	84.4% Iron; 2% Carbon; 3% manganese; 6% Phosphorus; 2% Sulphur; 4% Silicone; 8.1% Copper; 9% Tin (Cadmium plated for corrosion resistance)	Magnetic
Chromel P (Ch)	90% Nickel; 10% Chromium	Non-Magnetic

9323

CONTACT COLOR CODING

CONTACT MATERIAL	COLOR
Alumel	Green
Chromel	White
Copper	—
Constantan	Yellow
Iron	Black

SC45

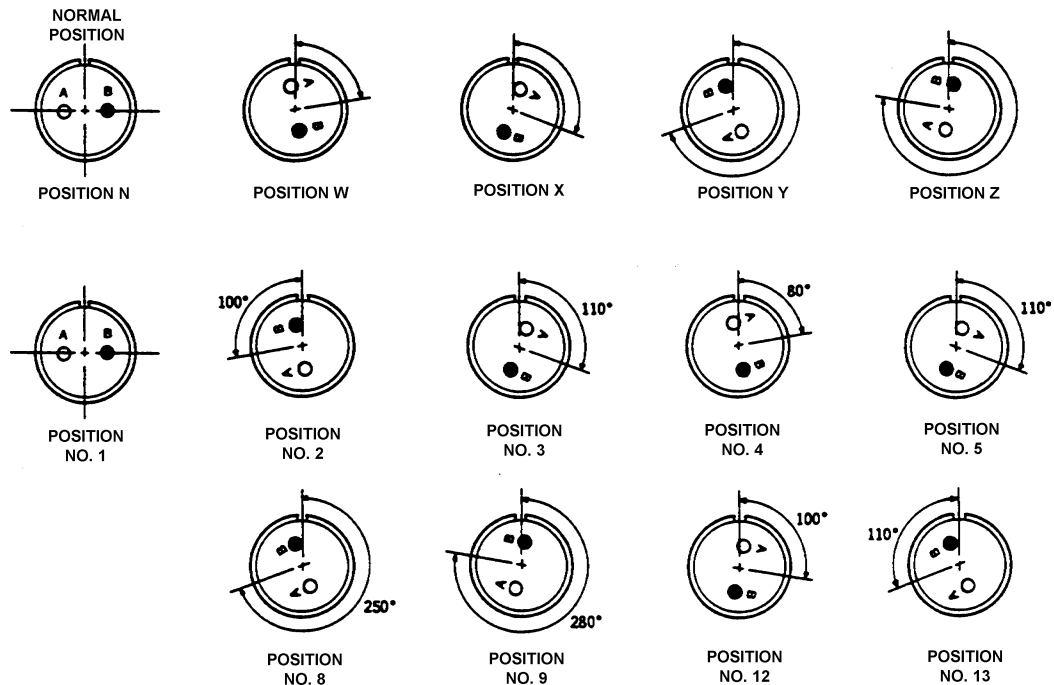
For solder thermocouple contacts, see page 11A-3.
For crimp thermocouple contacts, see pages 11A-4 thru 11A-7.

SECTION 4C

INSERT CONFIGURATIONS

ALTERNATE POSITIONS (POLARIZATION)

The diagrams indicate alternate insert positions. The four positions (W, X, Y, and Z) differ in degree of rotation for various sizes and layouts.



ENGAGING FACE OF PIN INSERTS SHOWN
SOCKET INSERTS ARE MIRROR IMAGES



MIL-DTL-5015

INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
8S-1†	1			1					—	—	—	—	
10S-2†	1			1					—	—	—	—	
10SL-3†★	3			3					—	—	—	—	
10SL-4‡★	2			2					—	—	—	—	
12S-1‡	2			2					—	—	—	—	Position #12 of 12S-3
12S-2‡	2			2					—	—	—	—	Position #13 of 12S-3
12S-3†	2			2					70	145	215	290	
12S-4†	1			1					—	—	—	—	
12-5†	1				1				—	—	—	—	
14S-1‡	3			3					—	—	—	—	Same as 14S-7
14S-2†	4			4					-	120	240	-	
14-3†	1					1			—	—	—	—	
14S-4‡	1			1					—	—	—	—	
14S-5†	5			5					—	110	—	—	
14S-6†	6			6					—	—	—	—	
14S-07	7			7					—	—	—	—	Use 14SA7
14SA7	7			7					—	—	—	—	
14S-7†	3			3					90	180	270	—	
14S-9‡	2			2					70	145	215	290	
14S-10‡	4			4					—	—	—	—	Position #12 of 14S-2
14S-11‡	4			4					—	—	—	—	Position #13 of 14S-2
14S-12‡	3			3					—	—	—	—	Position #12 of 14S-1
14S-13‡	3			3					—	—	—	—	Position #2 of 14S-1
14S-14‡	4			4					—	—	—	—	Position #12 of 14S-2
16S-1†★	7			7					80	—	—	280	
16-2†	1				1				—	—	—	—	
16S-3†	1			1					—	—	—	—	
16S-4†★	2			2					35	110	250	325	
16S-5‡	3			3					70	145	215	290	
16S-6‡	3			3					90	180	270	—	
16-7†	3			2		1			80	110	250	280	
16S-8†	5			5					—	170	265	—	
16-9†	4			2	2				35	110	250	325	
16-10†★	3				3				90	180	270	—	
16A10	10			10					35	112	235	315	
16-11†	2				2				35	110	250	325	
16A11★	2				2				—	110	250	—	
16-12†★	1						1		—	—	—	—	
16S-14‡	3			3					—	—	—	—	Position #3 of 16S-5
16S-15‡	2			2					—	—	—	—	Position #12 of 16S-4
16S-16‡	2			2					—	—	—	—	Position #13 of 16S-4
18-1†★	10			10					70	145	215	290	
18-3‡	2				2				35	110	250	325	
18-4†	4			4					35	110	250	325	
18-5†	3			1	2				80	110	250	280	
18-06	6			2	4				—	180	—	—	Use 18A6
18-6†	1						1		—	—	—	—	
18A6	6			2	4				—	180	—	—	
18-7†	1					1			—	—	—	—	
18-8†	8			7	1				70	—	—	290	
18-9†	7			5	2				80	110	270	280	

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

★ = VG95234

SC20-301



INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
18-10‡	4				4				–	120	240	–	
18-11†★	5				5				–	170	265	–	
18-12†	6			6					80	–	–	280	
18-13†★	4				3	1			80	110	250	280	
18-14†	2			1			1		80	110	250	280	
18-16	1				1				–	–	–	–	High voltage
18-17‡	7			5	2				–	–	–	–	100 Deg Rotation To Right of 18-9
18-18‡	7			5	2				–	–	–	–	250 Deg Rotation To Right of 18-9
18-19‡	10			10					–	120	240	–	
18-20‡	5			5					90	180	270	–	
18-21‡	3				3				70	145	215	290	
18-22‡	3			3					70	145	215	290	
18-23‡	10			10					–	–	–	–	Position #12 of 18-1
18-24‡	10			10					–	–	–	–	Position #13 of 18-1
18-25‡	2				2				–	–	–	–	Position #12 of 18-3
18-26‡	2				2				–	–	–	–	Position #13 of 18-3
18-27‡	3			1	2				–	–	–	–	Position #12 of 18-5
18-28‡	3			1	2				90	180	270	–	Position #13 of 18-5
18-29‡	5			5					90	180	270	–	
18-30‡	5			5					–	–	–	–	Position #3 of 18-20
18-31‡	5			5					–	–	–	–	Position #2 of 18-20
18A31	10			10					–	–	–	–	Position #5 of 18-1
18-2005-31	10			10					–	–	–	–	Position #5 of 18-1
20-1‡	14			14					–	–	–	–	Same as 20-27
20-2†★	1							1	–	–	–	–	
20-3‡	3				3				70	145	215	290	
20-4†	4				4				45	110	250	–	
20-5‡	2			2					35	110	250	325	
20-6‡	3			3					70	145	215	290	
20-7†	8			8					80	110	250	280	
20-8†★	6			4		2			80	110	250	280	
20B8	8			4	4				–	–	–	–	
20-9†	8			7	1				80	110	250	280	
20A9★	9			9					–	110	250	–	
20-10‡	4			4					–	–	–	–	
20-11‡	13			13					–	–	–	–	
20-12‡	2			1				1	80	110	250	280	
20-13‡	4			4					–	–	–	–	
20-14†	5				3	2			80	110	250	280	
20-15†★	7				7				80	–	–	280	
20-16†	9			7	2				80	110	250	280	
20A16	13			13					–	–	–	–	Same as 20-11
20-17†	6			1	5				90	180	270	–	
20-18†	9			6	3				35	110	250	325	
20-19‡	3					3			90	180	270	–	
20-20‡	4				3			1	80	110	250	280	
20-21†	9			8	1				35	110	250	325	
20-22†	6			3		3			80	110	250	280	
20-23‡	2					2			35	110	250	325	
20-24‡	4			2		2			35	110	250	325	
20-25‡	13			13					–	–	–	–	Position #12 of 20-11

† = Military designation per MIL-STD-1651.

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INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
20-26‡	3				3				—	—	—	—	
20-27†	14			14					35	110	250	325	
20-29†	17			17					80	—	—	280	
20-30‡	13			13					—	—	—	—	Position #13 of 20-11
20-31‡	11			11					—	—	—	—	
20-32‡	8			8					—	—	—	—	Position #2 of 20-7
20-33†	11			11					—	—	—	—	
20A48★	19			19					—	80	280	—	
20-58	10			5	5				—	—	—	—	
20-629	4			4					—	—	—	—	Same as 20-10
20-854	2				2				—	—	—	—	
20-2006-37	4				4				—	—	—	—	Position #8 of 20-4
22-1‡	2					2			35	110	250	325	
22-2†	3					3			70	145	215	290	
22-3‡	2			1			1		80	110	250	280	
22-4‡	4				2	2			35	110	250	325	
22-5‡	6			4	2				35	110	250	325	
22-6‡	3			1		2			80	110	250	280	
22-7†	1							1	—	—	—	—	
22-8‡	2				2				35	110	250	325	
22-9†	3				3				70	145	215	290	
22-10†	4			4					35	110	250	325	
22A10	10			10					—	120	240	—	
22-11†	2			2					35	110	250	325	
22-12†★	5			3		2			80	110	250	280	
22-13‡	5			1	4				35	110	250	325	
22-14†★	19			19					80	110	250	280	
22-15†	6			1	5				80	110	250	280	
22-16‡	9			6	3				80	110	250	280	
22-17†	9			8	1				80	110	250	280	
22-18†	8			8					80	110	250	280	
22-19†	14			14					80	110	250	280	
22-20‡	9			9					35	110	250	325	
22-21†	3			2				1	80	110	250	280	
22-22†★	4					4			—	110	250	—	
22B22★	4					4			—	110	250	—	
22-23†	8				8				35	—	250	—	
22-24‡	6			4	2				80	110	250	280	
22-25‡	3			2				1	80	110	250	280	
22-26‡	7			5	2				—	—	—	—	
22-27†★	9			8		1			80	—	250	280	
22-28‡	7				7				80	—	—	280	
22-29‡	7			6			1		80	110	250	280	
22-30‡	19			19					—	—	—	—	Position #12 of 22-14
22-31‡	2			2					—	—	—	—	Position #12 of 22-11
22-32‡	6			4	2				—	—	—	—	Position #2 of 22-5
22-33‡	7			7					80	110	250	280	
22-34‡	5			2	3				80	110	250	280	
22-35‡	3					3			—	—	—	—	
22A37	37		37						80	112	250	280	
22-63	12			8	4				—	—	—	—	

† = Military designation per MIL-STD-1651.
 ‡ = Military designation inactive for new design.
 ★ = VG95234

SC25-301



INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
22-70	13			5	8				—	—	—	—	
22-82	10			8		2			—	—	—	—	
24-1†	2			1				1	80	110	250	280	
24A1	1							1	—	—	—	—	
24-2†	7				7				80	—	—	280	
24-3‡	7			5	2				80	110	250	280	
24-4†	4			3				1	80	110	250	280	
24-5‡	16			16					80	110	250	280	
24G5	5					5			—	—	—	—	
24-06	6			2		4			40	—	—	—	Use 24A6
24-6†	8				8				80	110	250	280	
24A6	6				4	2			40	—	—	—	
24-07	7				7				80	—	—	280	Use 24A7
24-7†	16			14	2				80	110	250	280	
24A7	7				7				80	—	—	280	
24-9‡	2						2		35	110	250	325	
24-10†★	7					7			80	—	—	280	
24-11†★	9				6	3			35	110	250	325	
24-12†★	5				3		2		80	110	250	280	
24S12	12			10			2						
24-013	13			7	6				—	—	—	—	Use 24A13
24A13	13			7	6				—	—	—	—	
24-14‡	3				2			1	80	110	250	280	
24-15‡	16			16					—	—	—	—	Position #12 of 24-5
24-16†	7			3	3	1			80	110	250	280	
24-17‡	5			3	2				80	110	250	280	
24-18	4			4					—	—	—	—	Shorting type
24-19‡	12			12					—	—	—	—	
24-20†	11			9	2				80	110	250	280	
24-21†	10			9		1			80	110	250	280	
24-22†	4					4			45	110	250	-	
24-23‡	5			2		3			80	110	250	280	
24-24‡	16			16					—	—	—	—	Position #13 of 24-5
24-25‡	8				8				—	—	—	—	Position #12 of 24-6
24A25	25			25					80	110	250	280	
24-26‡	8				8				—	—	—	—	Position #13 of 24-6
24-27†	7			7					80	—	—	280	
24-28†	24			24					80	110	250	280	
24A28	28			28					65	146	235	—	
24A35★	16				14	2			—	—	—	—	Position #12 of 24-7
24A40	16			14	2				—	—	—	—	
24-58	13			7	3	3			—	—	—	—	
24-59	14			7	7				—	—	—	—	
24-65	15			4	11				—	—	—	—	
24-66	7				7				—	—	—	—	
24-67	19				19				80	—	—	335	
24-79	5					5			—	—	—	—	
24-80†	23			23					35	145	240	300	
24-2008-35	16			14	2				—	—	—	—	Position #12 of 24-7 Same as 24A35
28-1†	9				6	3			80	110	250	280	
28B1	1							1	—	—	—	—	

† = Military designation per MIL-STD-1651.

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INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
28-2†	14			12	2				35	110	250	325	
28-3†	3					3			70	145	215	290	
28-4†	9			7	2				80	110	250	280	
28-5†	5			2	1		2		35	110	250	325	
28-6‡	3						3		70	145	215	290	
28-7†	2						2		35	110	250	325	
28-8†	12			10	2				80	110	250	280	
28-09	9			5			4		110	250	260	280	Use 28A9
28-9†	12			6	6				80	110	250	280	
28A9	9			5			4		110	250	260	280	
28-10†	7				3	2	2		80	110	250	280	
28-11†★	22			18	4				80	110	250	280	
28-12†	26			26					90	180	270	—	
28-13‡	26			26					—	—	—	—	Position #12 of 28-12
28-14‡	11			11					80	110	250	280	
28-15†	35			35					80	110	250	280	
28-16‡	20			20					80	110	250	280	
28-17†	15			15					80	110	250	280	
28-18†	12			12					70	145	215	290	
28-19†	10			6	4				80	110	250	280	
28-20†★	14			4	10				80	110	250	280	
28-21†★	37			37					80	110	250	280	
28-22†	6			3			3		70	145	215	290	
28A29	29			27		2			—	—	—	—	
28A31	31		25			6			—	—	—	—	
28A35	35			35					80	110	250	280	
28-51	12				12				80	135	195	—	
28A55	29			29					—	—	—	—	
28-59	17			10	7				—	—	—	—	
28A63★	28			19	9				—	100	260	—	
28-72	72	72							—	—	—	—	
28-79	16			9		7			—	—	—	—	
28-84	9						9		—	—	—	—	
28-124	16			12		4			—	—	—	—	
32-1†★	5				3			2	80	110	250	280	
32A1	1								—	—	—	—	1 Size 4/0 Contact
32-2†	5			2			3		70	145	215	290	
32-3†★	9			4	2		2	1	80	110	250	280	
32A3	3						3		22	44	75	—	
32-4‡	14			12	2				80	110	250	280	
32-5‡	2							2	35	110	250	325	
32-6†★	23			16	2	3	2		80	110	250	280	
32-7†★	35			28	7				80	125	235	280	
32-8‡	30			24	6				80	125	235	280	
32-9†	14			12			2		80	110	250	280	
32-10‡	7			3		2	2		80	110	250	280	
32-12‡	15			10	5				80	110	250	280	
32-013	13				13				65	130	230	295	Use 32A13
32-13†	23			18	5				80	110	250	280	
32A13	13				13				65	130	230	295	
32-14‡	7				5		2		35	110	250	325	

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★ = VG95234

SC28-301

INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
32-15†	8				6			2	35	110	250	280	
32-16‡	23			16	2	3	2		—	—	—	—	Position #12 of 32-6
32-17†	4						4		45	110	250	—	
32-18‡	14			12	2				—	—	—	—	Position #12 of 32-4
32-19‡	5				3			2	—	—	—	—	Position #2 of 32-1
32-20‡★	23			16	2	3	2		—	—	—	—	Position #2 of 32-6
32-22†★	54			54					80	110	250	280	
32B22	22			20				2	35	110	250	325	
32A25	25				25				60	120	—	—	
32A27	27			17	10				30	115	285	335	
32A29	23			16	2	3	2		—	—	—	—	Rotation of 32-6
32A30	30			20	10				—	—	—	—	
32-31	31			31					—	—	—	—	
32A40	40			40					—	—	—	—	
32A48	48			48					80	—	—	—	
32-52	8				6			2	—	—	—	—	90 Deg Rotation of 32-15
32-53	42			37	5				—	—	—	—	
32A55	55			55					80	110	250	280	
32-59	42			40		2			36	108	252	324	
32-63†	5						5		—	—	—	—	
32-64	54			54					—	—	—	—	
32-68	16			12			4		65	135	225	275	
32A69★	61	41		20					—	110	250	—	
32-73†	46			46					36	—	—	—	
32-76	19				19				80	110	250	280	
32-79	5					1	4		—	—	—	315	
32-88	54			54					—	—	—	—	
32A401	40			40					—	—	—	—	
32-689	9			6			3		—	—	—	—	
32-2010-29	23			16	2	3	2		—	—	—	—	Position #13 of 32-6
32-2010-30	5				3			2	—	—	—	—	Position #12 of 32-1
36-01	1								—	—	—	—	1 Size 4/0 Contact
36A1	1								—	—	—	—	1 Size 4/0 Contact
36-1‡	22			18	4				80	110	250	280	
36-2‡	5				2			3	—	—	—	—	
36-3†	6				3			3	70	145	215	290	
36-4‡	3							3	70	145	215	290	
36-5†★	4							4	—	120	240	—	
36-6†★	6						4	2	35	110	250	325	
36-7†	47			40	7				80	110	250	280	
36-8†	47			46	1				80	110	250	280	
36-9†	31			14	14	2	1		80	125	235	280	
36-10†★	48			48					80	125	235	280	
36-11‡	48			48					—	—	—	—	Position #12 of 36-10
36-12‡	48			48					—	—	—	—	Position #13 of 36-10
36-13‡	17			15	2				80	110	250	280	
36-14‡	16			6	5	5			90	180	270	—	
36-15†	35			35					60	125	245	305	
36-16‡	47			40	7				—	—	—	—	Position #12 of 36-7
36-17‡	47			40	7				—	—	—	—	Position #13 of 36-7
36-18‡	31			14	14	2	1		—	—	—	—	Position #12 of 36-9

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

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INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
36-19†	17			10	5		1	1	80	110	250	280	
36-20‡	34			30	2	2			–	–	–	–	
36-21‡	31			14	14	2	1		–	–	–	–	Position #2 of 36-9
36-22	22				22				80	110	250	280	
36A22	22				22				–	–	–	–	
36-35	36			32		4			–	–	–	–	
36-51	4						2	2	–	–	–	–	
36A51	6				1		2	3	45	135	225	315	
36-52†	52			52					72	144	216	288	
36-54	39			31		8			–	–	–	–	
36-66†	56			52	4				110	250	260	280	
36-71	53			50	3				–	–	–	–	
36A72	72		52	16	4				–	–	–	–	
36-74	44			43		1			–	–	–	–	
36B78	14			2		12			–	–	–	–	
36D78	14			4		10			–	–	–	–	
40-1†	30			24	6				65	130	235	300	
40-2†	23			23					80	110	250	280	
40-3†	23			18	4		1		80	110	250	280	
40A3	5				2			3	70	145	215	290	
40-4†	23			16	2	3	2		80	110	250	280	
40A4	6				2			4	50	120	240	325	
40B4	4							4	45	110	–	–	
40-5†	15				6	4	2	3	80	110	250	280	
40A5	5				1		1	3	33	–	–	270	
40-6†	26			24	1			1	80	110	250	280	
40A6	6				6				–	–	–	–	
40-7†	22			18	2			2	80	110	250	280	
40A8	8			4			4		35	110	250	325	
40-9†	47			24	22	1			65	125	225	310	
40-10†	29			16		9	4		65	125	225	310	
40A10	8			4			4		80	135	195	–	
40-11†	25			18	4	1	1	1	80	110	250	280	
40-12‡	29			22	6			1	–	–	–	–	
40-13‡	23			23					–	–	–	–	Position #12 of 40-2
40-14‡	32			21	10			1	–	–	–	–	
40B19	19					19			35	105	255	325	
40A24	24				16	8			–	–	–	–	
40-26	26				19	7			80	110	250	280	
40A27	27				25		2		45	110	250	315	
40S27	60			60					–	–	–	–	
40-31	31				31				80	110	250	280	
40-35	35				35				70	130	230	290	
40A38	38				38				37	74	285	322	
40-47	47			24	22	1			65	125	225	310	
40A51	31			16		15			–	–	–	–	
40-53	60			60					80	110	250	280	

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

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SC31-301



INSERT CONFIGURATIONS BY SHELL SIZE

INSERT NUMBER	CONTACTS								ALTERNATE POSITIONS (Degrees)				REMARKS
	TOTAL	SIZE											
		# 20	# 18	# 16	# 12	# 8	# 4	# 0	W	X	Y	Z	
40-56†	85			85					72	144	216	288	
40A56	85			85					72	144	216	288	
40N56	85			85					72	144	216	288	
40-57	4							4	–	–	–	–	
40-60	6							6	80	110	250	280	
40-62	60			60					30	130	220	290	
40A62	62			60		2			80	130	230	280	
40-63	61			61					80	–	–	280	
40A65	65			65					70	145	215	285	
40-67	11			1			10		–	–	–	–	
40-68	21					21			–	–	–	–	
40-70	61			61					–	–	–	–	
40-80	11			1			10		–	–	–	–	
40-82	62			62					–	–	–	–	
40-87	7						7		–	–	–	–	
40-150	150		150						–	–	–	–	
40A150	150		150						–	–	–	–	
40-951	51				26	25			–	–	–	–	
44-1†	42			36	6				65	125	225	310	
44-2†	31			14	14	2	1		65	125	225	310	
44-3†	31			24	3	2	2		65	125	225	310	
44-4†	41			31	8			2	65	125	225	310	
44-5‡	42			36	6				–	–	–	–	Position #12 of 44-1
44-6‡	42			36	6				–	–	–	–	Position #13 of 44-1
44-52†	104			104					72	135	225	288	
48-1†	15				6	4	2	3	65	125	225	310	
48-2†	47			46	1				65	125	225	310	
48-3†	25			18	1	3		3	65	125	225	310	
48-4†	68			47	16	3		2	65	125	225	310	
48-5‡	100			90	9	1			65	125	225	310	
48-52	61			56				5	–	–	–	–	
48-53	37				37				–	–	–	–	
48-55	78			68	2	2	6		–	–	–	–	
48-57	56			42		10		4	–	–	–	–	
48-62†	85			85					72	144	216	288	

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INSERT CONFIGURATIONS



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MIL-DTL-5015

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

1 CONTACT

CONTACTS	8S-1† 1-#16	10S-2† 1-#16	12S-4† 1-#16	12-5† 1-#12	14-3† 1-#8	14S-4‡ 1-#16	16-2† 1-#12
RATING	A	A	D	D	A	D For new MIL equip. design, use 12S-4	E
CONTACTS	16S-3† 1-#16	16-12† 1-#4	18-6† 1-#4	18-7† 1-#8	20-2† 1-#0		
RATING	B	A	D	B	D		
CONTACTS	22-7† 1-#0	24-A1 1-#0	28B1 1-#0	32A1 1-4/0	36-01 36A1 1-#4/0		
RATING	E	B	E	A	A		

2 CONTACTS

CONTACTS	10SL-4‡ 2-#16	12S-3† 2-#16	14S-9‡ 2-#16	16S-4† 2-#16	16-11† 16A11★ 2-#12	16-13† 2-#12 Thermocouple
RATING	A	A	A For new MIL equip. design, use 12S-3	D	A	A

† = Military designation per MIL-STD-1651.

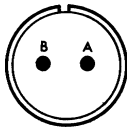
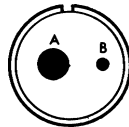
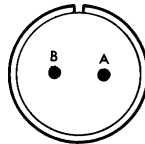
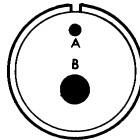
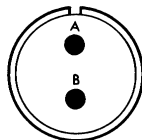
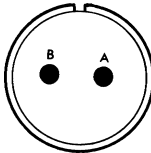
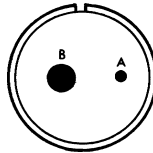
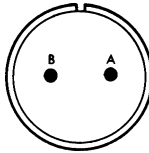
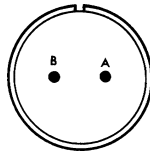
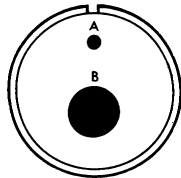
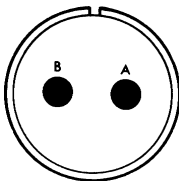
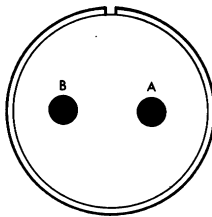
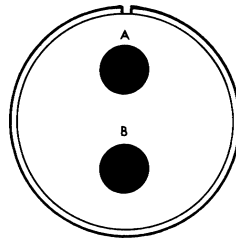
‡ = Military designation inactive for new design.

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INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

2 CONTACTS (CONT.)

					
	18-3†	18-14†	20-5†	20-12†	20-23†
CONTACTS	2-#12	1-#4 (A) 1-#16 (B)	2-#16	1-#16 (A) 1-#4 (B)	2-#8
RATING	D For new MIL equip. design, use 18-5	A	E	A For new MIL equip. design, use 18-14	A For new MIL equip. design, use 20-22
					
	22-1†	22-3†	22-8†	22-11†	24-1†
CONTACTS	2-#8	1-#16 (A) 1-#4 (B)	2-#12	2-#16	1-#12 (A) 1-#0 (B)
RATING	D For new MIL equip. design, use 22-2	D	E For new MIL equip. design, use 22-9	B	D
					
	24-9†	28-7†	32-5†		
CONTACTS	2-#4	2-#4	2-#0		
RATING	A For new MIL equip. design, use 24-12	D For new MIL equip. design, use 28-5	D For new MIL equip. design, use 32-1		

INSERT CONFIGURATIONS

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

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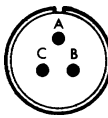
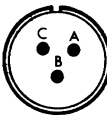
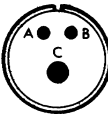
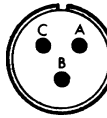
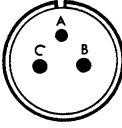
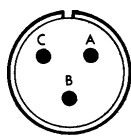
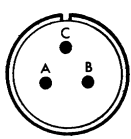
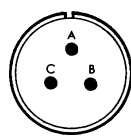
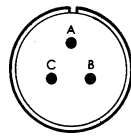
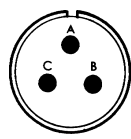
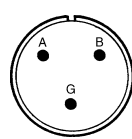
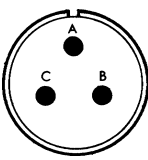
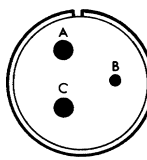
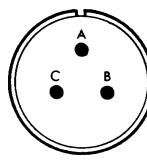
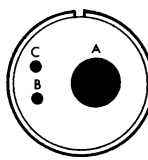
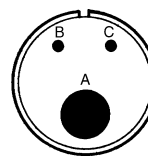
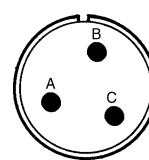
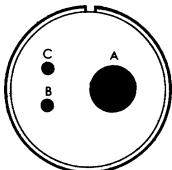
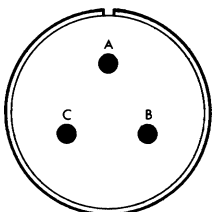
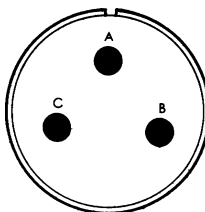
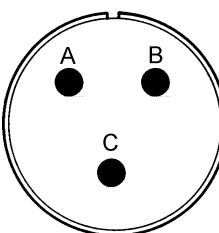
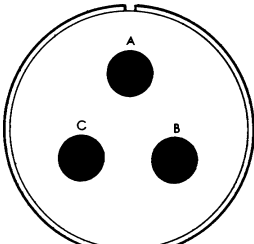
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MIL-DTL-5015

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

3 CONTACTS

							
CONTACTS	10SL-3† 3-#16	14S-1‡ 14S-7† 3-#16	16S-5‡ 3-#16	16S-6‡ 3-#16	16-7† 2-#16 (A, B) 1-#8 (C)	16-10† 3-#12	18-5† 1-#16 (A) 2-#12 (B, C)
RATING	A	A	A For new MIL equip. design, use 14S-7	A For new MIL equip. design, use 14S-7	A	A	D
							
CONTACTS	18-21‡ 3-#12	18-22‡ 3-#16	20-3‡ 3-#12	20-6‡ 3-#16	20-19‡ 3-#8	20-26‡ 3-#12	
RATING	A	D For new MIL equip. design, use 18-4	D For new MIL equip. design, use 20-4	D For new MIL equip. design, use 18-4	A For new MIL equip. design, use 20-22	A	
							
CONTACTS	22-2† 3-#8	22-6‡ 1-#16 (B) 2-#8 (A, C)	22-9† 3-#12	22-21† 2-#16 (B, C) 1-#0 (A)	22-25‡ 2-#16 (B, C) 1-#0 (A)	22-35‡ 3-#8	
RATING	D	D For new MIL equip. design, use 22-12	E	A	A	D	
							
CONTACTS	24-14‡ 2-#12 (B, C) 1-#0 (A)	28-3† 3-#8	28-6‡ 3-#4	32A3 3-#4	36-4‡ 3-#0		
RATING	A	E	D For new MIL equip. design, use 28-22	E	D (A); A (balance) For new MIL equip. design, use 36-3		

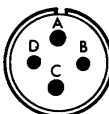
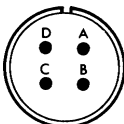
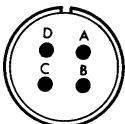
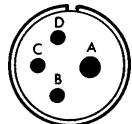
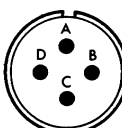
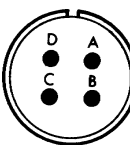
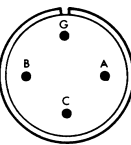
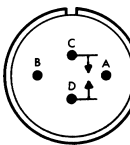
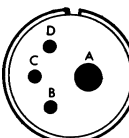
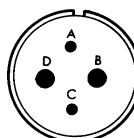
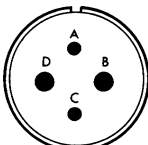
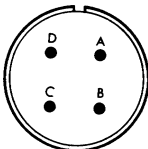
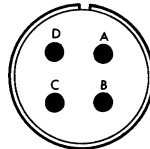
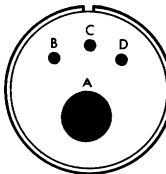
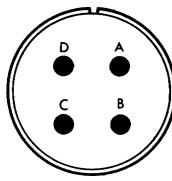
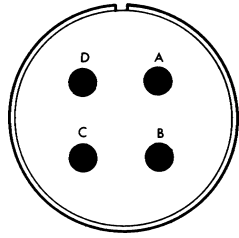
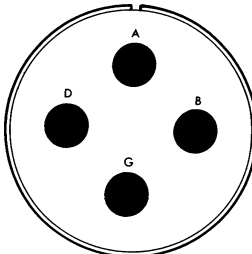
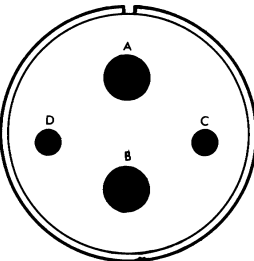
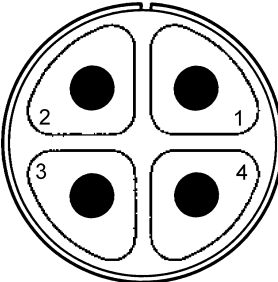
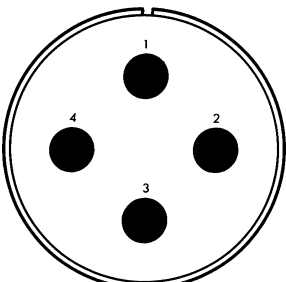
† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

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INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

4 CONTACTS							
CONTACTS	 12SA10 12S-2002-10 4-#16	 14S-2† 4-#16	 16-9† 2-#16 (B, D) 2-#12 (A, C)	 18-4† 4-#16	 18-10‡ 4-#12	 18-13† 3-#12 (B, C, D) 1-#8 (A)	
RATING	A	INST.	A	D	A For new MIL equip. design, use 18-11	A	
CONTACTS	 18-15† 4-#12 Thermocouple	 20-4† 4-#12	 20-10† 4-#16	 20-13† 4-#16	 20-20‡ 3-#12 (B, C, D) 1-#4 (A)	 20-24‡ 2-#16 (A, C) 2-#8 (B, D)	 22-4‡ 2-#12 (A, C) 2-#8 (B, D)
RATING	A	D	A	A	A	A For new MIL equip. design, use 20-14	
CONTACTS	 22-10† 4-#16	 22-22† 22B22★ 4-#8	 24-4† 3-#16 (B, C, D) 1-#0 (A)	 24-22† 4-#8	 32-17† 4-#4		
RATING	E	A	A	D	D		
CONTACTS	 36-5† 4-#0	 36-51 2-#4 (C, D) 2-#0 (A, B)	 40B4 4-#0	 40-57 4-#0			
RATING	A	D	E	E			

INSERT CONFIGURATIONS

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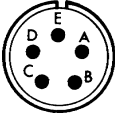
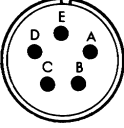
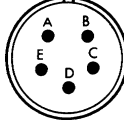
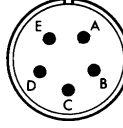
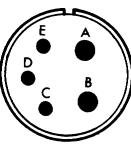
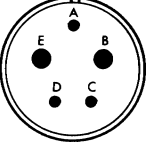
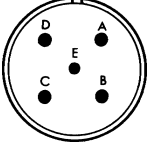
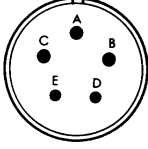
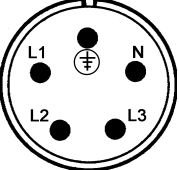
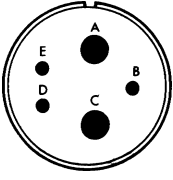
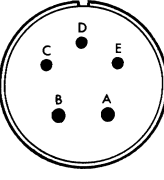
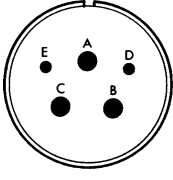
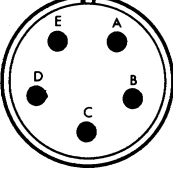
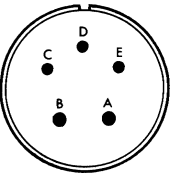
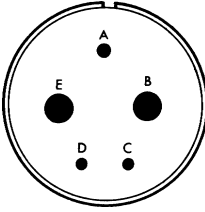
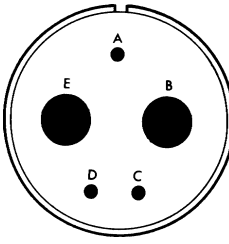
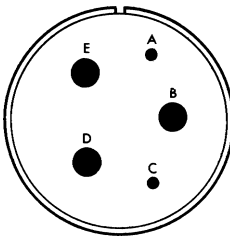
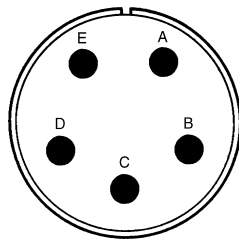
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MIL-DTL-5015

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

5 CONTACTS

					
CONTACTS	14S-5† 5-#16	16S-8‡ 5-#16	18-11† 5-#12	18-20‡ 5-#16	18-29‡ 5-#16
RATING	INST.	A	A	A For new MIL equip. design, use 16S-8	A For new MIL equip. design, use 16S-8
					
CONTACTS	20-14† 3-#12 (C, D, E) 2-#8 (A, B)	22-12‡ 3-#16 (A, C, D) 2-#8 (B, E)	22-13‡ 1-#16 (E) 4-#12 (A-D)	22-34‡ 2-#16 (D, E) 3-#12 (A, B, C)	24-G5 5-#8 Top pin is grounded
RATING	A	D	A (A, D); D (E) For new MIL equip. design, use 22-15	D	A
					
CONTACTS	24-12† 3-#12 (B, D, E) 2-#4 (A, C)	24-17‡ 3-#16 (C, D, E) 2-#12 (A, B)	24-23‡ 2-#16 (D, E) 3-#8 (A, B, C)	24-79 5-#8	24-620 3-#16 (C, D, E) 2-#12 (A, B)
RATING	A	D For new MIL equip. design, use 22-5	D	A	
					
CONTACTS	28-5† 2-#16 (C, D) 1-#12 (A) 2-#4 (B, E)	32-1† 3-#12 (A, C, D) 2-#10 (B, E)	32-2† 2-#16 (A, C) 3-#4 (B, D, E)	32-63† 5-#4	
RATING	D	E (A); D (balance)	E	D	

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

★ = VG95234

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

5 CONTACTS (CONT.)

CONTACTS	32-79 1-#8 (E) 4-#4 (A-D)	36-2‡ 2-#12 (A, C) 3-#0 (B, D, E)	40A3 2-#12 (A, D) 3-#0 (N, R, S)	40A5 1-#12 (E) 1-#4 (D) 3-#0 (A, B, C)
RATING	D	D For new MIL equip. design, use 36-3	D	D

6 CONTACTS

CONTACTS	14S-6† 6-#16	18A6 18-06 2-#16 (E, F) 4-#12 (A-D)	18-12† 6-#16	20-8† 4-#16 (B, C, E, F) 2-#8 (A, D)	20-22† 3-#16 (B, D, F) 3-#8 (A, C, E)	20-17† 1-#16 (F) 5-#12 (A-E)
RATING	INST.	A	A For new MIL equip. design, use 16S-1	INST.	A	A

CONTACTS	22-5† 4-#16 (A, C, D, F) 2-#12 (B, E)	22-15† 1-#16 (D) 5-#12 (A, B, C, E, F)	22-24† 4-#16 (A, C, D, E) 2-#12 (B, F)	24A-6 2-#8 (F, C) 4-#12 (A, B, E, D)	24-06 2-#16 (E, F) 4-#8 (A, B, C, D)
RATING	A (A, B, C, E, F)	A (A, B, C, E, F) E (D)	A (A, B, F); D (C, D, E) For new MIL equip. design, use 22-5	D	D

INSERT CONFIGURATIONS

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

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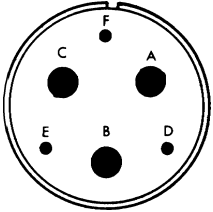
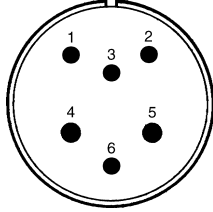
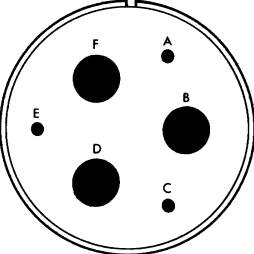
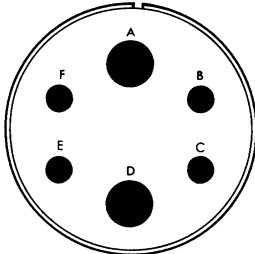
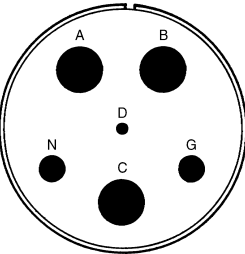
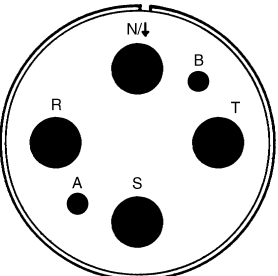
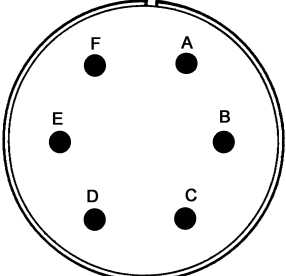
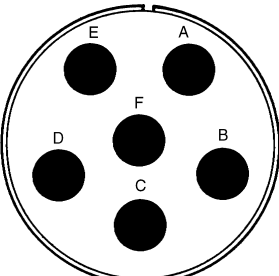
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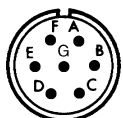
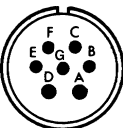
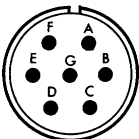
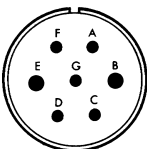
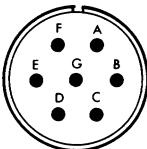
INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

6 CONTACTS (CONT.)

				
CONTACTS	28-22† 3-#16 (D, E, F) 3-#4 (A, B, C)	28-82‡ 4-#12 (1, 2, 3, 6) 2-#8 (4, 5)	36-3† 3-#12 (A, C, E) 3-#0 (B, D, F)	36-6† 4-#4 (B, C, E, F) 2-#0 (A, D)
RATING	D	D	D	A
				
CONTACTS	36A51 1-#16 (D) 2-#4 (G, N) 3-#0 (A, B, C)	40A4 2-#12 (A, B) 4-#0 (N, R, S, T)	40-A6 6-#12	40-60 6-#0
RATING	D	A	B	A

7 CONTACTS

						
CONTACTS	14SA7 14S-07 7-#16	16S-1† 7-#16	18-9‡ 5-#16 (B, C, E, F, G) 2-#12 (A, D)	20-15‡ 7-#12	22-26‡ 5-#16 (A, C, D, F, G) 2-#12 (B, E)	22-28‡ 7-#12
RATING	A	A	INST.	A	A	A For new MIL equip. design, use 22-33

† = Military designation per MIL-STD-1651. ‡ = Military designation inactive for new design. ★ = VG95234

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

7 CONTACTS (CONT.)

CONTACTS	22-29† 6-#16 (A, B, C, D, E, F) 1-#4 (G)	22-33‡ 7-#16	24-2† 7-#12	24-3‡ 5-#16 (A, C, F) 2-#12 (B, G)	24A7 24-07 7-#12
RATING	A	A (E-G); D (A-D)	D	D For new MIL equip. design, use 24-20	D
CONTACTS	24-10† 7-#8	24-16† 3-#16 (A, B, F) 3-#12 (C, D, E) 1-#8 (G)	24-27† 7-#16	24-66 7-#12	28-10† 3-#12 (A, F, G) 2-#8 (B, E) 2-#4 (C, D)
RATING	A	A (C-E); D (A, B, F, G)	E	A	D (G); A (balance)
CONTACTS	32-10‡ 3-#16 (A, F, G) 2-#8 (B, E) 2-#4 (C, D) 1-#4 (H)	32-14 5-#12 (B, D, E, F, H) 2-#4 (G, J)	40-87 7-#4		
RATING	A (C, D); B (G) D (B, E); E (A, F)	D	D		

INSERT CONFIGURATIONS

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

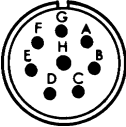
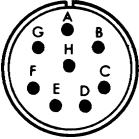
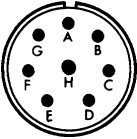
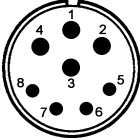
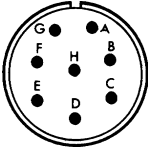
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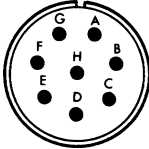
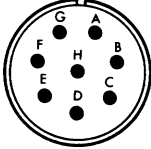
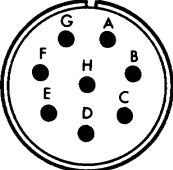
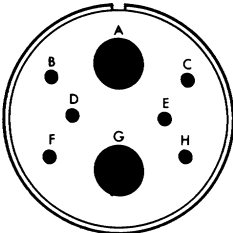
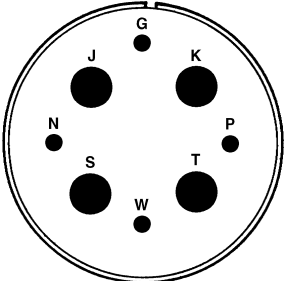
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INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

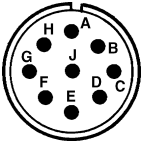
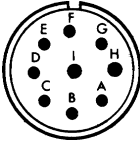
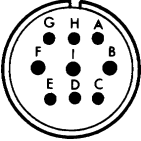
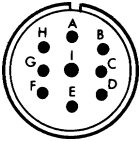
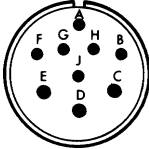
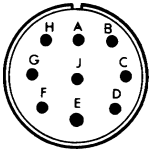
FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

8 CONTACTS

					
CONTACTS	18-8† 7-#16 (A-G) 1-#12 (H)	20-7‡ 8-#16	20-9‡ 7-#16 (A-G) 1-#12 (H)	20-B8 4-#16 (5-8) 4-#12 (1-4)	22-18‡ 8-#16
RATING	A	A (C-F) D (A, B, G, H)	A (A-G); D (H)	A	A (C-E) D (balance)

					
CONTACTS	22-23‡ 8-#12	22-36‡ 8-#12 Thermocouple	24-6† 8-#12	32-15† 6-#12 (B, F, H) 2-#0 (A, G)	40A10 4-#16 (G, N, P, W) 4-#4 (J, K, S, T)
RATING	D (H); A (balance)	A (A-G); D (H)	D (A, G, H) A (balance)	D	D

9 CONTACTS

						
CONTACTS	20A9 9-#12	20-16† 7-#16 (A-G) 2-#12 (H, I)	20-18† 6-#16 (A, C, D, E, G, H) 3-#12 (B, F, I)	20-21† 6-#16 (A-H) 1-#12 (I)	22-16† 6-#16 (A, B, F-J) 3-#12 (C, D, E)	22-17† 8-#16 (A-D, F-J) 1-#12 (E)
RATING	D (J) A (balance)	A	A	A	A For new MIL equip. design, use 20-18	D (A); A (balance)

† = Military designation per MIL-STD-1651.

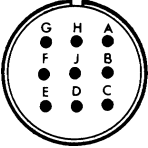
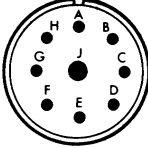
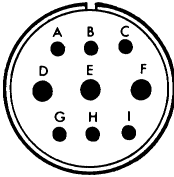
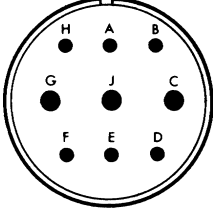
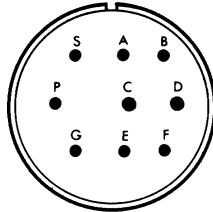
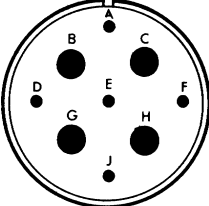
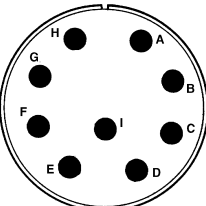
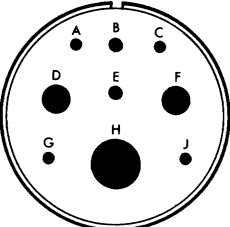
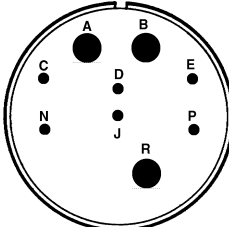
‡ = Military designation inactive for new design.

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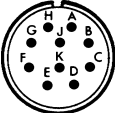
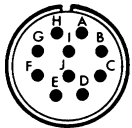
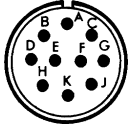
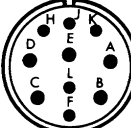
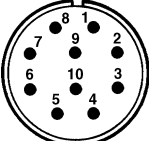
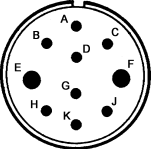
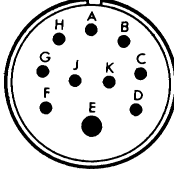
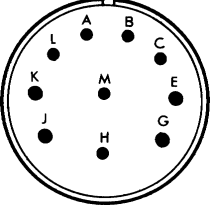
INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

9 CONTACTS (CONT.)

					
	22-20†	22-27†	24-11†	28-1†	28-4†
CONTACTS	9-#16	8-#16 (A-H) 1-#8 (J)	6-#12 (A-C, G-I) 3-#8 (D, E, F)	6-#12 (A, B, D, E, F, H) 3-#8 (C, J, G)	7-#16 (A, B, E, F, G, P, S) 2-#12 (C, D)
RATING	A For new MIL equip. design, use 20-33	D (J); A (balance)	A	D (A, E, J) A (balance)	E (G, P, S) D (balance)
					
	28A9 28-09	28-84	32-3†	32-689	
CONTACTS	5-#16 (A,D,E,F,J) 4-#4 (B,C,G,H)	9-#8	4-#16 (A, C, G, J) 2-#12 (B, E) 2-#4 (D, F), 1-#0 (H)	6-#16 (C,D,E,J,N,P) 3-#4 (A,B,R)	
RATING	A	A	D	A	

10 CONTACTS

					
	16A10	18-1†	18-19‡	20-58	22A10
CONTACTS	10-#18	10-#16	10-#16	5-#16 (F-L) 5-#12 (A-E)	10-#16
RATING	A	A (B, C, F, G) INST. (balance)	A For new MIL equip. design, use 18-1	A	A
					
	22-82	24-21†	28-19 †		
CONTACTS	8-#16 (A-D,G-K) 2-#8 (E,F)	9-#16 (A-D, F-K) 1-#8 (E)	6-#16 (A, B, C, H, L, M) 4-#12 (E, G, J, K)		
RATING	A	D	A (C, E, G, J, K, L) B (H, M); D (A, B)		

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

★ = VG95234

INSERT CONFIGURATIONS



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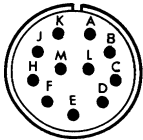
North Las Vegas, NV 89032
Fax: 702-851-7620
Web: www.spacecraft.com

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INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

11 CONTACTS



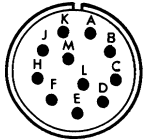
20-31†

11-#16

CONTACTS

RATING

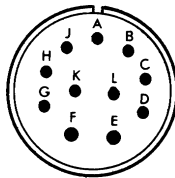
A



20-33†

11-#16

A

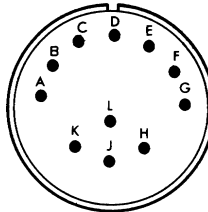


24-20†

9-#16 (A-D, G-L)
2-#12 (E, F)

D

For new MIL equip.
design, use 28-2

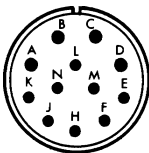


28-14‡

11-#16

D

12 CONTACTS



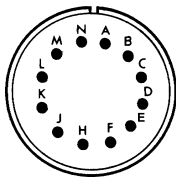
22-63

8-#16 (E-L)
4-#12 (A-D)

CONTACTS

RATING

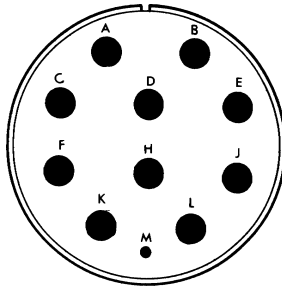
A



24-19‡

12-#16

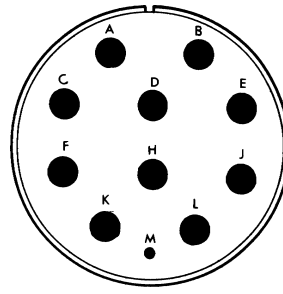
A



40-67

1-#16 (M)
10-#4 (A-L)

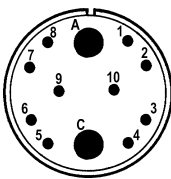
A



40-80

1-#16 (M)
10-#4 (A-L)

A



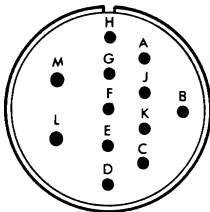
24S12

10-#16 (1-10)
2-#4 (A,C)

CONTACTS

RATING

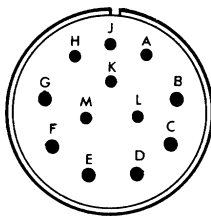
A



28-8†

10-#16 (A-K)
2-#12 (L, M)

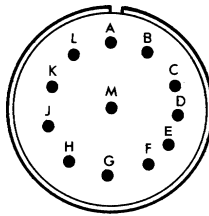
D (B); E (L, M)
A (balance)



28-9†

6-#16 (A, H, M)
6-#12 (B-G)

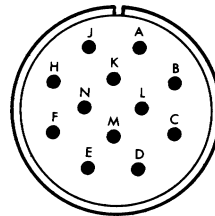
D



28-18†

12-#16

A (A, B); C (M)
D (G, L); INST. (C-F)



28-51

12-#12

A

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

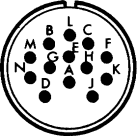
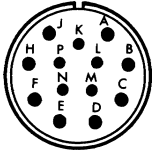
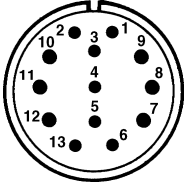
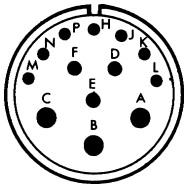
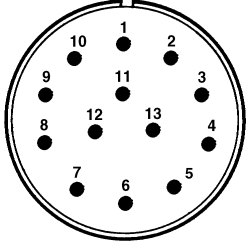
★ = VG95234



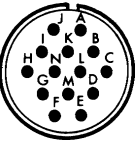
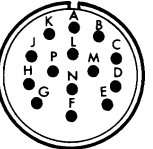
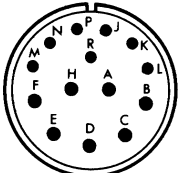
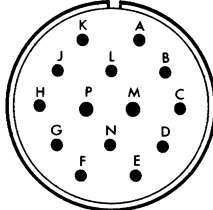
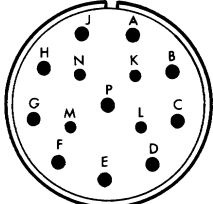
INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

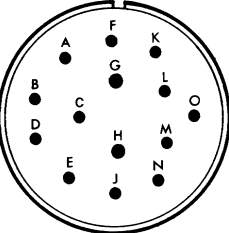
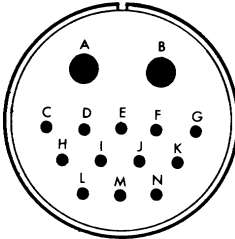
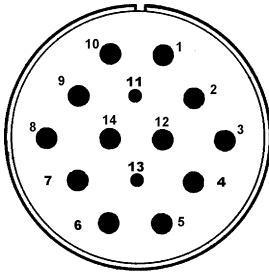
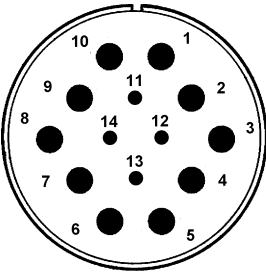
FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

13 CONTACTS

					
	20-11†	22-70	24A13 24-013	24-58	32A13 32-013
CONTACTS	13-#16	5-#16 (K-P) 8-#12 (A-J)	7-#16 (1-6, 13) 6-#12 (7-12)	7-#16 (H-P) 3-#12 (D, E, F); 3-#8 (A, B, C)	13-#12
RATING	INST.		A		D

14 CONTACTS

					
	20-27†	22-19†	24-59	28-2†	28-20†
CONTACTS	14-#16	14-#16	7-#16 (J-R) 7-#12 (A-H)	12-#16 (A, L, N) 2-#12 (M, P)	4-#16 (K-N) 10-#12 (A-J, P)
RATING	A	A	A	D	A

				
	32-4‡	32-9‡	36B78	36D78
CONTACTS	12-#16 (A-F, J-O) 2-#12 (G, H)	12-#16 (C-N) 2-#4 (A, B)	2-#16 (11, 13) 12-#8 (1-10, 12, 14,)	4-#16 (11-14) 10-#8 (1-10)
RATING	A (F, J, K, N,) D (balance)	D For new MIL equip. design, use 28-2	D	D

INSERT CONFIGURATIONS

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

★ = VG95234



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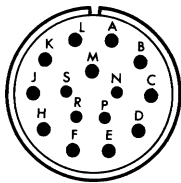
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INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

15 CONTACTS



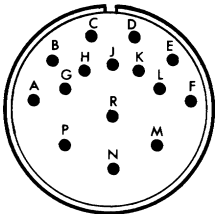
24-65

4-#16 (N-S)
11-#12 (A-M)

CONTACTS

RATING

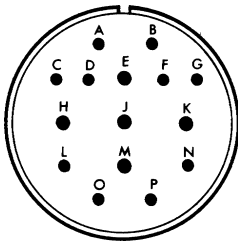
A



28-17†

15-#16

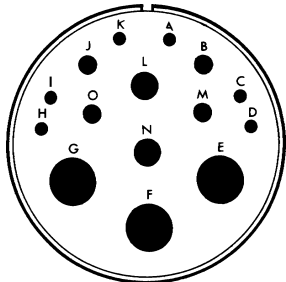
A (A-L); B (R)
D (M-P)



32-12‡

10-#16 (A-D, F, G, L, N-P)
5-#12 (E, H, J, K, M)

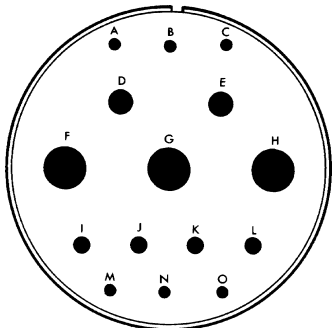
A (C-G); D (balance)
For new MIL equip.
design, use 32-13



40-5†

6-#12 (C, D, H, I, K)
4-#8 (B, J, M, O)
2-#4(L, N), 3-#0 (E, F, G)

D



48-1†

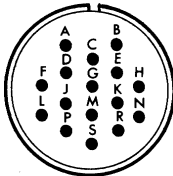
6-#12 (A-C, M-O)
4-#8 (I-L), 2-#4 (D,E)
3-#0 (F-H)

CONTACTS

RATING

E (B, N); D (balance)

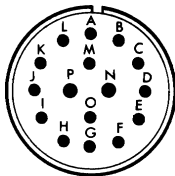
16 CONTACTS



24-5‡

16-#16

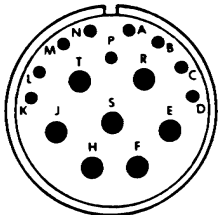
A
For new MIL equip.
design, use 22-14



24-7†

14-#16 (A-M,O)
2-#12 (N-P)

A



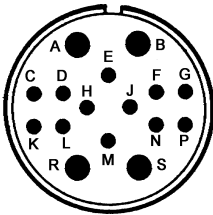
28-79

9-#16 (A-D, K-P)
7-#8 (J, R, S, T)

CONTACTS

RATING

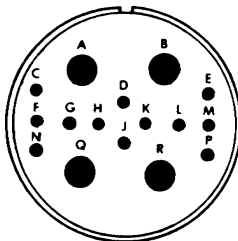
A



28-124

12-#16 (C-P)
4-#8, (A,B,R,S)

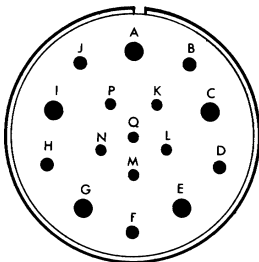
A



32-68

12-#16 (C-P)
4-#4, (A,B,Q,R)

A



36-14 ‡

6-#16 (K-Q)
5-#12 (B, D, F, H, J)
5-#8 (A, C, E, G, I)

D

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

★ = VG95234



INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

17 CONTACTS

CONTACTS	20-29† 17-#16	28-59 10-#16 (J-U) 7-#12 (A-H)	36-13‡ 14-#16 (A-K, N-S) 2-#12 (L, M)	36-19‡ 10-#16 (H-Q) 5-#12 (B-D, F, G) 1-#4 (A), 1-#0 (E)
RATING	A	A	E (N-Q); A (balance)	D

19 CONTACTS

CONTACTS	20A48 19-#16	22-14‡ 19-#16	24-67 19-#12	32-76 19-#12	40B19 19-#8
RATING	I	A	INST.	A	A

20 CONTACTS

21 CONTACTS

22 CONTACTS

CONTACTS	28-16‡ 20-#16	40-68 21-#8	28-11† 18-#16 (A-I, N-X) 4-#12 (J-M)	32B22 20-#16 (1-10, 13-22) 2-#4 (11, 12)
RATING	A For new MIL equip. design, use 28-12	A	A	A

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

★ = VG95234

INSERT CONFIGURATIONS



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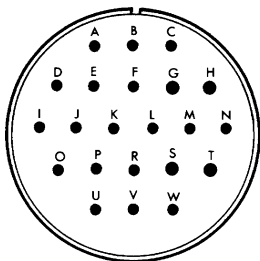
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MIL-DTL-5015

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

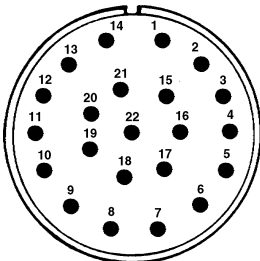
FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

22 CONTACTS (CONT.)

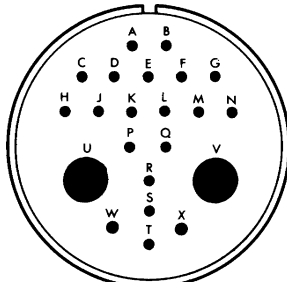


36-1†

18-#16 (A-F, I-R, U-W)
4-#12 (G, H, S, T)



36-22
36A22
22-#12



40-7†

18-#16 (A-T), 2-#12 (W, X)
2-#0 (U, V)

CONTACTS

RATING

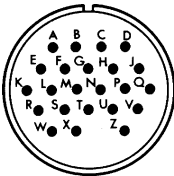
D

For new MIL equip.
design, use 32-13

D

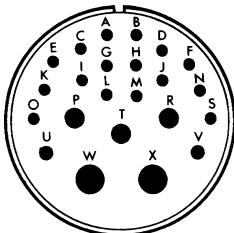
A (P, Q, U-X); D (balance)

23 CONTACTS



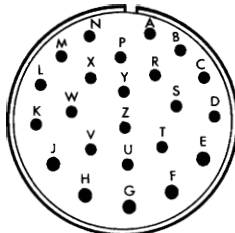
24-80†

23-#16



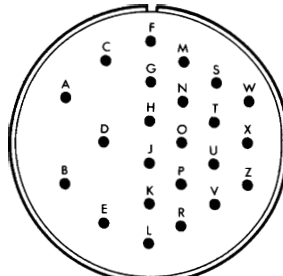
32-6†

16-#16 (A-O, S) 2-#12 (U, V)
3-#8 (P-T), 2-#4 (W, X)



32-13†

18-#16 (A-D, K-Z)
5-#12 (E-J)



40-2†

23-#16

CONTACTS

RATING

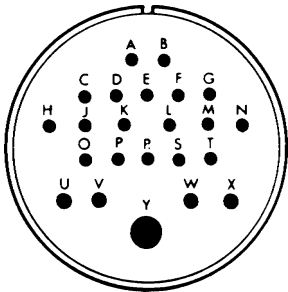
INST.

A

D

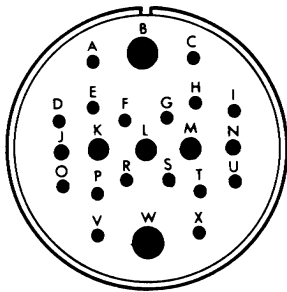
B (A-E); D (balance)

24 CONTACTS



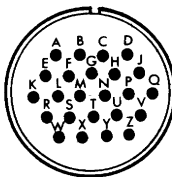
40-3†

18-#16 (A-T)
4-#12 (U-X); 1-#4 (Y)



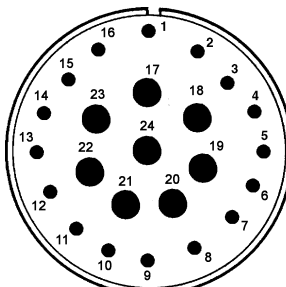
40-4†

16-#16 (A, C-I, O-V, X)
2-#12 (J, N);
3-#8 (K, L, M); 2-#4 (B, W)



24-28†

24-#16



40-A24

16-#12 (1-16)
8-#8 (17-24)

CONTACTS

RATING

D

D

INST.

D

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

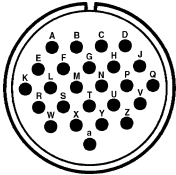
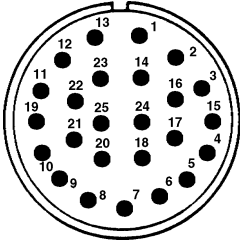
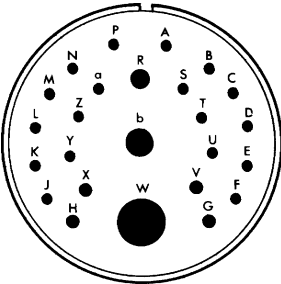
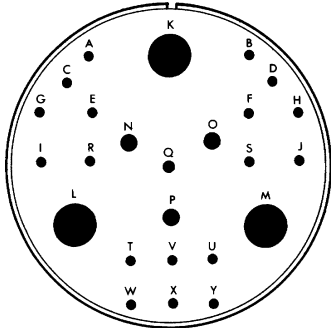
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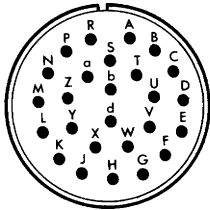
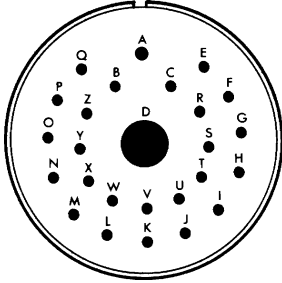
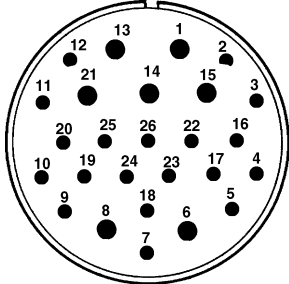
INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

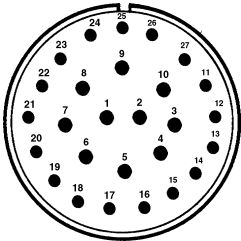
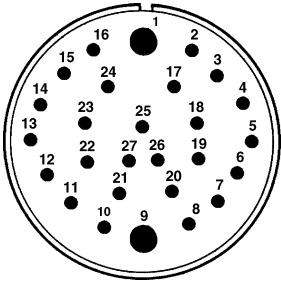
25 CONTACTS

				
	24A25	32A25	40-11†	48-3†
CONTACTS	24-#16	25-#12	18-#16 (A-F, J-P, S-U, Y, Z a) 4-#12 (G, H, V, X) 1-#8 (R), 1-#4 (b), 1-#0 (W)	18-#16 (A-J, R-Y) 1-#12 (Q), 3-#8 (N-P) 3-#0 (K-M)
RATING	A	A	D	D

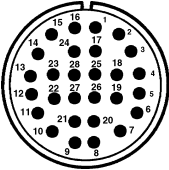
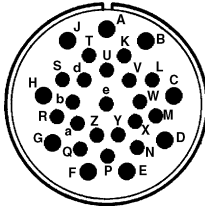
26 CONTACTS

			
	28-12†	40-6†	40-26
CONTACTS	26-#16	24-#16 (B, C, E, Z) 1-#12 (A), 1-#0 (D)	19-#12 (2-5, 7, 9-12, 16-20, 22-26) 7-#8 (1, 6, 8, 13-15, 21)
RATING	A	D	A

27 CONTACTS

		
	32A27	40A27
CONTACTS	10-#12 (1-10) 17-#16 (11-27)	25-#12 (2 thru 8, 10 thru 27) 2-#4 (1, 9)
RATING	A	D

28 CONTACTS

		
	24A28	28A63
CONTACTS	28-#16	19-#16 (K-e) 9-#12 (A-H)
RATING	I	A (e) I (balance)

INSERT CONFIGURATIONS

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

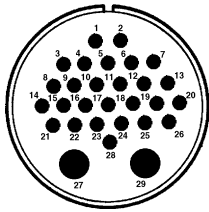
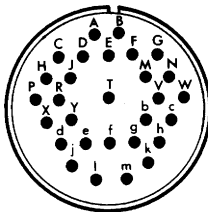
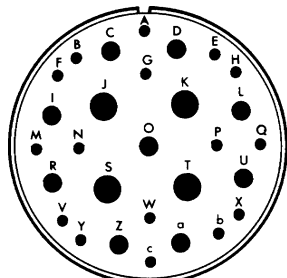
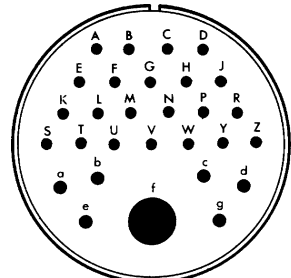
★ = VG95234

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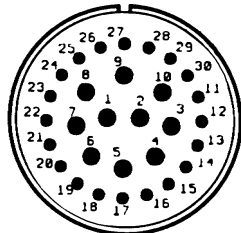
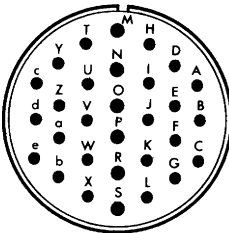
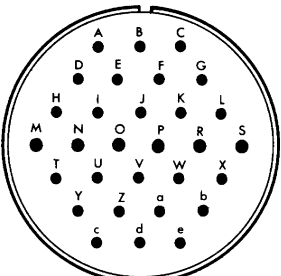
INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

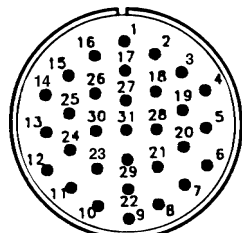
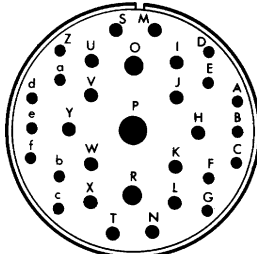
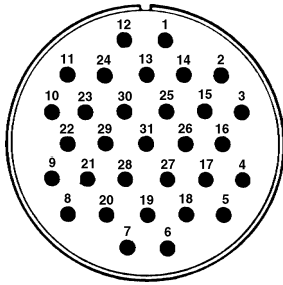
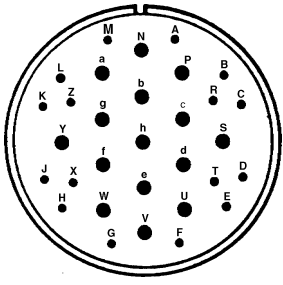
29 CONTACTS

			
28-A29	28A55	40-10†	40-12‡
CONTACTS 27-#16 (1-26,28) 2-#8 (27,29)	CONTACTS 29-#16	CONTACTS 16-#16 (A, B, E-H, M, N, P, Q, V-Y, b, c) 9-#8 (C, D, I, L, O, R, U, z, a) 4-#4 (J, K, S, T)	CONTACTS 22-#16 (A-Z) 6-#12 (a-e, g), 1-#0 (f)
RATING D	RATING A	RATING A	RATING D

30 CONTACTS

		
32A30	32-8†	40-1†
CONTACTS 20-#16 (11-30) 10-#12 (1-10)	CONTACTS 24-#16 (A-L, T-Z, a-e) 6-#12 (M-S)	CONTACTS 24-#16 (A-L, T-e) 6-#12 (M-S)
RATING A	RATING A For new MIL equip. design, use 32-7	RATING D

31 CONTACTS

			
32-31	36-9†	40-31	40A51
CONTACTS 31-#16	CONTACTS 14-#16 (A-G, Z-f) 14-#12 (H-N, S-Y) 2-#8 (O, R), 1-#4 (P)	CONTACTS 31-#12	CONTACTS 16-#16 (A-M,R,T,X,Z) 15-#8 (N,P,S,U-W,Y,a-h)
RATING A	RATING A	RATING D	RATING A

† = Military designation per MIL-STD-1651. ‡ = Military designation inactive for new design. ★ = VG95234

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

	31 CONTACTS (CONT.)	32 CONTACTS	34 CONTACTS
CONTACTS	44-2† 14-#16 (A-G, Z-f) 14-#12 (H-N, S-Y) 2-#8 (O,R), 1-#4 (P)	40-14‡ 21-#16 (A-D, L-U, Y-d, g, h, j) 10-#12 (E-K, V, X, e, f) 1-#0 (W)	36-20‡ 30-#16 (A-g) 2-#12 (h-j) 2-#8 (k, m)
RATING	D	D	A

	35 CONTACTS
CONTACTS	28-15† 35-#16
RATING	A For new MIL equip. design, use 28-21

CONTACTS	28A35 35-#16
RATING	A

CONTACTS	32-7† 28-#16 (A-N, W-Z, a-k) 7-#12 (O-V)
RATING	INST. (A,B,h,j) A (balance)

CONTACTS	36-15† 35-#16
RATING	D (m); A (balance)

CONTACTS	40-35 35-#12
RATING	D

	36 CONTACTS
CONTACTS	36-35 4-#8 (d, f, X, Z) 32-#16 (A-W, Y, a,b,c,e,g-n)
RATING	A

CONTACTS	22A37 37-#18
RATING	A

CONTACTS	28-21† 37-#16
RATING	A

CONTACTS	48-53 37-#12
RATING	D

† = Military designation per MIL-STD-1651.

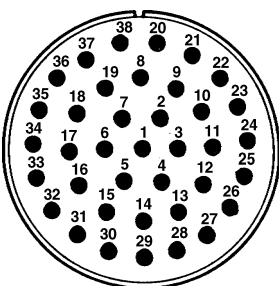
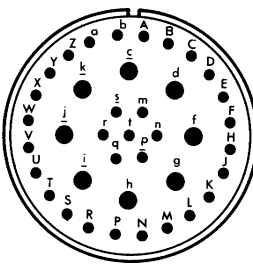
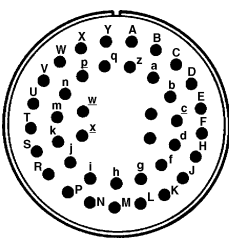
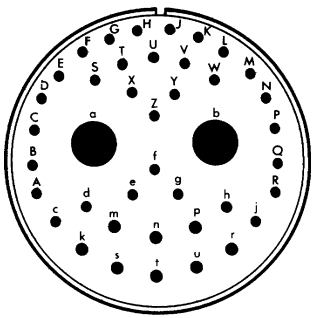
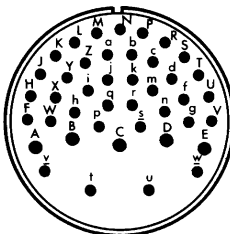
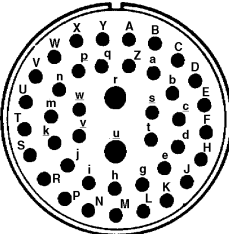
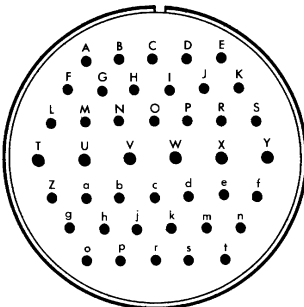
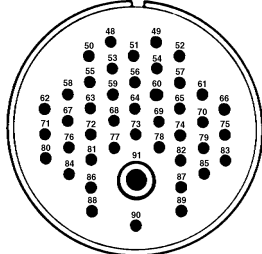
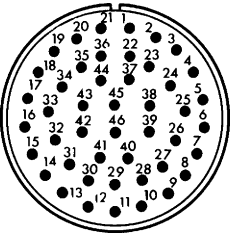
‡ = Military designation inactive for new design.

★ = VG95234

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INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

	38 CONTACTS	39 CONTACTS	40 CONTACTS	41 CONTACTS
				
	40A38	36-54	32A40	44-4†
CONTACTS	38-#12	31-#16 (A-b, m-t) 8-#8 (c-k)	40-#16	31-#16 (A-Z, c, i) 8-#12 (k-u), 2-#0 (a, b)
RATING	A	A	A	D
	42 CONTACTS			
				
	32-53	32-59	44-1†	
CONTACTS	37-#16 (F-w) 5-#12 (A-E)	2-#8 (r, u) 40-#16 (balance)	36-#16 (A-S, Z-t) 6-#12 (T-Y)	
RATING	E (t,u); INST. (balance)	A	D	
	44 CONTACTS	46 CONTACTS		
				
	36-74	32-73†		
CONTACTS	43-#16 (48-90) 1-#8	46-#16		
RATING	A	A		

† = Military designation per MIL-STD-1651.

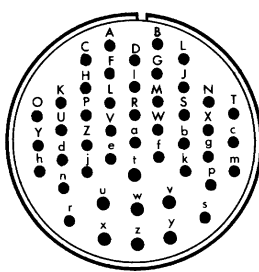
‡ = Military designation inactive for new design.

★ = VG95234

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

47 CONTACTS



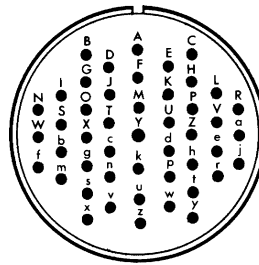
36-7†

4-#16 (A-Z, a-s)
7-#12 (t-z)

CONTACTS

RATING

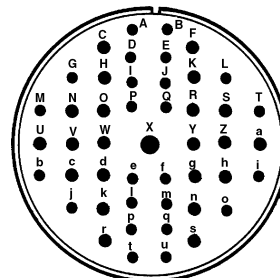
A



36-8†

46-#16 (A-X, Z-z)
1-#12 (Y)

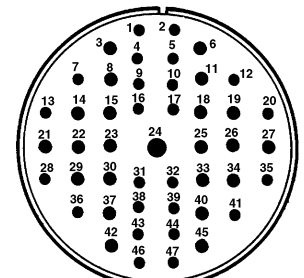
A



40-9†

24-#16 (A, B, D, E, G, I, J, L, M, P, Q, T, b, e, f,
i, j, l, m, o, p, q, t, u) 22-#12 (C, F, H, K, N, O,
R, S, U-W, Y, Z, a, c, d, g, h, k, n, r, s), 1-#8 (X)

A

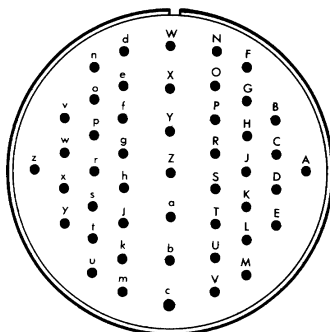


40-47

24-#16 (1,2,4,5,7,9,10,12,13,16,17,20,28,
31,32,25, 38,39,44 ,43,44,46,47)
22-#12 (3,6,8,11,14,15,18,19,21,22,23,25,26,
27,29,30,33,34,37,40,42,45) 1-#8 (24)

A

48 CONTACTS



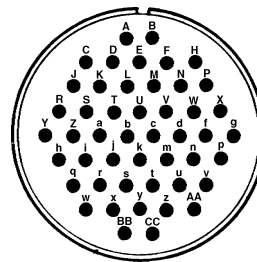
48-2†

46-#16 (A-b, d-z)
1-#12 (c)

CONTACTS

RATING

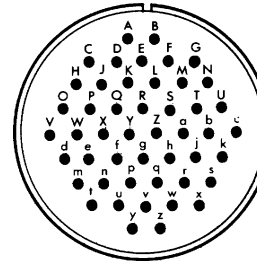
E (W-b); D (balance)



32A48

48-#16

I

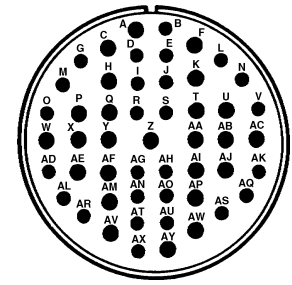


36-10†

48-#16

A

51 CONTACTS



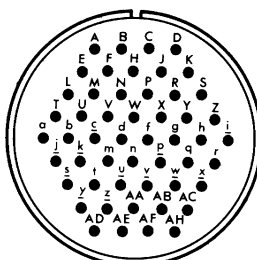
40-951 (A,P)

25-#12 (A,C,F,H,K,P,Q,T,U,W-AC,
AE,AF,AI,AJ,AM,AP,AV,AW)
26-#16 (balance)

A

INSERT CONFIGURATIONS

52 CONTACTS



36-52†

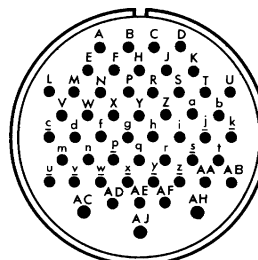
52-#16

CONTACTS

RATING

A

53 CONTACTS

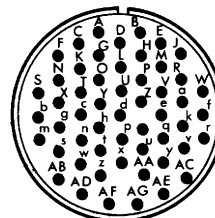


36-71

50-#16 (A-AB, AD-AF)
3-#12 (AC, AH, AJ)

A

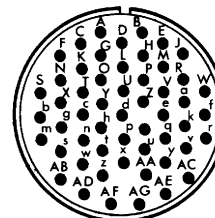
54 CONTACTS



32-22†

54-#16

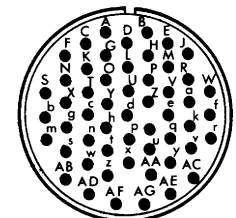
A



32-64

54-#16

INST.



32-88

54-#16

A

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

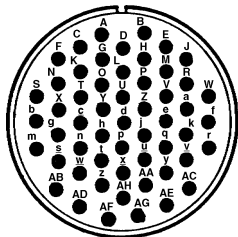
★ = VG95234

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INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

55 CONTACTS



32A55

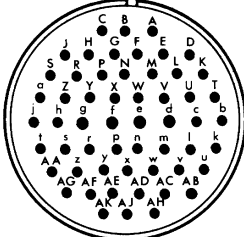
55-#16

CONTACTS

RATING

A

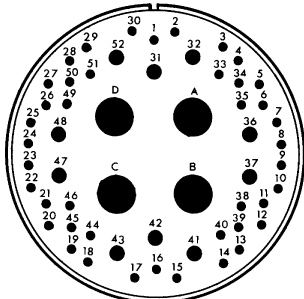
56 CONTACTS



36-66†

52-#16 (A-c, h-AH)
4-#12 (d, e, f, g)

A

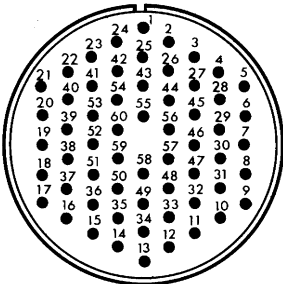


48-57

42-#16 (1-30, 33-35, 38-40, 44-46,
49-51) 10-#8 (31, 32, 36, 37, 41-43,
47, 48, 52) 4-#0 (A-D)

A

60 CONTACTS



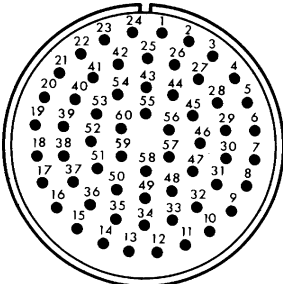
40S27

60-#16

CONTACTS

RATING

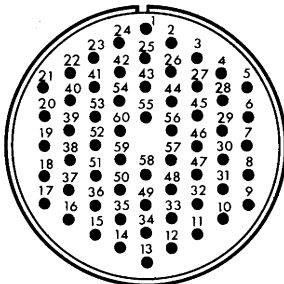
A



40-53

60-#16

A

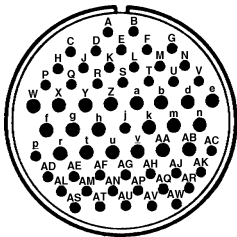


40-62

60-#16

A

61 CONTACTS



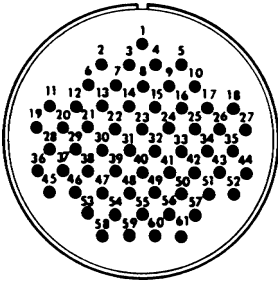
32A69★

41-#18 (A-V, AC-AW, j, p)
20-#16 (W-Z, AA, AB, A-V)

CONTACTS

RATING

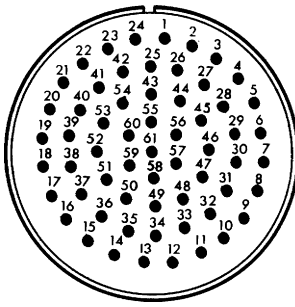
I



40-70

61-#16

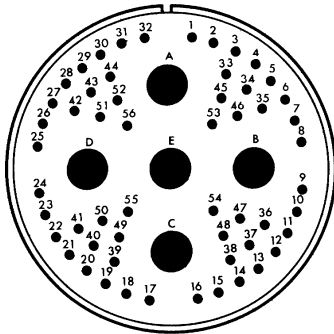
A



40-63

61-#16

A



48-52

56-#16 (1-56)
5-#0 (A-E)

A

† = Military designation per MIL-STD-1651.

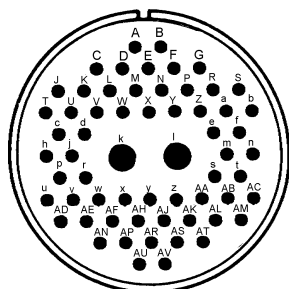
‡ = Military designation inactive for new design.

★ = VG95234

INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

62 CONTACTS



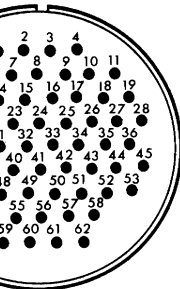
40A62

62-#16

CONTACTS

RATING

A

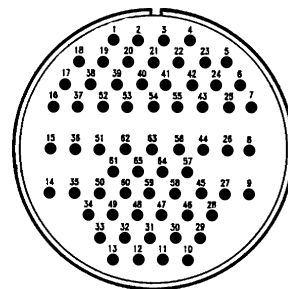


40-82

62-#16

A

65 CONTACTS

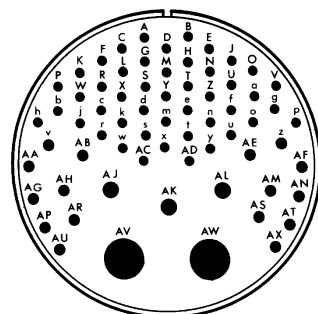


40A65

65-#16

A

68 CONTACTS



48-4†

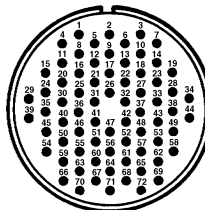
47-#16 (A-u, w, y, AC, AD)
16-#12 (v, z, AA, AB, AE-AH, AM-AU, AX)
3-#8 (AJ-AL, 2-#0 (AV, AW)

CONTACTS

RATING

D (AJ-AL, AV, AW); A (balance)

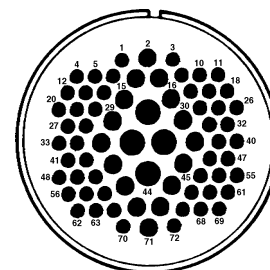
72 CONTACTS



28-72

72-#20

I

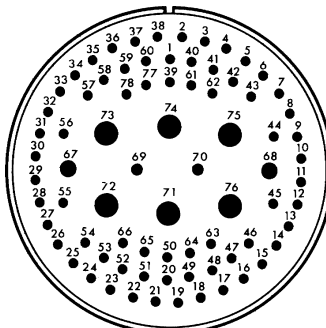


36-A72

52-#18 (balance)
16-#16 (2,7,8,15,16,29,30,35,38,43,45,51,52,65,66,71)
4-#12 (23,36,37,44)

I

78 CONTACTS



48-55

68-#16 (1-66, 77, 78)
2-#12 (69, 70); 2-#8 (67, 68)
6-#4 (71-76)

CONTACTS

RATING

A

† = Military designation per MIL-STD-1651.

‡ = Military designation inactive for new design.

★ = VG95234



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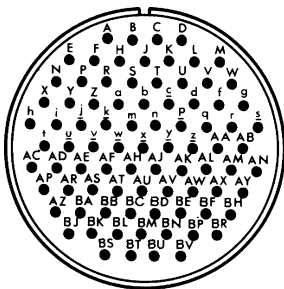
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Web: www.spacecraft.com

MIL-DTL-5015

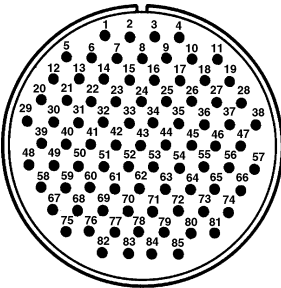
INSERT CONFIGURATIONS BY NUMBER OF CONTACTS

FACE VIEW OF PIN INSERTS SHOWN APPROXIMATELY 3/4 ACTUAL SIZE

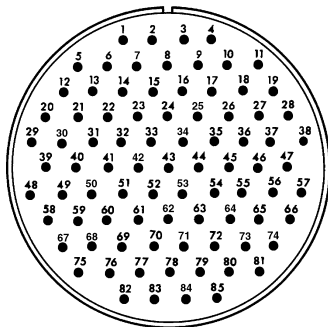
85 CONTACTS



40-56†
85-#16



40A56
40N56
85-#16



48-62†
85-#16

CONTACTS

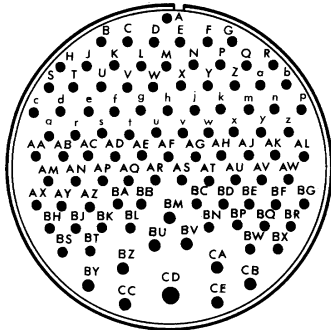
RATING

A

A

D

100 CONTACTS



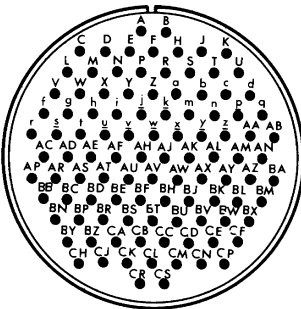
48-5‡
90-#16 (A-BL, BN-BT, BW, BX)
9-#12 (BM, BU, BV, BY-CC, CE)
1-#8 (CD)

CONTACTS

RATING

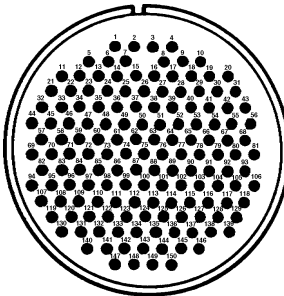
A

104 CONTACTS



44-52†
104-#16

150 CONTACTS



40-150
40A150
150-#18

RATING

A

I

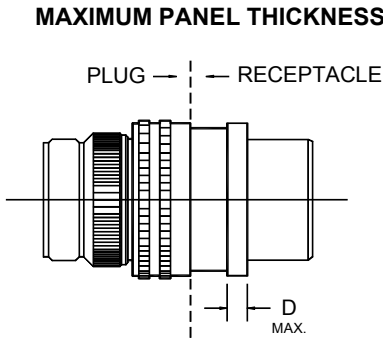
† = Military designation per MIL-STD-1651. ‡ = Military designation inactive for new design. ★ = VG95234

SECTION 5C ACCESSORIES RECEPTACLE MOUNTING DATA

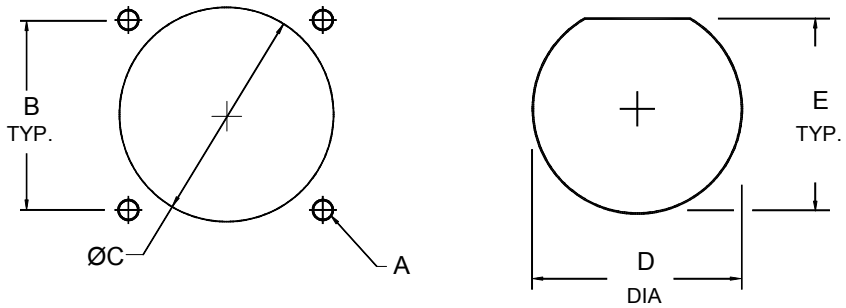


MOUNTING DATA FOR RECEPTACLES

MAXIMUM PANEL THICKNESS



PANEL CUT-OUT DIMENSIONS



SHELL SIZE	D		
	00,02 020,26	03 030,038	TB SERIES
10SL	.146 [3.70]	.283 [7.20]	.393 [10.0]
14S	.146 [3.70]	.283 [7.20]	.378 [9.60]
16S	.146 [3.70]	.283 [7.20]	.378 [9.60]
16	.146 [3.70]	.295 [7.50]	.543 [13.8]
18	.146 [3.70]	.295 [7.50]	.512 [13.0]
20	.146 [3.70]	.295 [7.50]	.512 [13.0]
22	.146 [3.70]	.295 [7.50]	.512 [13.0]
24	.207 [5.25]	.295 [7.50]	.449 [11.4]
28	.207 [5.25]	.323 [8.20]	.488 [12.4]
32	.241 [6.10]	.295 [7.50]	.354 [9.0]
36	.241 [6.10]	.295 [7.50]	.354 [9.0]
40	.237 [6.00]	.295 [7.50]	.354 [9.0]

DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.

SHELL SIZE	A	B ±.004	C DIAMETER		D	E
	00,02,020 03,030	00,02,020 03,030	FRONT MOUNT 00,02,020	REAR MOUNT 03,030	JAMNUT 07,070	JAMUNT 07,070
10SL	.126	.717	.6875	.750	.875	.83
14S	.126	.906	.8125	1.000	1.125	1.08
16S/16	.126	.969	.9375	1.125	1.250	1.21
18	.126	1.063	1.0625	1.250	1.375	1.32
20	.126	1.157	1.1875	1.375	1.500	1.45
22	.126	1.252	1.3125	1.500	1.625	1.57
24	.146	1.374	1.4375	1.625	1.750	1.70
28	.146	1.563	1.6875	1.875	2.000	1.95
32	.169	1.752	1.9375	2.125	2.250	2.20
28	.169	1.937	2.125	2.375	2.500	2.45
32	.169	2.185	2.375	2.625	2.750	2.70

MOUNTING2

GROMMET HOLE SEALING RANGE

HOLE SIZE	SEALING RANGE
18-20	.039-.082 (1.0-2.1)
16	.090-.118 (2.3-3.0)
12	.126-.177 (3.2-4.5)
8	.150-.256 (3.8-6.5)
4	.279-.366 (7.1-9.3)
0	.394-.539 (10.0-13.7)

SC56

RECOMMENDED TORQUE FORCES CONNECTOR BACKSHELLS

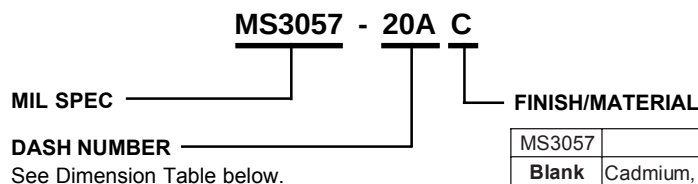
SIZE	IN/LB MAX.	SIZE	IN/LB MAX.
10SL	26	22	85
14S	44	24	90
16	50	28	114
16S	50	32	120
18	55	36	153
20	65	40	170

Torque

MS3057-*A

CABLE CLAMP

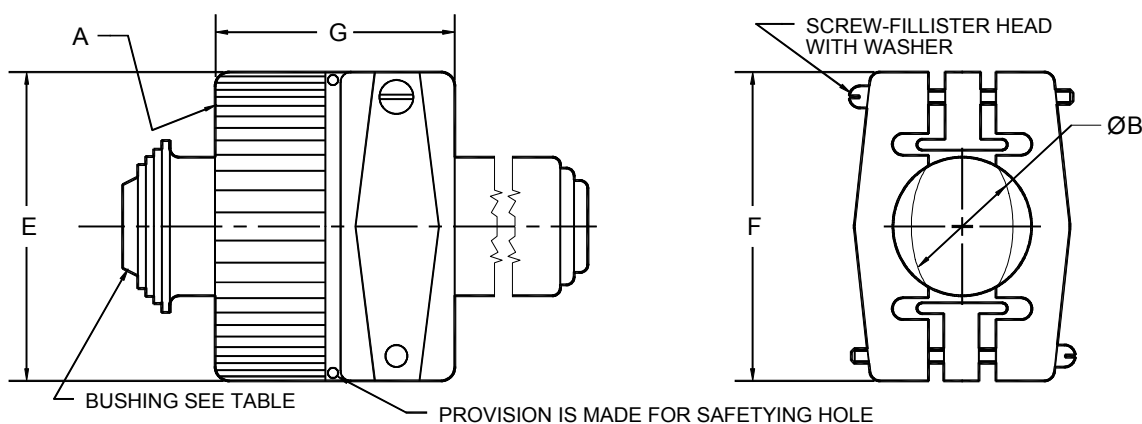
FOR ALL SERIES HAVING A THREADED BACKSHELL



MS3057	FINISH	MATERIAL
Blank	Cadmium, olive drab 48 hr. salt spray	Aluminum alloy
A	Cadmium, olive drab over suitable underplate, 1000 hr. salt spray	
C	Cadmium, olive drab, 48 hr salt spray	
N	Electroless nickel	

SCFM28

Note: Bushing can be "telescoped" to achieve a smaller sealing diameter.



DASH NO.	CONNECTOR SHELL SIZE (REF)	A THREAD CLASS 2B	B MAX	ØE ±.031 [±0.79]	F ±.031 [±0.79]	G ±.031 [±0.79]	BUSHING (REF) (a)
-3A	8S & 10S	.500-28 UNEF	.250 [6.35]	.688 [17.48]	.812 [20.62]	.812 [20.62]	MS3420-3
-4A	10SL, 12S & 12	.625-24 UNEF	.312 [7.92]	.812 [20.62]	.875 [22.22]		MS3420-4
-6A	14S & 14	.750-20 UNEF	.438 [11.13]	.969 [24.61]	1.062 [26.97]	.875 [22.22]	MS3420-6
-8A	16S & 16	.875-20 UNEF	.562 [14.27]	1.094 [27.79]	1.156 [29.36]	.938 [23.83]	MS3420-8
-10A	18	1.000-20 UNEF	.625 [15.87]	1.188 [30.18]	1.250 [31.75]		MS3420-10
-12A	20 & 22	1.188-20 UNEF	.750 [19.05]	1.375 [34.92]	1.469 [37.31]		MS3420-12
-16A	24 & 28	1.438-18 UNEF	.938 [23.83]	1.656 [42.06]	1.688 [42.88]	1.031 [26.19]	MS3420-16
-20A	32	1.750-18 UNS	1.250 [31.75]	2.031 [51.59]	2.031 [51.59]	1.094 [27.79]	MS3420-20
-24A	36	2.000-18 UNS	1.375 [34.92]	2.219 [56.36]	2.281 [57.94]	1.156 [29.36]	MS3420-24
-28A	40	2.250-16 UN	1.625 [41.27]	2.500 [63.50]	2.688 [68.28]	1.688 [42.88]	MS3420-28
-32A	44	2.500-16 UN	1.875 [47.62]	2.781 [70.64]	2.938 [74.63]	1.750 [44.45]	MS3420-32
-40A	48	3.000-16 UN	2.375 [60.32]	3.281 [83.34]	3.500 [88.90]		MS3420-40

1. (a) TELESOPING BUSHINGS ARE NOT SUPPLIED WITH CLAMPS.
2. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.

9A774-301



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MS3420

TELESCOPING RUBBER BUSHING

MS3420 - 16

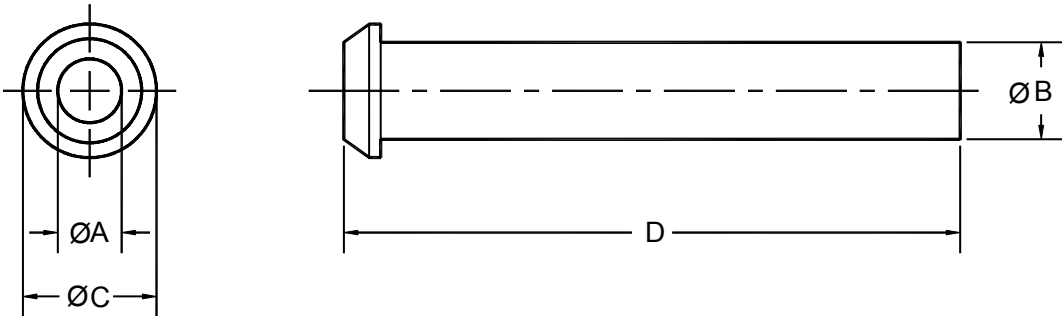
MIL SPEC

Standard material & color is black neoprene.

DASH NUMBER

See Dimension Table below.

FOR USE WITH MS3057*A CABLE CLAMPS



DASH NO.	ØA	ØB	ØC	D	MS3420-* SUPERSEDES	
					AN3420	MS39056
-3	.130 [3.30]	.210 [5.33]	.379 [9.63]	2.875 [73.02]	-3	-1
-4	.220 [5.59]	.302 [7.67]	.505 [12.83]	2.750 [69.85]	-4	-2
-6	.312 [7.92]	.427 [10.85]	.619 [15.72]	2.625 [66.67]	-6	-3
-8	.437 [11.10]	.552 [14.02]	.744 [18.90]	2.500 [63.50]	-8	-4
-10	.562 [14.27]	.615 [15.62]	.869 [22.07]	2.375 [60.32]	-10	-5
-12	.625 [15.87]	.740 [18.80]	1.064 [27.03]	2.250 [57.15]	-12	-6
-16	.750 [19.05]	.927 [23.55]	1.314 [33.38]	2.125 [53.97]	-16	-7
-20	.937 [23.80]	1.240 [31.50]	1.596 [40.54]	2.000 [50.80]	-20	-8
-24	1.250 [31.75]	1.365 [34.67]	1.847 [46.91]	1.875 [47.62]	-24	-9
-28	1.375 [34.92]	1.614 [41.00]	2.085 [52.96]	1.750 [44.45]	-28	-10
-32	1.624 [41.25]	1.864 [47.35]	2.335 [59.31]	1.625 [41.27]	-32	-11
-40	1.634 [41.50]	1.874 [47.60]	2.835 [72.01]	1.500 [38.10]	-40	-12

DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.

15A834

MS3057-*C CABLE CLAMP

MS3057 - 20C

MIL SPEC

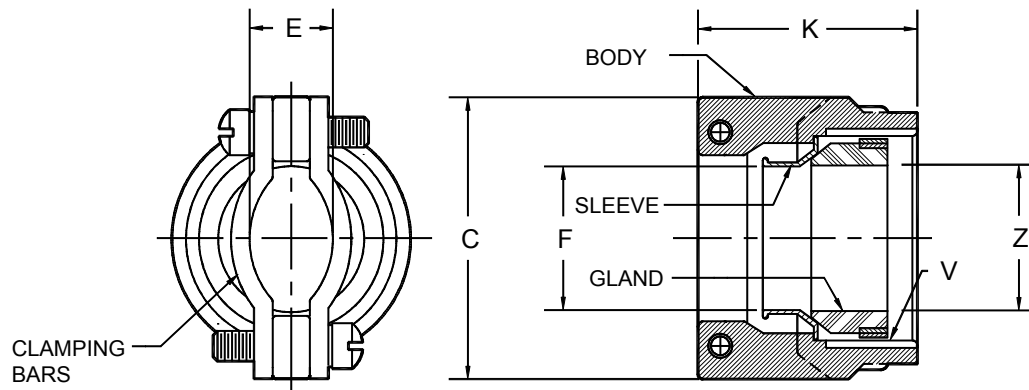
DASH NUMBER

See Dimension Table below.

MATERIAL: ALUMINUM ALLOY

FINISH: CADMIUM, OLIVE DRAB, 48 HR SALT SPRAY

Note: Bushing can be "telescoped" to achieve a smaller sealing diameter.



DASH NO.	CONNECTOR SHELL SIZE (REF)	C MAX	E MAX CLOSED	F +.020 -.000 [+0.51] [-0.00]	K MAX	V THREAD CLASS 2B	ØZ APPROX. (GLAND)		BUSHING (REF) (a)
							FREE	CLOSED	
-3C	8S & 10S	.812 [20.62]	.217 [5.51]	.231 [5.87]	1.375 [34.92]	.500-28 UNEF	.219 [5.56]	.031 [0.79]	MS3420-3A
-4C	10SL, 12S & 12	.937 [23.80]	.296 [7.52]	.315 [8.00]	1.375 [34.92]	.625-24 UNEF	.312 [7.92]	.094 [2.39]	MS3420-4A
-6C	14S & 14	1.062 [26.97]	.390 [9.91]	.440 [11.18]	1.375 [34.92]	.750-20 UNEF	.438 [11.13]	.250 [6.35]	MS3420-6A
-8C	16S & 16	1.188 [30.18]	.434 [11.02]	.515 [13.08]	1.375 [34.92]	.875-20 UNEF	.531 [13.49]	.312 [7.92]	MS3420-8A
-10C	18	1.312 [33.32]		.614 [15.60]	1.437 [36.50]	1.000-20 UNEF	.625 [15.87]	.375 [9.52]	MS3420-10A
-12C	20 & 22	1.562 [39.67]	.596 [15.14]	.738 [18.75]	1.437 [36.50]	1.188-20 UNEF	.750 [19.05]	.500 [12.70]	MS3420-12A
-16C	24 & 28	1.750 [44.45]		.926 [23.52]	1.562 [39.67]	1.438-18 UNEF	.938 [23.83]	.594 [15.09]	MS3420-16A
-20C	32	2.250 [57.15]	.858 [21.79]	1.200 [30.48]	1.812 [46.02]	1.750-18 UNS	1.250 [31.75]	.938 [23.83]	MS3420-20A
-24C	36	2.375 [60.32]		1.363 [34.62]	1.812 [46.02]	2.000-18 UNS	1.375 [34.92]	.969 [24.61]	MS3420-24A
-28C	40	2.625 [66.67]	1.107 [28.12]	1.611 [40.92]	2.062 [52.37]	2.250-16 UN	1.625 [41.27]	1.188 [30.18]	MS3420-28A
-32C	44	2.812 [71.42]	1.421 [36.09]	1.865 [47.37]	2.188 [55.58]	2.500-16 UN	1.875 [47.62]	1.375 [34.92]	MS3420-32A

1. (a) TELESOPING BUSHINGS ARE NOT SUPPLIED WITH CLAMPS.
2. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.

9A734-301

ACCESSORIES



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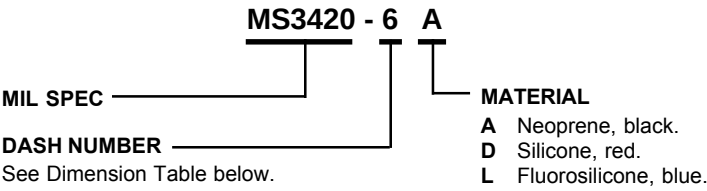


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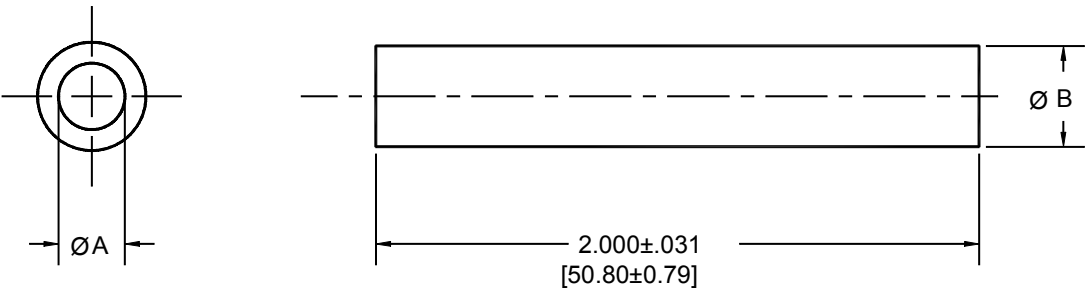
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Fax: 702-851-7620
Web: www.spacecraft.com

MS3420-*A

TELESCOPING RUBBER BUSHING



For use with MS3057*C Cable Clamps



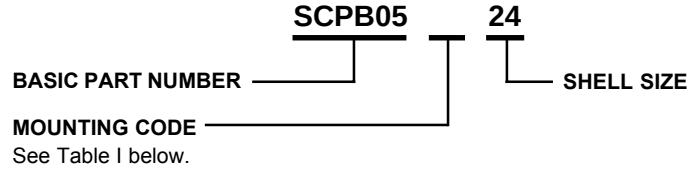
DASH NO.	ØA	ØB	MS3420-*A SUPERSEDES	
			AN3420	MS39057
-3	.125 [3.17]	.210 [5.33]	-3A	-1
-4	.219 [5.56]	.302 [7.67]	-4A	-2
-6	.312 [7.92]	.427 [10.85]	-6A	-3
-8	.438 [11.13]	.531 [13.49]	-8A	-4
-10	.438 [11.13]	.615 [15.62]	-10A	-5
-12	.541 [13.74]	.740 [18.80]	-12A	-6
-16	.750 [19.05]	.927 [23.55]	-16A	-7
-18	.938 [23.83]	1.115 [28.32]	-18A	-8
-20	.938 [23.83]	1.240 [31.50]	-20A	-9
-24	1.125 [28.57]	1.365 [34.67]	-24A	-10
-28	1.250 [31.75]	1.614 [41.00]	-28A	-11
-32	1.625 [41.27]	1.865 [47.37]	-32A	-12
-40	1.875 [47.62]	2.365 [60.07]	-40A	-13

DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.

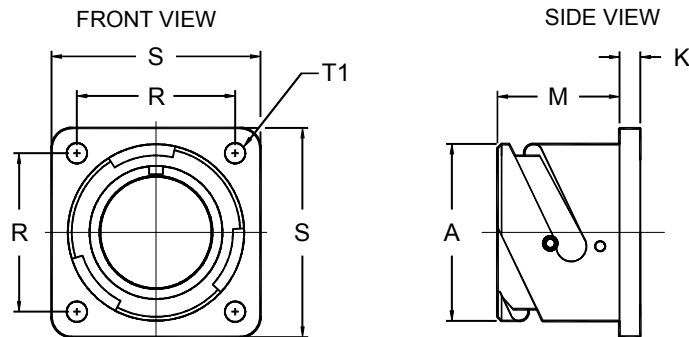
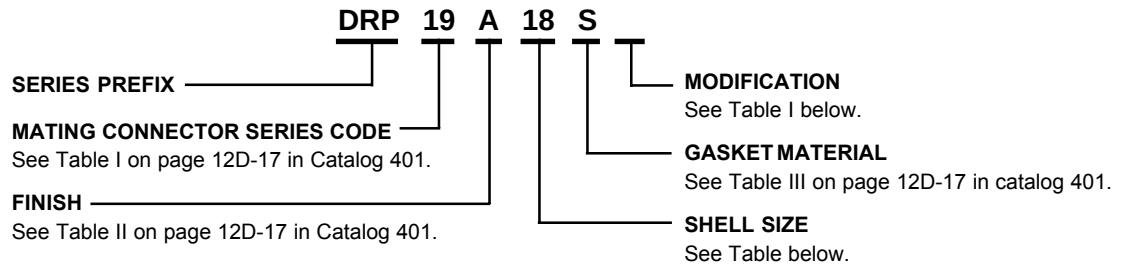
15A835

DRP19 SCPB05

DUMMY RECEPTACLE



MATERIAL: Aluminum alloy
FINISH: Cadmium olive drab, 48 hr. salt spray



ENVIRONMENTAL WHEN USED WITH A FLANGE SEALING GASKET SCP36675 OR SCP4050

MOUNTING HOLE OPTIONS
See Table I.

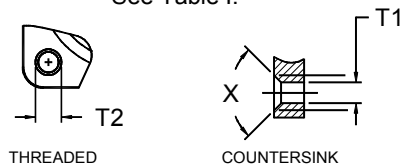


TABLE I. MOUNTING HOLE CODES

CODE	MOUNTING HOLES TYPE
NONE	THROUGH HOLES - STANDARD
FF	METRIC THREAD
UN	UNC THREAD
FS	METRIC COUNTERSINK (X=90°)
FSM	UN COUNTERSINK (X=82°)

SHELL SIZE	FRONT VIEW					SIDE VIEW		
	R ±0.1	S ±0.3	T1 +0.1 -0.0	T2 THREAD		A +0.00 -0.15	K ±0.2	M +0.4 -0.0
				METRIC	UNC			
10SL	18.2	25.4	3.2	M4	8-32UNC	18.2	2.8	14.2
14S	23.0	30.0	3.2	M4	8-32UNC	24.6	3.2	14.2
16S	24.6	32.5	3.2	M4	8-32UNC	27.4	3.2	14.2
16	24.6	32.5	3.2	M4	8-32UNC	27.4	3.2	19.0
18	27.0	35.0	3.2	M4	8-32UNC	30.8	4.0	19.0
20	29.4	38.0	3.2	M4	8-32UNC	34.2	4.0	19.0
22	31.8	41.0	3.2	M4	8-32UNC	37.4	4.0	19.0
24	34.9	44.5	3.7	M4	10-24UNC	40.9	4.0	20.6
28	39.7	50.8	3.7	M5	10-24UNC	46.7	4.0	20.6
32	44.5	57.0	4.3	M5	1/4-20UNC	53.4	4.0	22.2
36	49.2	63.5	4.3	M5	1/4-20UNC	59.6	4.0	22.2
40	55.5	69.8	4.3	M5	1/4-20UNC	65.5	4.0	22.2

DIMENSIONS ARE IN MM.

SCPB05

DCP19 SCPB*TV

DUST CAP FOR PLUG

DCP 19 A 16 S C 08 - 04

DUST CAP STYLE

DCP Dust cap for plug.
DCR Dust cap for receptacle.

MATING CONNECTOR SERIES CODE

See Table I on page 13D-30 in Catalog 401.

FINISH

See Table II on page 13D-30 in Catalog 401.

SHELL SIZE

See Table below.

END FITTING DESIGNATION

See Tables V & VI on page 13D-31 in Catalog 401.

LENGTH OF ATTACHMENT (±.250)

Designate in 1/2" increments.
(Always use two digits. i.e., 08=4 inches,
12=6 inches, etc.)

ATTACHMENT CODE

See Table IV on page 13D-31 in Catalog 401.

GASKET MATERIAL

See Table III on page 13D-30 in Catalog 401.

SCPB 24 TV

SERIES PREFIX

SHELL SIZE

10SL, 12S, 14S, 16, 16S, 18, 20, 22,
24, 32, 36, 40.

CONFIGURATION

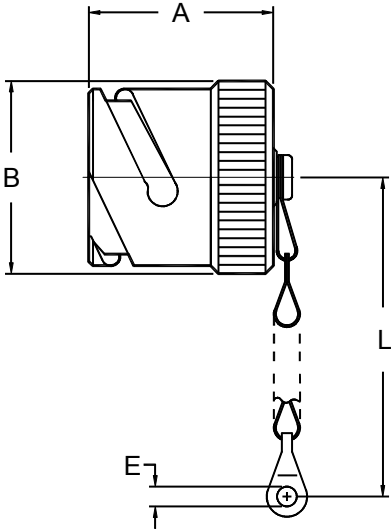
TV Dust cap for plug.

MATERIAL:

Cap - Aluminum alloy
Chain - Stainless steel

FINISH:

Cadmium, olive drab



SHELL SIZE	FOR PLUGS SCPB(G) 06, 08, 064, 065				
	PART NUMBER	A MAX.	B MAX.	E +0.5 -0.25	L APPX.
10SL	SCPB10SLTV	29	21	4.4	108
12S	SCPB14STV	29	27.5	4.4	123
14S	SCPB16STV	29	30	4.4	123
16	SCPB16TV	37	30	4.4	123
16S	SCPB18TV	37	33.5	4.4	123
18	SCPB20TV	37	37	4.8	138
20	SCPB22TV	37	40	4.8	138
22	SCPB24TV	37	43.5	4.8	138
24	SCPB28TV	37	49.5	4.8	206
32	SCPB32TV	37	56	5.6	206
36	SCPB36TV	37	62.5	5.6	206
40	SCPB40TV	37	67.7	5.6	206

DIMENSIONS ARE IN MM. SCPBTV

SCPB*TF DCR19

DUST CAP FOR RECEPTACLE

DCR 19 A 16 S C 08 - 04

DUST CAP STYLE
DCP Dust cap for plug.
DCR Dust cap for receptacle.

MATING CONNECTOR SERIES CODE
 See Table I on page 13D-30 in Catalog 401.

FINISH
 See Table II on page 13D-30 Catalog 401.

SHELL SIZE
 See Table below.

END FITTING DESIGNATION
 See Tables V & VI on page 13D-31 in Catalog 401.

LENGTH OF ATTACHMENT (±.250)
 Designate in 1/2" increments.
 (Always use two digits. i.e., 08=4 inches, 12=6 inches, etc.)

ATTACHMENT CODE
 See Table IV on page 13D-31 in Catalog 401.

GASKET MATERIAL
 See Table III on page 13D-30 in Catalog 401.

SCPB 20 TF

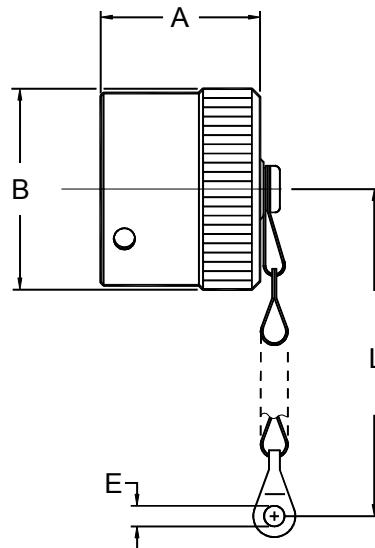
SERIES PREFIX

SHELL SIZE
 10SL, 14S, 16, 16S, 18, 20, 22, 24, 28, 32, 36, 40.

CONFIGURATION
TF Dust cap for receptacle.

MATERIAL:
 Cap - Aluminum alloy
 Gasket/Disk - Neoprene rubber
 Chain - Stainless steel

FINISH:
 Cadmium, olive drab



SHELL SIZE	PART NUMBER	A MAX.	B MAX.	E +0.5 -0.25	L APPROX.
10SL	SCPB10SLTF	20.0	23.5	4.4	108
14S	SCPB14STF	20.0	30.5	4.4	108
16	SCPB16STF	20.0	33	4.4	108
16S	SCPB16TF	25.0	33	4.4	123
18	SCPB18TF	25.0	37.5	4.4	123
20	SCPB20TF	25.0	41	4.4	123
22	SCPB22TF	25.0	44	4.4	123
24	SCPB24TF	25.0	47.5	4.4	123
28	SCPB28TF	25.0	54.5	5.6	206
32	SCPB32TF	25.0	61	5.6	206
36	SCPB36TF	25.0	67.5	5.6	206
40	SCPB40TF	25.0	73	5.6	206

DIMENSIONS ARE IN MM.

SCPBTF



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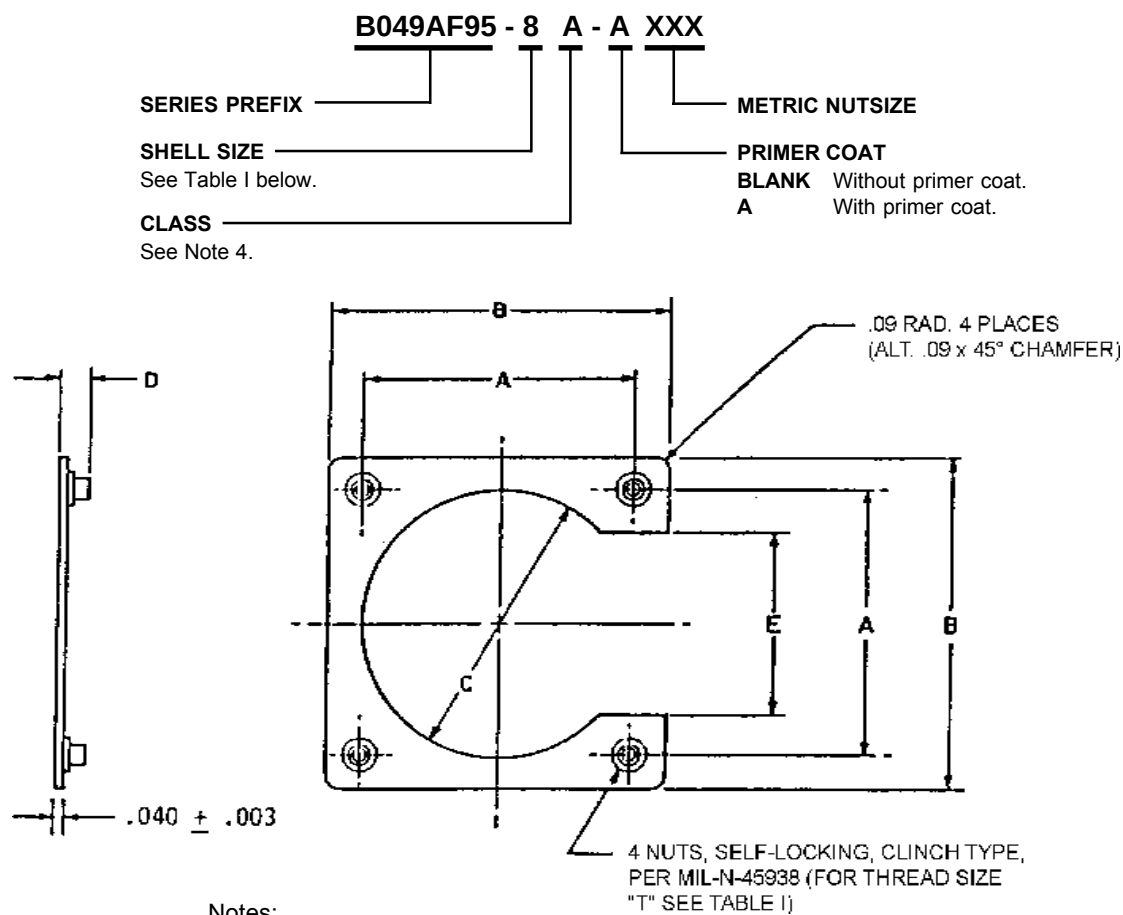
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ACCESSORIES

B049AF95

3/4 MOUNT, TYPE II (MEDIUM DUTY) NUT PLATE



B049AF95 METRIC NUT PLATE

3/4 MOUNT, TYPE II (MEDIUM DUTY) NUT PLATE

PART NUMBER	SHELL SIZE	T THREAD	A ± .08	B ±.4	C +.038 -.00	D	E ±.5
B049AF95-10SLA-A-M2.5	10SL	M2.5 x 0.45	18.26	25.88	17.47	2.6/4.2	11.00
B049AF95-10SLA-A-M3	10SL	M3 x 0.5	18.26	25.88	17.47	2.7/4.2	11.00
B049AF95-14SA-A-M2.5	14S	M2.5 x 0.45	23.01	30.28	24.20	2.6/4.2	15.75
B049AF95-14SA-A-M3	14S	M3 x 0.5	23.01	30.28	24.20	2.7/4.2	15.75
B049AF95-16SA-A-M2.5	16S	M2.5 x 0.45	24.61	31.87	27.78	2.6/4.2	17.34
B049AF95-16SA-A-M3	16S	M3 x 0.5	24.61	31.87	27.78	2.7/4.2	17.34
B049AF95-16SA-A-M2.5	16S	M2.5 x 0.45	24.61	31.87	27.78	2.6/4.2	17.34
B049AF95-16-A-A-M3	16	M3 x 0.5	24.61	31.87	27.78	2.7/4.2	17.34
B049AF95-18A-A-M2.5	18	M2.5 x 0.45	26.97	34.24	30.10	2.6/4.2	19.71
B049AF95-18A-A-M3	18	M3 x 0.5	26.97	34.24	30.10	2.7/4.2	19.71
B049AF95-20A-A-M2.5	20	M2.5 x 0.45	29.36	38.10	33.15	2.6/4.2	21.97
B049AF95-20A-A-M3	20	M3 x 0.5	29.36	38.10	33.15	2.7/4.2	21.97
B049AF95-22A-A-M2.5	22	M2.5 x 0.45	31.75	40.46	36.27	2.6/4.2	23.04
B049AF95-22A-A-M3	22	M3 x 0.5	31.75	40.46	36.27	2.7/4.2	23.04
B049AF95-24A-A-M3.5	24	M3 x 0.5	34.93	44.45	39.62	2.7/4.2	25.40
B049AF95-28A-A-M3	28	M3 x 0.5	39.67	50.80	46.23	2.7/4.2	28.58
B049AF95-28A-A-M4	28	M4 x 0.7	39.67	50.80	46.23	3.5/5.0	28.58
B049AF95-32A-A-M4	32	M4 x 0.7	44.45	58.73	52.37	3.5/5.0	30.18
B049AF95-36A-A-M4	36	M4 x 0.7	49.23	63.50	58.72	3.5/5.0	34.93
B049AF95-40A-A-M3.5	40	M3 x 0.5	55.58	74.30	67.95	2.7/4.2	38.10
B049AF95-40A-A-M4	40	M4 x 0.7	55.58	74.30	67.95	3.5/5.0	38.10

NOTE: All dimension are in millimeters and sysmetrical about centerline

METRIC NUT

ACCESSORIES



SPACECRAFT
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RIGHT ANGLE MOUNTING BRACKET

SCPB90 SERIES

SCPB

90 - 16

(024)

SERIES PREFIX

STYLE

SHELL SIZE

FINISH

BLANK

(024)

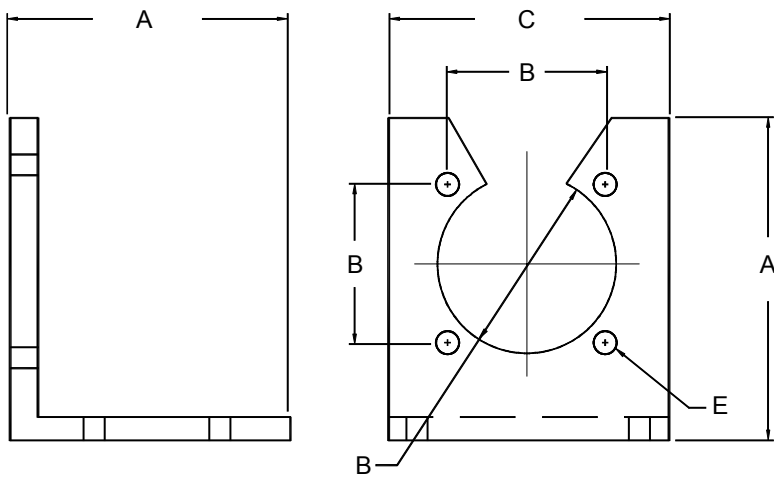
(025)

Cadmium olive drab.

Zinc colbalt, olive drab color.

Zinc colbalt, black color.

10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40.



SHELL SIZE	A ±0.25	B ±0.1	C ±0.1	D +0.1	E +0.15
10SL	38.10	18.21	38.10	17.45	3.20
14S	47.63	23.01	38.10	23.80	3.20
16S	47.63	24.61	38.10	26.21	3.20
16	47.63	24.61	38.10	26.21	3.20
18	53.97	26.97	50.80	29.46	3.20
20	57.15	29.41	50.80	33.30	3.20
22	57.15	31.80	50.80	36.50	3.20
24	60.33	34.90	50.80	40.31	3.86
28	66.68	39.70	63.50	47.62	3.86
32	69.85	44.50	63.50	52.37	4.45
36	76.20	49.20	76.20	60.32	4.45
40	82.55	55.60	76.20	65.50	4.45

DIMENSIONS ARE IN MM. SCPB90

SCP40450, SCP40460

GASKETS FOR FLANGE MOUNT RECEPTACLES

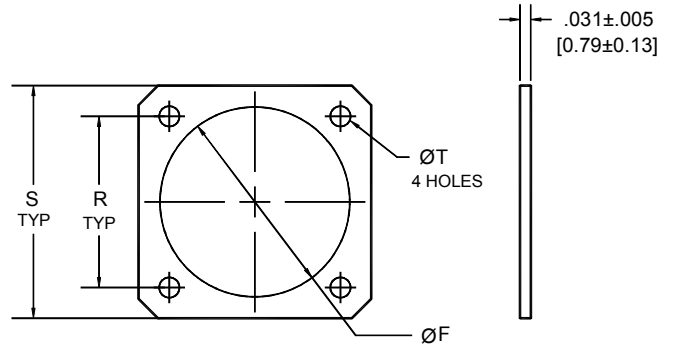
SCP40450 - 20 H

PART NUMBER _____

SHELL SIZE _____

MATERIAL _____

BLANK Neoprene 80 shore.
F Silicone.
FS Silicone with shielded wire mesh.
H Halogen free.
S Shielded, wire mesh.



MIL-DTL-5015 REVERSE BAYONET SHELL TYPES SCPB00* SCPB02* SCPB020* SCPBTF* FRONT MOUNT	MIL-DTL-5015 REVERSE BAYONET SHELL TYPES SCPB03* SCPB030* REAR MOUNT	PART NUMBER (0°F TO +257°F) NOTE 2	ØF +.016 -.000	R ±.010	S +.016 -.000	ØT ±.010
10SL	-	SCP40450-10	.626 [15.90]	.719 [18.26]	1.000 [25.40]	.172 [4.37]
-	10SL	SCP40460-10	.717 [18.21]	.719 [18.26]	1.000 [25.40]	.165 [4.20]
12S	-	SCP40450-12	.750 [19.05]	.813 [20.65]	1.094 [27.79]	.172 [4.37]
-	12,12S	SCP40460-12	.843 [21.40]	.813 [20.65]	1.094 [27.79]	.165 [4.20]
14S	-	SCP40450-14	.875 [22.23]	.906 [23.01]	1.188 [30.18]	.172 [4.37]
-	14,14S	SCP40460-14	.968 [24.60]	.906 [23.01]	1.188 [30.18]	.165 [4.20]
16, 16S	-	SCP40450-16	1.000 [25.40]	.989 [25.12]	1.281 [32.54]	.172 [4.37]
-	16,16S	SCP40460-16	1.081 [27.40]	.989 [25.12]	1.281 [32.54]	.165 [4.20]
18	-	SCP40450-18	1.125 [28.58]	1.083 [27.51]	1.375 [34.93]	.203 [5.16]
-	18	SCP40460-18	1.213 [30.80]	1.083 [27.51]	1.375 [34.93]	.165 [4.20]
20	-	SCP40450-20	1.250 [31.75]	1.156 [29.36]	1.500 [38.10]	.203 [5.16]
-	20	SCP40460-20	1.345 [34.20]	1.156 [29.36]	1.500 [38.10]	.165 [4.20]
22	-	SCP40450-22	1.375 [34.93]	1.250 [31.75]	1.625 [41.28]	.203 [5.16]
-	22	SCP40460-22	1.472 [37.40]	1.250 [31.75]	1.625 [41.28]	.165 [4.20]
24	-	SCP40450-24	1.500 [38.10]	1.375 [34.93]	1.750 [44.45]	.203 [5.16]
-	24	SCP40460-24	1.610 [40.9]	1.375 [34.93]	1.750 [44.45]	.165 [4.20]
28	-	SCP40450-28	1.750 [44.45]	1.563 [39.70]	2.000 [50.80]	.203 [5.16]
-	28	SCP40460-28	1.840 [46.7]	1.563 [39.70]	2.000 [50.80]	.201 [5.11]
32	-	SCP40450-32	2.000 [50.80]	1.750 [44.45]	2.250 [57.15]	.219 [5.56]
-	32	SCP40460-32	2.102 [53.4]	1.750 [44.45]	2.250 [57.15]	.201 [5.11]
36	-	SCP40450-36	2.188 [55.58]	1.938 [49.23]	2.500 [63.50]	.219 [5.56]
-	36	SCP40460-36	2.345 [59.6]	1.938 [49.23]	2.500 [63.50]	.201 [5.11]
40	-	SCP40450-40	2.438 [61.93]	2.188 [55.58]	2.750 [69.85]	.219 [5.56]
-	40	SCP40460-40	2.580 [65.5]	2.188 [55.58]	2.750 [69.85]	.201 [5.11]

1. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS.
2. FOR SHIELDING ADD "S" AFTER THE PART NUMBER.
3. FOR SILICONE MATERIAL ADD "FS" AFTER PART NUMBER

SC40450B-301



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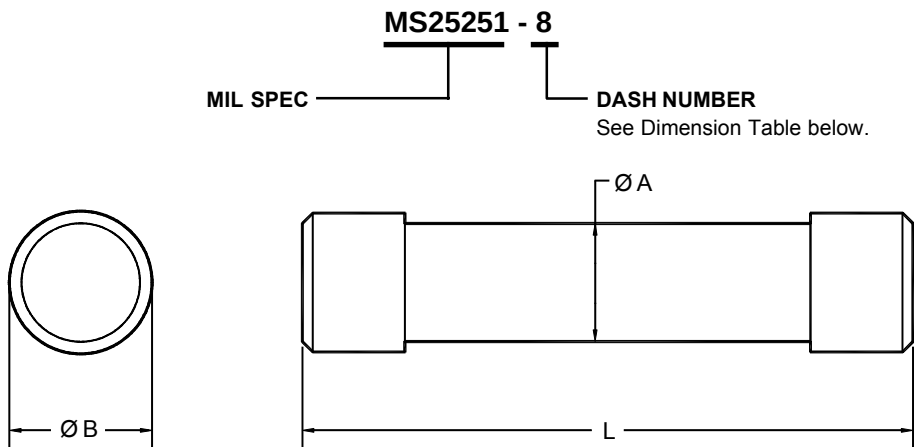


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MS25251

SEALING PLUG

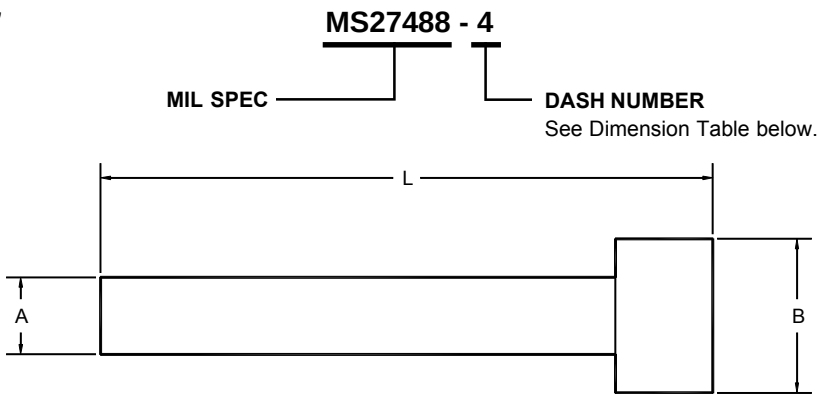


DASH NO.	MAT'L	WIRE SIZE	COLOR	ØA MAX.	ØB MAX.	L MAX.	SUPERSEDED BY REV. L
-8	NYLON	8	WHITE	.200 [5.08]	.235 [5.97]	.479 [12.17]	MS27488-8
-12	NYLON	12	YELLOW	.150 [3.81]	.187 [4.75]	.479 [12.17]	MS27488-12
-16	NYLON	16	BLUE	.115 [2.92]	.152 [3.86]	.479 [12.17]	MS27488-16
-20	NYLON	20	RED	.095 [2.41]	.122 [3.10]	.385 [9.78]	MS27488-20

1. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS. 16A817-301

MS27488 REV L

SEALING PLUG



DASH NO.	MAT'L	WIRE SIZE	COLOR	ØA MAX.	ØB MAX.	L MAX.
-0	TEFLON	0	YELLOW	.450 [11.43]	.610 [15.49]	1.010 [25.65]
-4	TEFLON	4	BLUE	.320 [8.13]	.420 [10.67]	.480 [12.19]
-8	TEFLON	8	RED	.195 [4.95]	.320 [8.13]	.480 [12.19]
-12	TEFLON	12	YELLOW	.131 [3.33]	.176 [4.47]	.584 [14.83]
-16	TEFLON	16	BLUE	.093 [2.36]	.138 [3.51]	.584 [14.83]
-20	TEFLON	20	RED	.065 [1.65]	.100 [2.54]	.584 [14.83]
-22	TEFLON	22	BLACK	.045 [1.14]	.068 [1.73]	.500 [12.70]

1. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS. 16A824-301