BACKSHELLS
& INTERCONNECT ACCESSORIES

Backshells and Interconnect Accessories

SUNBANK
Connection Technologies

Presentation

SUNBANK products define the standard for highly reliable, environment resisting, electrically passive components, and flexible, shielded SunFlex conduit systems. We proudly support Aerospace, Defense, Marine, and Industrial power and signal interconnect markets, worldwide since 1958

Contents

Typical applications

Civil Aviation

Military Aircraft

Space

Ground Military

Missile

Military Marine

Sunbank
Joslyn Sunbank Company, LLC

Rectangular Accessories

Sunbank offers a broad range of rectangular connector accessories for use in military, commercial and industrial applications. These accessories offer many options for strain relief, environmental protection as well as EMI/RFI shielding capabilities. The following pages are samples of this offering. We have for your convenience grouped them as follows:

- Rectangular Accessories for ARINC Connectors
- Rectangular Accessories for Micro D-Sub Connectors (Mil-C-83513)
- Rectangular Accessories for D-Sub Connectors (Mil-C-24308) solid shell
- Rectangular Accessories for D-Sub Connectors (Mil-C-24308 split shell
- Rectangular Accessories for Hughes MRS Connectors

If you do not find within these pages a design that specifically meets your needs we will be happy to develop new designs to your specifications. Call us at 805-238-2840 or visit our website at www.sunbankcorp.com

SELF-SEATING™
PATENT NO. 5,435,760

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Blank

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Rectangular Accessories for ARINC Connectors

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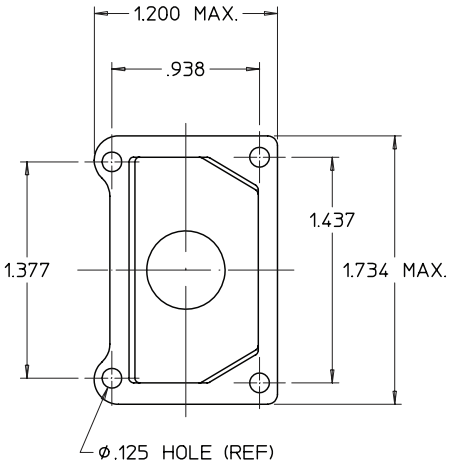
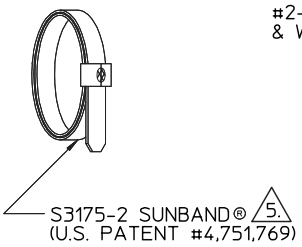
EXAMPLE PART NUMBER

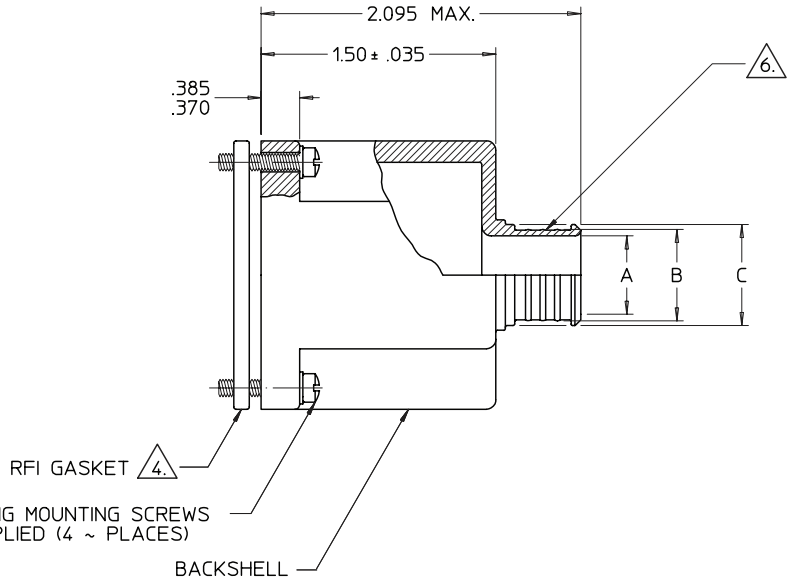
J1500 - 04 - 034 2

- SUNBAND OPTION 4. 5.
- PLATING 2. 4.
- ENTRY SIZE 4.
- GASKET OPTION 4.
- BASIC PART NUMBER

ENTRY SIZE	A ±.020 DIA.	B ±.031 DIA.	C MAX. DIA.
04	.250	.375	.425
06	.375	.500	.550
08	.500	.625	.675
10	.625	.750	.800
12	.750	.875	.925







NOTES:

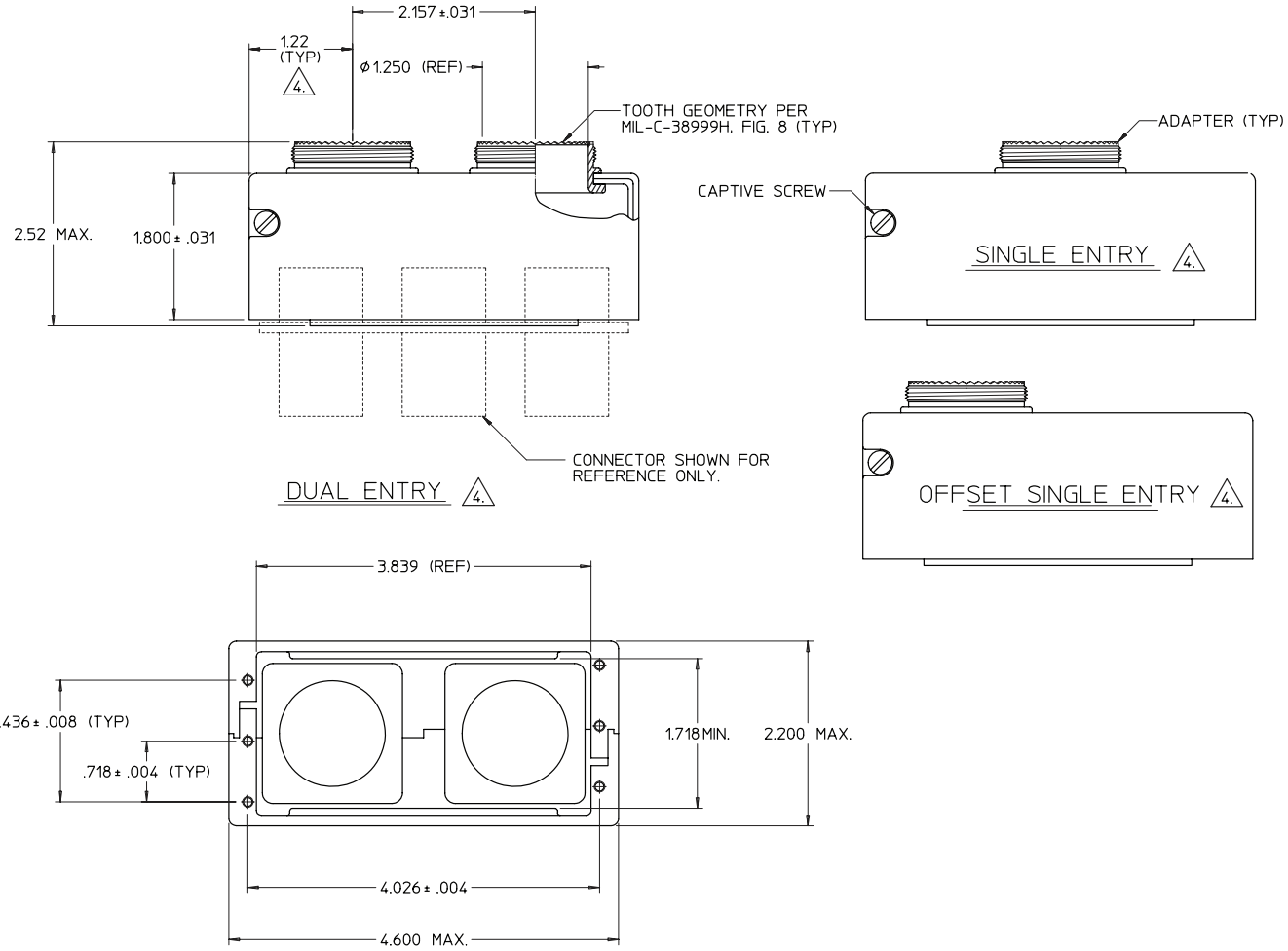
1. IDENTIFIED PER MIL-STD-130.
2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.
3. MATERIAL: BACKSHELL - ALUMINUM ALLOY PER QQ-A-591;
   RFI GASKET - MONEL & NEOPRENE;
   SUNBAND - SST.
4. INSERT ONE OF THE FOLLOWING DESIGNATORS:
   "-" - FOR COMPLETE ASSEMBLY.
   "G" - FOR RFI GASKET ONLY. (DELETE ENTRY SIZE, PLATING CODE, AND SUNBAND OPTION WHEN ORDERING RFI GASKET ONLY.)
5. INSERT ONE OF THE FOLLOWING DESIGNATORS FOR SUNBAND® OPTION REQUIREMENTS:
   "1" - FOR NO SUNBAND® SUPPLIED.
   "2" - FOR SUNBAND® SUPPLIED LOOSE.
6. MACHINED OUTLET CONFIGURATION MAY BE SUPPLIED IN LIEU OF CAST OUTLET AT MANUFACTURERS OPTION.

2.	PLATING LEGEND
CODE NUMBER	FINISH
004	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
012	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
034	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

EXAMPLE PART NUMBER

J1518 D

- D: ENTRY OPTION 4.
- J1518: BASIC PART NUMBER



NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. FINISH: CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH "W"
3. MATERIAL: BACKSHELL COMPONENTS - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591; HARDWARE - SST.

INSERT THE LETTER "D" FOR DUAL ENTRY (OMIT FOR SINGLE ENTRY).
INSERT THE LETTER "S" FOR OFFSET SINGLE ENTRY

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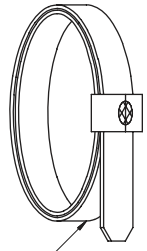
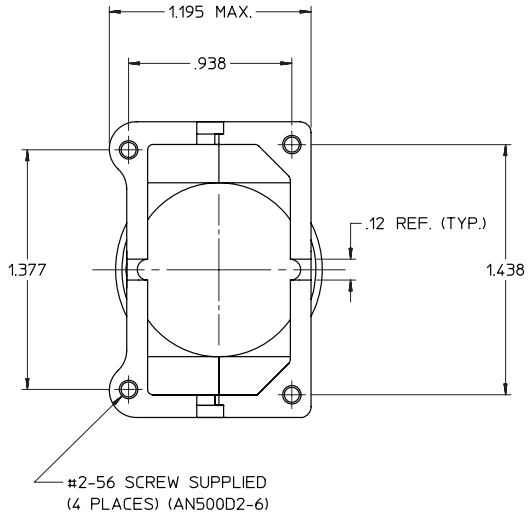
EXAMPLE PART NUMBER

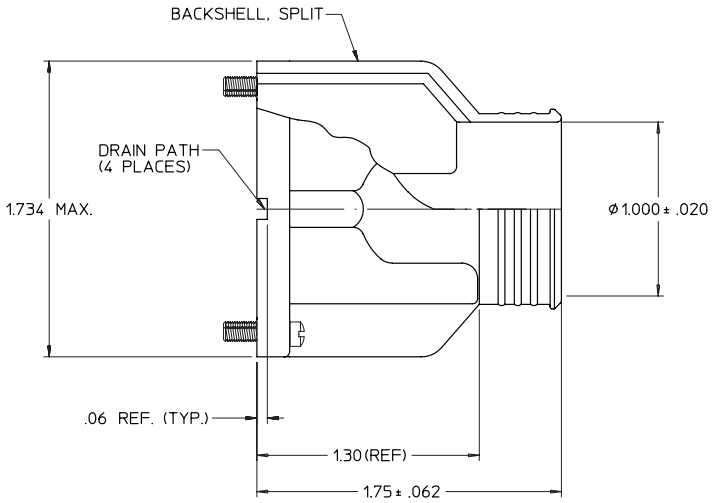
J1560 - 34-2 C

BASIC PART NUMBER
FINISH (2.)
SUNBAND® OPTION (4.)
(5.)



S3175-2 SUNBAND ® (4.)
(U.S. PATENT #4,751,769)





(2.) PLATING LEGEND	
CODE NUMBER	FINISH
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

(5.) INSERT LETTER "C" FOR ASSY. SUPPLIED WITH CAPTIVE CONNECTOR MOUNTING HARDWARE. (OMIT FOR STD.)

(4.) INSERT ONE OF THE FOLLOWING DESIGNATORS FOR THE SUNBAND® OPTION REQUIREMENTS:
"1" - FOR ASSEMBLY SUPPLIED WITHOUT SUNBAND®.
"2" - FOR ASSEMBLY SUPPLIED WITH SUNBAND®.

3. MATERIAL : BACKSHELL - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

(1.) ASSEMBLY IDENTIFICATION PER MIL-STD-130.
NOTES:

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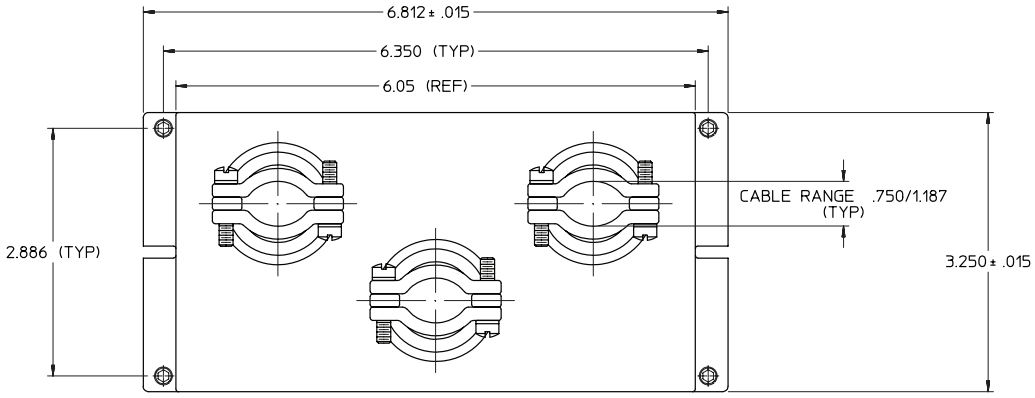
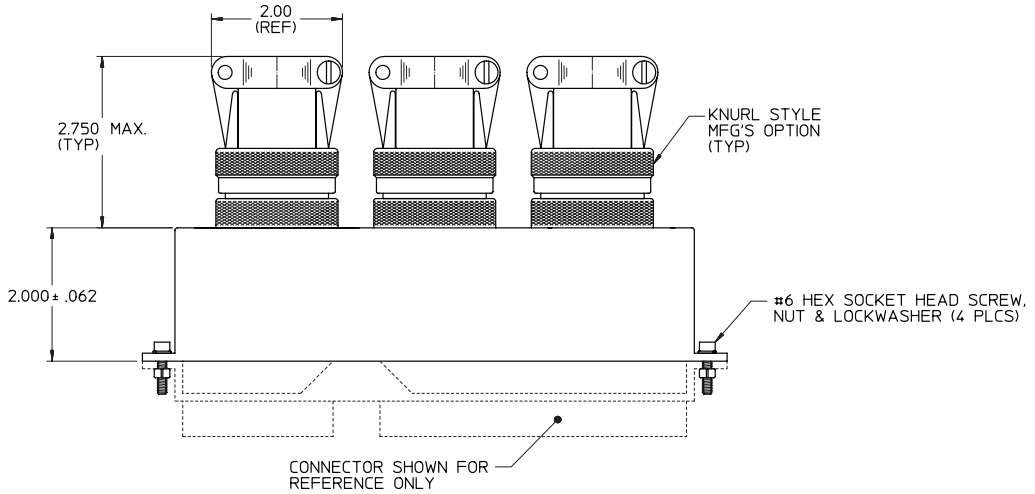
EXAMPLE PART NUMBER
J1746





NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. MATERIAL/FINISH: BACKSHELL & ADAPTER COMPONENTS - ALUMINUM ALLOY / ELECTROLESS NI
   HARDWARE - SST / PASSIVATED

SELF-SEATING PATENT NO. 5,435,760

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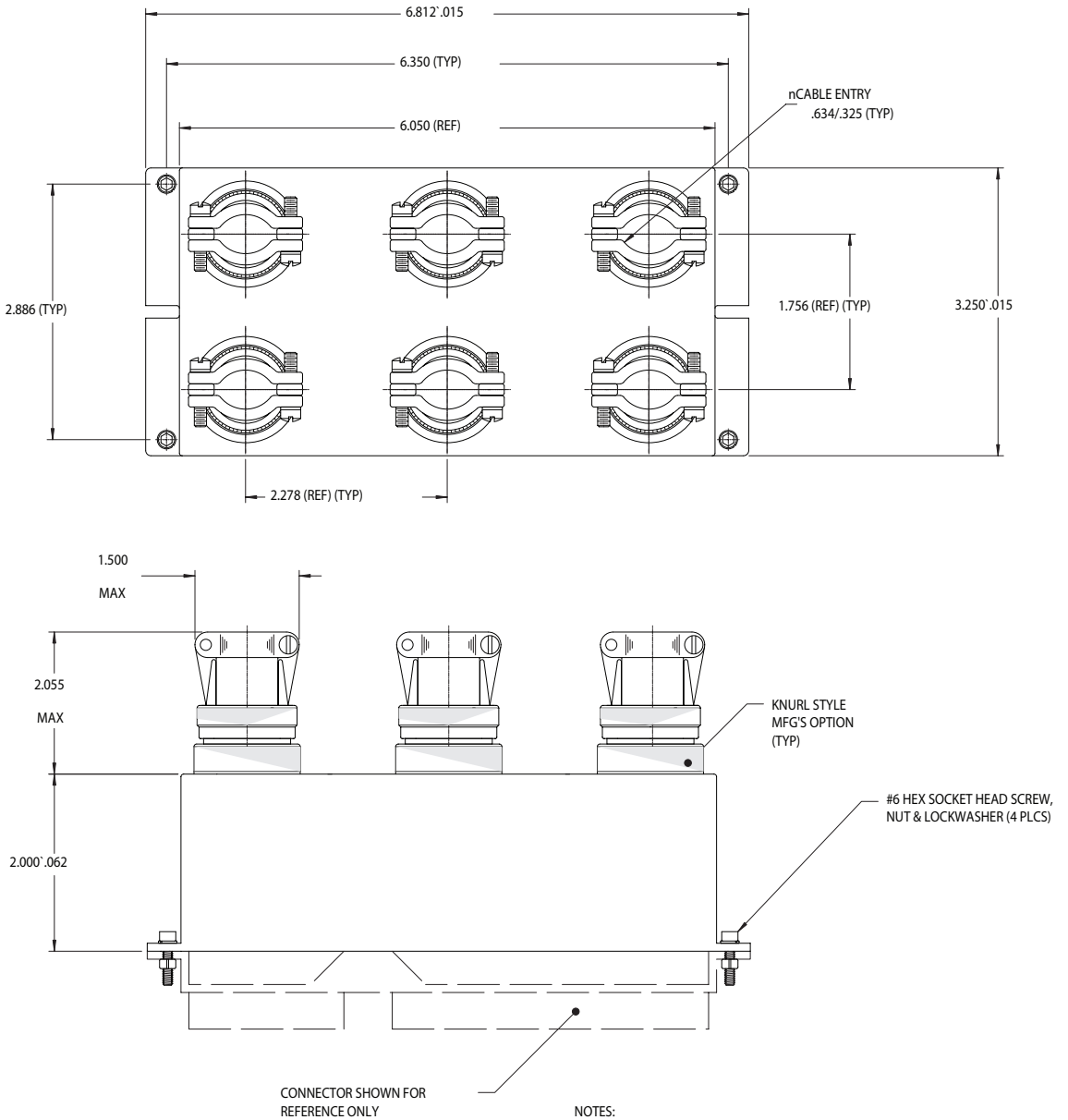
EXAMPLE PART NUMBER

J1758



NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. MATERIAL/FINISH: BACKSHELL & ADAPTER COMPONENTS - ALUMINUM ALLOY / IRIDITE, NO. 14-2
   YELLOW MIL-C-5541 CLASS3 HARDWARE - SST / PASSIVATED
3. CABLE ENTRY IS DEFINED AS THE RANGE OF THE CABLE BUNDLE ø IS NOT INTENDED FOR INSPECTION CRITERIA.

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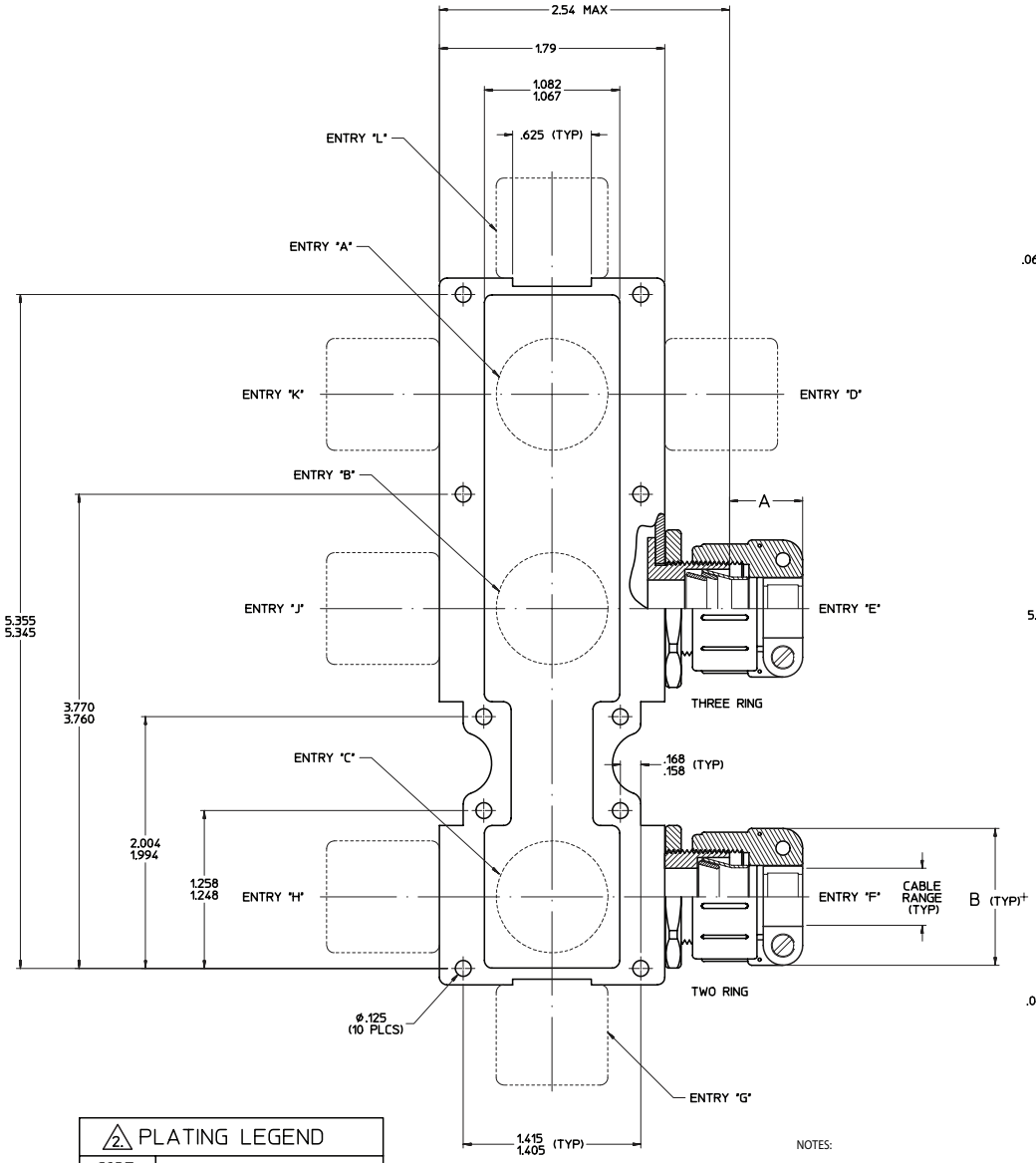
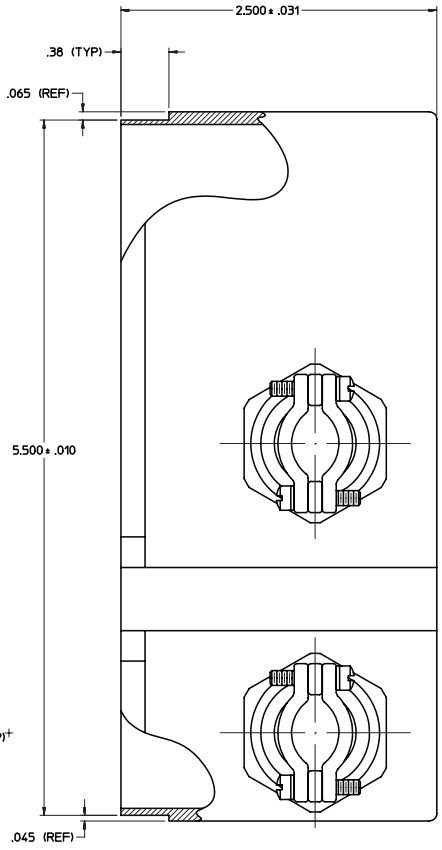
EXAMPLE PART NUMBER
J1764-A16-B16R-C08-12

- BASIC PART NUMBER
- ENTRY "A", DASH # 16, 2~RINGS (3.)
- ENTRY "B", DASH # 16, 3~RINGS (3.)
- ENTRY "C", DASH # 08, 2~RINGS (3.)
- FINISH (2.)

DASH NUMBER	A MAX	B MAX	CABLE RANGE MIN	CABLE RANGE MAX
03	.760	.844	.157	.250
04	.760	.906	.187	.312
06	.760	1.093	.281	.437
08	.760	1.187	.344	.562
10	.760	1.281	.375	.625
12	.760	1.500	.438	.750
16	1.073	1.719	.562	.938





(2.) PLATING LEGEND	
CODE NUMBER	FINISH
12	ELECTROLESS NICKEL
29	CADMIUM PLATE /BRIGHT DIP OVER ELECTROLESS NICKEL.

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. MATERIAL/FINISH: BACKSHELL & ADAPTER COMPONENTS - ALUMINUM ALLOY / SEE PLATING LEGEND
   HARDWARE - SST / PASSIVATED
3. ADD THE LETTER "R" AFTER THE DASH NUMBER TO RECEIVE 3 RFI RINGS. (OMIT LETTER FOR THE 2 RFI RING CONFIGURATION)

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Rectangular Accessories
Micro D-Subs

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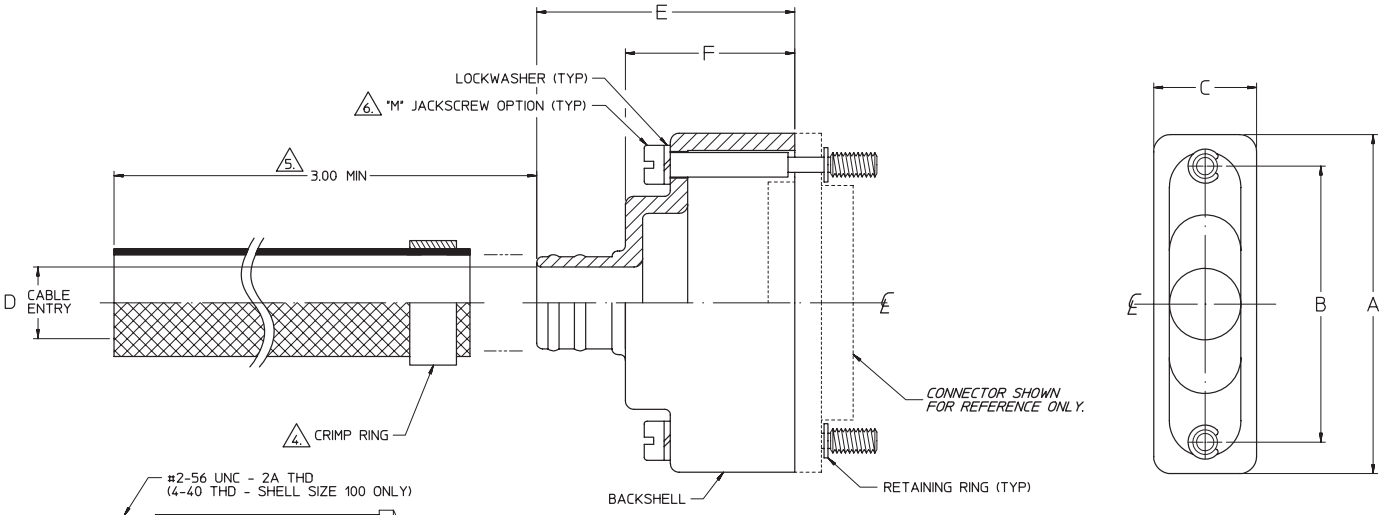
EXAMPLE PART NUMBER

J1584-37 - 12-L 12

- BASIC PART NUMBER
- SHELL SIZE
- JACKSCREW OPTION 6.
- FINISH 2.
- CRIMP RING OPTION 4.
- LENGTH OPTION 5.

SHELL SIZE	A MAX DIM	B ±.005 DIM	C ±.010 DIM	D ±.010 DIA	E ±.020 DIM	F ±.010 DIM
9	.785	.565	.340	.160	.752	.442
15	.935	.715	.340	.190	.802	.492
21	1.085	.865	.340	.220	.852	.542
25	1.185	.965	.360	.260	.902	.592
31	1.335	1.115	.360	.275	.942	.632
37	1.485	1.265	.360	.285	.982	.672
51	1.435	1.215	.400	.350	1.062	.752
100	2.170	1.800	.450	.490	1.127	.817



CRIMP RING NOT SHOWN

2.	PLATING LEGEND
CODE NUMBER	FINISH
01	IRIDITE, NO. 14-2, YELLOW, PER MIL-C-5541, CLASS 3.
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTE:

1. IDENTIFIED PER MIL-STD-130.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

3. MATERIAL: ADAPTER COMPONENTS - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591
   CRIMP RING - COPPER, TIN PLATED
   HARDWARE - PASSIVATED SST.

4. ADD THE LETTER "L" TO END OF PART NUMBER IF CRIMP RING IS NOT REQUIRED. (OMIT LETTER FOR ASSEMBLY SUPPLIED WITH CRIMP RING)

5. INSERT OPTIONAL BRAID LENGTH FOR ASSEMBLY SUPPLIED WITH INSTALLED BRAID. THIS LENGTH TO BE SPECIFIED BY CUSTOMER IN 1 INCH INCREMENTS, 3 INCH MINIMUM ORDER LENGTH. (OMIT FOR ASSEMBLY SUPLIED WITHOUT BRAID)

6. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE JACKSCREW OPTION:
   "-" - FOR STANDARD JACKSCREWS
   "M" - FOR MALE JACKSCREWS
   "MK" - FOR MALE KNURLED JACKSCREWS WITH EXTENDED HEAD HEIGHT

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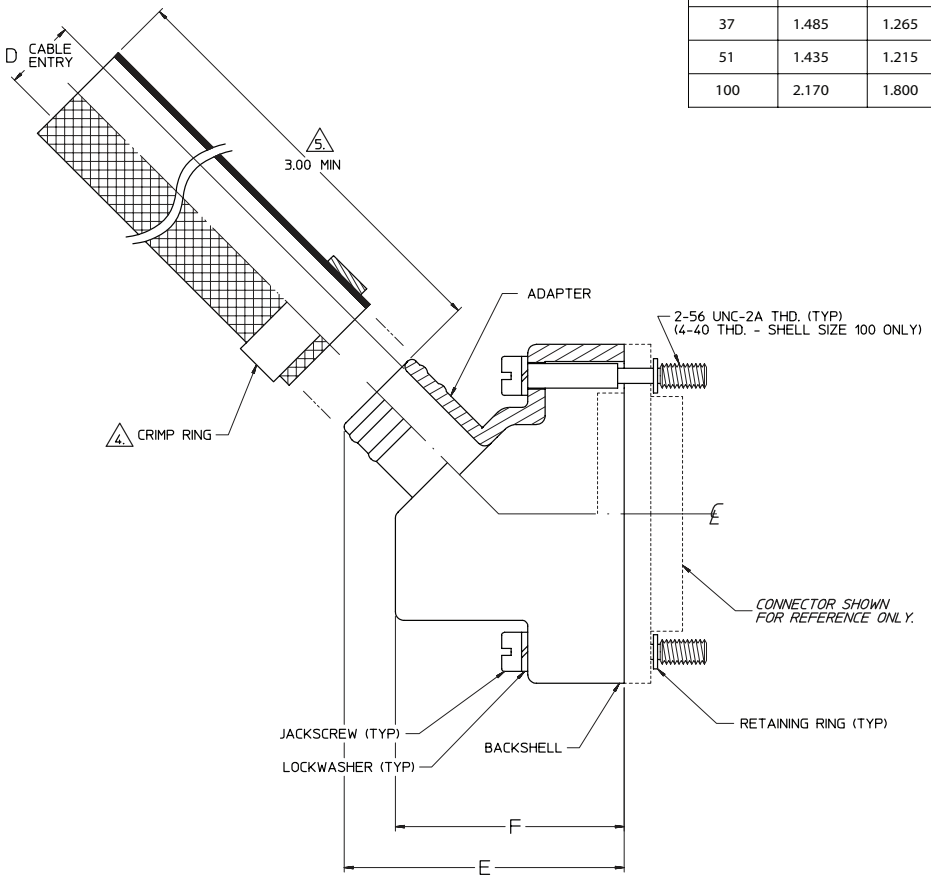
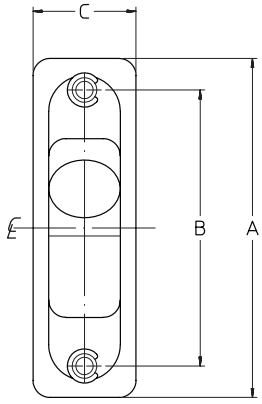
EXAMPLE PART NUMBER

J1585-37-12-L 12

- BASIC PART NUMBER
- SHELL SIZE
- FINISH 2.
- CRIMP RING OPTION 4.
- LENGTH OPTION 5.

SHELL SIZE	A MAX DIM	B ±.005 DIM	C ±.030 DIM	D ±.010 DIA	E MAX DIM	F ±.060 DIM
9	.785	.565	.340	.160	.875	.650
15	.935	.715	.340	.190	.925	.700
21	1.085	.865	.340	.220	.975	.735
25	1.185	.965	.360	.260	1.025	.800
31	1.335	1.115	.360	.275	1.065	.860
37	1.485	1.265	.360	.285	1.105	.925
51	1.435	1.215	.400	.350	1.187	.975
100	2.170	1.800	.450	.490	1.250	1.050





CRIMP RING NOT SHOWN

2.	PLATING LEGEND
CODE NUMBER	FINISH
01	IRIDITE, NO. 14-2, YELLOW, PER MIL-C-5541, CLASS 3.
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTE:

1. IDENTIFIED PER MIL-STD-130.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

3. MATERIAL: ADAPTER COMPONENTS - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591
   CRIMP RING - COPPER, TIN PLATED
   HARDWARE - PASSIVATED SST.

4. ADD THE LETTER "L" TO END OF PART NUMBER IF CRIMP RING IS NOT REQUIRED. (OMIT LETTER FOR ASSEMBLY SUPPLIED WITH CRIMP RING)

5. INSERT OPTIONAL BRAID LENGTH FOR ASSEMBLY SUPPLIED WITH INSTALLED BRAID. THIS LENGTH TO BE SPECIFIED BY CUSTOMER IN 1 INCH INCREMENTS, 3 INCH MINIMUM ORDER LENGTH. (OMIT FOR ASSEMBLY SUPLIED WITHOUT BRAID)

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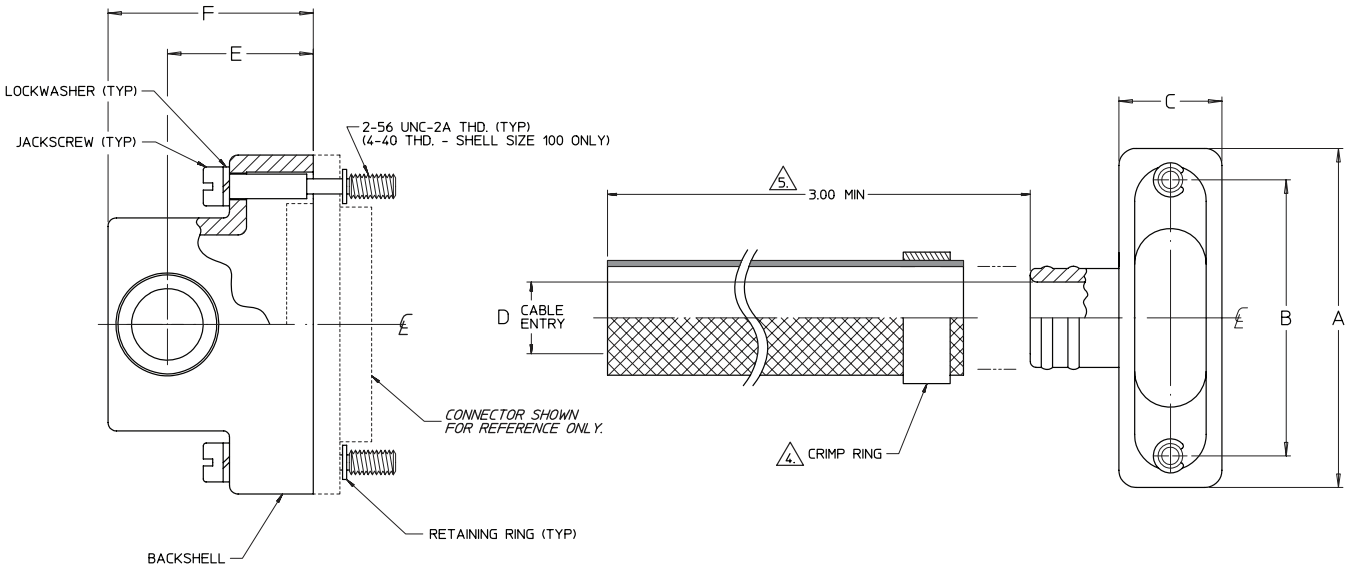
EXAMPLE PART NUMBER

J1586-37-12-L 12

- BASIC PART NUMBER
- SHELL SIZE
- FINISH (2.)
- CRIMP RING OPTION (4.)
- LENGTH OPTION (5.)

SHELL SIZE	A MAX DIM	B ±.005 DIM	C ±.030 DIM	D ±.010 DIA	E ±.010 DIM	F ±.010 DIM
9	.785	.565	.340	.160	.460	.607
15	.935	.715	.340	.190	.475	.643
21	1.085	.865	.340	.220	.490	.677
25	1.185	.965	.360	.260	.510	.718
31	1.335	1.115	.360	.275	.518	.726
37	1.485	1.265	.360	.285	.523	.744
51	1.435	1.215	.400	.350	.555	.829
100	2.170	1.800	.450	.490	.625	.984



CRIMP RING NOT SHOWN

2.	PLATING LEGEND
CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTE:

1. IDENTIFIED PER MIL-STD-130.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

3. MATERIAL: ADAPTER COMPONENTS - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591
CRIMP RING - COPPER, TIN PLATED
HARDWARE - PASSIVATED SST.

4. ADD THE LETTER "L" TO END OF PART NUMBER IF CRIMP RING IS NOT REQUIRED. (OMIT LETTER FOR ASSEMBLY SUPPLIED WITH CRIMP RING)

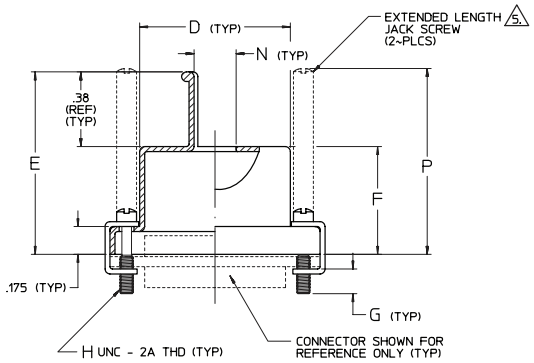
5. INSERT OPTIONAL BRAID LENGTH FOR ASSEMBLY SUPPLIED WITH INSTALLED BRAID. THIS LENGTH TO BE SPECIFIED BY CUSTOMER IN 1 INCH INCREMENTS, 3 INCH MINIMUM ORDER LENGTH. (OMIT FOR ASSEMBLY SUPLIED WITHOUT BRAID)

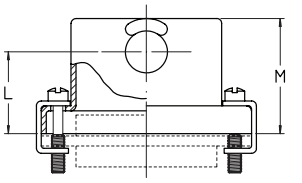
SHELL SIZE	A DIM	B DIM	C DIM	D DIM	E DIM	F ±.06 DIM	G (REF) DIM	H UNC THD	J MAX DIM	K ±.060 DIM	L MAX DIM	M ±.060 DIM	N DIA	P MIN DIM
09	.775	.565	.36	.38	.70	.32	.135	2-56	.90	.650	.465	.607	.156	.75
15	.925	.715	.36	.55	.82	.44	.135	2-56	.96	.700	.470	.643	.188	.88
21	1.075	.865	.36	.73	.94	.56	.135	2-56	.99	.735	.488	.677	.219	1.00
25	1.175	.965	.36	.82	1.00	.62	.135	2-56	1.05	.800	.513	.718	.250	1.06
31	1.325	1.115	.36	.95	1.06	.68	.135	2-56	1.08	.860	.506	.726	.265	1.12
37	1.475	1.265	.36	1.10	1.10	.72	.135	2-56	1.12	.925	.508	.744	.281	1.16
51	1.425	1.215	.40	1.05	1.13	.75	.135	2-56	1.21	.975	.578	.829	.312	1.19
100	2.160	1.800	.45	1.44	1.19	.81	.135	4-40	1.28	1.050	.717	.984	.375	1.25

EXAMPLE PART NUMBER

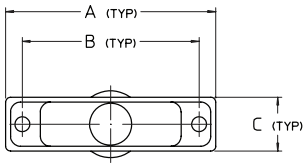
J1638 S 09 M 34

- PLATING (2.)
- JACKSCREW OPTION (5.)
- SHELL SIZE
- CONFIGURATION (4.)
- BASIC PART NUMBER

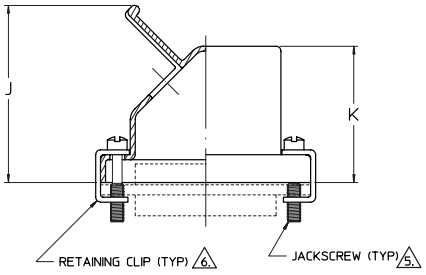




90° CONFIGURATION (4.)



STRAIGHT CONFIGURATION



45° CONFIGURATION (4.)

2. PLATING LEGEND	
CODE NUMBER	FINISH
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.
08	ANODIZE, BLACK

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

(2.) INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

3. MATERIAL: BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225, ASTM B221, OR ASTM B85; HARDWARE - 300 SERIES SST.

(4.) INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE CONFIGURATION REQUIRED:
"T" = STRAIGHT CONFIGURATION (TOP ENTRY)
"A" = 45° CONFIGURATION (END ENTRY)
"S" = 90° CONFIGURATION (SIDE ENTRY)

(5.) INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE JACKSCREW OPTION REQUIRED:
"M" - FOR FILLISTER HEAD SCREWS.
"H" - FOR HEX SOCKET HEAD CAP SCREWS.
"F" - FOR FEMALE JACKSCREWS.
"E" - FOR EXTENDED LENGTH JACKSCREW.

(6.) ON SHELL SIZE "H" RETAINING RINGS WILL BE SUPPLIED IN LIEU OF JACKSCREW RETAINING CLIPS.

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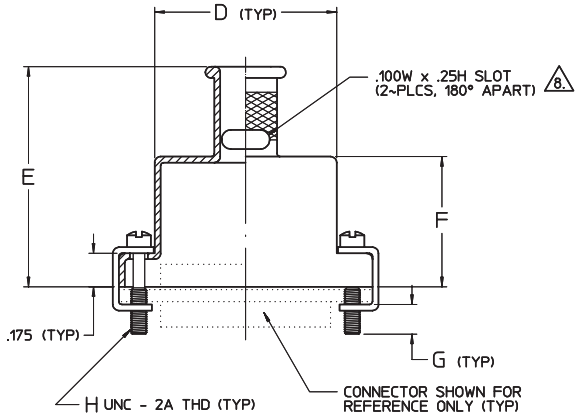
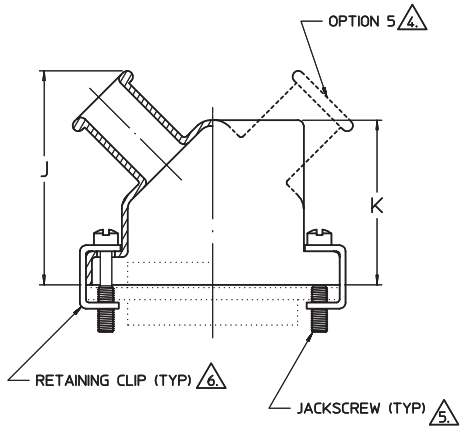
EXAMPLE PART NUMBER

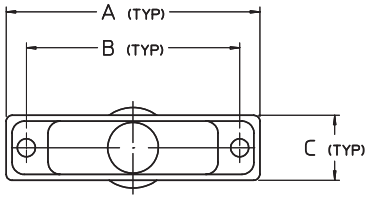
J1636-1 A 03 H 6 34 S L

- BASIC PART NUMBER
- CONFIGURATION 4.
- SHELL SIZE
- ENTRY SIZE 10.
- JACKSCREW OPTION 5.
- SHIELD SOCK LENGTH 11.
- PLATING 2.
- SLOT OPTION 8.
- LACE TITE OPTION 12.

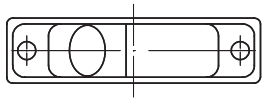
ENTRY SIZE	S DIA	T DIA
04	.125	.281
05	.156	.312
06	.188	.344
07	.219	.375
08	.250	.406
09	.281	.437
10	.312	.469
11	.344	.500
12	.375	.531



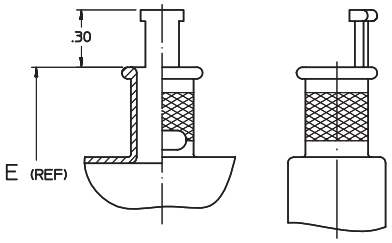




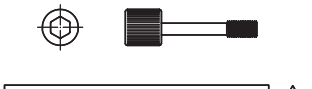
STRAIGHT CONFIGURATION



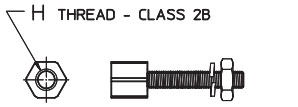
45° CONFIGURATION 4.



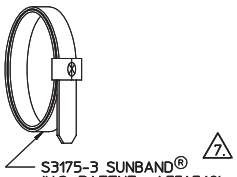
LACE-TITE OPTION 12.



"H" JACKSCREW OPTION 5.

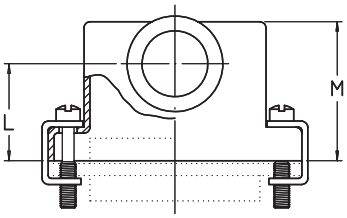


"F" JACKSCREW OPTION 5.

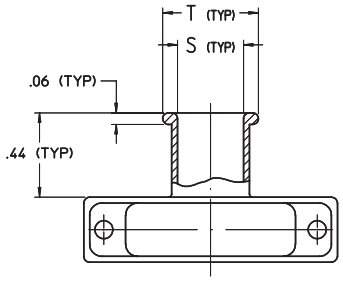


SHELL SIZE	A DIM	B DIM	C DIM	D DIM	E MAX DIM	F DIM	G (REF) DIM	H UNC THD	J MAX DIM	K ±.060 DIM	L ±.060 DIM	M ±.060 DIM	MAX ENTRY SIZE
A	.775	.565	.36	.38	.780	.32	.135	2-56	1.000	.650	.465	.607	08
B	.925	.715	.36	.55	.910	.44	.135	2-56	1.030	.700	.470	.643	08
C	1.075	.865	.36	.73	1.030	.56	.135	2-56	1.050	.735	.488	.677	08
D	1.175	.965	.36	.82	1.090	.62	.135	2-56	1.090	.800	.513	.718	08
E	1.325	1.115	.36	.95	1.150	.68	.135	2-56	1.130	.860	.506	.726	09
F	1.475	1.265	.36	1.10	1.190	.72	.135	2-56	1.160	.925	.508	.744	09
G	1.425	1.215	.40	1.05	1.220	.75	.135	2-56	1.250	.975	.578	.829	10
H	2.160	1.800	.45	1.44	1.280	.81	.135	4-40	1.320	1.050	.717	.984	12

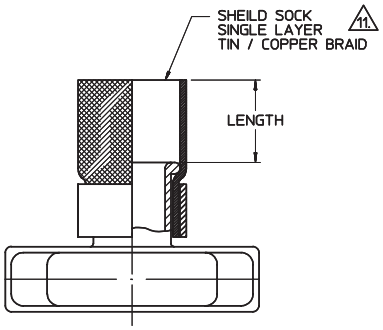
△9.



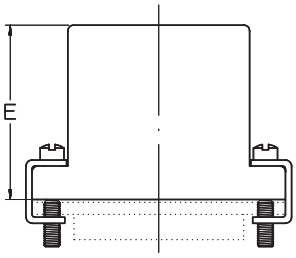
△2. PLATING LEGEND	
CODE NUMBER	FINISH
02	CADMIUM PLATE, CLEAR, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER AMS2404, .0005 MIN THICKNESS.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.



90° CONFIGURATION △4.



BRAID SOCK OPTION



SHORTING CAN △4.

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

△2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

3. MATERIAL: BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225 OR ASTM B85; HARDWARE - 300 SERIES SST.

△4. INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE THE CONFIGURATION REQUIRED.
"1" = STRAIGHT CONFIGURATION
"2" = 45° CONFIGURATION
"3" = 90° CONFIGURATION
"4" = SHORTING CAN
"5" = DUAL 45° ENTRY

△5. INSERT THE FOLLOWING LETTER DESIGNATORS FOR JACKSCREW TYPE REQUIRED. OMIT FOR STANDARD FILLISTER HEAD JACKSCREWS.
"H" FOR (2) HEX SOCKET JACKSCREWS
"F" FOR (2) FEMALE JACKSCREW
"FH" FOR (1) FEMALE JACKSCREW & (1) HEX SOCKET JACKSCREW
"FM" FOR (1) FEMALE JACKSCREW & (1) MALE FILLISTER HEAD JACKSCREW

△6. ON SHELL SIZE "H" RETAINING RINGS WILL BE SUPPLIED IN LIEU OF JACKSCREW RETAINING CLIPS.

△7. SUNBAND® SUPPLIED WITH EACH ASSEMBLY. SUNBAND® MAY BE ORDERED SEPERATELY, PART NUMBER: "S3175-3". (CONSULT FACTORY FOR INSTALLATION TOOLS)

△8. ADD "S" TO RECEIVE SLOTTED SHIELD TERMINATION PLATFORM. ONLY ONE SLOT TO BE PROVIDED FOR ENTRY SIZES 04-08.

△9. MAXIMUM ALLOWABLE ENTRY IS "12" FOR SHELL SIZE "G", 90° CONFIGURATION ONLY.

△10. OMIT ENTRY SIZE WHEN COFFIGURATION "4" IS ORDERED.

△11. INSERT SHIELD SOCK LENGTH IN 1 INCH INCREMENTS (6 = 6 INCHES) AVAILIBLE IN ALL CONFIGURATIONS (ENTER - FOR NO SHIELD SOCK)

△12. INSERT THE LETTER "L" FOR ENTRY SUPPLIED WITH LACE-TITE OPTION AT THE END OF BAND PLATFORM, SUPPLIED WITH ADDITIONAL SUNBAND (LACE-TITE OPTION IS NOT AVAILABLE WITH SHIELD SOCK OPTION)

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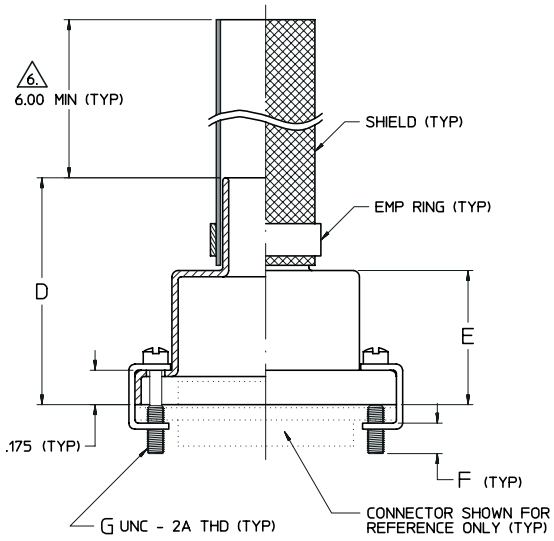
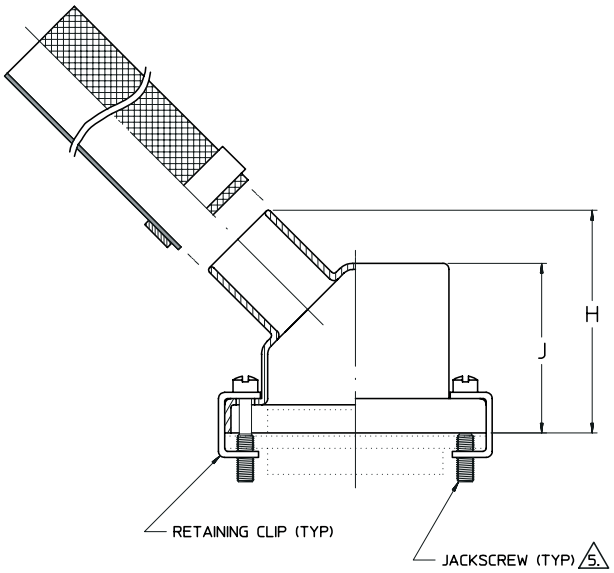
EXAMPLE PART NUMBER

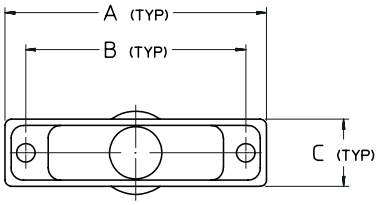
J1654 T 25 M 06-12-12

- BRAID LENGTH 6.
- PLATING 2.
- ENTRY SIZE
- JACKSCREW OPTION 5.
- SHELL SIZE
- CONFIGURATION 4.
- BASIC PART NUMBER

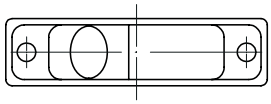
ENTRY SIZE	S DIA
04	.125
05	.156
06	.188
07	.219
08	.250
09	.281
10	.312
11	.344
12	.375







STRAIGHT CONFIGURATION 4.



45° CONFIGURATION 4.

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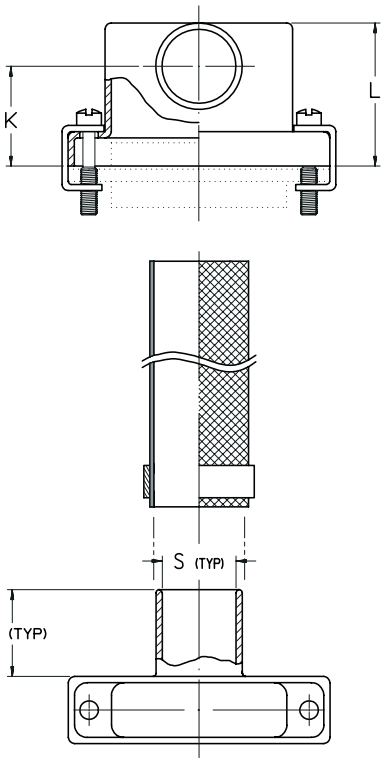
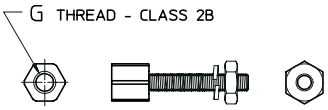
SHELL SIZE	A DIM	B DIM	C DIM	D DIM	E DIM	F DIM	G UNC-2A THREAD	H MAX DIM	J DIM	K DIM	L DIM	MAX ENTRY SIZE
09	.775	.565	.36	.75	.32	.154	#2-56	1.00	.650	.435	.607	08
15	.925	.715	.36	.88	.44	.154	#2-56	1.03	.700	.440	.643	08
21	1.075	.865	.36	1.00	.56	.154	#2-56	1.05	.735	.458	.677	08
25	1.175	.965	.36	1.06	.62	.154	#2-56	1.09	.800	.483	.718	08
31	1.325	1.115	.36	1.12	.68	.154	#2-56	1.13	.860	.476	.726	09
37	1.475	1.265	.36	1.16	.72	.154	#2-56	1.16	.925	.478	.744	09
51	1.425	1.215	.40	1.19	.75	.154	#2-56	1.25	.975	.548	.829	10
100	2.160	1.800	.45	1.25	.81	.194	#4-40	1.32	1.050	.687	.984	12

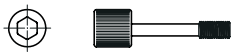
△2. PLATING LEGEND	
CODE NUMBER	FINISH
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER AMS2404, .0005 MIN THICKNESS.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.



90° CONFIGURATION △4.



"F" JACKSCREW OPTION △5.



"H" JACKSCREW OPTION △5.

NOTES:

1. IDENTIFIED PER MIL-STD-130.

△2. INSERT PLATING CODE NUMBER FOR FINISH DESIRED.

3. MATERIAL: ADAPTER - ALUMINUM ALLOY PER QQ-A-225, ASTM B221, OR ASTM B211, OR ASTM B85.
HARDWARE - 300 SERIES SST.
BRAID - TINNED COPPER PER ASTM B33
EMP RING - ALUMINUM ALLOY OR BRONZE WITH IRIDITE FINISH PER MIL-C-5541 CLASS 3

△4. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE CONFIGURATION REQUIRED:
"T" = STRAIGHT CONFIGURATION
"A" = 45˚ CONFIGURATION
"S" = 90˚ CONFIGURATION

△5. INSERT ONE OF THE FOLLOWING DESIGNATORS FOR JACKSCREW TYPE REQUIRED:
"M" = FOR (2) FILLISTER HEAD JACKSCREWS.
"H" = FOR (2) HEX SOCKET JACKSCREWS.
"F" = FOR (2) FEMALE JACKSCREWS.
"FH"= FOR (1) FEMALE JACKSCREW & (1) HEX SOCKET JACKSCREW.
"FM"= FOR (1) FEMALE JACKSCREW & (1) MALE FILLISTER HEAD JACKSCREW.

6. THIS LENGTH TO BE SPECIFIED BY CUSTOMER IN 1 INCH INCREMENTS, 3 INCH MIN ORDER LENGTH. (OMIT FOR STANDARD LENGTH OF 6 INCHES MINIMUM)

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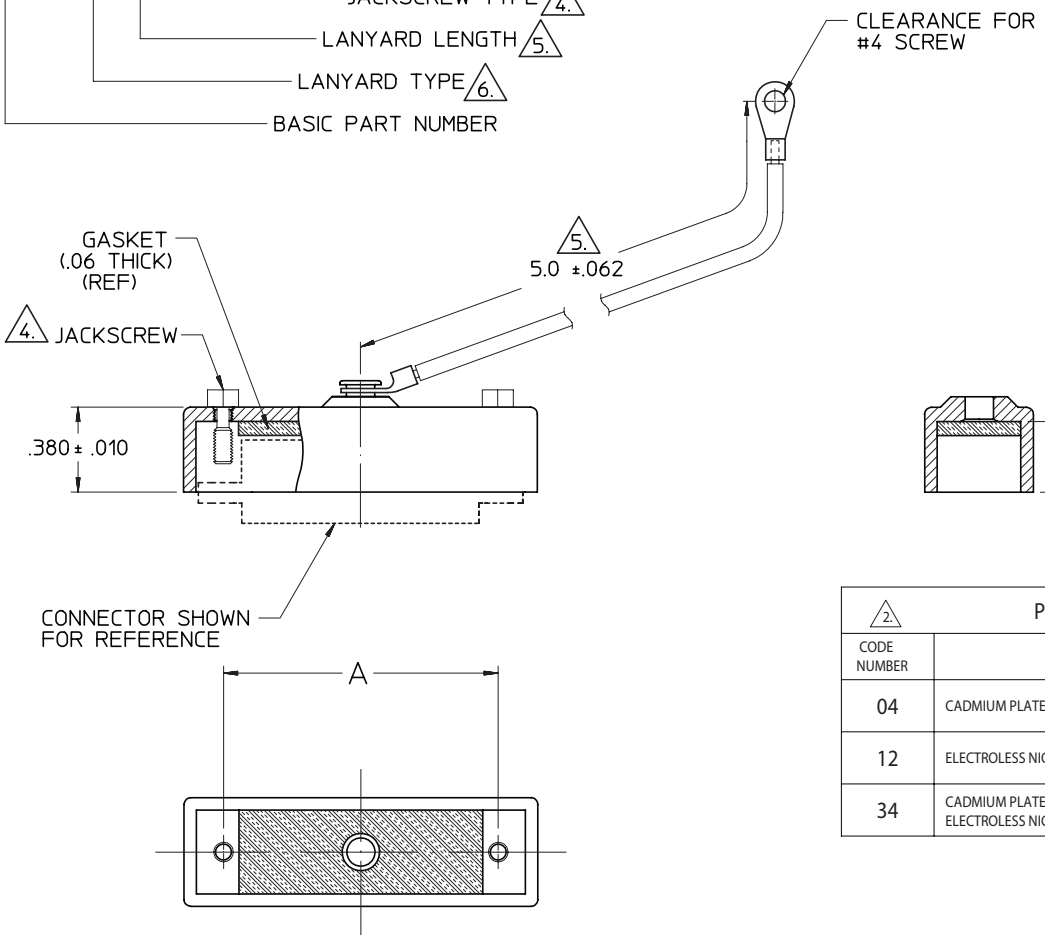
EXAMPLE PART NUMBER

J1658 W 4 MH 51 - 34

- FINISH 2.
- SHELL SIZE
- JACKSCREW TYPE 4.
- LANYARD LENGTH 5.
- LANYARD TYPE 6.
- BASIC PART NUMBER



SHELL SIZE	A ±.005 DIM
9	.565
15	.715
21	.865
25	.965
31	1.115
37	1.265
51	1.215

2. PLATING LEGEND	
CODE NUMBER	FINISH
04	CADMIUM PLATE, OLIVE DRAB
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

2. MATERIAL / FINISH: ADAPTER ASSEMBLY - ALUMINUM ALLOY / SEE PLATING LEGEND

3. MATES TO: MIL-C-83513 CONNECTORS.

4. JACKSCREW TYPE: ADD THE FOLLOWING LETTER DESIGNATOR TO DEFINE THE JACKSCREW TYPE REQUIRED.
   "MH" - MALE HEX JACKSCREW
   "MF" - MALE FILLISTER HEAD JACKSCREW

5. LANYARD LENGTH: TO BE SPECIFIED BY CUSTOMER IN 0.5" INCREMENTS WITH A MINIMUM ORDER LENGTH OF 3.0" (OMIT FOR STANDARD 5.0" LENGTH).

6. LANYARD TYPE: ADD THE FOLLOWING LETTER DESIGNATOR TO DEFINE THE LANYARD TYPE REQUIRED.
   "W" - SST WIRE ROPE, NYLON COVERD
   "WT" - SST WIRE ROPE, TEFLON COVERD
   "WP" - SST WIRE ROPE, PVC COVERD

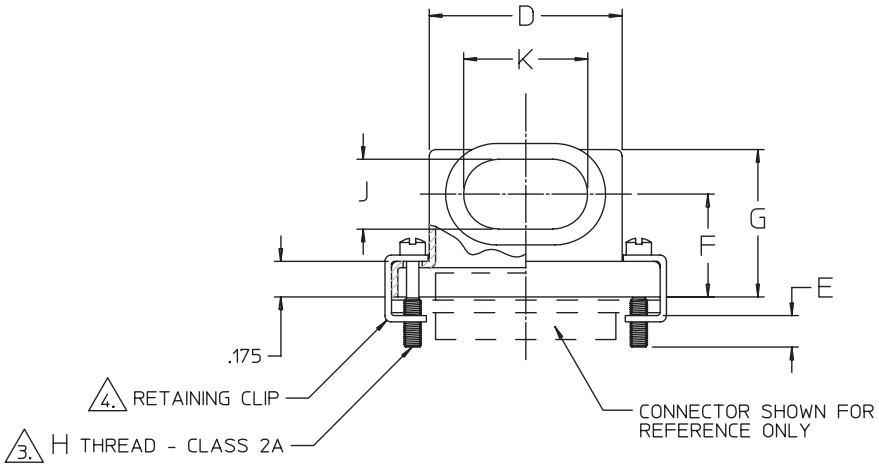
SHELL SIZE	A DIM	B DIM	C DIM	D DIM	E (REF) DIM	F MAX DIM	G DIM	H UNC THD	J ±.010 DIM	K ±.010 DIM
A	.775	.565	.36	.38	.135	.465	.607	#2-56	.188	.281
B	.925	.715	.36	.55	.135	.470	.643	#2-56	.188	.375
C	1.075	.865	.36	.73	.135	.488	.677	#2-56	.219	.437
D	1.175	.965	.36	.82	.135	.513	.718	#2-56	.250	.500
E	1.325	1.115	.36	.95	.135	.506	.726	#2-56	.265	.625
F	1.475	1.265	.36	1.10	.135	.508	.744	#2-56	.281	.750
G	1.425	1.215	.40	1.05	.135	.578	.829	#2-56	.312	.875
H	2.160	1.800	.45	1.44	.135	.717	.984	#4-40	.375	1.000

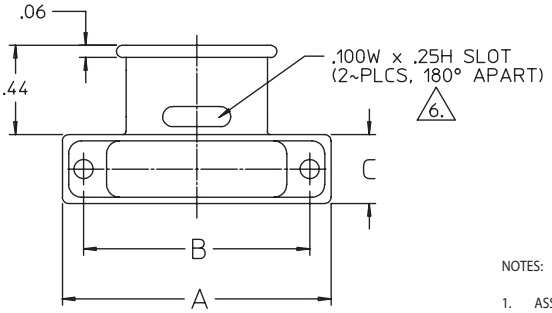
2. PLATING LEGEND	
CODE NUMBER	FINISH
02	CADMIUM PLATE, CLEAR
04	CADMIUM PLATE, OLIVE DRAB
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTRLESS NICKEL

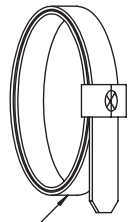
EXAMPLE PART NUMBER

J1731 A H-34 S - 1

- 1 — MINI BAND® OPTION 7.
- S — SLOT OPTION 6.
- 34 — PLATING 2.
- H — JACKSCREW OPTION 3.
- A — SHELL SIZE
- J1731 — BASIC PART NUMBER

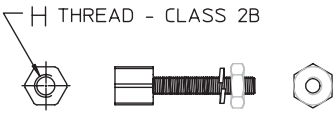






S3175-3 MINI-BAND®
(U.S. PATENT #4,751,769) 5.

"H" JACKSCREW OPTION 3.



"F" JACKSCREW OPTION 3.

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. MATERIAL /FINISH: BACKSHELL ASSEMBLY - ALUMINUM ALLOY / SEE PLATING LEGEND
   HARDWARE - SST / PASSIVATED
   MINI-BAND - SST / PASSIVATED
3. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS FOR JACKSCREW TYPE REQUIRED. OMIT FOR STANDARD FILLISTER HEAD JACKSCREWS.
   "H" FOR (2) HEX SOCKET JACKSCREWS
   "F" FOR (2) FEMALE JACKSCREW
   "FH" FOR (1) FEMALE JACKSCREW & (1) HEX SOCKET JACKSCREW
   "FM" FOR (1) FEMALE JACKSCREW & (1) MALE FILLISTER HEAD JACKSCREW
4. ON SHELL SIZE "H" RETAINING RINGS WILL BE SUPPLIED IN LIEU OF JACKSCREW RETAINING CLIPS.
5. MINI-BAND SUPPLIED WITH EACH ASSEMBLY. MINI-BAND MAY BE ORDERED SEPERATELY, PART NUMBER: "S3175-3". (CONSULT FACTORY FOR INSTALLATION TOOLS)
6. ADD "S" TO RECEIVE SLOTTED SHIELD TERMINATION PLATFORM (OMIT IF NOT REQUIRED).
7. INSERT "1" FOR ASSEMBLY SUPPLIED WITHOUT MINI-BAND.
   OMIT FOR STD ASSEMBLY SUPPLIED WITH MINI-BAND.

SELF-SEATING® PATENT NO. 5,435,760

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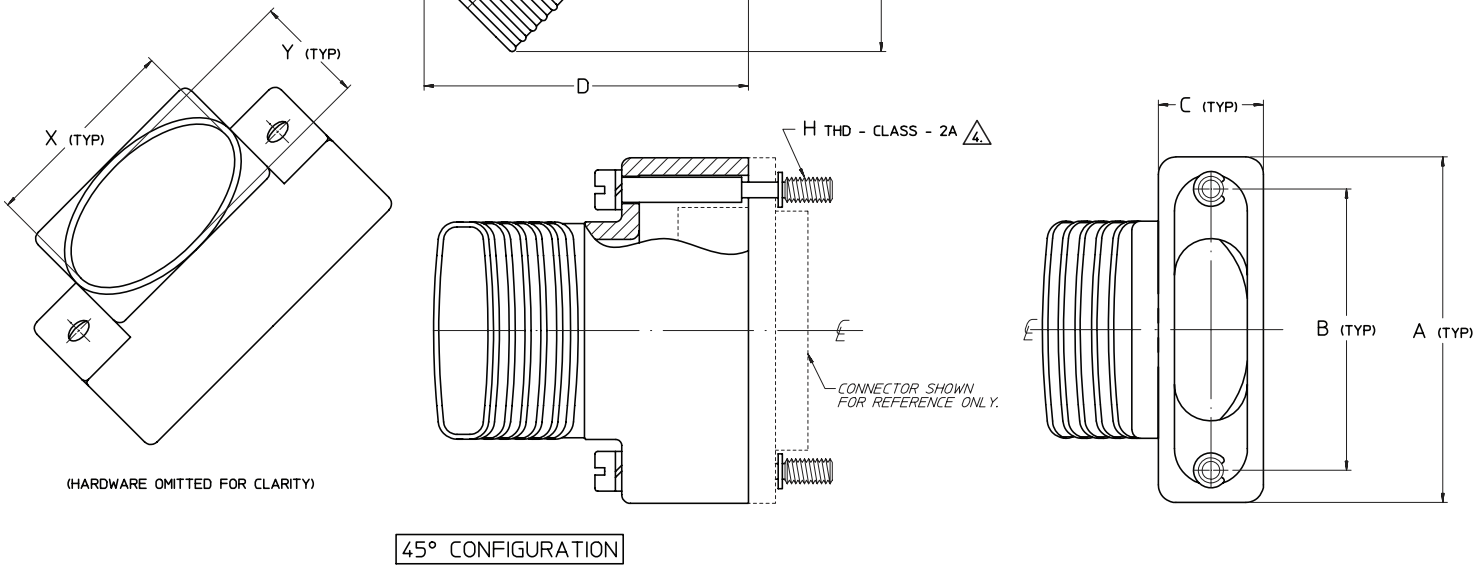
EXAMPLE PART NUMBER

J1765 R 100 D - H - 12A - *

- BASIC PART NUMBER
- CONFIGURATION OPTION "-" = 45° "R" = 90° "S" = STRAIGHT
- CONNECTOR SIZE (TABLE I)
- ENTRY SIZE (TABLE II)
- JACK SCREW OPTION 4.
- FINISH CODE (TABLE III)
- SUNBAND OPTION "1" = WITHOUT BAND "2" = WITH BAND



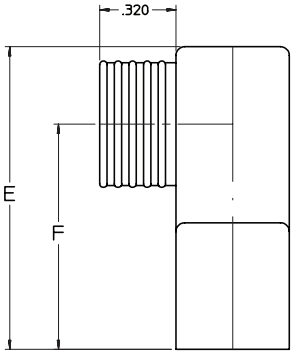
45° CONFIGURATION

TABLE III

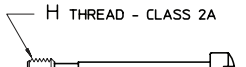
CODE NUMBER	FINISH
01	IRIDITE, NO. 14-2, YELLOW
04	CADMIUM PLATE, OLIVE DRAB
08	ANODIZE, BLACK
12A	ELECTROLESS NICKEL
17	CADMIUM PLATE, YELLOW/GOLD
29	CADMIUM PLATE, CLEAR, OVER ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB, OVER ELECTROLESS NICKEL
96	GOLD PER MIL-G-45204

TABLE I

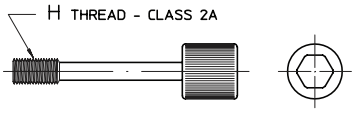
CONNECTOR SIZE	A MAX DIM	B DIM	C DIM	D MAX DIM	E MAX DIM	F ±.010 DIM	G MAX DIM	H UNC THREAD	J MAX DIM
9	.785	.565	.340	.851	.865	.615	1.056	#2-56	.673
15	.935	.715	.340	.875	.865	.615	1.056	#2-56	.673
21	1.085	.865	.340	.901	.865	.615	1.056	#2-56	.673
25	1.185	.965	.360	.943	.885	.625	1.056	#2-56	.700
31	1.335	1.115	.360	.963	.885	.625	1.056	#2-56	.700
37	1.485	1.265	.360	.983	.885	.625	1.056	#2-56	.700
51	1.435	1.215	.400	1.058	.925	.645	1.103	#2-56	.755
100	2.170	1.800	.450	1.135	.960	.657	1.168	#4-40	.824



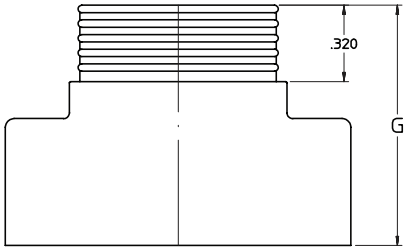
90° CONFIGURATION
(HARDWARE OMITTED FOR CLARITY)



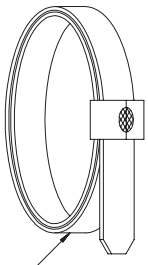
"M" JACKSCREW OPTION 4.



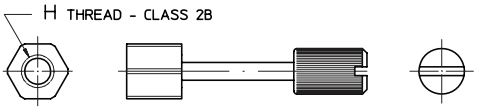
"H" JACKSCREW OPTION 4.



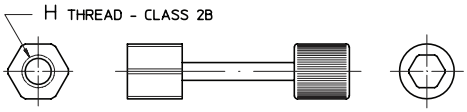
STRAIGHT CONFIGURATION
(HARDWARE OMITTED FOR CLARITY)



S3175-2 SUNBAND®
(U.S. PATENT #4,751,769) 3.



"FS" JACKSCREW OPTION 4.



"F" JACKSCREW OPTION 4.

TABLE II

ENTRY SIZE	X ±.010 DIM	Y ±.010 DIM	AVAILABLE SHELL SIZE
A	.328	.290	9 THRU 100
B	.478	.290	15 THRU 100
C	.628	.290	21 THRU 100
D	.728	.304	25 THRU 100
E	.878	.304	31 THRU 100
F	.978	.304	37 THRU 100
G	1.028	.304	37 & 100
H	1.508	.384	100

NOTES:

1. IDENTIFIED PER MIL-STD-130.
2. MATERIAL / FINISH: ADAPTER COMPONENTS - ALUMINUM ALLOY / SEE TABLE III
   HARDWARE - SST / PASIVATED
3. CONSULT FACTORY FOR INSTALLATION TOOLS.
4. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS FOR JACKSCREW TYPE REQUIRED.
   "H" FOR (2) MALE HEX SOCKET JACKSCREWS
   "F" FOR (2) FEMALE JACKSCREW
   "FH" FOR (1) FEMALE JACKSCREW & (1) MALE HEX SOCKET JACKSCREW
   "FM" FOR (1) FEMALE JACKSCREW & (1) MALE SLOTTED HEAD JACKSCREW
   "M" FOR (2) MALE SLOTTED HEAD JACKSCREW
   "FS" FOR (2) FEMALE SLOTTED HEAD JACKSCREW

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Blank

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Rectangular Accessories
Solid D-Subs

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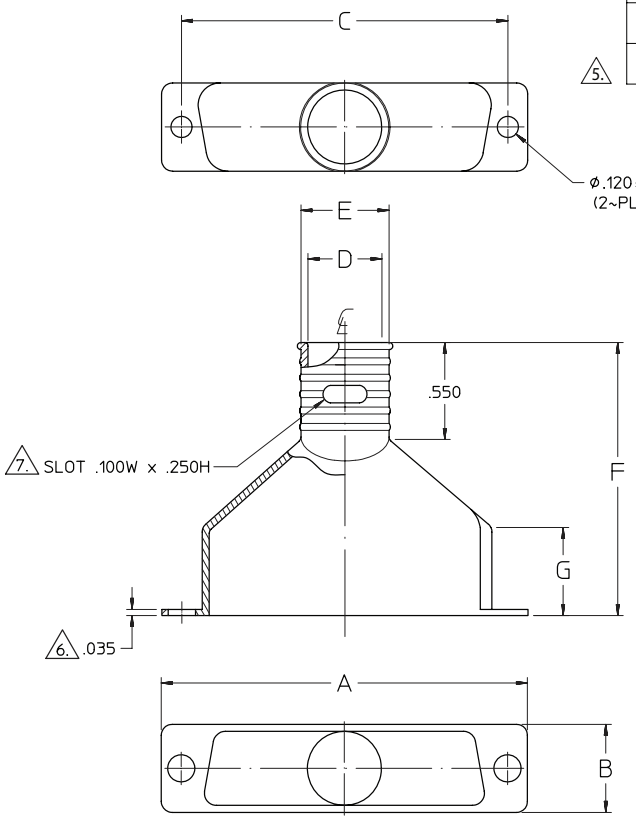
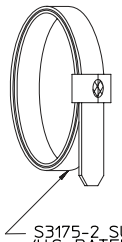
SHELL SIZE	A ±.015 DIM	B ±.020 DIM	C ±.005 DIM	D ±.010 DIA	E ±.015 DIA	F ±.030 DIM	G ±.010 DIM
9	1.203	.500	.984	.270	.350	1.190	.440
15	1.531	.500	1.312	.395	.475	1.270	.440
25	2.078	.500	1.852	.420	.500	1.550	.500
37	2.718	.500	2.500	.420	.500	1.690	.500
50	2.625	.609	2.406	.529	.609	1.670	.440
5. 104	2.730	.670	2.500	.573	.653	1.690	.500

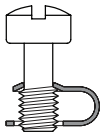


EXAMPLE PART NUMBER

J1587 - 37 - 12 - 1

- SUNBAND® OPTION 4.
- SLOT OPTION 7.
- PLATING 2.
- SCREW LOCK OPTION 6.
- SHELL SIZE
- BASIC PART NUMBER





MALE SCREW LOCK HARDWARE 6.

2. PLATING LEGEND	
CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTES:

1. IDENTIFIED PER MIL-STD-130.
2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.
3. MATERIAL: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591.
4. INSERT ONE OF THE FOLLOWING DESIGNATORS TO DEFINE TO SUNBAND® OPTION REQUIREMENTS:
   "1" - FOR NO SUNBAND® SUPPLIED.
   "2" - FOR SUNBAND® SUPPLIED.
   (CONSULT FACTORY FOR INSTALLATION TOOLS)
5. '-104' CONFIGURATION TO MATE WITH 104 PIN 'COMPACT D' CONNECTORS, SHELL SIZE 'F'.
6. INSERT ONE OF THE FOLOWING DESIGNATORS TO DEFINE THE SCREW LOCK OPTION REQUIRED.
   "-" - FOR NO SCREW LOCK SUPPLIED
   "S" - FOR SCREW LOCK SUPPLIED
   "H" - FOR .060 THICK FLANGE, NO SCREW LOCK SUPPLIED
   "F" & "G" DIMENSIONS WILL INCREASE BY .025.
7. REPLACE THE "-" WITH AN "S" TO RECIEVE SLOTTED SHIELD TERMINATION PLATFORM.
   ONE SLOT IS PROVIDED FOR SHELL SIZES 9 & 15
   TWO SLOTS, 180° APART, ARE PROVIDED ON SHELL SIZES 25 AND ABOVE

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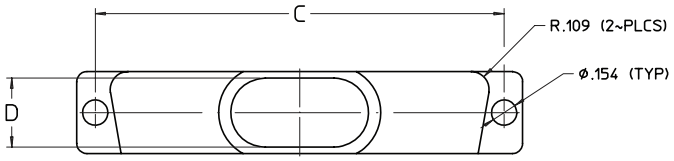
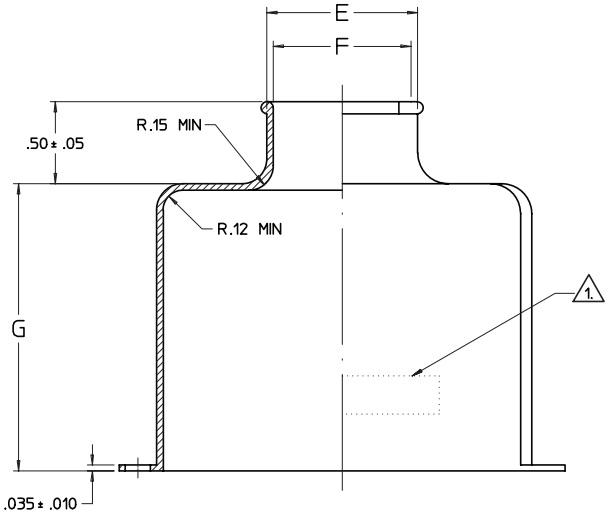
SHELL SIZE	A ±.020 DIM	B ±.015 DIM	C ±.005 DIM	D ±.015 DIM	E ±.015 DIA	F ±.010 DIA	G +.100 -.000 DIM
9	1.203	.500	.984	.270	.620	.540	.750
15	1.531	.500	1.312	.395	.870	.790	.750
25	2.078	.500	1.852	.420	.920	.840	.870
37	2.718	.500	2.500	.420	.920	.840	1.120
50	2.625	.609	2.406	.529	1.138	1.058	1.120

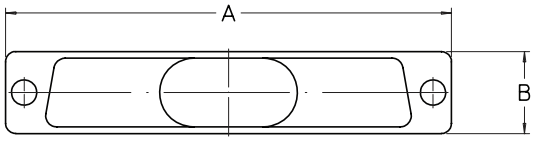


EXAMPLE PART NUMBER

J1589 - 37 - 12

- 12 — PLATING 2.
- 37 — SHELL SIZE
- J1589 — BASIC PART NUMBER





2. PLATING LEGEND	
CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

3. MATERIAL: ALUMINUM ALLOY PER QQ-A-200/8 OR QQ-A-591.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED. OMIT FOR STANDARD ELECTROPLATED GOLD PER MIL-G-45204 TYPE II, CLASS 1 MIN, OVER NICKEL FLASH.

1. IDENTIFIED PER MIL-STD-130.

NOTES:

SELF-SEATING PATENT NO. 5,435,760

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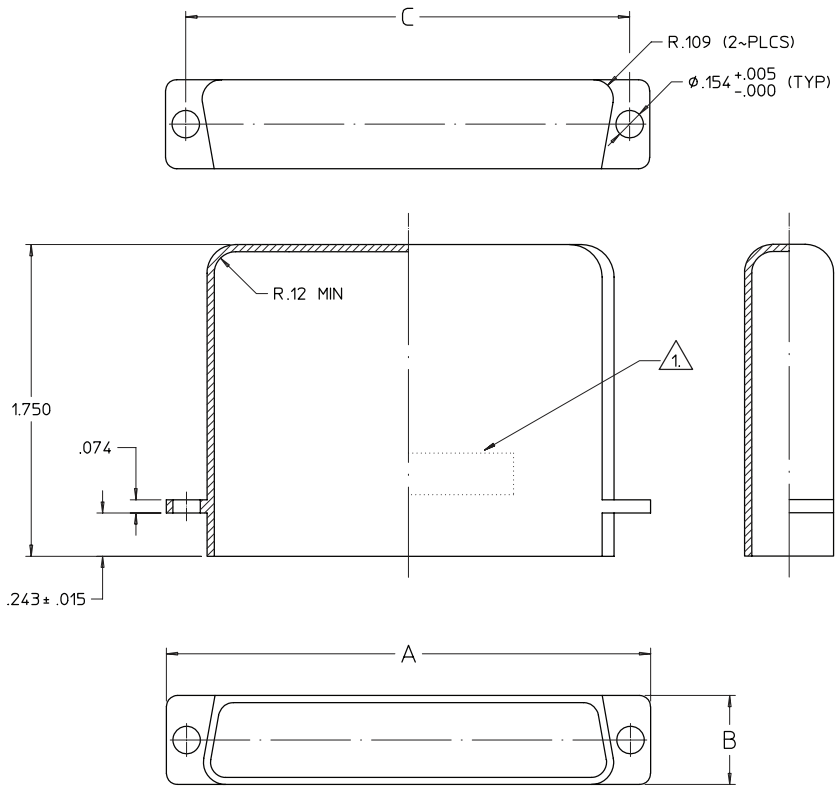
EXAMPLE PART NUMBER

J1590 - 37 - 12

- 12 — PLATING (2.)
- 37 — SHELL SIZE
- J1590 — BASIC PART NUMBER

SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C ±.005 DIM
9	1.203	.500	.984
15	1.531	.500	1.312
25	2.078	.500	1.852
37	2.718	.500	2.500
50	2.625	.609	2.406



(2.)	PLATING LEGEND
CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

3. MATERIAL: ALUMINUM ALLOY PER QQ-A-200/8 OR QQ-A-591.

(2.) INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

(1.) IDENTIFIED PER MIL-STD-130.

NOTES:

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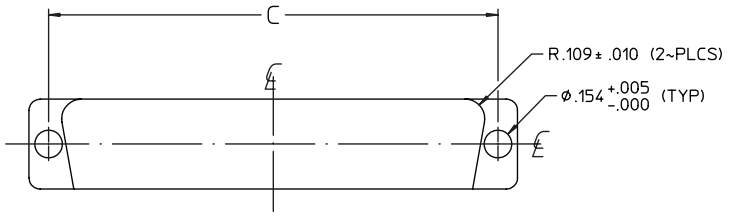
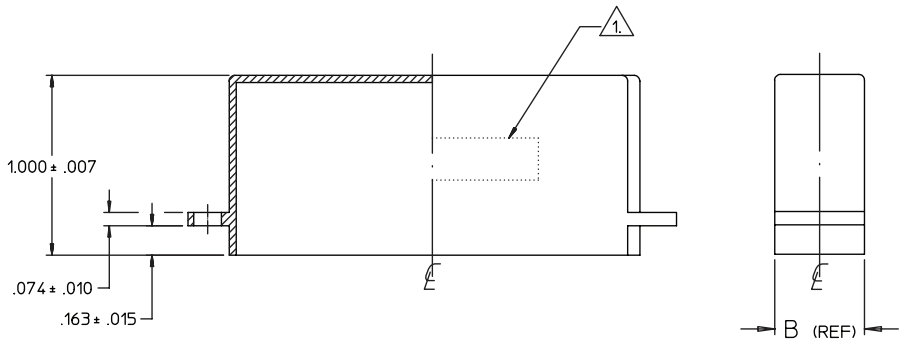
EXAMPLE PART NUMBER

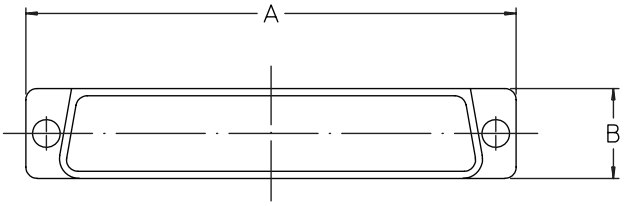
J1596 - 37 - 12

- 12 — PLATING (2.)
- 37 — SHELL SIZE
- J1596 — BASIC PART NUMBER

SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C ±.005 DIM
9	1.203	.500	.984
15	1.531	.500	1.312
25	2.078	.500	1.852
37	2.718	.500	2.500
50	2.625	.609	2.406







(2.)	PLATING LEGEND
CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTES:

1. IDENTIFIED PER MIL-STD-130.

(2.) INSERT PLATING CODE NUMBER FOR FINISH REQUIRED. OMIT FOR STANDARD ELECTROPLATED GOLD PER MIL-G-45204 OVER NICKEL FLASH.

(3.) MATERIAL: DUSTCAP - ALUMINUM ALLOY PER QQ-A-200, QQ-Q-225 OR QQ-A-591.

SELF-SEATING PATENT NO. 5,435,760

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EXAMPLE PART NUMBER

J1594 - 37 - 12 A - W 5

- BASIC PART NUMBER
- SHELL SIZE (TABLE I)
- HARDWARE OPTION 3.
- FINISH (TABLE II)
- HEIGHT CODE (TABLE III) (OMIT FOR STD 1.750" HEIGHT)
- WIRE ROPE OPTION (TEFLON JACKET) 4.
- LENGTH OPTION 5.

TABLE I

SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C ±.005 DIM
9	1.203	.500	.984
15	1.531	.500	1.312
25	2.078	.500	1.852
37	2.718	.500	2.500
50	2.625	.609	2.406

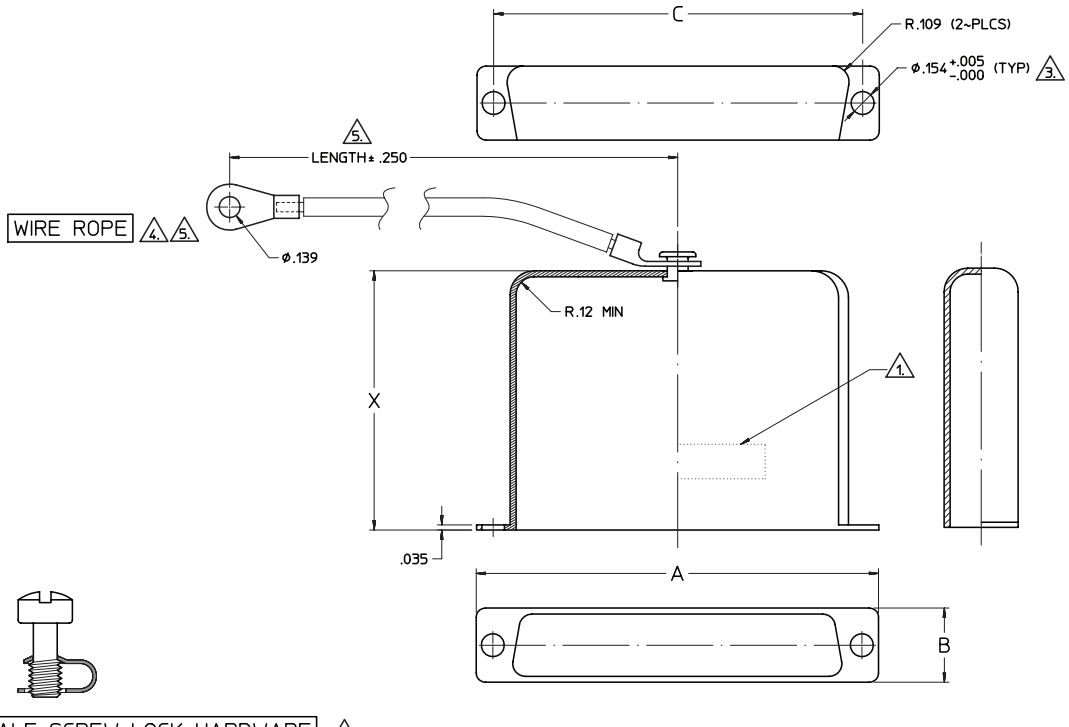
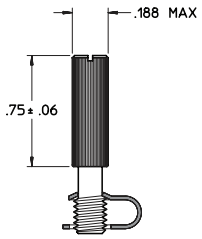


TABLE III

HEIGHT CODE	X ±.031 DIM
A	.750
B	1.000
C	1.250
D	1.500

MALE SCREW LOCK HARDWARE 3.



MALE JACK POST HARDWARE 3.

TABLE II

CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTES:

1. IDENTIFIED PER MIL-STD-130.

2. MATERIAL / FINISH: BACKSHELL - ALUMINUM ALLOY PER QQ-A-200/8 OR QQ-A-591 / SEE TABLE II (OMIT FOR STANDARD ELECTROPLATED GOLD PER MIL-G-45204 OVER ELECTROLESS NICKEL PER MIL-C-26074, CLASS 4, GRADE A)
   HARDWARE: CLIP - SHEET STEEL / CADMIUM PLATE, YELLOW
   SCREW OR JACKPOST - COLD ROLLED STEEL / CADMIUM PLATE, YELLOW

3. INSERT ONE OF THE FOLLOWING DESIGNATORS TO DEFINE THE SCREW LOCK OPTION REQUIRED.
   "-" - FOR NO HARDWARE SUPPLIED, BACKSHELL SUPPLIED WITH ø.154 HOLE.
   "P" - FOR JACK POST HARDWARE SUPPLIED, BACKSHELL SUPPLIED WITH ø.120 HOLE.
   "S" - FOR SCREW LOCK SUPPLIED, BACKSHELL SUPPLIED WITH ø.120 HOLE.
   "T" - FOR BACKSHELL SUPPLIED WITH 4-40 TAPPED HOLES AND MOUNTING FLANGE OF .063 THICK

4. OPTIONAL WIRE ROPE ATTACHMENT (ADD -"W", OMIT FOR NONE)

5. ATTACHMENT LENGTH OPTION. INSERT LENGTH IN INCHES (1 INCH INCREMENTS, 5 INCH MIN)

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EXAMPLE PART NUMBER

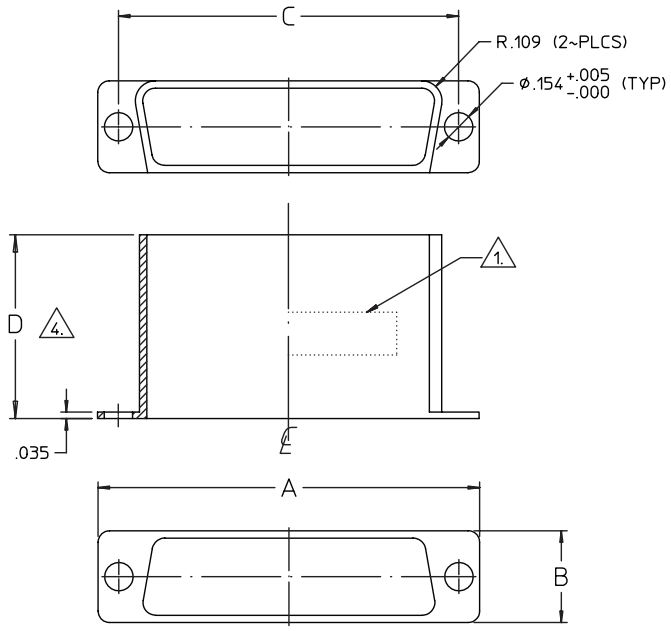
J1597 - 37 - 12

- 12 — PLATING (2.)
- 37 — SHELL SIZE
- 37 — HEIGHT OPTION (4.)
- J1597 — BASIC PART NUMBER

SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C ±.005 DIM
9	1.203	.500	.984
15	1.531	.500	1.312
25	2.078	.500	1.852
37	2.718	.500	2.500
50	2.625	.609	2.406

(4.)

HEIGHT CODE	D ±.030 DIM
A	.400
B	.500
C	.600
D	.700
E	.800
F	.900
-	1.000



(2.)	PLATING LEGEND
CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTES:

(4.) INSERT HEIGHT CODE FOR HEIGHT REQUIRED.

3. MATERIAL: ALUMINUM ALLOY PER QQ-A-200/8 OR QQ-A-591.

(2.) INSERT PLATING CODE NUMBER FOR FINISH REQUIRED. OMIT FOR STANDARD ELECTROPLATED GOLD PER MIL-G-45204 OVER NICKEL FLASH.

(1.) IDENTIFIED PER MIL-STD-130.

SELF-SEATING PATENT NO. 5,435,760

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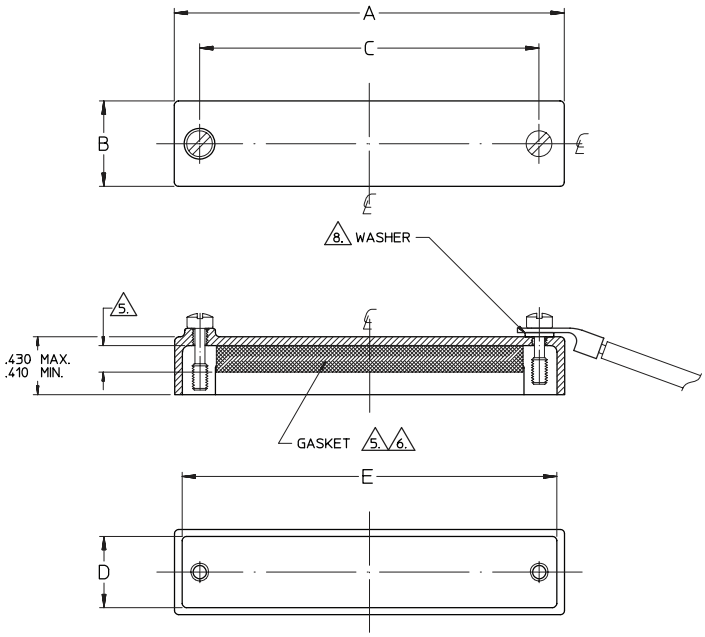
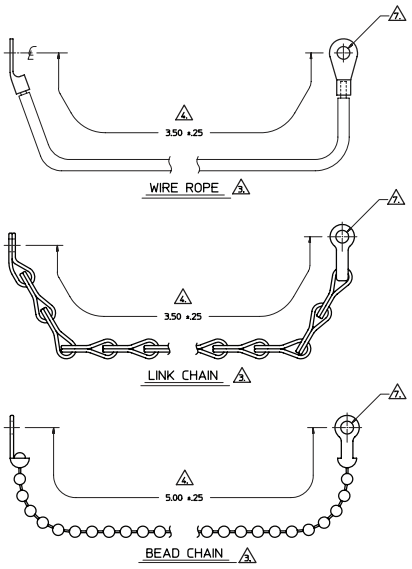
EXAMPLE PART NUMBER

J1732 E W 3.0 F 02 S-1 K

- BASIC PART NUMBER
- CONNECTOR SIZE
- ATTACHMENT TYPE 3.
- LANYARD LENGTH 4.
- MOUNTING STYLE 5.
- FINISH 2.
- GASKET 6.
- ATTACHMENT HOLE SIZE 7.
- OPTIONAL MOUNTING SCREWS 9.



CONNECTOR SIZE	A ±.015 DIM	B ±.015 DIM	C DIM	D ±.010 DIM	E ±.015 DIM
A	1.661	.494	1.312	.380	1.561
B	2.208	.494	1.852	.380	2.108
C	2.849	.494	2.500	.398	2.749
D	2.770	.605	2.406	.504	2.655
E	1.333	.494	.984	.380	1.233



NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. MATERIAL / FINISH: ADAPTER COMPONENTS - ALUMINUM ALLOY / SEE PLATING LEGEND
   GASKET - NEOPRENE / N/A
   HARDWARE - SST / PASSIVATED
   BEAD CHAIN - BRASS / NICKEL PLATED
   WIRE ROPE - SST (PVC COATED) / N/A
   LINK CHAIN - SST / PASSIVATED
3. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE ATTACHMENT TYPE REQUIRED:
   "N" FOR NO ATTACHMENT
   "B" FOR BEAD CHAIN ATTACHMENT
   "C" FOR LINK CHAIN ATTACHMENT
   "W" FOR WIRE ROPE ATTACHMENT
4. LANYARD LENGTH TO BE SPECIFIED BY THE CUSTOMER IN .5 INCH INCREMENTS (2.0 INCH MINIMUM LENGTH) OMIT FOR STANDARD 3.5 INCH LENGTH.
5. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS FOR THE MOUNTING STYLE REQUIRED:
   "F" FOR FRONT MOUNTING STYLE SUPPLIED WITH .188 THICK GASKET
   "B1" FOR BACK MOUNTING STYLE (.062 PANEL) SUPPLIED WITH .250 THICK GASKET
   "B2" FOR BACK MOUNTING STYLE (.125 PANEL WITH .062 RECESS) SUPPLIED WITH .312 THICK GASKET
   "B3" FOR BACK MOUNTING STYLE (.093 WITH .032 RECESS) SUPPLIED W/.281 THICK GASKET.
6. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS FOR THE GASKET MATERIAL REQUIRED:
   "R" FOR CONDUCTIVE SILICONE GASKET
   "S" FOR SILICONE GASKET
   (OMIT FOR STANDARD NEOPRENE)
7. INSERT "-1" FOR ATTACHMENT HOLE TO BE ø.183/.198, OMIT FOR STANDARD ø .138/.149
8. WASHER SUPPLIED WITH "B" AND "W" ATTACHMENT OPTIONS ONLY.
9. INSERT THE FOLLOWING LETTER DESIGNATOR FOR MOUNTING SCREWS:
   "K" FOR SLOTTED KNURLED HEAD SCREW
   (OMIT FOR STANDARD SLOTTED FILLISTER HEAD SCREW)

2. PLATING LEGEND	
CODE NUMBER	FINISH
01	IRIDITE, NO. 14-2, YELLOW
02	CADMIUM PLATE, CLEAR
03	CADMIUM PLATE, YELLOW/GOLD
04	CADMIUM PLATE, OLIVE DRAB
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB, OVER ELECTROLESS NICKEL

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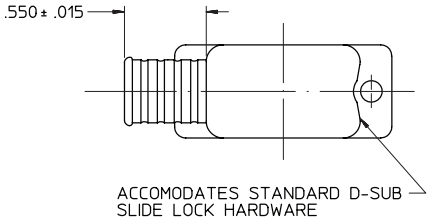
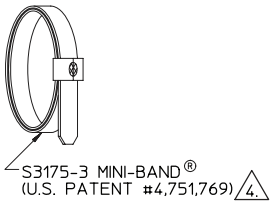
EXAMPLE PART NUMBER

J1733 - 9 - R 34 S2 - 2

- BASIC PART NUMBER
- SHELL SIZE
- GASKET OPTION 6.
- FINISH 2.
- SCREW LOCK OPTION 5.
- MINI-BAND ® OPTION 4.

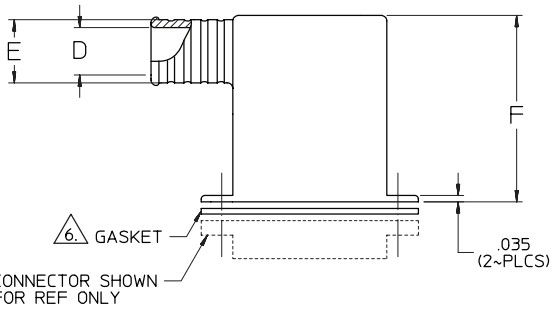
SHELL SIZE	A ±.015 DIM	B ±.020 DIM	C ±.005 DIM	D ±.015 DIA	E ±.015 DIA	F ±.015 DIM
9	1.203	.520	.984	.270	.350	1.000
15	1.531	.520	1.312	.395	.475	1.125
25	2.078	.520	1.852	.420	.500	1.188
37	2.718	.520	2.500	.420	.500	1.188
50	2.625	.629	2.406	.529	.609	1.312
104	2.730	.690	2.500	.573	.653	1.312

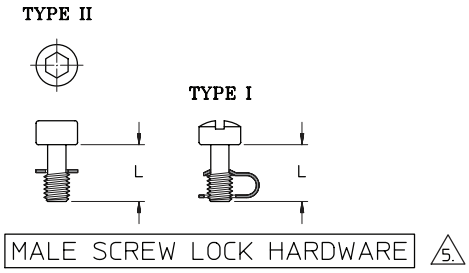


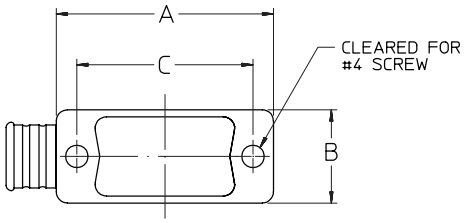


5.

OPTION NUMBER	L DIM	TYPE
S2	.220	I
S3	.295	I
S4	.220	II
S5	.295	II







2.	PLATING LEGEND
CODE NUMBER	FINISH
4	CADMIUM PLATE, OLIVE DRAB
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

2. MATERIAL / FINISH: BACKSHELL - ALUMINUM ALLOY / SEE PLATING LEGEND
   MINIBAND® - SST / PASSIVATED
   RFI GASKET - MONEL & NEOPRENE / N/A
   SCREW LOCK CLIP - SST / N/A
   SCREW LOCK SCREW - STEEL / YELLOW CHROMATE

3. MATES TO: MIL-C-24308 D-SUB MINIATURE CONNECTORS (SHELL SIZE 9 ONLY)

4. INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE THE MINIBAND® OPTION REQUIRED:
   "1" - FOR NO MINIBAND® SUPPLIED
   "2" - FOR MINIBAND® SUPPLIED LOOSE
   (CONSULT FACTORY FOR INSTALLATION TOOLS.)

5. INSERT THE LETTER "S" FOR ASSEMBLY SUPPLIED WITH MALE SCREW LOCK HARDWARE
   (OMIT IF NOT REQUIRED)

6. INSERT THE LETTER "R" FOR ASSEMBLY SUPPLIED WITH EMI/RFI GASKET
   (OMIT IF NOT REQUIRED)

SELF-SEATING PATENT NO. 5,435,760

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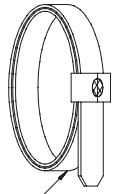
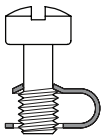
EXAMPLE PART NUMBER

J1737 - 9 - 12 - 1

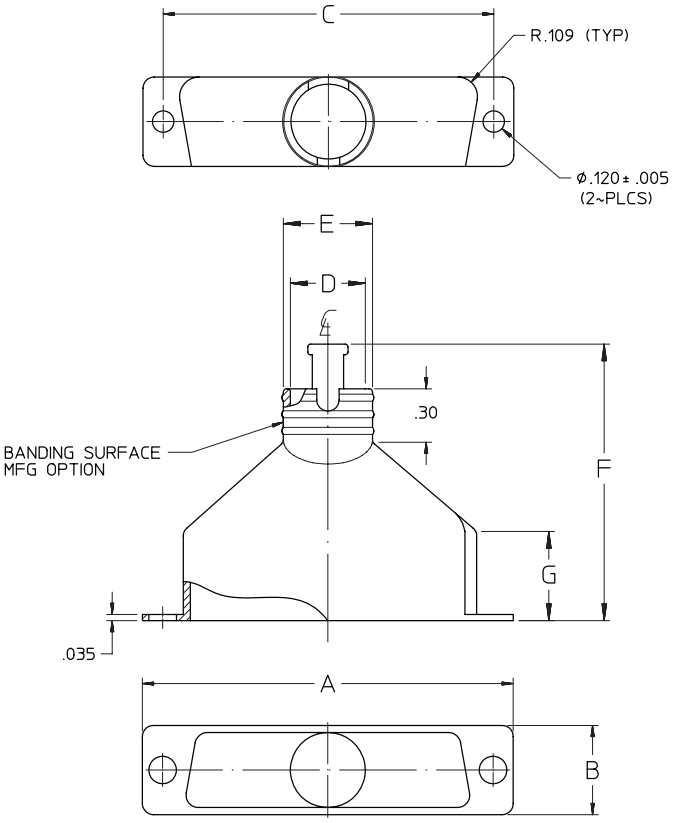
- 1 — MINIBAND® OPTION (3.)
- 12 — FINISH (2.)
- - — SCREW LOCK OPTION (5.)
- 9 — SHELL SIZE
- J1737 — BASIC PART NUMBER

SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C ±.005 DIM	D ±.010 DIA	E ±.015 DIA	F ±.030 DIA	G ±.010 DIA
9	1.203	.500	.984	.270	.350	1.190	.440
15	1.531	.500	1.312	.395	.475	1.270	.440
25	2.078	.500	1.852	.420	.500	1.550	.500
37	2.718	.500	2.500	.420	.500	1.690	.500
50	2.625	.609	2.406	.529	.609	1.670	.440
104 (4.)	2.730	.670	2.500	.529	.609	1.690	.500





MALE SCREW LOCK HARDWARE (5.)



(2.) PLATING LEGEND	
CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW GOLD
04	CADMIUM PLATE, OLIVE DRAB
10	CADMIUM PLATE, BLACK
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. IDENTIFIED PER MIL-STD-130.
2. MATERIAL / FINISH: ALUMINUM ALLOY / SEE PLATING LEGEND
3. INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE TO MINIBAND® OPTION REQUIRED
   "1" - FOR NO MINIBAND® SUPPLIED.
   "2" - FOR MINIBAND® SUPPLIED.
   (CONSULT FACTORY FOR INSTALLATION TOOLS)
4. '-104' CONFIGURATION TO MATE WITH 104 PIN 'COMPACT D' CONNECTORS, SHELL SIZE 'F'.
5. INSERT ONE OF THE FOLOWING DESIGNATORS TO DEFINE THE SCREW LOCK OPTION REQUIRED
   "-" - FOR NO SCREW LOCK SUPPLIED
   "S" - FOR SCREW LOCK SUPPLIED

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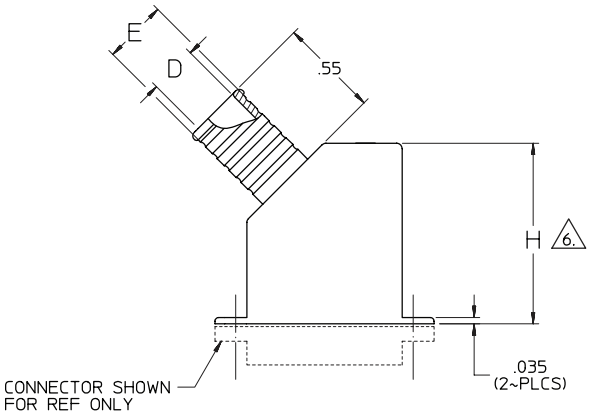
EXAMPLE PART NUMBER

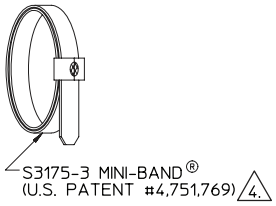
J1738 - 9 - 34 S - 2

- BASIC PART NUMBER
- SHELL SIZE (TABLE I)
- HEIGHT OPTION (TABLE III) 6.
- FINISH (TABLE II) 2.
- SCREW LOCK OPTION 5.
- MINI-BAND ® OPTION 4.

TABLE I

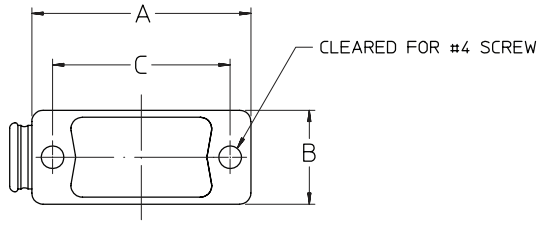
SHELL SIZE	A ±.015 DIM	B ±.020 DIM	C ±.005 DIM	D ±.010 DIA	E ±.010 DIA
9	1.203	.520	.984	.270	.350
15	1.531	.520	1.312	.395	.475
25	2.078	.520	1.852	.420	.500
37	2.718	.520	2.500	.420	.500
50	2.625	.629	2.406	.529	.609
104	2.730	.690	2.500	.573	.653





6. TABLE III

HEIGHT CODE	H MAX DIM
-	1.00
A	1.50
B	2.00
C	2.50
D	3.00
E	3.50



MALE SCREW LOCK HARDWARE 5.

TABLE II

2. PLATING LEGEND	
CODE NUMBER	FINISH
3	CADMIUM PLATE, YELLOW
4	CADMIUM PLATE, OLIVE DRAB
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL
29	CADMIUM PLATE, CLEAR OVER ELECTROLESS NICKEL.

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

2. MATERIAL / FINISH: BACKSHELL - ALUMINUM ALLOY / SEE PLATING LEGEND
   MINIBAND® - SST / PASSIVATED
   SCREW LOCK CLIP - SST / N/A
   SCREW LOCK SCREW - STEEL / YELLOW CHROMATE

3. MATES TO: MIL-C-24308 D-SUB MINIATURE CONNECTORS

4. INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE THE MINIBAND OPTION REQUIRED:
   "1" - FOR NO MINIBAND® SUPPLIED
   "2" - FOR MINIBAND® SUPPLIED LOOSE
   (CONSULT FACTORY FOR INSTALLATION TOOLS.)

5. INSERT THE LETTER "S" FOR ASSEMBLEY SUPPLIED WITH MALE SCREW LOCK HARDWARE
   (OMIT IF NOT REQUIRED)

6. ASSEMBLY CAN BE SUPPLIED IN OPTIONAL HEIGHTS (SEE TABLE III)

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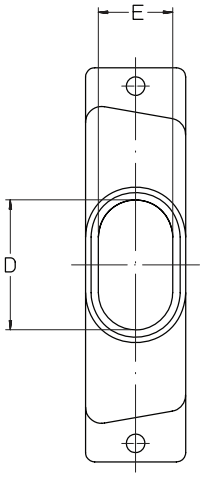
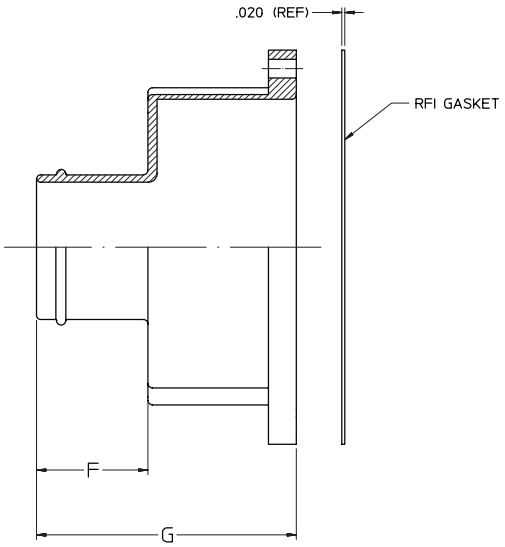
EXAMPLE PART NUMBER
J1740 - 400 - 34 - S
- S: SHIELD (4.)
- 34: FINISH (TABLE II)
- 400: HARDWARE (3.)
- 400: DASH NUMBER (TABLE I)
- J1740: BASIC PART NUMBER

TABLE I

DASH NUMBER	CONNECTOR SIZE (REF)	A ±.031 DIM	B DIM	C MAX DIM	D DIM	E DIM	F ±.031 DIM	G ±.031 DIM
100	25	2.088	1.852	.625	.625	.375	.630	1.500
101	25	2.088	1.852	.625	.875	.375	.630	1.500
200	37	2.729	2.500	.625	.875	.375	.750	1.750
300	50	2.635	2.406	.750	.875	.500	.750	1.750
400	15	1.541	1.312	.625	.281	.281	.630	1.500
500	9	1.213	.984	.625	.188	.188	.500	1.250



MOUNTING HARDWARE (3.)



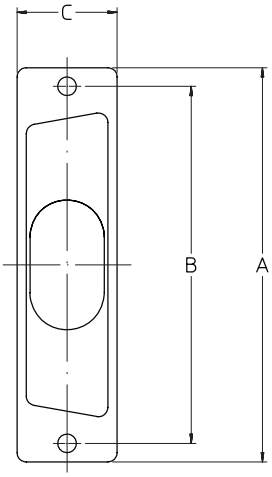


TABLE II

CODE NUMBER	FINISH
01	IRIDITE, NO. 14-2, YELLOW/GOLD
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB, OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER ML-STD-130
2. MATERIAL / FINISH: BACKSHELL - ALUMINUM ALLOY / SEE TABLE II
   GASKET - MONEL NEOPRENE / N/A
   SUNBAND® - SST / PASSIVATED
   SHIELD - COPPER / TINNED
   HARDWARE - SST / PASSIVATED
3. INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE THE MOUNTING HARDWARE REQUIREMENT:
   "-" - ASSEMBLY WITH HARDWARE.
   "L" - ASSEMBLY LESS HARDWARE.
4. ADD THE LETTER "S" TO RECIEVE 6' MIN. LENGTH SHEILD SECURED TO BACKSHELL WITH A SUNBAND® (NOT SHOWN) (OMIT IF NOT REQUIRED)

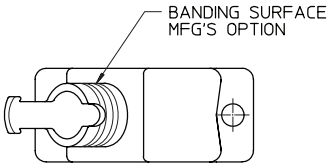
EXAMPLE PART NUMBER

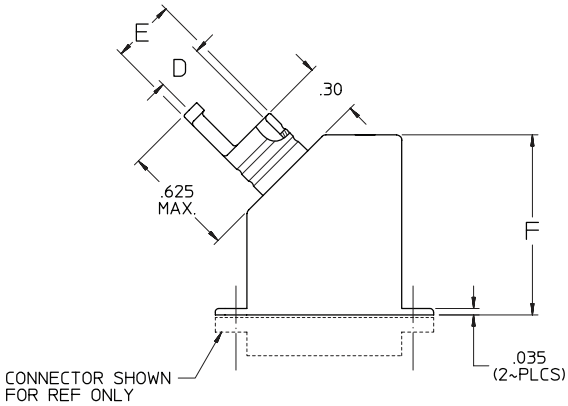
J1742 - 9 - 34 S - 2

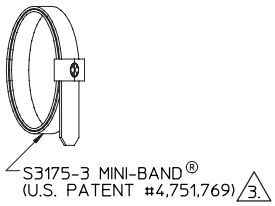
- 2 — MINI-BAND® OPTION (3.)
- S — SCREW LOCK OPTION (4.)
- 34 — FINISH (TABLE II)
- 9 — SHELL SIZE (TABLE I)
- J1742 — BASIC PART NUMBER

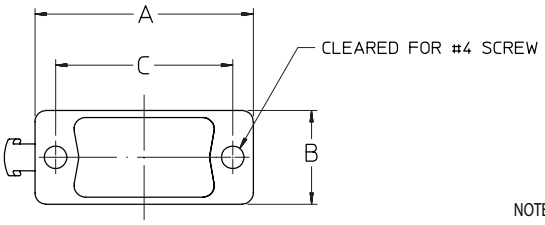
TABLE I

SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C DIM	D ±.010 DIA	E ±.010 DIA	F MAX DIA
9	1.203	.520	.984	.270	.350	1.000
15	1.531	.520	1.312	.395	.475	1.000
25	2.078	.520	1.852	.420	.500	1.000
37	2.718	.520	2.500	.420	.500	1.000
50	2.625	.629	2.406	.529	.609	1.125









MALE SCREW LOCK HARDWARE (4.)

TABLE II

CODE NUMBER	FINISH
4	CADMIUM PLATE, OLIVE DRAB
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

2. MATERIAL / FINISH: BACKSHELL - ALUMINUM ALLOY / SEE TABLE II
   MINIBAND® - SST / PASSIVATED
   SCREW LOCK CLIP - SST / N/A
   SCREW LOCK SCREW - STEEL / YELLOW CHROMATE

3. INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE THE MINIBAND® OPTION REQUIRED:
   "1" - FOR NO MINIBAND® SUPPLIED
   "2" - FOR MINIBAND® SUPPLIED LOOSE
   (CONSULT FACTORY FOR INSTALLATION TOOLS.)

4. INSERT THE LETTER "S" FOR ASSEMBLEY SUPPLIED WITH MALE SCREW LOCK HARDWARE
   (OMIT IF NOT REQUIRED)

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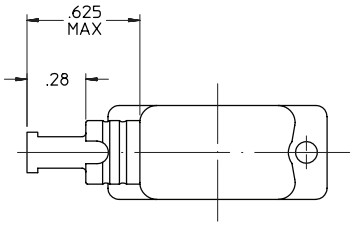
EXAMPLE PART NUMBER

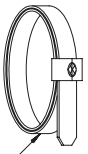
J1743 - 9 - 34 S - 2

- BASIC PART NUMBER
- SHELL SIZE (TABLE I)
- FINISH (TABLE II)
- SCREW LOCK OPTION (4.)
- MINI-BAND® OPTION (3.)

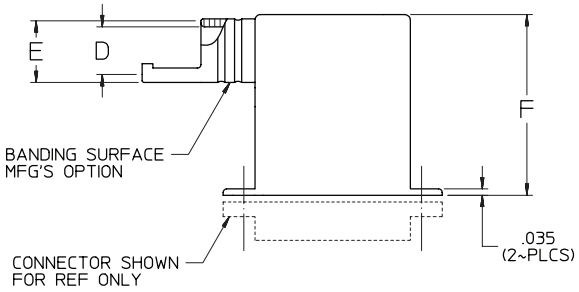
TABLE I

SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C DIM	D ±.015 DIA	E ±.010 DIA	F ±.062 DIM
9	1.203	.520	.984	.270	.350	1.000
15	1.531	.520	1.312	.395	.475	1.125
25	2.078	.520	1.852	.420	.500	1.188
37	2.718	.520	2.500	.420	.500	1.188
50	2.625	.629	2.406	.529	.609	1.312





S3175-3 MINI-BAND®
(U.S. PATENT #4,751,769) (3.)



MALE SCREW LOCK HARDWARE (4.)

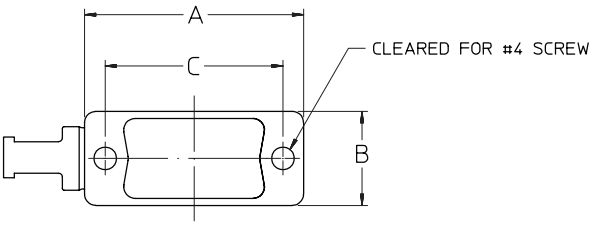


TABLE II

CODE NUMBER	FINISH
4	CADMIUM PLATE, OLIVE DRAB
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. MATERIAL / FINISH: BACKSHELL - ALUMINUM ALLOY / SEE TABLE II
   MINIBAND® - SST / PASSIVATED
   SCREW LOCK CLIP - SST / N/A
   SCREW LOCK SCREW - STEEL / YELLOW CHROMATE

(3.) INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE THE MINIBAND® OPTION REQUIRED:
"1" - FOR NO MINIBAND® SUPPLIED
"2" - FOR MINIBAND® SUPPLIED LOOSE
(CONSULT FACTORY FOR INSTALLATION TOOLS.)

(4.) INSERT THE LETTER "S" FOR ASSEMBLEY SUPPLIED WITH MALE SCREW LOCK HARDWARE
(OMIT IF NOT REQUIRED)

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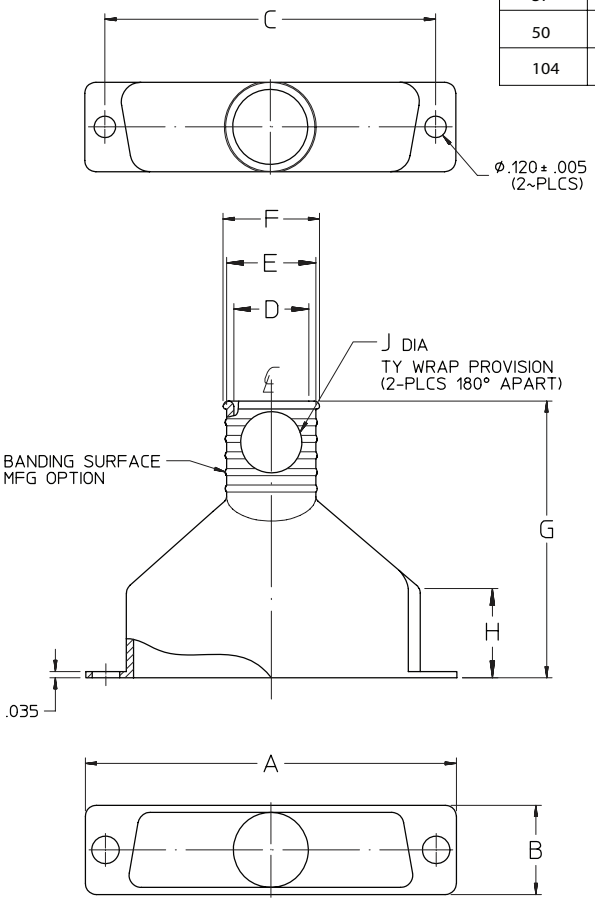
TABLE I

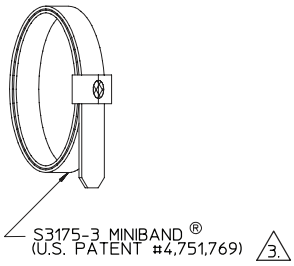
SHELL SIZE	A ±.015 DIM	B ±.015 DIM	C ±.005 DIM	D ±.010 DIA	E ±.015 DIA	F ±.010 DIA	G ±.030 DIA	H ±.010 DIA	J ±.010 DIA
9	1.203	.500	.984	.270	.350	N/A	1.190	.440	.219
15	1.531	.500	1.312	.395	.475	.515	1.270	.440	.312
25	2.078	.500	1.852	.420	.500	.540	1.550	.500	.343
37	2.718	.500	2.500	.420	.500	.540	1.690	.500	.343
50	2.625	.609	2.406	.529	.609	.649	1.670	.440	.343
104	2.730	.670	2.500	.573	.653	.693	1.690	.500	.343

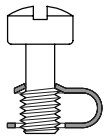


EXAMPLE PART NUMBER

J1747 - 9 - 12 - 1

- 1 — MINIBAND® OPTION 3.
- 12 — FINISH (TABLE II)
- - — SCREW LOCK OPTION 4.
- 9 — SHELL SIZE (TABLE I)
- J1747 — BASIC PART NUMBER





MALE SCREW LOCK HARDWARE 4.

TABLE II

CODE NUMBER	FINISH
03	CADMIUM PLATE, YELLOW GOLD
04	CADMIUM PLATE, OLIVE DRAB
10	CADMIUM PLATE, BLACK
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. IDENTIFIED PER MIL-STD-130.
2. MATERIAL / FINISH: ALUMINUM ALLOY / SEE TABLE II
3. INSERT ONE OF THE FOLLOWING NUMBER DESIGNATORS TO DEFINE TO MINIBAND® OPTION REQUIRED
   "1" - FOR NO MINIBAND® SUPPLIED.
   "2" - FOR MINIBAND® SUPPLIED.
   (CONSULT FACTORY FOR INSTALLATION TOOLS)
4. INSERT ONE OF THE FOLOWING DESIGNATORS TO DEFINE THE SCREW LOCK OPTION REQUIRED
   "-" - FOR NO SCREW LOCK SUPPLIED
   "S" - FOR SCREW LOCK SUPPLIED

SELF-SEATING PATENT NO. 5,435,760

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EXAMPLE PART NUMBER

J1852 - 37 20 F 1 - 34 - 1

- BASIC PART NUMBER
- CONNECTOR SIZE (TABLE I)
- ENTRY SIZE (TABLE II)
- ENTRY STYLE
  "F" = OFFSET ENTRY
  "C" = CENTER ENTRY) 3.
- MOUNTING STYLE (TABLE III)
- FINISH (TABLE IV)
- SUNBAND® OPTION
  "1" = NO SUNBAND® SUPPLIED
  "2" = SUNBAND® SUPPLIED LOOSE
  (CONSULT FACTORY FOR INSTALLATION TOOLS)

TABLE I

CONNECTOR SIZE	A ±.013 DIM	B ±.010 DIM	C MIN DIM	D DIM	E ±.03 DIM	MAX ENTRY SIZE
9	1.241	.984	.635	.515	N/A	10
15	1.569	1.312	.958	.515	N/A	16
25	2.116	1.852	1.500	.515	.34	20
37	2.757	2.500	2.147	.515	.66	20
50	2.663	2.406	2.053	.625	.62	20
104	2.757	2.500	2.147	.688	.66	20

TABLE II

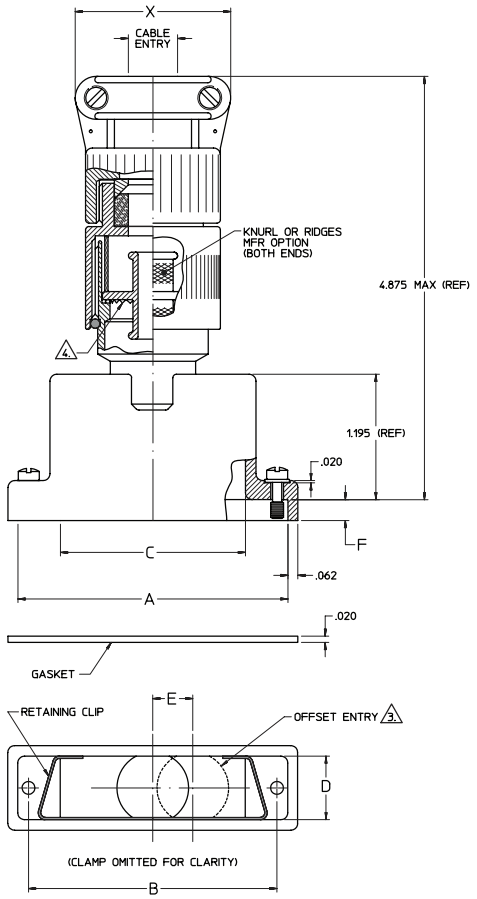
ENTRY SIZE	CABLE RANGE MIN	CABLE RANGE MAX	X MAX DIA
10	.350	.625	1.332
12	.500	.750	1.551
16	.625	.938	1.770
20	.875	1.250	2.113

TABLE III

DASH NUMBER	CONNECTOR MOUNTING STYLE	F (REF) DIM
1	FRONT MOUNTING WITH GASKET	.343
2	REAR MOUNTING WITH GASKET (.031 PANEL)	.247
3	REAR MOUNTING WITH GASKET (.047 PANEL)	.231
4	REAR MOUNTING WITH GASKET (.062 PANEL)	.216
5	REAR MOUNTING WITH GASKET (.093 PANEL)	.185
6	REAR MOUNTING WITH GASKET (.104 PANEL)	.174
7	REAR MOUNTING WITH GASKET (.125 PANEL)	.153
8	REAR MOUNTING WITH GASKET (.156 PANEL)	.122
9	REAR MOUNTING LESS GASKET (.031 PANEL)	.267
10	REAR MOUNTING LESS GASKET (.047 PANEL)	.251
11	REAR MOUNTING LESS GASKET (.062 PANEL)	.236
12	REAR MOUNTING LESS GASKET (.093 PANEL)	.205
13	REAR MOUNTING LESS GASKET (.104 PANEL)	.194
14	REAR MOUNTING LESS GASKET (.125 PANEL)	.173
15	REAR MOUNTING LESS GASKET (.156 PANEL)	.142

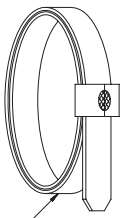
TABLE IV

CODE NUMBER	FINISH
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL



NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130
2. MATERIAL / FINISH:
   ADAPTER COMPONENETS - ALUMINUM ALLOY / SEE TABLE IV
   HARDWARE - SST / PASSIVTED
   ELASTOMERS - NEOPRENE / N/A
   GASKET - MONEL NEOPRENE / N/A
   WASHER - TEFLON / N/A
   BAND RING - ALUMINUM ALLOY / ELECTROLESS NICKEL
3. OFFSET ENTRY AVAILABLE FOR CONNECTOR SIZES 25 THRU 104 ONLY. SEE "E", TABLE I.
4. ANTI-ROTATION TEETH TO PREVENT RING MOVEMENT.



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Rectangular Accessories
Split D-Subs

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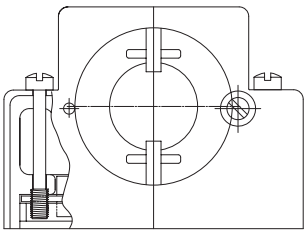
EXAMPLE PART NUMBER

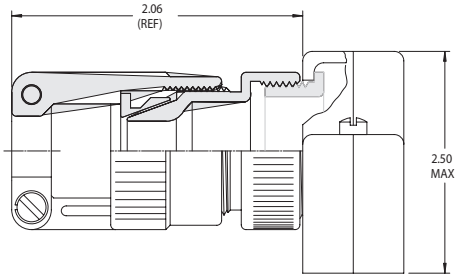
J1504 - 400 S 4 M 12 R W

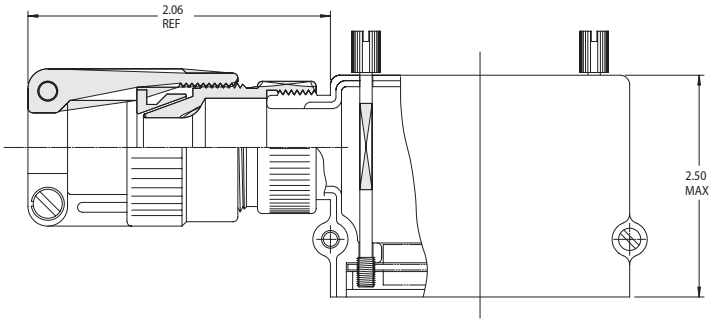
- W — WIRE HOLE OPTION (9.)
- R — RFI OPTION (8.)
- 12 — PLATING (2.)
- M — JACKSCREW OPTION (4.)
- 4 — DASH NUMBER (5.)
- S — ENTRY STYLE (7.)
- 400 — SHELL SIZE
- - — CLAMP OPTION (10.)
- J1504 — BASIC PART NUMBER

(4.)

SHELL SIZE	CONNECTOR SHELL SIZE (REF)	A MAX DIM	B MAX DIM	C ±.005 DIM	D MAX DIM	E MAX DIA	F ±.032 DIM	CABLE ENTRY MAX	CABLE ENTRY MIN
100	1	1.443	.656	.984	1.656	.875	N/A	.250	.094
200	2	1.750	.656	1.312	1.656	1.000	.900	.375	.219
300	3	2.281	.656	1.852	1.875	1.125	1.190	.500	.312
400	4	2.938	.656	2.500	1.875	1.125	1.190	.500	.312
500	5	2.844	.781	2.406	2.000	1.250	1.340	.625	.437
600	6	2.938	.818	2.500	2.000	1.375	1.340	.750	.594







ENTRY STYLE "S" (7.)

ENTRY STYLE "E" (7.)

(2.)	PLATING LEGEND
CODE NUMBER	FINISH
02	CADMIUM PLATE, CLEAR, PER QQ-P-416, TYPE II, CLASS 3.
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.
3. MATERIAL: BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225, ASTM B211, ASTM B221 OR ASTM B85.
   JACKSCREW ASSEMBLY - SST;
   RFI GASKET - MONEL & NEOPRENE;
   SCREWS - SST.
4. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE JACKSCREW OPTION:
   "F" - FOR FEMALE JACKSCREWS
   "M" - FOR MALE JACKSCREWS
   "MH" - FOR MALE JACKSCREWS HEX STYLE
   "MK" - FOR MALE JACKSCREWS KNURLED STYLE WITH EXTENDED HEAD HEIGHT. NOT AVAILABLE FOR SHELL SIZE 100.
   "MF" - FOR (1) EACH, "F" AND "M" STYLE JACKSCREW.
5. INSERT DASH NUMBER FOR CONNECTOR MOUNTING STYLE REQUIRED.
6. MATES TO: CANNON 'D' SUB-MINIATURE, AMPHENOL 17, AMP HD 20 & 22, BENDIX LB, MATRIX MD308, & MIL-C-24308 MS18271-1 THRU -6.
7. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE ENTRY STYLE REQUIRED.
   "E" - FOR END ENTRY
   "S" - FOR SIDE ENTRY
   "T" - FOR TOP ENTRY
8. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE RFI OPTION REQUIRED.
   "R" - FOR RFI ASSEMBLY
   "N" - FOR NON-RFI ASSEMBLY (RFI RING WILL BE OMITTED)
9. INSERT THE LETTER "W" FOR JACKSCREW SUPPLIED WITH WIRE HOLES (TYPE "M","MH" AND "MK" ONLY) OMIT IF NOT REQUIRED.
10. INSERT ONE OF THE FOLLOWING DESIGNATORS TO DEFINE THE CLAMP OPTION REQUIRED:
    "-" - FOR STRAIN RELIEF CLAMP
    "C" - FOR NUT (NO STRAIN RELIEF)
11. NOTE: FOR CABLE TO CABLE MOUNTING STYLE, MALE JACKSCREWS ARE ROTATABLE, FEMALE JACKSCREWS ARE FIXED.

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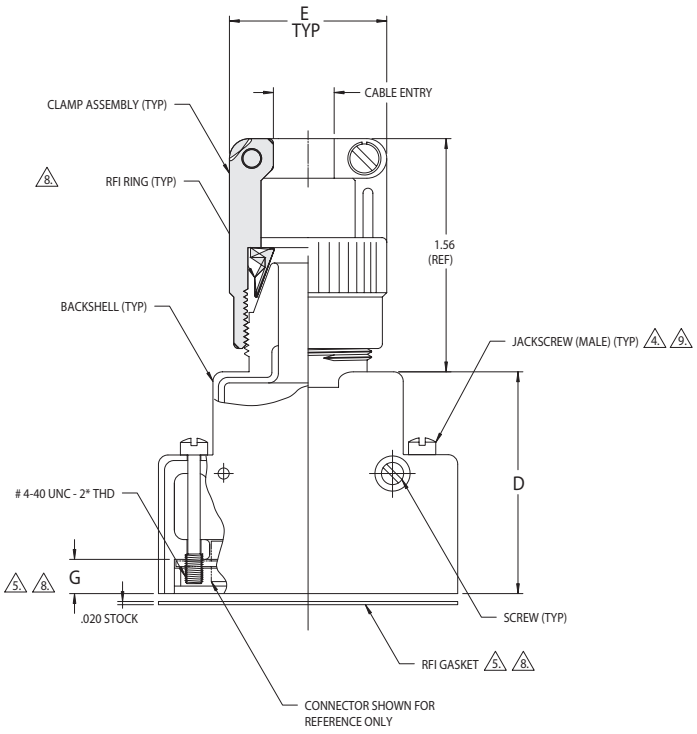
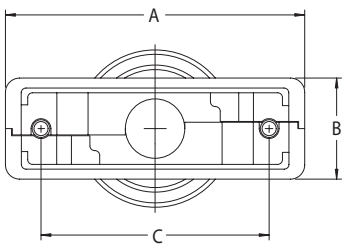
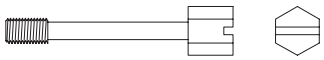




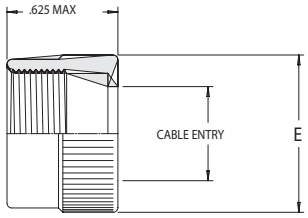
ENTRY STYLE "T" 7.

DASH NUMBER	CONNECTOR MOUNTING STYLE 5.	G (REF) DIM
1	REAR MOUNTING WITH GASKET (.031 PANEL)	.247
2	REAR MOUNTING WITH GASKET (.047 PANEL)	.231
3	REAR MOUNTING WITH GASKET (.062 PANEL)	.216
4	REAR MOUNTING WITH GASKET (.093 PANEL)	.185
5	REAR MOUNTING WITH GASKET (.104 PANEL)	.174
6	REAR MOUNTING WITH GASKET (.125 PANEL)	.153
7	REAR MOUNTING WITH GASKET (.156 PANEL)	.122
8	FRONT MOUNTING WITH GASKET	.343
9	REAR MOUNTING LESS GASKET (.104 PANEL)	.194
10	FRONT MOUNTING LESS GASKET	.343
11	REAR MOUNTING LESS GASKET (.047 PANEL)	.251
12	REAR MOUNTING LESS GASKET (.031 PANEL)	.267
13	REAR MOUNTING LESS GASKET (.062 PANEL)	.236
14	REAR MOUNTING LESS GASKET (.093 PANEL)	.205
15	REAR MOUNTING LESS GASKET (.125 PANEL)	.173
16	REAR MOUNTING LESS GASKET (.156 PANEL)	.142
17	CABLE TO CABLE MOUNTING LESS GASKET	.172 11.

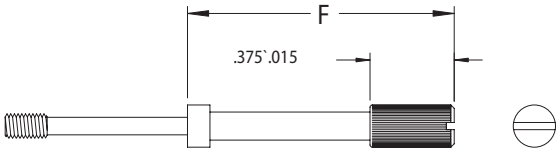


"MH" JACKSCREW OPTION 4. 9.

"F" JACKSCREW OPTION 4. 11.



NUT OPTION 10.



"MK" JACKSCREW OPTION 4. 9.

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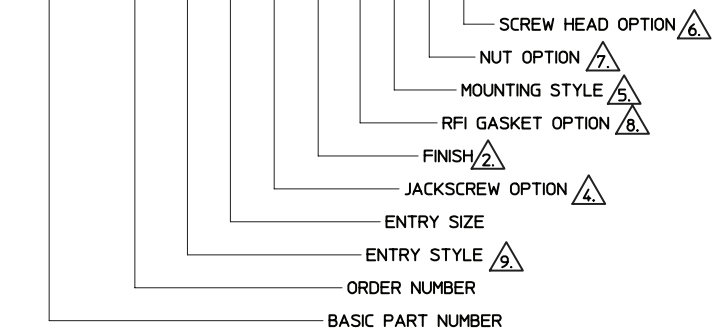
EXAMPLE PART NUMBER

J1514-400 T 04 M 12 R 3 C W



ENTRY SIZE	H MAX DIA	CABLE ENTRY MAX	CABLE ENTRY MIN
04	.906	.312	.250
06	1.094	.438	.281
08	1.188	.562	.344
10	1.281	.625	.375
12	1.344	.750	.375

DASH NUMBER	CONNECTOR MOUNTING STYLE 5.	G (REF) DIM
1	REAR MOUNTING WITH GASKET (.031 PANEL)	.247
2	REAR MOUNTING WITH GASKET (.047 PANEL)	.231
3	REAR MOUNTING WITH GASKET (.062 PANEL)	.216
4	REAR MOUNTING WITH GASKET (.093 PANEL)	.185
5	REAR MOUNTING WITH GASKET (.104 PANEL)	.174
6	REAR MOUNTING WITH GASKET (.125 PANEL)	.153
7	REAR MOUNTING WITH GASKET (.156 PANEL)	.122
8	FRONT MOUNTING WITH GASKET	.343
9	REAR MOUNTING LESS GASKET (.104 PANEL)	.194
10	FRONT MOUNTING LESS GASKET	.343
11	REAR MOUNTING LESS GASKET (.047 PANEL)	.251
12	REAR MOUNTING LESS GASKET (.031 PANEL)	.267
13	REAR MOUNTING LESS GASKET (.062 PANEL)	.236
14	REAR MOUNTING LESS GASKET (.093 PANEL)	.205
15	REAR MOUNTING LESS GASKET (.125 PANEL)	.173
16	REAR MOUNTING LESS GASKET (.156 PANEL)	.142
17	REAR MOUNTING LESS GASKET (.135 PANEL)	.157
18	REAR MOUNTING LESS GASKET (.188 PANEL)	.111

2. PLATING LEGEND	
CODE NUMBER	FINISH
02	CADMIUM PLATE, CLEAR
03	CADMIUM PLATE, YELLOW/GOLD
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

2. MATERIAL / FINISH: BACKSHELL, CLAMP AND RFI~RING - ALUMINUM ALLOY / SEE PLATING LEGEND
   JACKSCREW ASSEMBLY - 300 SERIES SST / PASSIVATED
   RFI GASKET - MONEL/NEOPRENE / N/A
   HARDWARE - 300 SERIES SST

3. MATES TO: MIL-C-24308, CANNON 'D' SUB-MINIATURE, AMPHENOL 17,
   AMP HD 20 & 22, BENDIX LB, MATRIX MD308 & MS18271-1 THRU -6.

4. INSERT ONE OF THE FOLLOWING LETTERS DESIGNATORS FOR JACKSCREW TYPE REQUIRED:
   "F" - FOR FEMALE JACKSCREWS
   "M" - FOR STANDARD MALE JACKSCREWS (#4-40 UNC - 2A THD)
   "ME" - FOR "METRIC" MALE JACKSCREWS (M3 x 0.5 -6g THD)
   "MK" - FOR MALE JACKSCREWS KNURL STYLE
   "MX" - FOR MALE JACKSCREWS KNURLED STYLE WITH EXTENDED HEAD HEIGHT.
   NOT AVAILABLE FOR ORDER NUMBER 100.
   "MS" - FOR MALE JACKSCREWS EXTENDED 1.25 INCH LONG.

5. INSERT DASH NUMBER FOR CONNECTOR MOUNTING STYLE REQUIRED (SEE TABLE).

6. INSERT THE LETTER "W" FOR JACKSCREW SUPPLIED WITH WIRE HOLES
   (TYPE "M", "ME", "MH" AND "MK" ONLY) OMIT IF NOT REQUIRED.

7. STANDARD ASSEMBLY IS SUPPLIED WITH STRAIN RELIEF CLAMP.
   INSERT THE LETTER "C" FOR NUT TO BE SUPPLIED (NO STRAIN RELIEF).

8. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE RFI GASKET OPTION.
   "R" - FOR ASSEMBLY SUPPLIED WITH RFI GASKET
   "N" - FOR ASSEMBLY SUPPLIED WITHOUT RFI GASKET

9. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE ENTRY STYLE REQUIRED.
   "E" - FOR END ENTRY
   "S" - FOR SIDE ENTRY
   "T" - FOR TOP ENTRY

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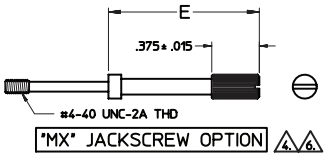
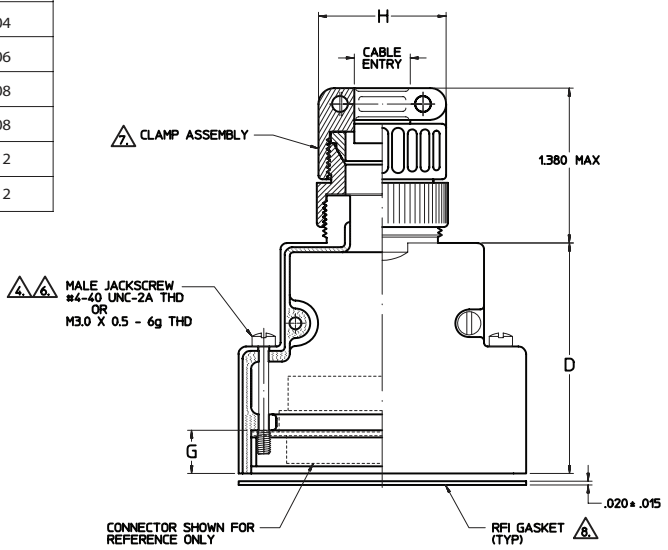
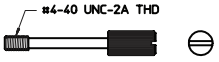
ORDER NUMBER	CONNECTOR SHELL SIZE REFERENCE	A MAX DIM	B MAX DIM	C DIM	D MAX DIM	E ±.032 DIM	MAX ENTRY SIZE
100	1	1.443	.656	.984	1.656	N/A	04
200	2	1.750	.656	1.312	1.656	.900	06
300	3	2.281	.656	1.852	1.875	1.190	08
400	4	2.938	.656	2.500	1.875	1.190	08
500	5	2.844	.781	2.406	2.000	1.340	12
600	6	2.938	.818	2.500	2.000	1.340	12

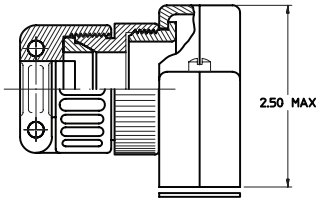


"MX" JACKSCREW OPTION 4,6

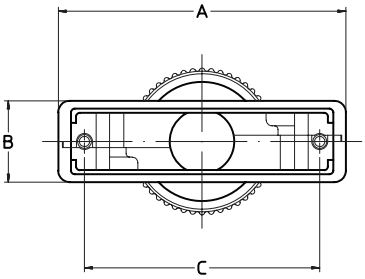




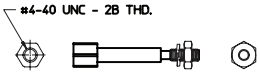
"MK" JACKSCREW OPTION 4,6



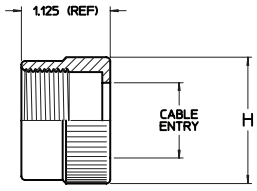
ENTRY STYLE "S" 9



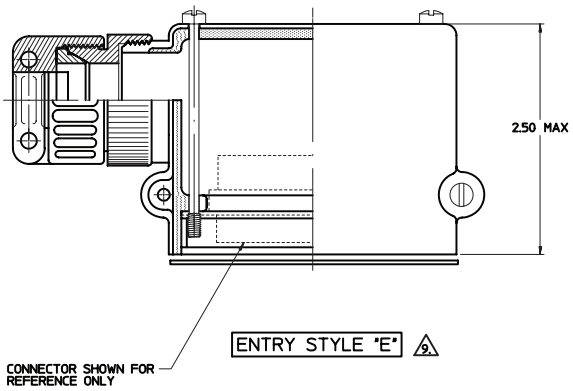
ENTRY STYLE "T" 9



"F" JACKSCREW OPTION 4



NUT OPTION 7



ENTRY STYLE "E" 9

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EXAMPLE PART NUMBER

J1515-400 T 04 MK 12 - 3 C W

- BASIC PART NUMBER
- SHELL SIZE
- CONFIGURATION OPTION 7.
- ENTRY SIZE
- JACKSCREW OPTION 5.
- FINISH 2.
- CONNECTOR MOUNTING STYLE OPTION 6.
- CLAMP OPTION 9.
- WIRE HOLES OPTION 8.

SHELL SIZE	CONNECTOR SHELL SIZE (REF)	A MAX DIM	B MAX DIM	C ±.005 DIM	D MAX DIM	SHELL I.D.	E ±.031 DIM
100	1	1.443	.656	.984	1.656	.250	N/A
200	2	1.750	.656	1.312	1.656	.375	.500
300	3	2.281	.656	1.852	1.875	.500	1.190
400	4	2.938	.656	2.500	1.875	.500	1.190
500	5	2.844	.781	2.406	2.000	.625	1.340
600	6	2.938	.818	2.500	2.000	.750	1.340

ENTRY SIZE	CABLE ENTRY MIN	CABLE ENTRY MAX	F MAX DIA	G MAX DIA
02	.125	.256	.968	.531
03	.156	.375	1.046	.688
04	.281	.500	1.156	.781
05	.406	.625	1.219	.938
06	.531	.750	1.343	1.031

DASH NUMBER	CONNECTOR MOUNTING STYLE 6.	H (REF) DIM
1	REAR MOUNTING WITH GASKET (.031 PANEL)	.247
2	REAR MOUNTING WITH GASKET (.047 PANEL)	.231
3	REAR MOUNTING WITH GASKET (.062 PANEL)	.216
4	REAR MOUNTING WITH GASKET (.093 PANEL)	.185
5	REAR MOUNTING WITH GASKET (.104 PANEL)	.174
6	REAR MOUNTING WITH GASKET (.125 PANEL)	.153
7	REAR MOUNTING WITH GASKET (.156 PANEL)	.122
8	FRONT MOUNTING	.343
9	REAR MOUNTING LESS GASKET (.031 PANEL)	.267
10	REAR MOUNTING LESS GASKET (.047 PANEL)	.251
11	REAR MOUNTING LESS GASKET (.062 PANEL)	.236
12	REAR MOUNTING LESS GASKET (.093 PANEL)	.205
13	REAR MOUNTING LESS GASKET (.104 PANEL)	.194
14	REAR MOUNTING LESS GASKET (.125 PANEL)	.173
15	REAR MOUNTING LESS GASKET (.156 PANEL)	.142
10. 16	CABLE TO CABLE MOUNTING LESS GASKET	.172
10. 17	CABLE TO CABLE MOUNTING WITH GASKET	.152

2. PLATING LEGEND	
CODE NUMBER	FINISH
01	IRIDITE, NO. 14-2, YELLOW, PER MIL-C-5541, CLASS 3.
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
08	ANODIZE, BLACK, PER MIL-A-8625, TYPE II, CLASS 2.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED (SEE TABLE - SHEET 2)

3. MATERIAL: BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591;
   JACKSCREW ASSEMBLY - 300 SERIES SST.PER QQ-S-763.
   RFI GASKET - MONEL/NEOPRENE
   MISCELLANEOUS HARDWARE - 300 SERIES SST. PER QQ-S-763.

4. MATES TO: CANNON 'D' SUB-MINIATURE, AMPHENOL 17, AMP HD 20 & 22, BENDIX LB, MATRIX MD308, MIL-C-24308, & MS28271 1 THRU 6.

5. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE JACKSCREW OPTION:
   "F" - FOR FEMALE JACKSCREWS
   "M" - FOR MALE JACKSCREWS
   "MK" - FOR MALE JACKSCREWS KNURLED STYLE WITH EXTENDED HEAD HEIGHT. NOT AVAILABLE FOR ORDER NUMBER 100.
   "MJ" - FOR MALE JACKSCREWS KNURLED STYLE

6. INSERT DASH NUMBER FOR CONNECTOR MOUNTING STYLE REQUIRED (SEE TABLE - SHEET 2).

7. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE ENTRY STYLE REQUIRED.
   "S" - FOR SIDE ENTRY
   "T" - FOR TOP ENTRY
   "E" - FOR END ENTRY

8. INSERT THE LETTER "W" FOR JACKSCREWS ("M" & "MK" OPTIONS ONLY) TO HAVE SAFETY WIRE HOLES. (OMIT IF NOT REQUIRED)

9. INSERT THE LETTER "C" FOR ASSEMBLY SUPPLIED WITH "C" NUT. OMIT DESIGNATOR FOR ASSEMBLY SUPPLIED WITH STRAIN RELIEF CLAMP. INSERT THE LETTER "N" FOR ASSEMBLY SUPPLIED WITHOUT STRAIN RELIEF CLAMP OR "C" NUT.

10. FOR CABLE TO CABLE APPLICATIONS, ORDER BACKSHELL SET USING NUMBER 160217 CONNECTOR MOUNTING STYLE. EACH SET CONSISTS OF ONE BACKSHELL WITH 'M' OR 'MK' (MALE) MOUNTING HARDWARE AND ONE BACKSHELL WITH 'F' (FEMALE) MOUNTING OPTION.

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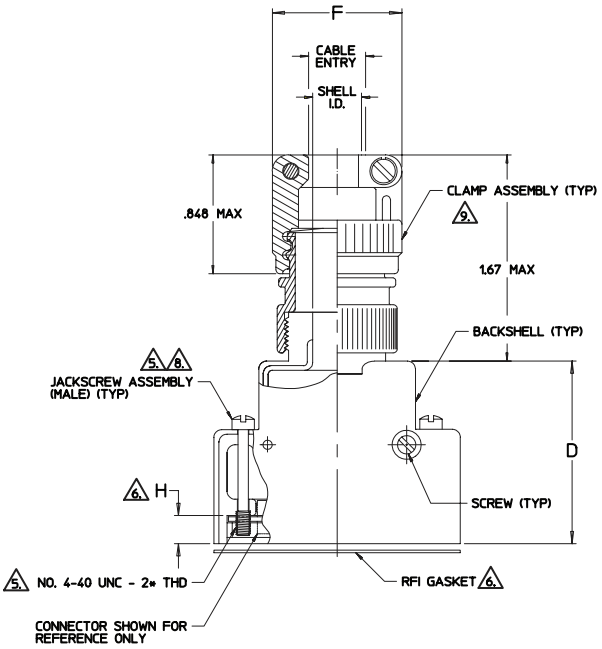
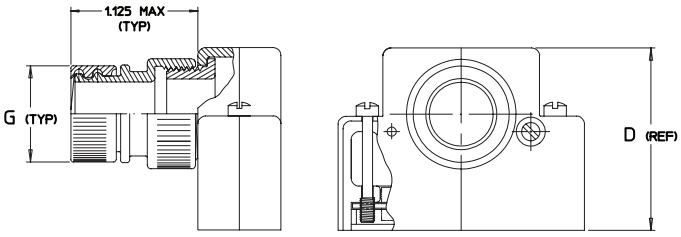
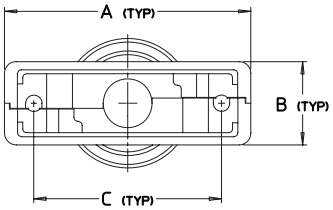




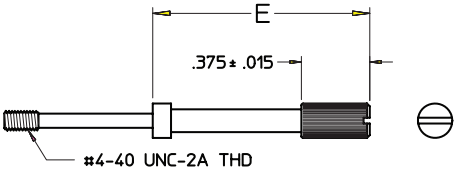
ENTRY STYLE "S" 7.

SHOWN WITH "C" NUT OPTION 9.

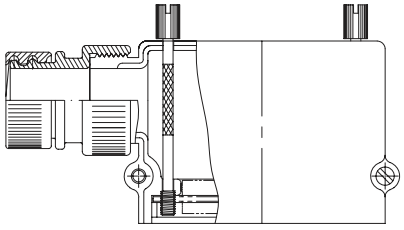


ENTRY STYLE "T" 7.

"F" JACKSCREW OPTION 5.

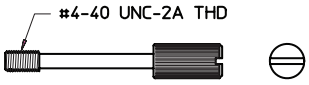


"MK" JACKSCREW OPTION 5. 8.



ENTRY STYLE "E" 7.

SHOWN WITH "C" NUT OPTION 9.



"MJ" JACKSCREW OPTION 5. 8.

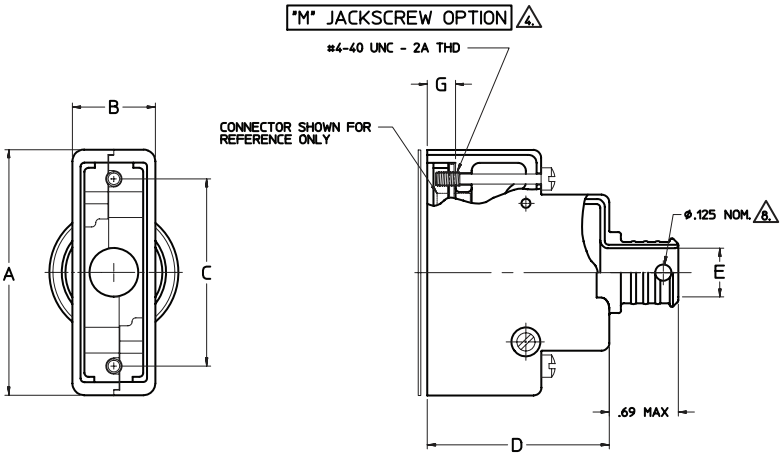
Web link to Sunbank
www.sunbankcorp.com

EXAMPLE PART NUMBER

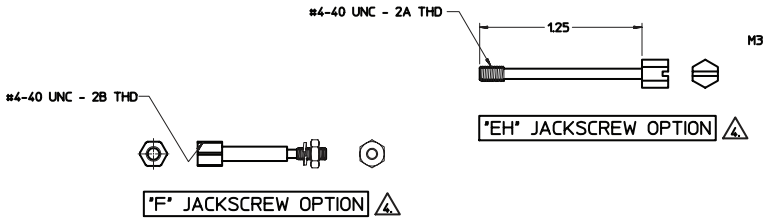
J1523 - 300 M - 1 - 12 - 2

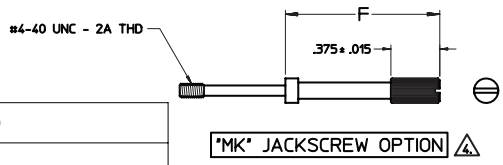
- BASIC PART NUMBER
- 8.
- ORDER NUMBER
- JACK SCREWS 4.
- MOUNTING STYLE 5.
- PLATING 2.
- SUNBAND® 7.

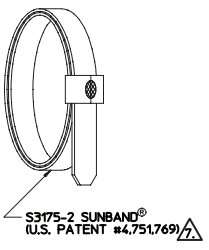
ORDER NUMBER	CONNECTOR SHELL SIZE (REF)	A MAX DIM	B MAX DIM	C ±.005 DIM	D MAX DIM	E ±.015 DIA	F ±.032 DIM
						4.	
100	1 (9)	1.443	.656	.984	1.656	.250	.900
200	2 (15)	1.750	.656	1.312	1.656	.312	.900
300	3 (25)	2.281	.656	1.852	1.875	.375	1.190
400	4 (37)	2.938	.656	2.500	1.875	.500	1.190
500	5 (50)	2.844	.781	2.406	2.000	.562	1.340
600	6 (104)	2.938	.818	2.500	2.000	.625	1.340



DASH NUMBER	CONNECTOR MOUNTING STYLE 5.	G (REF) DIM
1	FRONT MOUNTING WITH GASKET	.343
2	REAR MOUNTING WITH GASKET (.031 PANEL)	.247
3	REAR MOUNTING WITH GASKET (.047 PANEL)	.231
4	REAR MOUNTING WITH GASKET (.062 PANEL)	.216
5	FRONT MOUNTING LESS GASKET	.343
6	REAR MOUNTING LESS GASKET (.031 PANEL)	.267
7	REAR MOUNTING LESS GASKET (.047 PANEL)	.251
8	REAR MOUNTING LESS GASKET (.062 PANEL)	.238
9	REAR MOUNTING WITH GASKET (.080 PANEL)	.208
10	REAR MOUNTING WITH GASKET (.093 PANEL)	.185
11	REAR MOUNTING LESS GASKET (.125 PANEL)	.173







2. CODE NUMBER	PLATING LEGEND FINISH
01	IRIDITE, NO. 14-2, YELLOW, PER MIL-C-5541, CLASS 3.
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER AMS2404, .0005 MIN THICKNESS.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.
68	CADMIUM, YELLOW PER QQ-P-416, TYPE II, CLASS 3, OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.
3. MATERIAL: BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225, ASTM B211, ASTM B221, OR ASTM B85
   JACKSCREW ASSEMBLY - SST;
   RFI GASKET - MONEL & NEOPRENE;
   SCREWS - SST.
4. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE JACKSCREW OPTION:
   "F" - FOR FEMALE JACKSCREWS
   "M" - FOR MALE JACKSCREWS
   "ME" - METRIC MALE JACKSCREWS
   "MH" - MALE JACKSCREWS HEX STYLE
   "EH" - MALE EXTENDED JACKSCREWS HEX STYLE
   "MK" - MALE KNURLED JACKSCREWS WITH EXTENDED HEAD HEIGHT
5. INSERT DASH NUMBER FOR CONNECTOR MOUNTING STYLE REQUIRED.
6. MATES TO: CANNON 'D' SUB-MINIATURE, AMPHENOL 17, AMP HD 20 & 22, BENDIX LB, MATRIX MD308, & MIL-C-24308 MS18271-1 THRU -6.
7. INSERT ONE OF THE FOLLOWING NUMBERS FOR SUNBAND® OPTION REQUIREMENTS:
   '1' FOR NO SUNBAND® SUPPLIED.
   '2' FOR SUNBAND® SUPPLIED LOOSE.
   (CONSULT FACTORY FOR INSTALLATION TOOLS.)
8. REPLACE "-" WITH "S" TO RECIEVE THROUGH HOLE FOR SPOT TIE STRAIN RELIEF.

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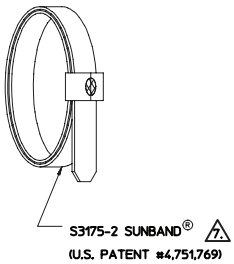
www.sunbankcorp.com

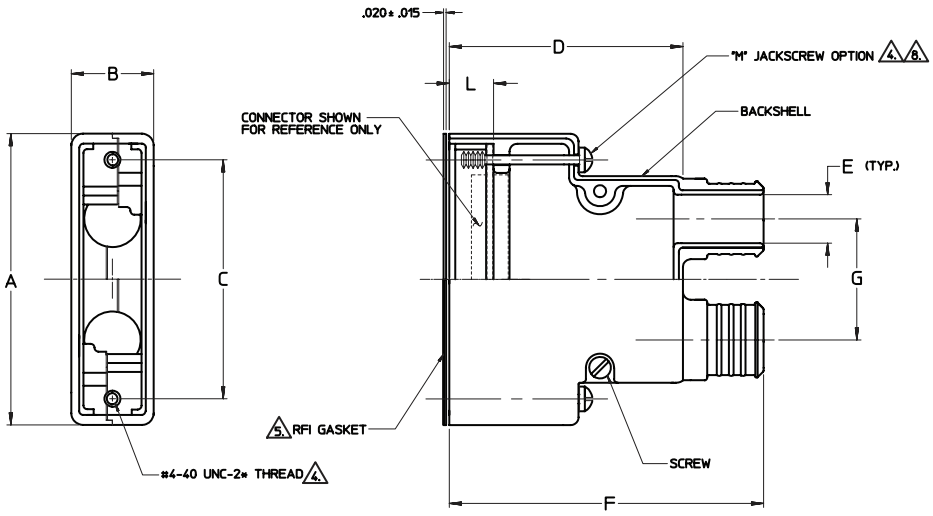
EXAMPLE PART NUMBER
J1529-500 M-1-12-1 W

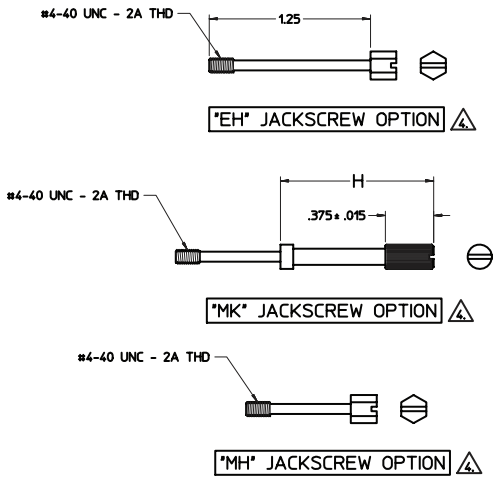
- W — 8.
- SUNBAND® — 7.
- FINISH — 2.
- MOUNTING STYLE — 5.
- JACKSCREWS — 4.
- ORDER NUMBER
- BASIC PART NUMBER



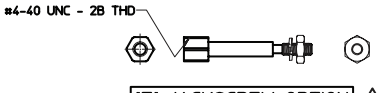
ORDER NUMBER	CONNECTOR SHELL SIZE (REF)	A MAX DIM	B MAX DIM	C DIM	D MAX DIM	E ±.010 DIM	F MAX DIM	G ±.03 DIM	H ±.032 DIM
300	3(25)	2.281	.656	1.852	1.875	.438	2.565	.93	1.190
400	4(37)	2.938	.656	2.500	1.875	.500	2.600	1.01	1.190
500	5(50)	2.844	.781	2.406	2.000	.531	2.600	1.02	1.340

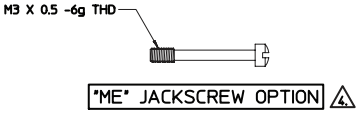
DASH NUMBER	CONNECTOR MOUNTING STYLE 5.	L REF. DIM.
1	FRONT MOUNTING WITH GASKET	.343
2	BACK MOUNTING WITH GASKET (.031 PANEL)	.247
3	BACK MOUNTING WITH GASKET (.047 PANEL)	.231
4	BACK MOUNTING WITH GASKET (.062 PANEL)	.216
5	FRONT MOUNTING LESS GASKET	.343
6	BACK MOUNTING LESS GASKET (.031 PANEL)	.267
7	BACK MOUNTING LESS GASKET (.047 PANEL)	.251
8	BACK MOUNTING LESS GASKET (.062 PANEL)	.238
9	BACK MOUNTING WITH GASKET (.080 PANEL)	.208





PLATING LEGEND 2.	
CODE NUMBER	FINISH
01	IRIDITE, NO. 14-2, YELLOW, PER MIL-C-5541, CLASS 3.
03	CADMIUM PLATE, YELLOW, PER QQ-P-416, TYPE II, CLASS 3.
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.





NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.
2. INSERT PLATING CODE FOR FINISH REQUIRED.
3. MATERIAL: BACKSHELL - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591; HARDWARE AND JACKSCREW ASSEMBLY - 300 SERIES SST; RFI GASKET - MONEL/NEPORENE.
4. INSERT THE FOLLOWING LETTER FOR JACKSCREW TYPE REQUIRED:
   "F" - FEMALE JACKSCREWS
   "M" - MALE JACKSCREWS
   "ME - METRIC MALE JACKSCREWS
   "MH" - MALE JACKSCREWS HEX STYLE
   "EH" - MALE EXTENDED JACKSCREWS HEX STYLE
   "MK" - MALE JACKSCREWS KNURLED STYLE WITH EXTENDED HEAD HEIGHT
5. INSERT DASH NUMBER FOR CONNECTOR MOUNTING STYLE REQUIRED.
6. MATES TO : CANNON 'D' SUBMINIATURE, AMPHENOL 17, AMP HD 20 & 22, BENDIX LB, MATRIX MD308 & MIL-C-24308, AND MS18271 CONNECTORS.
7. INSERT ONE OF THE FOLLOWING NUMBERS FOR SUNBAND® OPTION REQUIREMENTS:
   "1" FOR NO SUNBANDS® SUPPLIED
   "2" FOR TWO (2) SUNBANDS® SUPPLIED LOOSE
   (CONSULT FACTORY FOR INSTALLATION TOOLS)
8. INSERT THE LETTER "W" FOR JACKSCREWS SUPPLIED WITH WIRE HOLES (TYPE "M" ONLY) OMIT IF WIRE HOLES ARE NOT REQUIRED.

Web link to Sunbank
www.sunbankcorp.com

EXAMPLE PART NUMBER

J1546T 300 M 10 S 03 - 34 W

- WIRE HOLES (6.)
- PLATING (2.)
- ENTRY SIZE
- CLAMP STYLE (7.)
- MOUNTING STYLE (5.)
- JACKSCREW TYPE (4.)
- SHELL SIZE
- BASIC PART NUMBER

ORDER NUMBER	CONNECTOR SHELL SIZE REFERENCE	A MAX DIM	B MAX DIM	C DIM	D MAX DIM	SHELL (REF) I.D.
100	1	1.443	.656	.984	1.656	.250
200	2	1.750	.656	1.312	1.656	.500
300	3	2.281	.656	1.852	1.875	.500
400	4	2.938	.656	2.500	1.875	.500
500	5	2.844	.781	2.406	2.000	.625

ENTRY SIZE	H MAX DIA	J MAX DIA	CABLE ENTRY MAX	CABLE ENTRY MIN
02	.840	.781	.250	.125
03	.965	.906	.375	.156
04	1.090	1.031	.500	.281
05	1.215	1.156	.625	.406

DASH NUMBER	CONNECTOR MOUNTING STYLE (5.)	G (REF) DIM
1	FRONT MOUNTING WITH GASKET	.343
2	REAR MOUNTING WITH GASKET (.031 PANEL)	.247
3	REAR MOUNTING WITH GASKET (.047 PANEL)	.231
4	REAR MOUNTING WITH GASKET (.062 PANEL)	.216
5	FRONT MOUNTING LESS GASKET	.343
6	REAR MOUNTING LESS GASKET (.031 PANEL)	.267
7	REAR MOUNTING LESS GASKET (.047 PANEL)	.251
8	REAR MOUNTING LESS GASKET (.062 PANEL)	.236
9	REAR MOUNTING WITH GASKET (.093 PANEL)	.185
10	REAR MOUNTING WITH GASKET (.125 PANEL)	.153
11	REAR MOUNTING WITH GASKET (SPECIAL)	.200
12	REAR MOUNTING LESS GASKET (.156 PANEL)	.142
13	REAR MOUNTING WITH GASKET (.156 PANEL)	.122
14	REAR MOUNTING WITH GASKET (.104 PANEL)	.174
15	REAR MOUNTING LESS GASKET (.093 PANEL)	.205
16	REAR MOUNTING LESS GASKET (.104 PANEL)	.194
17	REAR MOUNTING LESS GASKET (.125 PANEL)	.173

(2.) PLATING LEGEND	
CODE NUMBER	FINISH
12	ELECTROLESS NICKEL
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

(2.) MATERIAL / FINISH: BACKSHELL, CLAMP AND RFI~RING - ALUMINUM ALLOY / SEE PLATING LEGEND
JACKSCREW ASSEMBLY - 300 SERIES SST / PASSIVATED
RFI GASKET - MONEL/NEOPRENE / N/A
HARDWARE - 300 SERIES SST

(3.) MATES TO: MIL-C-24308, CANNON 'D' SUB-MINIATURE, AMPHENOL 17,
AMP HD 20 & 22, BENDIX LB, MATRIX MD308 & MS18271-1 THRU -5.

(4.) INSERT ONE OF THE FOLLOWING LETTERS DESIGNATORS FOR JACKSCREW TYPE REQUIRED:
"F" - FOR FEMALE JACKSCREWS
"M" - FOR STANDARD MALE JACKSCREWS (#4-40 UNC - 2A THD)
"ME" - FOR "METRIC" MALE JACKSCREWS (M3 x 0.5 -6g THD)
"MH" - FOR MALE JACKSCREWS HEX STYLE
"MK" - FOR MALE JACKSCREWS KNURL STYLE WITH EXTENDED HEAD HEIGHT
(NOT AVAILABLE FOR ORDER NUMBER 100)
"MS" - FOR MALE JACKSCREWS EXTENDED 1.25 INCH LONG.

(5.) INSERT DASH NUMBER FOR CONNECTOR MOUNTING STYLE REQUIRED (SEE CONNECTOR MOUNTING TABLE).

(6.) INSERT THE LETTER "W" FOR JACKSCREW SUPPLIED WITH WIRE HOLES
(TYPE "M", "ME", "MH", "MS" AND "MK" ONLY) OMIT IF NOT REQUIRED.

(7.) INSERT ONE OF THE FOLLOWING DESIGNATORS FOR CLAMP STYLE REQUIRED:
"S" - FOR STRAIN RELIEF CLAMP SUPPLIED.
"C" - FOR NUT SUPPLIED (NO STRAIN RELIEF).

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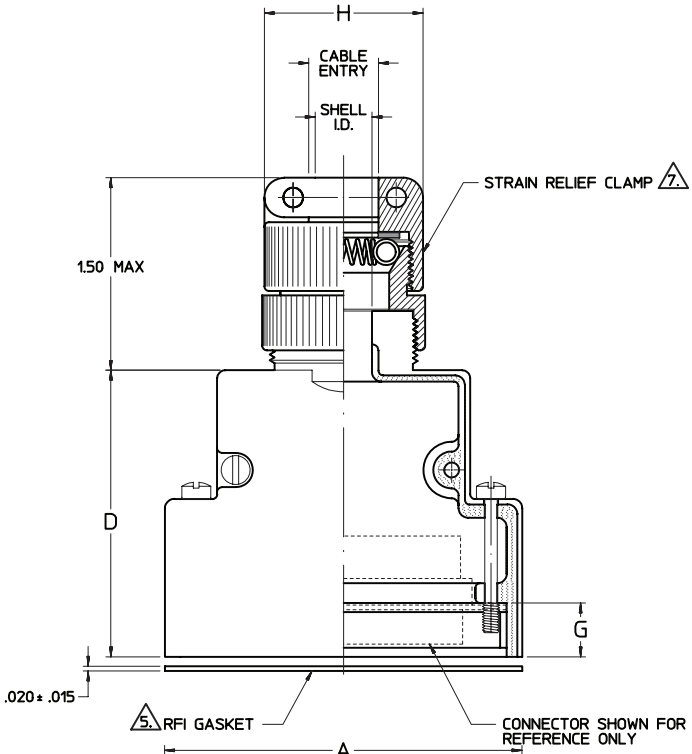
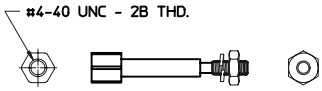
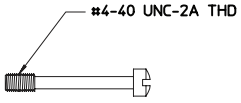
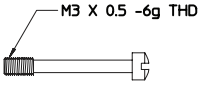




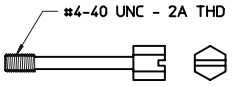
"F" JACKSCREW OPTION 4.



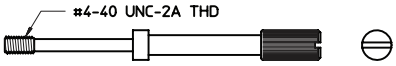
"M" JACKSCREW OPTION 4. 6.



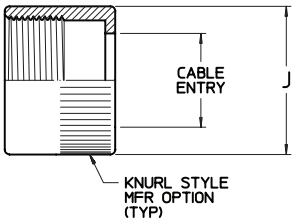
"ME" JACKSCREW OPTION 4. 6.



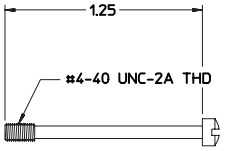
"MH" JACKSCREW OPTION 4. 6.



"MK" JACKSCREW OPTION 4. 6.



NUT OPTION 7.



"MS" JACKSCREW OPTION 4. 6.

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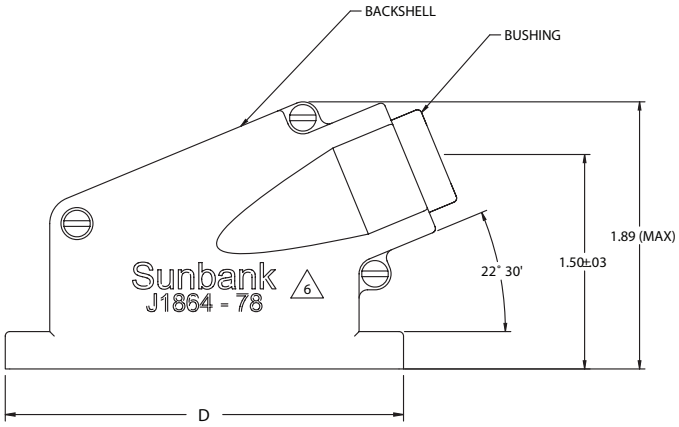
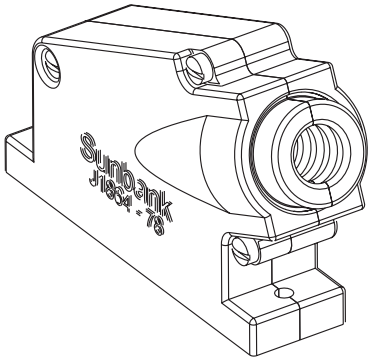
EXAMPLE PART NUMBER:

J1864 - 62 7
- 7 — BUSHING ENTRY SIZE OPTION (SEE TABLE II) (OMIT FOR SPLIT BACKSHELL ONLY)
- 62 — DASH NUMBER (TABLE I) (OMIT FOR BUSHING ONLY) 4.
- J1864 — BASIC PART NUMBER

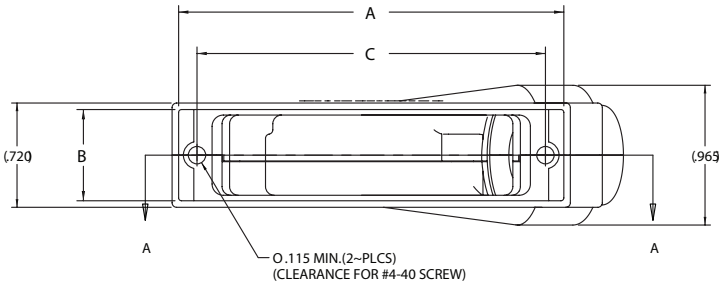
TABLE I

DASH NUMBER	SHELL SIZE (REF)	A +/-.03 DIM	B +/-.03 DIM	C DIM	D +/-.03 DIM
62	4	2.754	0.519	2.500	2.844
78	5	2.660	0.630	2.406	2.750





ISOMETRIC SHOWN WITH BUSHING FOR REFERENCE



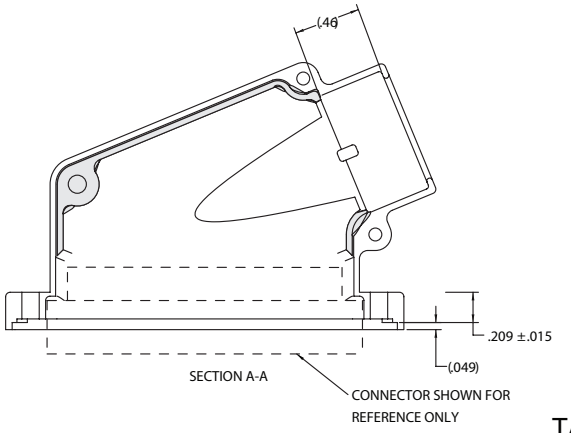
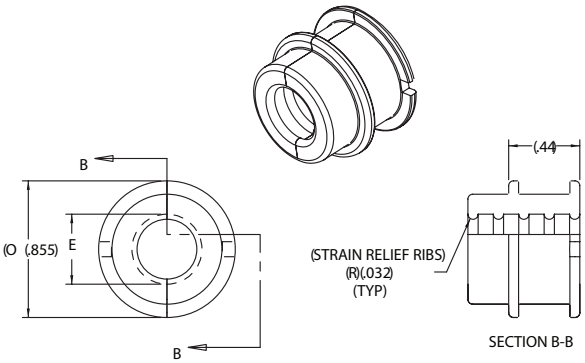


TABLE II

ENTRY SIZE	E +/-.010 DIA
7	0.438
8	0.500
9	0.563



SPLIT BUSHING OPTION
(SEE TABLE II)

NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130
2. MATERIAL / FINISH: BACKSHELL COMPONENTS - ALUMINUM ALLOY / ELECTROLESS NICKEL
   HARDWARE - SST / PASSIVATED
3. MATES TO: MIL-C-24308/4 D-SUB MINIATURE CONNECTORS.
4. DASH 62 REFERS TO SHELL SIZE 4 (INSERT ARRANGEMENT 62) & DASH 78 REFERS TO SHELL SIZE 5 (INSERT ARRANGEMENT 78).
5. CONNECTOR MOUNTING HARDWARE NOT SUPPLIED WITH ASSEMBLY
6. BACKSHELL EMBOSSED WITH DASH NUMBER ORDERED (Ex. "J1864 - 62 or 78")

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www.sunbankcorp.com

Rectangular Accessories
Hughes MRS

Web link to Sunbank
www.sunbankcorp.com

TABLE I

SHELL SIZE	B ±.031 DIM.	E ±.031 DIM.	F DIM.	G DIM.	H MAX. DIM.	J MAX. DIM.	AVAILABLE ORDER NUMBER	AVAILABLE CLAMP SIZE	K MAX. DIA.
10	2.000	.250	1.300	℄	1.938	.828	3 ONLY	08 ONLY	.78
20	2.000	.250	1.300	℄	1.938	1.094	3 AND 4	08 ONLY	.78
36	2.500	.312	1.750	℄	2.390	1.094	3 THRU 5	08 AND 10	.78
52	2.500	.312	1.900	.550	2.531	1.344	3 THRU 6	08 THRU 12	.78
80	2.500	.312	2.045	.812	2.671	1.609	3 THRU 6	08 THRU 16	.78
104	2.500	.500	2.500	.812	3.130	1.609	3 THRU 6	08 THRU 16	1.03
158	3.000	.500	2.500	1.250	3.130	2.120	3 THRU 8	08 THRU 20	1.03
212	3.500	.500	2.500	1.850	3.130	2.640	3 THRU 8	08 THRU 24	1.03

TABLE II

ORDER NUMBER	A THREAD CLASS 2*	TUBE SIZE (REF.)	CABLE ENTRY MIN.	C ±.031 DIA.
3	1.000 - 20 UNEF	.375	.305	1.125
4	1.125 - 18 UNEF	.500	.427	1.250
5	1.250 - 18 UNEF	.625	.552	1.375
6	1.437 - 18 UNEF	.750	.680	1.562
7	1.750 - 18 UNS	1.000	.930	1.875
8	2.000 - 18 UNS	1.250	1.161	2.125

TABLE III

CABLE CLAMP SIZE	A THREAD CLASS 2*	EFFECTIVE CABLE RANGE		D ±.031 DIA.
		MAX.	MIN.	
08	1.000 - 20 UNEF	.562	.344	1.156
10	1.125 - 18 UNEF	.625	.375	1.250
12	1.250 - 18 UNEF	.750	.438	1.469
16	1.437 - 18 UNEF	.938	.562	1.688
20	1.750 - 18 UNS	1.250	.750	2.031
24	2.000 - 18 UNS	1.375	.781	2.281

CODE NUMBER	FINISH
04	CADMIUM PLATE, OLIVE DRAB
10	CADMIUM PLATE, BLACK
12	ELECTROLESS NICKEL

EXAMPLE PART NUMBER

J1023-158 S 20 N-5-4

- PLATING CODE (2.)
- POLARIZING POSITION (5.)
- CABLE ADAPTER MODIFICATION (6.)
- CABLE ADAPTER SIZE (4.)
- PIN OR SOCKET BODY (3.)
- SHELL SIZE
- BASIC PART NUMBER

NOTES;

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

(2.) SEE PLATING LEGEND FOR FINISH REQUIRED.

(3.) INSERT THE FOLLOWING LETTER FOR STYLE BACKSHELL REQUIRED;
P ~ PIN BODY STYLE.
S ~ SOCKET BODY STYLE.

(4.) INSERT ORDER NUMBER OR CABLE CLAMP SIZE FOR TYPE CABLE ADAPTER REQUIRED.
ORDER NUMBER (TABLE II) IS CONVOLUTED TUBING ADAPTER STYLE (NBR'S 3 THRU 8).
CABLE CLAMP SIZE (TABLE III) IS CABLE CLAMP STYLE (NBR'S 08 THRU 24).

(5.) INSERT POLARIZING NUMBER IF REQUIRED.

(6.) INSERT LETTER 'N' FOR NON-RFI ASSEMBLY
'R' FOR 3~RING , OVERALL AND INDIVIDUAL RFI, ADAPTER

7. MATERIAL: BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591
HARDWARE - SST

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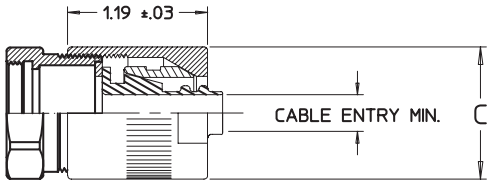
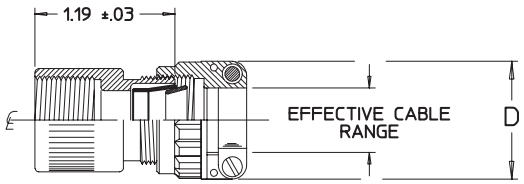
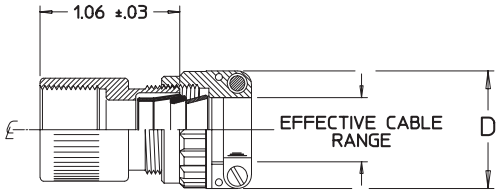


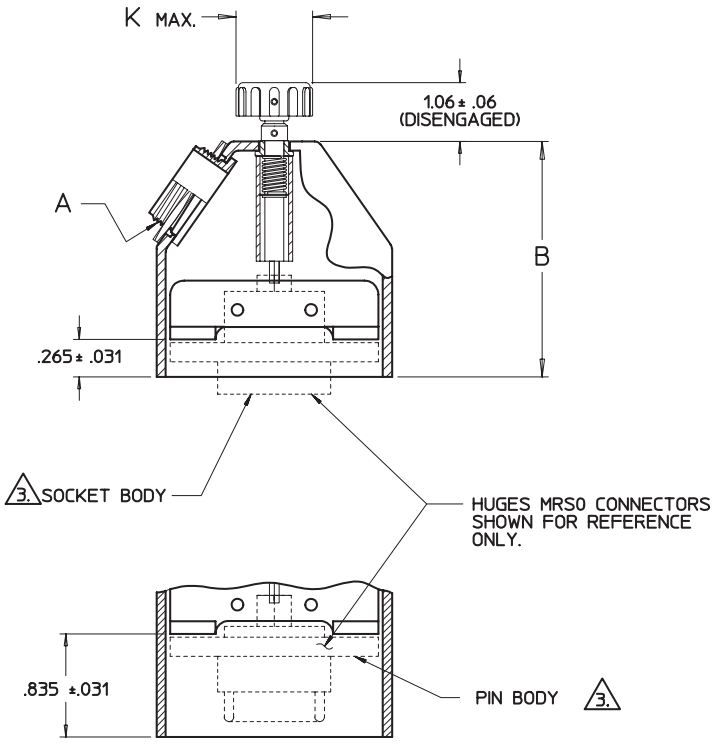
CONVOLUTED TUBING

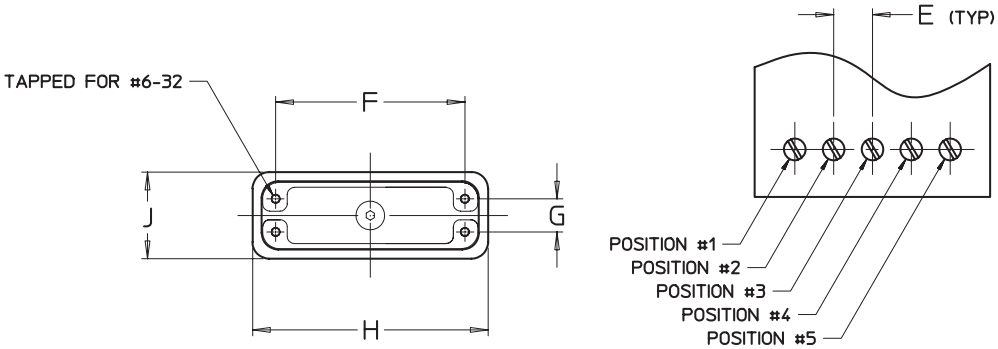


CABLE ADAPTER R.F.I.
(STANDARD 2~RING)



CABLE ADAPTER R.F.I.
(STYLE 'R' 3~RING)





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SHELL SIZE	A THREAD CLASS 2A	B MAX DIM	C MAX DIM	D DIM	E DIM	F MAX DIM	G +.020 -.000 DIM	H (MAX) DIM TYPE 1 90°	H (MAX) DIM TYPE 1 45°	H (MAX) DIM TYPE 2 STRAIGHT	J DIM MIN	J DIM MAX
20	.750 - 20 UNEF	1.938	1.094	℄	1.300	3.50	.500	1.88	2.00	2.00	.625	.635
36	.750 - 20 UNEF	2.390	1.094	℄	1.750	3.50	.500	1.88	2.00	2.00	.625	.635
52	.875 - 20 UNEF	2.531	1.348	.550	1.900	3.50	.625	1.88	2.00	2.00	.930	.940
80	1.250 - 18 UNEF	2.670	1.610	.812	2.045	3.50	1.000	1.88	2.00	2.00	.930	.940
104	1.250 - 18 UNEF	3.130	1.610	.812	2.500	4.19	1.000	2.13	2.13	2.13	.930	.940
158	1.500 - 18 UNEF	3.130	2.110	1.250	2.500	4.19	1.250	2.13	2.38	2.13	.990	1.000
212	1.500 - 18 UNEF	3.130	2.640	1.850	2.500	4.19	1.250	2.13	2.38	2.13	.990	1.000

EXAMPLE PART NUMBER

J1620 P 36 F 1 - 2 - 12 H W

- BASIC PART NUMBER
- BODY TYPE (4.)
- SHELL SIZE (4.)
- COVER OPTION (7.)
- TYPE (5.)
- POLARIZING POSITION (6.)
- PLATING (2.)
- SLOTTED SHAFT OPTION (9.)
- WING KNOB OPTION (10.)

10. INSERT "W" TO RECEIVE "WING KNOB" IN LIEU OF STANDARD KNOB.

9. INSERT "H" TO RECEIVE SLOTTED SHAFT OPTION WHICH ALLOWS TIGHTENING WITH A SCREWDRIVER (OMIT IF NOT REQUIRED).

8. BACKSHELLS ARE DESIGNED TO ACCOMODATE EITHER A SOCKET OR PIN BODY HUGHES MRS SERIES CONNECTOR WHEN THE MATING CONNECTOR IS FRONT MOUNTED ON A PANEL UTILIZING SUNBANK'S J1094 PIN PROTECTOR.

7. INSERT ONE OF THE FOLLOWING DESIGNATORS TO DEFINE THE COVER REQUIRED:
"F" - FOR COVER AND LINK CHAIN.
"N" - FOR NO COVER AND LANYARD ASSEMBLY.
"W" - FOR COVER AND WIRE ROPE.

6. INSERT POLARIZATION POSITION NUMBER. (NUMBERS IN BRACKETS INDICATE OPPOSITE SIDE OF BACKSHELL) OMIT IF NOT REQUIRED.

5. INSERT ONE OF THE FOLLOWING NUMBERS TO DEFINE THE TYPE REQUIRED:
"1" - FOR 45° OR 90° TYPE.
"2" - FOR STRAIGHT TYPE.

4. FOR SHELL SIZES 20 AND 36, INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE SHAFT LENGTH REQUIRED TO ACCOMODATE THE CONNECTOR BODY TYPE.
INSERT "-" FOR OTHER SHELL SIZE.
"S" - FOR SOCKET BODY
"P" - FOR PIN BODY.

3. MATERIAL: ADAPTER & BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591;
SHAFT ASSEMBLY - ALUMINUM ALLOY & SST.;
LINK CHAIN - SST.
HARDWARE - SST.
WIRE ROPE - S.S.T. COVERED WITH GREEN NYLON.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

NOTES:

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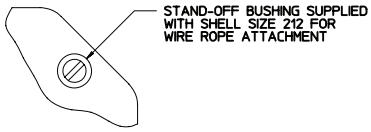
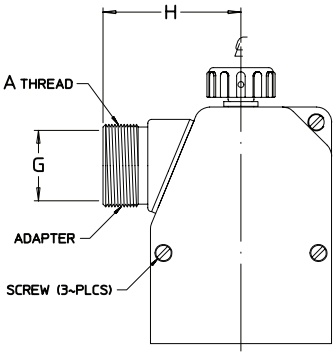
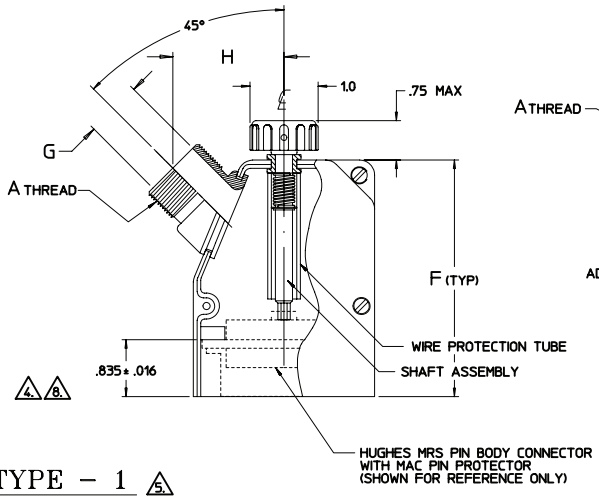
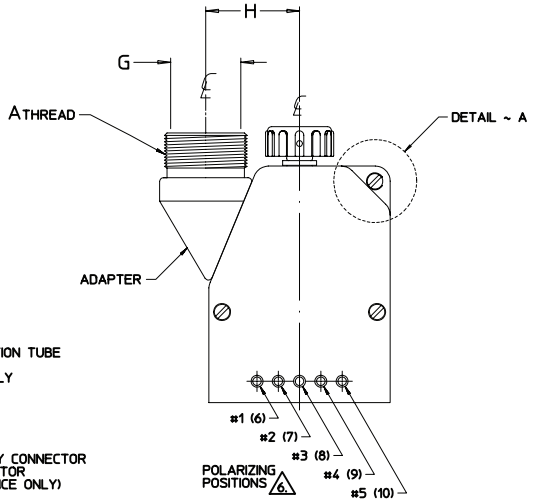


DETAIL ~ A

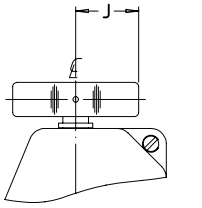




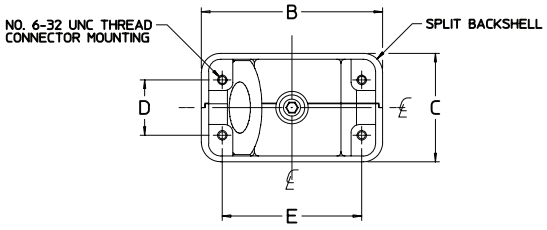
TYPE – 1 5.
45° OR 90° CONFIGURATION

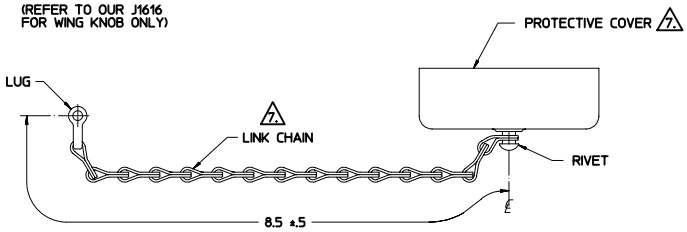


TYPE – 2 5.
STRAIGHT CONFIGURATION



WING KNOB OPTION 10.
(REFER TO OUR J1616
FOR WING KNOB ONLY)





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SHELL SIZE	A MAX DIM	B MAX DIM	C MAX DIM	D DIM	E DIM	F MAX DIM TYPE - I 45°	F MAX DIM TYPE - I 90°	F MAX DIM TYPE - II STR.	MAX CONDUIT SIZE
20	3.500	1.938	1.094	℄	1.300	2.000	1.880	2.000	14
36	3.500	2.390	1.094	℄	1.750	2.000	1.880	2.000	14
52	3.500	2.531	1.348	.550	1.900	2.000	1.880	2.000	20
80	3.500	2.670	1.610	.812	2.045	2.000	1.875	2.000	28
104	4.188	3.130	1.610	.812	2.500	2.130	2.130	2.000	32
158	4.188	3.130	2.110	1.250	2.500	2.375	2.125	2.125	40
212	4.188	3.130	2.640	1.850	2.500	2.375	2.125	2.125	40

EXAMPLE PART NUMBER

J1576 P 158 24 F 1 - 2 - 12 W -1

- BASIC PART NUMBER
- BODY TYPE 4.
- SHELL SIZE
- CONDUIT SIZE
- COVER OPTION 7.
- TYPE 5.
- POLARIZING POSITION 6.
- EYELET OPTION 9.
- PLATING 2.
- WING KNOB OPTION 10.
- 11.

11. ADD "-1" TO RECEIVE .265±.031 RECESS TO ALLOW CABLE TO CABLE MATING.

10. ADD THE LETTER "W" TO PART NUMBER TO RECIEVE WING KNOB OPTION. (OMIT IF NOT REQUIRED)

9. INSERT THE ONE OF THE FOLLOWING DESIGNATORS:
"G" FOR ASSEMBLY SUPPLIED WITH EYELET AND TAPER PINS
"-" FOR ASSEMBLY SUPPLIED LESS EYELET AND TAPER PINS

8. BACKSHELLS ARE DESIGNED TO ACCOMODATE EITHER A SOCKET OR PIN BODY HUGHES MRS SERIES CONNECTOR WHEN THE MATING CONNECTOR IS BACK MOUNTED ON A .125 INCH PANEL UTILIZING SUNBANKS J1577 PIN PROTECTPR.

7. INSERT ONE OF THE FOLLOWING DESIGNATORS TO DEFINE THE COVER REQUIRED:
"F" - FOR COVER AND CHAIN.
"N" - FOR NO COVER AND CHAIN.

6. INSERT POLARIZATION POSITION NUMBER IF REQUIRED. (NUMBERS IN BRACKETS INDICATE OPPOSITE SIDE OF BACKSHELL) OMIT IF NOT REQUIRED.

5. INSERT ONE OF THE FOLLOWING NUMBERS TO DEFINE THE TYPE REQUIRED:
"1" - FOR 45° OR 90° TYPE.
"2" - FOR STRAIGHT TYPE.

4. INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE SHAFT LENGTH REQUIRED TO ACCOMODATE THE CONNECTOR BODY TYPE.
"S" - FOR SOCKET BODY
"P" - FOR PIN BODY.

3. MATERIAL: ADAPTER & BACKSHELL ASSEMBLY - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591;
SHAFT ASSEMBLY - ALUMINUM ALLOY & SST.;
SPLIT RING - NYLON PER FEDERAL SPECIFICATION LP-410A, OR ASTM D4066;
HARDWARE - SST.

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

NOTES:

CONDUIT SIZE	NOMINAL CONDUIT I.D. (REF)	G ±.031 DIA
06	.187	.625
09	.281	.750
10	.312	.812
12	.375	.875
14	.437	.938
16	.500	1.000
20	.625	1.125
24	.750	1.312
28	.875	1.438
32	1.000	1.562
36	1.125	1.750
40	1.250	1.938

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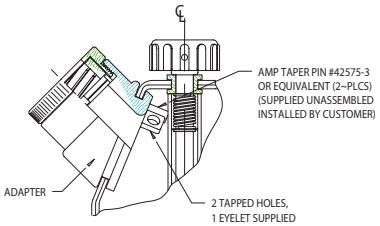
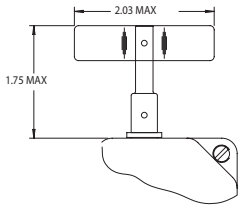
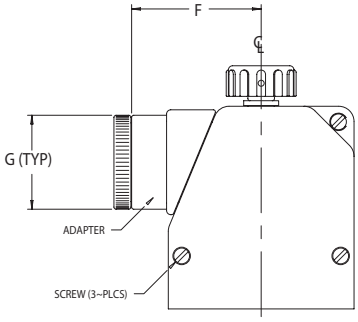
2. PLATING LEGEND	
CODE NUMBER	FINISH
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.

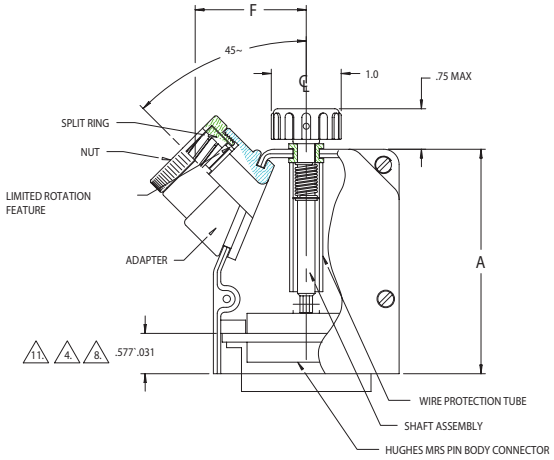


EYELET OPTION 9.

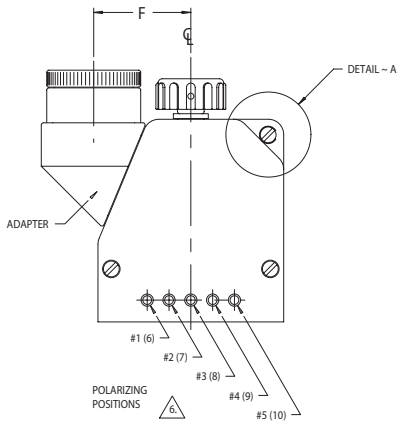


WING KNOB OPTION 10.

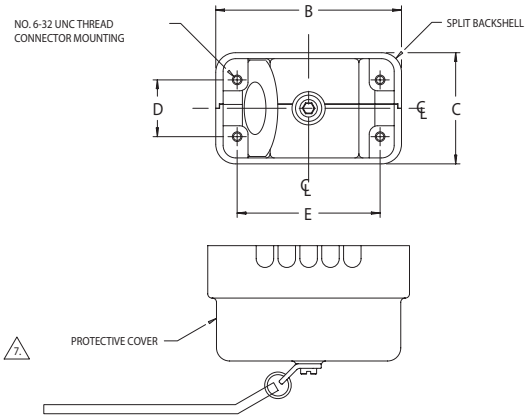


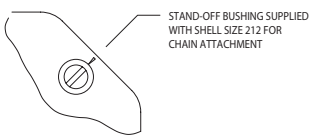


TYPE - I 5.
45˚ OR 90˚ CONFIGURATION



TYPE - II 5.
STRAIGHT CONFIGURATION





DETAIL ~ A

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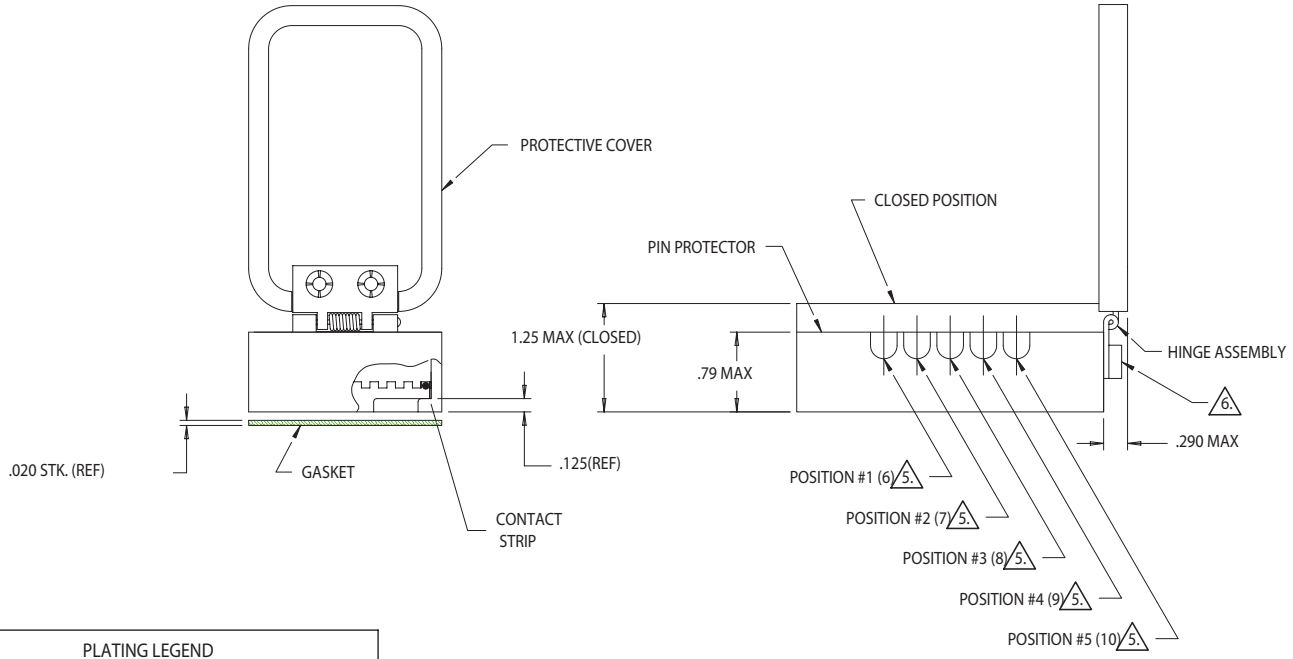
SHELL SIZE	A MAX DIM	B DIM	C MIN DIM	D DIM	E MIN DIM	F MAX DIM	G (8.) MIN DIM	H (8.) MIN DIM
158	3.375	2.500	2.270	1.250	1.870	2.344	3.173	2.158
212	3.375	2.500	2.270	1.850	2.400	2.890	3.173	2.688

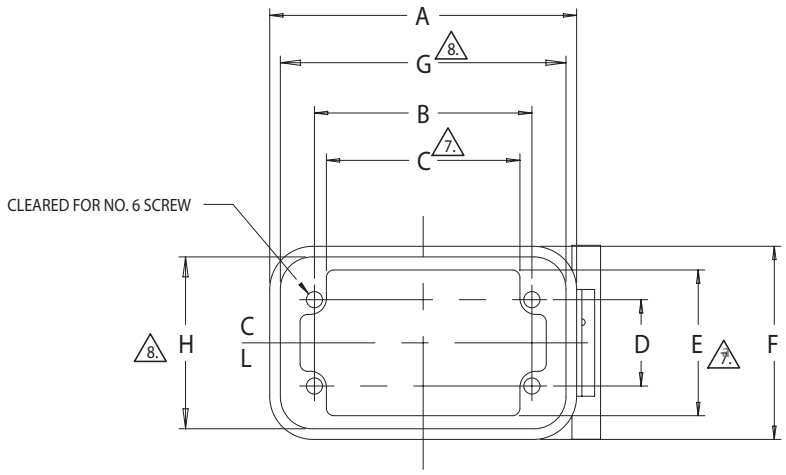
EXAMPLE PART NUMBER

J1721 - 158 - 12 - 1

- J1721 — BASIC PART NUMBER
- 158 — SHELL SIZE
- 12 — FINISH (2.)
- 1 — POLARIZING POSITION (5.)



(2.)	PLATING LEGEND
CODE NUMBER	FINISH
04	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
34	CADMIUM PLATE, OLIVE DRAB, PER MIL-C-85049, FINISH W.



8. DIMENSIONS INCLUDE THICKNESS OF STRIP (EXCLUDE CONTACT STRIP FINGERS).

7. AREA DESIGNED TO ACCOMMODATE THE HUGHES MRS CONNECTOR WITH THE HUGHES MAC PIN PROTECTOR.

6. SCREWS INSTALLED WITH EPOXY.

5. INSERT POLARIZING POSITION NUMBER (NUMBERS IN BRACKETS INDICATE OPPOSITE SIDE OF BACKSHELL), OMIT IF NOT REQUIRED.

4. THIS PIN PROTECTOR IS USED FOR SOCKET OR PIN BODY CONNECTORS BACK PANEL MOUNTED ON .188 INCH PANEL AND WILL ACCOMODATE HUGHES MAC PIN PROTECTOR.

3. MATERIAL: PIN PROTECTOR - ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591
GASKETS - MONEL & NEOPRENE AND MONEL WEAVE
PROTECTIVE COVER - ALUMINUM ALLOY
HARDWARE - SST.
CONTACT STRIP-BERYLLIUM COPPER (CADMIUM PLATED, YELLOW COLOR)

2. INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

NOTES:

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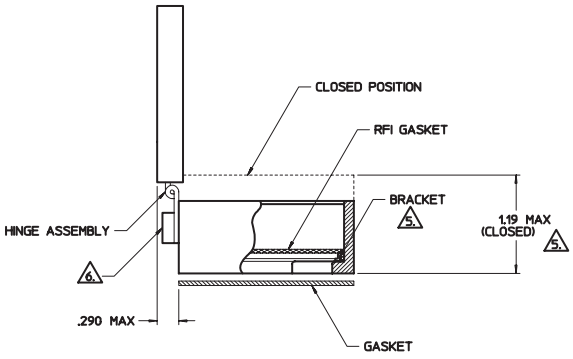
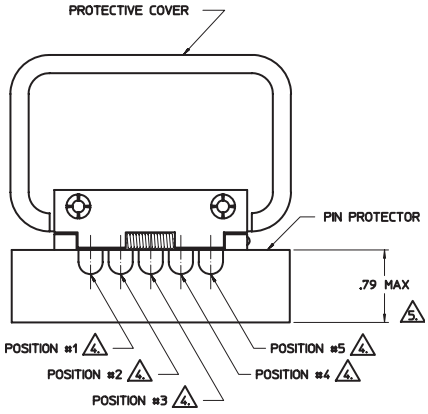
SHELL SIZE	A DIM	B DIM	C MAX DIM	D MAX DIM
10	1.300	℄	1.094	2.218
20	1.300	℄	1.423	2.218
36	1.750	℄	1.423	2.633
52	1.900	.550	1.591	2.773
80	2.045	.812	1.875	2.941
104	2.500	.812	1.875	3.406
158	2.500	1.250	2.375	3.406
212	2.500	1.850	2.921	3.406

EXAMPLE PART NUMBER
J1094-104-K3-12 P
- MOUNTING OPTION (5.)
- FINISH (2.)
- POLARIZING POSITION (4.)
- SHELL SIZE
- BASIC PART NUMBER





NOTES:

1. ASSEMBLY IDENTIFIED PER MIL-STD-130.

(2.) INSERT PLATING CODE NUMBER FOR FINISH REQUIRED.

3. MATERIAL: ADAPTER COMPONENTS - ALUMINUM ALLOY PER QQ-A-225 OR ASTM B85.
GASKET - MONEL NEOPRENE.
HARDWARE - SST.
PROTECTIVE COVER - ZYTEL.

(4.) LETTER "K6" DESIGNATES CUTOUT TO CLEAR ALL 5 POLARIZING POSITIONS. LETTER "K" IN PART NUMBER INDICATES POLARIZING POSITION NO. 1 TO BE SUPPLIED. (i.e. J1094-104-K3-4 WOULD BE POSITIONS 1 AND 3). IF ANY POSITION OTHER THAN NO. 1 IS REQUIRED, INSERT THAT NUMBER IN PART NUMBER. (OMIT DESIGNATOR IF NO CUTOUTS ARE REQUIRED).

(5.) INSERT ONE OF THE FOLLOWING LETTER DESIGNATORS TO DEFINE THE MOUNTING OPTION REQUIRED.

"P" - FOR FRONT MOUNTED CONNECTOR
.79 MAX WILL BE .94 MAX & 1.19 MAX WILL BE 1.39 MAX

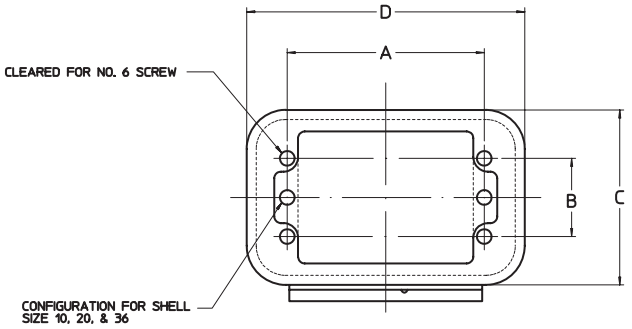
"M" - FOR BACK MOUNTED CONNECTOR
(BRACKET INDICATED WILL BE SUPPLIED ON INSIDE OF PIN PROTECTOR)

"MC" - SAME AS STYLE "M" EXCEPT BRACKET INDICATED WILL ACCOMODATE 100° FLAT HEAD SCREWS

"PM" - SAME AS "M" EXCEPT .79 MAX WILL BE .94 MAX AND 1.19 MAX WILL BE 1.39 MAX

"PMC" - SAME AS "PM" EXCEPT BRACKET INDICATED WILL ACCOMODATE 100° FLAT HEAD SCREWS

(6.) SCREWS TO BE INSTALLED WITH EPOXY.



(2.) PLATING LEGEND	
CODE NUMBER	FINISH
4	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
8	ANODIZE, BLACK, PER MIL-A-8625, TYPE II, CLASS 2.
10	CADMIUM PLATE, BLACK, PER QQ-P-416, TYPE II, CLASS 3.
12	ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B.

SELF-SEATING PATENT NO. 5,435,760

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FAA - PMA Approval Listing

FFA - PMA Approval Listing Sorted By Boeing Part Number

Sunbank PN	Boeing PN	Approval	Date	Installation
23A02665	23A02665	PQ2103NM Sup. 4	7/1/1998	767-200, -300
23A02666	23A02666	PQ2103NM Sup. 3	6/17/1998	747-400
23A02667	23A02667	PQ2103NM Sup. 3	6/17/1998	747-400, -400D
287A6116-1	287A6116-1	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-10	287A6116-10	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-11	287A6116-11	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-12	287A6116-12	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-13	287A6116-13	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-14	287A6116-14	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-15	287A6116-15	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-16	287A6116-16	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-17	287A6116-17	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-18	287A6116-18	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-19	287A6116-19	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
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287A6116-21	287A6116-21	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
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287A6116-25	287A6116-25	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
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287A6116-31	287A6116-31	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
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287A6116-33	287A6116-33	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
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287A6116-4	287A6116-4	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-5	287A6116-5	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-6	287A6116-6	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-7	287A6116-7	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-8	287A6116-8	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6116-9	287A6116-9	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900

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287A6212-11	287A6212-11	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800
287A6212-15	287A6212-15	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6212-17	287A6212-17	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6212-18	287A6212-18	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6212-21	287A6212-21	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6212-22	287A6212-22	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6212-23	287A6212-23	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
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287A6212-3	287A6212-3	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-800
287A6212-4	287A6212-4	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6212-5	287A6212-5	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-800
287A6212-6	287A6212-6	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
287A6212-7	287A6212-7	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
23A02668	287N1048-1	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N1048-1	287N1048-1	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02661-11	287N6102-11	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6102-11	287N6102-11	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02661-12	287N6102-12	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6102-12	287N6102-12	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02661-16	287N6102-16	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6102-16	287N6102-16	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
287N6102-17	287N6102-17	PQ2103NM Sup. 6	8/24/2005	757-200
287N6102-18	287N6102-18	PQ2103NM Sup. 6	8/24/2005	757-200 757-300
23A02661-31	287N6102-31	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF
287N6102-31	287N6102-31	PQ2103NM Sup. 6	8/24/2005	757-200 757-200PF
23A02661-33	287N6102-33	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF
287N6102-33	287N6102-33	PQ2103NM Sup. 6	8/24/2005	757-200 757-200PF 757-300
287N6102-37	287N6102-37	PQ2103NM Sup. 6	8/24/2005	757-200
23A02661-8	287N6102-8	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6102-8	287N6102-8	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02661-9	287N6102-9	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6102-9	287N6102-9	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02662-11	287N6202-11	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI

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23A02662-13	287N6202-13	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6202-13	287N6202-13	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02662-17	287N6202-17	PQ2103NM Sup. 4	7/1/1998	757-200
287N6202-17	287N6202-17	PQ2103NM Sup. 6	8/24/2005	757-200 757-300
23A02662-18	287N6202-18	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6202-18	287N6202-18	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02662-19	287N6202-19	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6202-19	287N6202-19	PQ2103NM Sup. 6	8/24/2005	757-200 . 757-2000B Sees 757-200PF 757-300
23A02662-20	287N6202-20	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6202-20	287N6202-20	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
23A02662-21	287N6202-21	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI
287N6202-21	287N6202-21	PQ2103NM Sup. 6	8/24/2005	757-200 757-2000B 757-200PF 757-300
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344A2802-1	344A2802-1	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
344A2802-2	344A2802-2	PQ2103NM Sup. 6	8/24/2005	737-600 737-700 737-700C 737-800 737-900
23A02664-12	60B70001-12	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 400F
23A02664-122	60B70001-122	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-125	60B70001-125	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-126	60B70001-126	PQ2103NM Sup. 6	8/24/2005	747-400 747-400D 747-400F
23A02664-127	60B70001-127	PQ2103NM Sup. 3	6/17/1998	747-400
23A02664-128	60B70001-128	PQ2103NM Sup. 6	8/24/2005	747-400 747-400D 747-400F
23A02664-129	60B70001-129	PQ2103NM Sup. 6	8/24/2005	747-400 747-400D 747-400F
23A02664-13	60B70001-13	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 400F
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23A02664-131	60B70001-131	PQ2103NM Sup. 6	8/24/2005	747-400 747-400D 747-400F
23A02664-14	60B70001-14	PQ2103NM Sup. 3	6/17/1998	747SP -100 to 400F
23A02664-17	60B70001-17	PQ2103NM Sup. 3	6/17/1998	747-100
23A02664-18	60B70001-18	PQ2103NM Sup. 3	6/17/1998	747-100
23A02664-19	60B70001-19	PQ2103NM Sup. 3	6/17/1998	747-100B, -200B, -200C, -200F, -300
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23A02664-3	60B70001-3	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 400F
23A02664-31	60B70001-31	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 400F
23A02664-32	60B70001-32	PQ2103NM Sup. 3	6/17/1998	747SR-100 to 300
23A02664-33	60B70001-33	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 300
23A02664-34	60B70001-34	PQ2103NM Sup. 3	6/17/1998	747SP-100 to 400F
23A02664-36	60B70001-36	PQ2103NM Sup. 3	6/17/1998	747SP-100 to 400F
23A02664-37	60B70001-37	PQ2103NM Sup. 3	6/17/1998	747SP-100 to 400F
23A02664-38	60B70001-38	PQ2103NM Sup. 3	6/17/1998	747SP-100 to 300
23A02664-39	60B70001-39	PQ2103NM Sup. 3	6/17/1998	747SP-100 to 300
23A02664-43	60B70001-43	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-44	60B70001-44	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-46	60B70001-46	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-47	60B70001-47	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-48	60B70001-48	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-5	60B70001-5	PQ2103NM Sup. 3	6/17/1998	747-100
23A02664-50	60B70001-50	PQ2103NM Sup. 3	6/17/1998	747-300, 400, -400D, -400F
23A02664-51	60B70001-51	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-52	60B70001-52	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-55	60B70001-55	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-56	60B70001-56	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-57	60B70001-57	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-59	60B70001-59	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-6	60B70001-6	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 300
23A02664-60	60B70001-60	PQ2103NM Sup. 3	6/17/1998	747-400, -400D, -400F
23A02664-61	60B70001-61	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 400F
23A02664-62	60B70001-62	PQ2103NM Sup. 3	6/17/1998	747-400
23A02664-63	60B70001-63	PQ2103NM Sup. 3	6/17/1998	747-400F
23A02664-64	60B70001-64	PQ2103NM Sup. 3	6/17/1998	747-400F
23A02664-7	60B70001-7	PQ2103NM Sup. 3	6/17/1998	747-200, -200
23A02664-9	60B70001-9	PQ2103NM Sup. 3	6/17/1998	747SP SR-100 to 300
24A00337-19	65-39548-19	PQ2103NM Sup. 4	7/1/1998	757-200, -200PF, 200COMBI, 727-200

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24A00337-20	65-39548-20	PQ2103NM Sup. 4	7/1/1998	727-200
65-39548-20	65-39548-20	PQ2103NM Sup. 6	8/24/2005	727-200 727-200F
24A00337-24	65-39548-24	PQ2103NM Sup. 4	7/1/1998	727-200
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65C38414-1	65C38414-1	PQ2103NM Sup. 6	8/24/2005	737-200 737-200C
65C38414-2	65C38414-2	PQ2103NM Sup. 6	8/24/2005	737-200 737-200C
65C38414-3	65C38414-3	PQ2103NM Sup. 6	8/24/2005	737-300 737-400 737-500
65C38414-4	65C38414-4	PQ2103NM Sup. 6	8/24/2005	737-300 737-400 737-500
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	BACC10HD12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HD12A	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
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	BACC10HF10C	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
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	BACC10HG14C	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG16A	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500

Sunbank PN	Boeing PN	Approval	Date	Installation
	BACC10HG18	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG18A	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG18C	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG20A	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG22	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG24	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG24C	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG28	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HG28C	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HV16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HV20	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HV24	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HV32	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HV4	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HW12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10HW32	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10JC3	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10JC8	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10JS12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA10	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA14	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA18	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA20	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA22	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA24	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KA28	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KB10	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KB12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KB14	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KB16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KB18	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500

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	BACC10KB22	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC10	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC14	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC18	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC22	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC24	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KC28	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD10	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD14	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD18	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD20	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD22	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KD24	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE10	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE14	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE18	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE20	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE22	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KE24	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF10	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF12	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF14	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF16	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF18	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF20	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF22	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500
	BACC10KF24	PQ2103NM Sup. 2	8/25/1997	737, 747, 757, 767 -100 to 500

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23A02207-2	S280W660-2	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-001	S287W501-001	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-277	S287W501-277	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-278	S287W501-278	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-279	S287W501-279	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-281	S287W501-281	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-282	S287W501-282	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-283	S287W501-283	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-284	S287W501-284	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-285	S287W501-285	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-286	S287W501-286	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-287	S287W501-287	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-288	S287W501-288	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-289	S287W501-289	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-290	S287W501-290	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-291	S287W501-291	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-292	S287W501-292	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-294	S287W501-294	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-294	S287W501-294	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-295	S287W501-295	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-296	S287W501-296	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-297	S287W501-297	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-298	S287W501-298	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-299	S287W501-299	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-302	S287W501-302	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-303	S287W501-303	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-304	S287W501-304	PQ2103NM Sup. 6	8/24/2005	777-300 777-300ER
23A02038-305	S287W501-305	PQ2103NM Sup. 6	8/24/2005	777-200 777-300 777-300ER
23A02038-418	S287W501-418	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-420	S287W501-420	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-421	S287W501-421	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-422	S287W501-422	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-423	S287W501-423	PQ2103NM Sup. 2	8/25/1997	777-200

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23A02038-424	S287W501-424	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-426	S287W501-426	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-427	S287W501-427	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-428	S287W501-428	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-429	S287W501-429	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-430	S287W501-430	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-431	S287W501-431	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-432	S287W501-432	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-433	S287W501-433	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-434	S287W501-434	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-435	S287W501-435	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-437	S287W501-437	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-438	S287W501-438	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-439	S287W501-439	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-440	S287W501-440	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-442	S287W501-442	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-443	S287W501-443	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-444	S287W501-444	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-446	S287W501-446	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-447	S287W501-447	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-448	S287W501-448	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-449	S287W501-449	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-450	S287W501-450	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-451	S287W501-451	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-453	S287W501-453	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-454	S287W501-454	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-455	S287W501-455	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-456	S287W501-456	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-457	S287W501-457	PQ2103NM Sup. 6	8/24/2005	777-200 777-300
23A02038-611	S287W501-611	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-613	S287W501-613	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-614	S287W501-614	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-615	S287W501-615	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300

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23A02038-616	S287W501-616	PQ2103NM Sup. 2	8/25/1997	777-200
23A02038-616	S287W501-616	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-618	S287W501-618	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-619	S287W501-619	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-620	S287W501-620	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A02038-641	S287W501-641	PQ2103NM Sup.1/Sup.5	7/8/96 - 7/1/98	777-200, 300
23A03138-001	S287W502-001	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-002	S287W502-002	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-003	S287W502-003	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-004	S287W502-004	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-005	S287W502-005	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-006	S287W502-006	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-007	S287W502-007	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-008	S287W502-008	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-009	S287W502-009	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-010	S287W502-010	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-011	S287W502-011	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-012	S287W502-012	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-013	S287W502-013	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-014	S287W502-014	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-300	S287W502-300	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-301	S287W502-301	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-500	S287W502-500	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-501	S287W502-501	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-502	S287W502-502	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-503	S287W502-503	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-504	S287W502-504	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-505	S287W502-505	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-506	S287W502-506	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-507	S287W502-507	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-508	S287W502-508	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-509	S287W502-509	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-510	S287W502-510	PQ2103NM Sup. 6	8/24/2005	777-300ER

Sunbank PN	Boeing PN	Approval	Date	Installation
23A03138-511	S287W502-511	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-700	S287W502-700	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-701	S287W502-701	PQ2103NM Sup. 6	8/24/2005	777-300ER
23A03138-702	S287W502-702	PQ2103NM Sup. 6	8/24/2005	777-300ER
S5001-1	S5001-1	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F
S5001-2	S5001-2	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F
S5002-1	S5002-1	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F
S5002-3	S5002-3	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F
S5002-5	S5002-5	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F
S5002-6	S5002-6	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F
S5037	S5037	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F
S5041	S5041	PQ2103NM Sup. 6	8/24/2005	747-400 747-400F 767-200 767-300 767-400ER

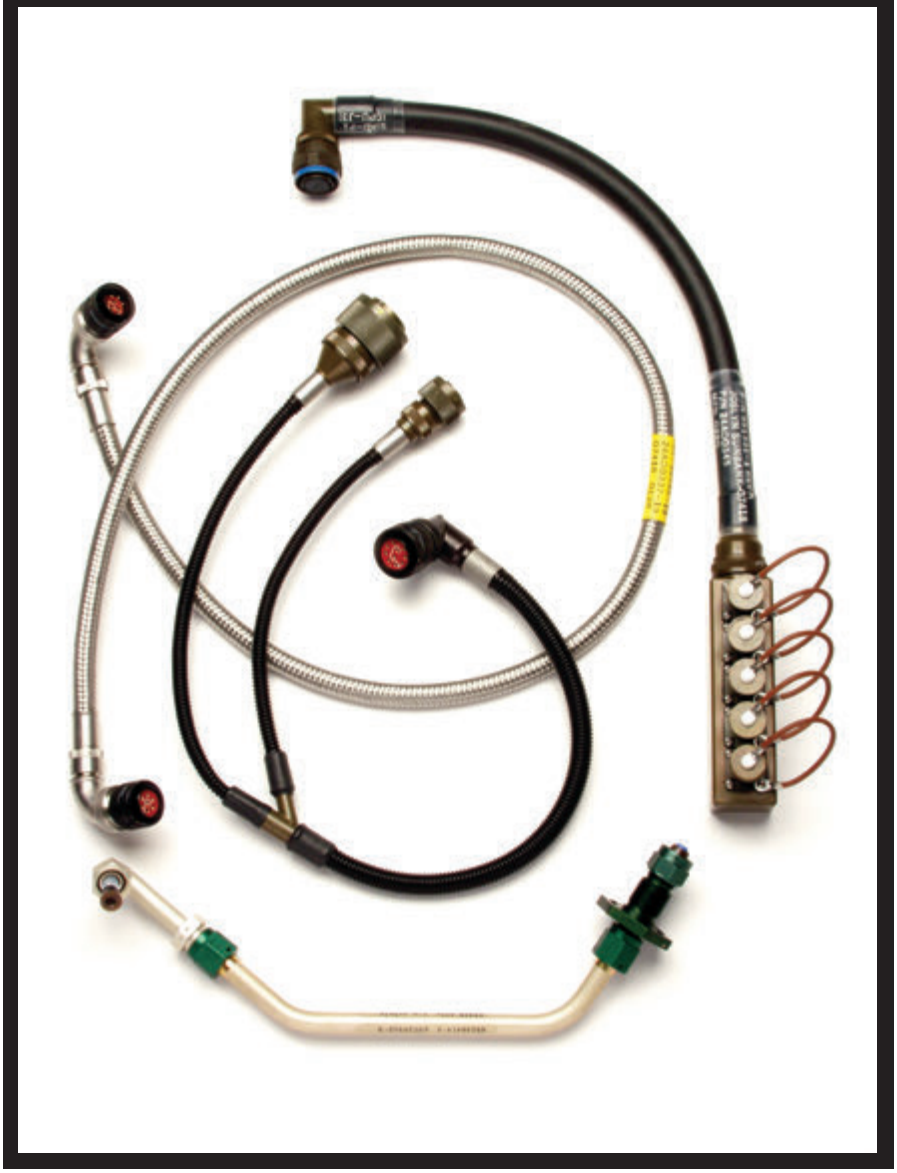
4 TABS TO A BANK: Each tab is 2-1/2" long.

Binder Tabs
Proof version 2
10-20-14
3-Ring Binder

Sunbank

Joslyn Sunbank Company, LLC

Sunflex Flexible Conduit



SELF-SEATING™

PATENT NO. 5,435,760

Web link to Sunbank
www.sunbankcorp.com

Comprehensive conduit harnessing systems of incredible versatility and durability.

Sunflex builds the toughest conduits under the sun. Conduits so rugged they offer unsurpassed physical protection and electromagnetic shielding against the worst hazards that plague military and commercial wiring. Our vast range of light to heavy-weight conduits meets even the most exacting wire protection needs.

Unlike other conduit manufacturers, Sunflex incorporates the newest of the potent new technologies and materials. Our state-of-the-art capabilities provide an extensive selection of the most effective braids, armoring, sheathing and convoluted fluorocarbon tubing.

Our highly-survivable conduit systems offer the most effective harnessing features:

RE-ENTERABILITY AND REPAIRABILITY: Wiring is accessible quickly and easily, under both field and non-field conditions. Harness need not be removed from an installed location.

LONG FLEXURE LIFE: Flexing tests under ambient, high and low temperatures have proven our convoluted plastic conduit design vastly superior to many other systems, by a factor of up to 1000 times.

TEMPERATURE SURVIVABILITY: Sunflex conduits possess the proven capacity to withstand heat to +500°F or cold to −95°F.

FLUID RESISTANT: Manufactured from fluorocarbon polymers, our conduits resist absorption of all known solvents.

FLAME RESISTANT: Tests have shown Polytetrafluoroethylene conduits to exhibit no afterburn following immersion in fuels, including diesel fuel. Fluorocarbon materials used in Sunflex conduits are self-extinguishing and do not support combustion.

LONG SHELF LIFE: Our special manufacturing process and use of chemically inert materials insure a virtually unlimited shelf life.

SUPERIOR SHIELDING: First-quality materials and our special metal braiding design provide maximum shielding against EMI/RFI and EMP.

Conduits may be terminated with an extensive range of Sunbank backshells and transitions for an environmentally sealed system that is re-enterable and repairable. These comprehensive systems feature an extremely low life-cycle cost and have been evaluated by military authorities as "most likely to achieve the service goal life of 20 years."

Material properties of Sunflex conduits

The first consideration in the selection of a conduit liner must be the material properties. This chart details the four basic fluorocarbon materials that form the basis of the Sunflex conduit system.

MATERIAL PROPERTY	PFA (P***00A-)	PTFE (T***00A-)	FEP (F***00A-)	ETFE (E***00A-)
MIN./MAX. TEMPERATURE	−95°F / +525°F	−95°F / +500°F	−95°F / +400°F	−65°F / +310°F
TENSILE STRENGTH	3000 psi	2500 psi	2500 psi	5000 psi
ELONGATION	250%	175%	200%	100%
SPECIFIC GRAVITY	2.15	2.15	2.15	1.70
DIELECTRIC STRENGTH	12,000 V	12,000 V	12,000 V	12,000 V
VOLUME RESISTIVITY	10^{18}	10^{18}	10^{18}	10^{16}
WATER ABSORPTION	0.03%	0.01%	0.01%	0.02%
HEAT AGING	2,000 hrs. at 525°F	2,000 hrs. at 525°F	2,000 hrs. at 430°F	2,000 hrs. at 350°F
SOLVENT RESISTANCE	NO SWELLING, TACKINESS OR WEIGHT CHANGE			
FLAMMABILITY	NON-BURNING			
FUNGUS RESISTANCE	DOES NOT SUPPORT FUNGUS GROWTH			

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Material properties of Sunflex elastomer jackets

MATERIAL PROPERTY	HYPALON (Chlorosulfonated Polyethylene)	NEOPRENE (Polychloroprene)	EPDM (Ethylene Propylene Diene Monomer)
TEMPERATURE RANGE ° F	–60 to +300°	–60 to +250°	–90 to +293°
SPECIFIC GRAVITY	1.18	1.25	.86
WEIGHT LBS/CUBIC INCH	.043	.045	.031
ABRASION RESISTANCE	Excellent	Excellent	Excellent
WEAR RESISTANCE	Good	Good	Good
FLAME RESISTANCE	Good	Good	Poor
EXPOSURE TO SUNLIGHT	Excellent	Fair	Excellent
CHEMICAL RESISTANCE			
ALIPHATIC HYDROCARBONS	Good	Good	Poor
AROMATIC HYDROCARBONS	Fair	Fair	Poor
KETONES ETC.	Poor	Poor	Good
OIL & GASOLINE	Good	Good	Poor

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To determine conduit size required

A wire bundle may contain all the same diameter wires or a mixture of several different diameters.

It is not sufficient to know the gage of wire as this only gives the diameter of the conductor. The overall diameter over the insulation and or braids, etc., must be established by reference to the appropriate wire specification.

	EXAMPLE A:	EXAMPLE B:
Take the case of 30 wires:	(All 30 same size wire) 30 at .045 diameter	(2 different size wires) 15 at .045″ diameter 15 at .135″ diameter
Calculate average wire diameter:	$30 \times .045 = .135$ Total .135 $\frac{.135}{30} = .045$ average wire diameter	15 at .045 – $15 \times .045 = .68$ 15 at .135 – $15 \times .135 = 2.03$ Total 2.71 $\frac{2.71}{30} = .090$ average wire diameter
From Table 1 select factor for 30 wires (6.7) and multiply average wire diameter by this factor to get total wire bundle diameter.	$.045 \times 6.7 = .3015$	$.090 \times 6.7 = .603$
From Table 2 select the appropriate conduit size required. (80% conduit fill factor is recommended)	Size 12 (.335 diameter=80% fill)	Size 24 (.671 diameter=80% fill)
It may be required by space limitation to fill the conduit to 98% capacity. In that case the selection would be:	Size 10 (.312 diameter)	Size 20 (.625 diameter)

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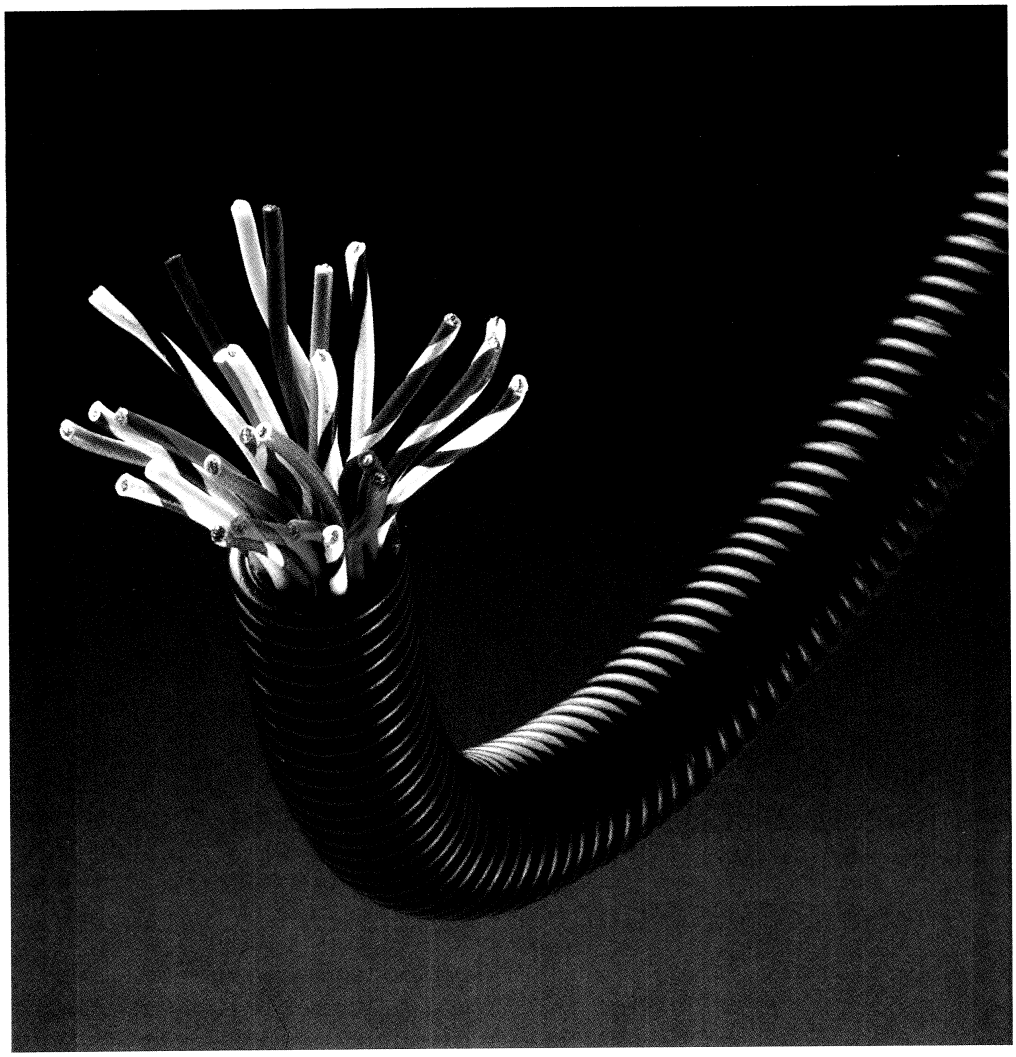

Table 1	
Number of wires	Factor b
1	1.0
2	2.0
3	2.2
4	2.4
5	2.7
6	2.9
7	3.0
8	3.3
9	3.8
10	4.0
12	4.3
14	4.6
16	5.0
18	5.3
20	5.6
24	6.0
28	6.5
32	6.9
36	7.4
40	7.7
45	8.1
50	8.5
55	8.9
60	9.3
65	9.7
70	10.1
75	10.5
80	10.9
90	11.6
100	12.2
125	13.7
150	15.0
175	16.1
200	17.2
250	19.3
300	21.0

Table 2						
Conduit Size	Conduit I.D. Size in inches	50% Fill	60% Fill	70% Fill	80% Fill	90% Fill
06	3/16	.133	.145	.157	.167	.178
09	9/32	.199	.218	.235	.251	.267
10	5/16	.221	.243	.262	.279	.296
12	3/8	.265	.290	.313	.335	.356
14	7/16	.310	.340	.367	.391	.415
16	1/2	.354	.387	.418	.447	.474
20	5/8	.442	.484	.523	.560	.593
24	3/4	.530	.581	.627	.671	.712
28	7/8	.621	.682	.735	.783	.831
32	1	.707	.774	.836	.895	.949
40	1-1/4	.884	.968	1.046	1.118	1.186

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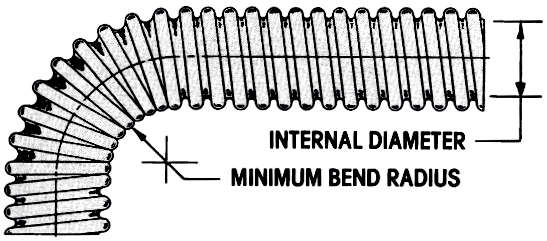
Standard Convolution, Standard Wall Conduits.



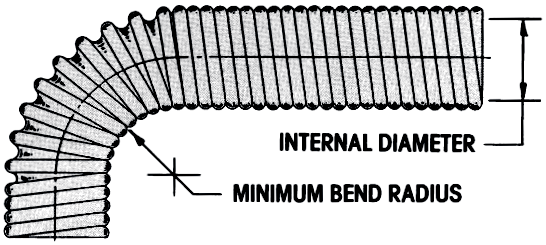
For use where a lightweight conduit is required to contain the wire bundle and give mechanical protection, fluid resistance and sealing. Select prefix for material to meet temperature requirements.

EXAMPLES: Internal panel wiring, computer consoles, airframe wiring (behind panels), etc.

PART NUMBER	MIL-T-81914 IDENTIFIER	INT. DIA.	MAX. O/D	MINIMUM BEND RAD.	MAX. WT. (LBS./FT.)
*1060*A-000000	01	3/16	.320	1/2	.020
*1090*A-000000	02	9/32	.414	3/4	.029
*1100*A-000000	03	5/16	.450	7/8	.036
*1120*A-000000	04	3/8	.530	1	.042
*1140*A-000000	05	7/16	.590	1-1/4	.049
*1160*A-000000	06	1/2	.660	1-1/2	.052
*1200*A-000000	07	5/8	.780	1-3/4	.069
*1240*A-000000	08	3/4	.975	1-7/8	.104
*1280*A-000000	09	7/8	1.100	1-1/4	.113
*1320*A-000000	10	1	1.260	2-1/2	.126
*1360*A-000000	11	1-1/8	1.390	2-3/4	.138
*1400*A-000000	12	1-1/4	1.539	3	.155
*1480*A-000000	13	1-1/2	1.850	3-3/4	.217
*1560*A-000000	14	1-3/4	2.100	4-1/4	.253
*1640*A-000000	15	2	2.350	4-3/4	.290

P****0*-****** = PFA
T****0*-****** = PTFE = MIL-T-81914/1-10**
F****0*-****** = FEP = MIL-T-81914/3-10**
E****0*-****** = ETFE = MIL-T-81914/6-10**

Extra Flexible Convolution, Standard Wall Conduits.



Similar to standard wall, standard convolution but where constant flexing and additional crush resistance is required.

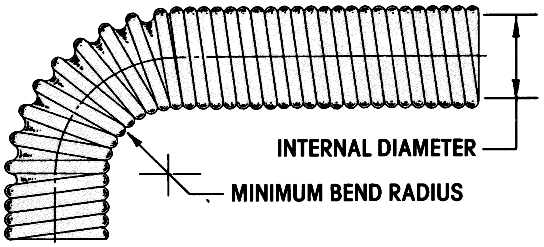
EXAMPLES: Removable rack and panel systems, drawer units, aircraft landing gear systems, robotics, etc.

PART NUMBER	MIL-T-81914 IDENTIFIER	INT. DIA.	MAX. O/D	MINIMUM BEND RAD.	MAX. WT. (LBS./FT.)
*2060*A-000000	01	3/16	.320	1/4	.022
*2090*A-000000	02	9/32	.414	3/8	.038
*2100*A-000000	03	5/16	.450	7/16	.048
*2120*A-000000	04	3/8	.530	1/2	.056
*2140*A-000000	05	7/16	.590	1/2	.065
*2160*A-000000	06	1/2	.660	3/4	.069
*2200*A-000000	07	5/8	.780	3/4	.092
*2240*A-000000	08	3/4	.975	15/16	.138
*2280*A-000000	09	7/8	1.100	15/16	.150
*2320*A-000000	10	1	1.260	1-1/8	.168
*2360*A-000000	11	1-1/8	1.390	1-1/8	.175
*2400*A-000000	12	1-1/4	1.539	1-1/4	.196
*2480*A-000000	13	1-1/2	1.850	2	.260
*2560*A-000000	14	1-3/4	2.100	2-1/2	.320
*2640*A-000000	15	2	2.350	3	.360

P****0*-****** = PFA
T****1*-****** = PTFE = MIL-T-81914/2-10**
F****0*-****** = FEP = MIL-T-81914/4-11**
E****0*-****** = ETFE = MIL-T-81914/5-11**

NOTE: Standard conduit part numbers shown indicate the color by the 6th digit. 0 = clear, 1 = black. Either option can be supplied.

Extra Flexible Convolution, Thin Wall Conduits.



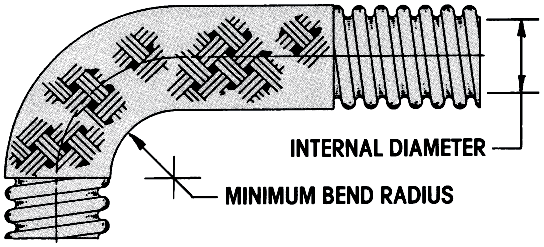
Similar to standard and extra flexible but having a thinner wall, it is to be specified only where MINIMUM WEIGHT is a prime requirement.

EXAMPLES: Military fighter aircraft internal wiring systems, etc.

PART NUMBER	MIL-T-81914 IDENTIFIER	INT. DIA.	MAX. O/D	MINIMUM BEND RAD.	MAX. WT. (LBS./FT.)
*5060*A-000000	01	3/16	.320	5/16	.014
*5090*A-000000	02	9/32	.414	3/8	.016
*5100*A-000000	03	5/16	.450	3/8	.019
*5120*A-000000	04	3/8	.510	1/2	.020
*5140*A-000000	05	7/16	.571	1/2	.029
*5160*A-000000	06	1/2	.650	3/4	.034
*5200*A-000000	07	5/8	.770	3/4	.044
*5240*A-000000	08	3/4	.930	15/16	.054
*5280*A-000000	09	7/8	1.073	1-1/4	.069
*5320*A-000000	10	1	1.226	1-1/4	.075
*5360*A-000000	11	1-1/8	1.390	1-7/16	.085
*5400*A-000000	12	1-1/4	1.539	1-7/16	.097
*5480*A-000000	13	1-1/2	1.832	1-3/4	.113
*5560*A-000000	14	1-3/4	2.082	2.000	.123
*5640*A-000000	15	2	2.332	2-1/4	.133

P****O*-****** = PFA
T****1*-****** = PTFE
F****O*-****** = FEP = MIL-T-81914/4-12**
E****O*-****** = ETFE = MIL-T-81914/5-12**

Extra Flexible Convolution, Standard Wall Conduits with Phosphor Bronze or Stainless Steel Wire Overbraid.



Phosphor bronze braided conduits give a considerable amount of mechanical protection together with excellent shielding or screening characteristics.

EXAMPLES: Combat vehicle wiring, automatic test equipment, lightning strike protection for aircraft wiring.

Stainless steel wire overbraided conduits are specified where mechanical protection only is required. They give maximum protection with a very high flexure rate. (Standard is partial cover braid.)

EXAMPLES: Military and commercial aircraft landing gears, combat vehicle lighting systems, heavy plant equipment, etc.

PART NUMBER	MIL-T-81914 IDENTIFIER	INT. DIA.	MAX. O/D	MINIMUM BEND RAD.	MAX. WT. (LBS./FT.)
*2060*B-0*0000	–	3/16	.380	1/2	.082
*2090*B-0*0000	–	9/32	.474	3/4	.102
*2100*B-0*0000	–	5/16	.510	7/8	.114
*2120*B-0*0000	–	3/8	.590	1	.151
*2140*B-0*0000	–	7/16	.650	1-1/4	.163
*2160*B-0*0000	–	1/2	.720	1-1/2	.173
*2200*B-0*0000	–	5/8	.840	1-3/4	.243
*2240*B-0*0000	–	3/4	1.035	1-7/8	.300
*2280*B-0*0000	–	7/8	1.160	2-1/4	.332
*2320*B-0*0000	–	1	1.320	2-1/2	.397
*2360*B-0*0000	–	1-1/8	1.450	2-3/4	.420
*2400*B-0*0000	–	1-1/4	1.600	3	.457
*2480*B-0*0000	–	1-1/2	1.910	3-3/4	.485
*2560*B-0*0000	–	1-3/4	2.160	4-1/4	.520
*2640*B-0*0000	–	2	2.410	4-3/4	.570

T****1*-*D**** = PTFE with Phosphor Bronze Overbraid
T****1*-*E**** = PTFE with Stainless Steel Overbraid—Full cover
T****O*-*F**** = PTFE with Stainless Steel Overbraid—Partial cover
F****O*-*D**** = FEP with Phosphor Bronze Overbraid
F****O*-*E**** = FEP with Stainless Steel Overbraid—Full cover
F****O*-*F**** = FEP with Stainless Steel Overbraid—Partial cover

NOTE: Standard conduit part numbers shown indicate the color by the 6th digit. 0 = clear, 1 = black. Either option can be supplied.

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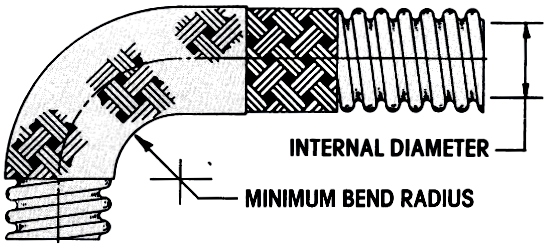
Extra Flexible Convolution, Standard Wall Conduits with Tinned Copper Wire Braid and Overbraid of Nomex or Dacron.



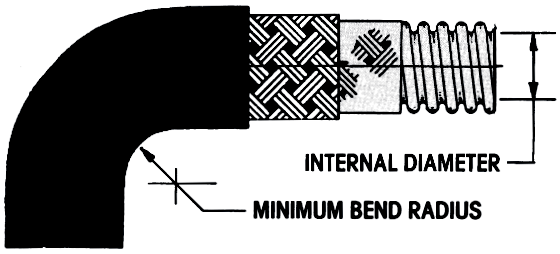
A medium weight, highly flexible, single shielded conduit with an overbraid of Dacron or Nomex to give external insulation and mechanical protection of the metal braid.

EXAMPLES: Automatic test equipment interconnects, airframe wiring, handset cables, computer interconnects, etc.

PART NUMBER	MIL-T-81914 IDENTIFIER	INT. DIA.	MAX. O/D	MINIMUM BEND RAD.	MAX. WT. (LBS./FT.)
*2060*C-0A00**	–	3/16	.440	7/16	.067
*2090*C-0A00**	–	9/32	.534	5/8	.097
*2100*C-0A00**	–	5/16	.570	3/4	.109
*2120*C-0A00**	–	3/8	.650	7/8	.120
*2140*C-0A00**	–	7/16	.710	1	.131
*2160*C-0A00**	–	1/2	.780	1-1/8	.157
*2200*C-0A00**	–	5/8	.900	1-1/2	.186
*2240*C-0A00**	–	3/4	1.095	1-3/4	.252
*2280*C-0A00**	–	7/8	1.220	2	.272
*2320*C-0A00**	–	1	1.380	2-1/4	.325
*2360*C-0A00**	–	1-1/8	1.510	2-1/2	.352
*2400*C-0A00**	–	1-1/4	1.660	2-3/4	.377
*2480*C-0A00**	–	1-1/2	1.970	3-1/2	.468
*2560*C-0A00**	–	1-3/4	2.220	4	.540
*2640*C-0A00**	–	2	2.470	4-1/2	.586

P****0*-****11 = PFA Conduit with Nomex Overbraid
T****1*-****11 = PTFE Conduit with Nomex Overbraid
F****0*-****10 = FEP Conduit with Dacron Overbraid
E****0*-****10 = ETFE Conduit with Dacron Overbraid

Extra Flexible Convolution, Standard Wall Conduits with Tinned Copper Wire Braid, Phosphor Bronze Wire Braid and Elastomer Outer Sheath.



The use of the combination of tinned copper and phosphor bronze wire gives a highly effective shielded conduit, and the elastomer jacket adds the exterior, sealing medium and anti-abrasion capability required on so many military applications.

EXAMPLES: Combat vehicle test equipment, interconnects for communications shelters, shipboard test equipment, etc. Select elastomer jacket to suit solvent resistance requirements (See page 3.)

PART NUMBER	MIL-T-81914 IDENTIFIER	INT. DIA.	MAX. O/D	MINIMUM BEND RAD.	MAX. WT. (LBS./FT.)
F20601E-0AD00*	–	3/16	.560	5/8	.162
F20901E-0AD00*	–	9/32	.656	7/8	.198
F21001E-0AD00*	–	5/16	.692	1	.219
F21201E-0AD00*	–	3/8	.754	1-1/4	.237
F21401E-0AD00*	–	7/16	.809	1-1/2	.260
F21601E-0AD00*	–	1/2	.893	1-3/4	.290
F22001E-0AD00*	–	5/8	1.010	1-7/8	.354
F22401E-0AD00*	–	3/4	1.172	2	.391
F22801E-0AD00*	–	7/8	1.310	2-1/2	.470
F23201E-0AD00*	–	1	1.469	2-3/4	.546
F23601E-0AD00*	–	1-1/8	1.630	3	.632
F24001E-0AD00*	–	1-1/4	1.778	3-3/4	.718
F24801E-0AD00*	–	1-1/2	2.076	4-1/4	.900
F25601E-0AD00*	–	1-3/4	2.323	4-3/4	1.125
F26401E-0AD00*	–	2	2.575	5-1/2	1.305

*******-*****1 = Hypalon Outer Sheath
*******-*****2 = Neoprene Outer Jacket
*******-*****3 = EPDM Outer Jacket

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Electromagnetic Compatibility (EMC)

Electromagnetic radiation is to electronics what the black plague was to civilization in the Middle Ages.

The electromagnetic compatibility of a system is determined by the system's integrity and functioning compatibility in an environment of electromagnetic radiation. This electromagnetic radiation, known as EMI (electromagnetic interference), is generated by two primary sources: natural and man made. Natuaral EMI stems from thunderstorms, solar emissions, wind storms, lightning discharges, etc.

Man made EMI may be intentional or unintentional. Unintentional EMI arises from the use of electric motors, ignition systems, generators, faulty electrical systems, etc. Intentional EMI is usually offensive, and is generated by radar and radio jamming systems, or nuclear explosions (which create a form of EMI known as EMP: electromagnetic pulse).

To safeguard an electrical system or circuit, a barrier or shield must be placed between it and the source of interference. With wiring harnesses, this shield can take the form of a metallic conduit, usually brass, with suitable fittings attached to the conduit and connector. Such a system effectively shields the enclosed wiring by receiving the interference and directing it harmlessly to ground. While effective, this system will not stand high vibration or constant flexure, as the conduit fatigues and breaks apart. This reduces it shielding ability to almost zero.

Although Sunflex offers this type of metal conduit for relatively static applications (MIL-C-13909), we recommend our convoluted plastic conduits for high vibration, flexure applications. Effective shields are provided by the use of overbraids of a variety of materials to give the maximum shielding for each specific application. These conduits have an extremely high flexure life and will withstand continuous high frequency vibrations with no ill effect.

There are two primary methods for measuring the electromagnetic compatibility (EMC) of a wiring harness.

1. Shielding Efficiency. This measurement is performed by using the wiring as an antenna to emit radiation, and measuring that radiation. Then a shield is applied over the wire, and the radiation (or field strength) is remeasured. The results are expressed on a logarithmic scale, in decibels as:

$$\text{Shielding Efficiency} = 20 \log \frac{\text{Field strength before shielding}}{\text{Field strength after shielding}}$$

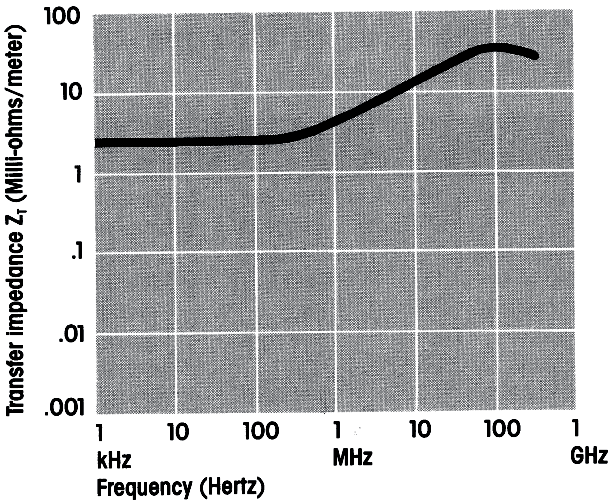
2. Transfer Impedance. (Z_T) This is the ratio of the voltage induced on the inner surface of a shield system, to the current flowing on the exterior surface. The results are expressed as ohms per meter.

$$Z_T = \frac{\text{Voltage interior}}{\text{Current exterior}}$$

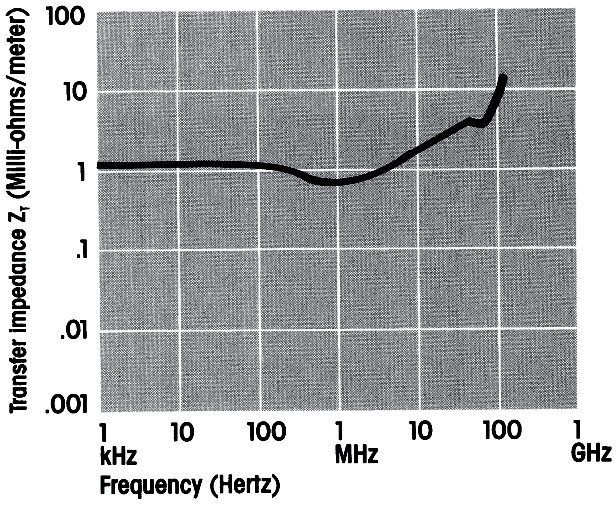
Of the two methods, the transfer impedance method is preferred. It is more positive and not susceptible to other variants (connector quality, screenroom efficiency, etc.). Transfer impedance testing methods are defined in MIL-C-85485.

The graphs below show average transfer impedance for a selection of standard Sunflex braid patterns.

Single layer braid or tinned or nickel, copper wire .0063 Dia.



Double layer braid of tinned or nickel, copper wire .0063 Dia.



SELF-SEATING
PATENT NO. 5,435,760

Sunbank
Joslyn Sunbank Company, LLC

Sunflex conduit part numbering breakdown

The following description of the Sunflex part numbering sequence is intended as a reference guide, so the user can understand the generic part numbering sequence and confirm that the correct selection of conduit has been made.

In situations where only the basic convoluted conduit is required, the last six digits would be replaced by -000000.

Example: **F11600A-000000** is the part number for a ½″ internal diameter standard convoluted conduit, color-natural/clear.

Please consult factory for special applications.

F10600A-0AAA10

MATERIAL
- T = PTFE
- F = FEP
- E = ETFE
- P = PFA

FORM
- 1 = Standard conv./stnd. wall
- 2 = Extraflex conv./stnd. wall
- 3 = Multiflex conv./stnd. wall
- 4 = Standard conv./thin wall
- 5 = Extraflex conv./thin wall
- 6 = Multiflex conv./thin wall

SIZE (Internal diameter in 1/32″s)
- 06 = 3/16 or .187
- 09 = 9/32 or .281
- 10 = 5/16 or .312
- 12 = 3/8 or .375
- 14 = 7/16 or .437
- 16 = 1/2 or .500
- 20 = 5/8 or .625
- 24 = 3/4 or .750
- 28 = 7/8 or .875
- 32 = 1 or 1.000
- 40 = 1-1/4 or 1.250
- 48 = 1-1/2 or 1.500
- 56 = 1-3/4 or 1.750
- 64 = 2 or 2.000

HELIX (Reinforcing)
- 0 = No internal helix
- 4 = SST Helix (ETFE liner only)

COLOR (Basic Conduit only)
- 0 = No pigmentation
- 1 = Black

CONDUIT TYPE (Relationship to Fitting)
- A = For use with 'A' type fittings
- B = For use with 'B' type fittings
- ETC...

METAL FOIL LAMINATE
- 0 = No foil laminate
- 1 = Aluminum foil laminate

METAL BRAIDS (Up to three possible)
- 0 = No metal braid
- A = Tinned copper wire
- B = Nickeled copper wire
- C = Silvered copper wire
- D = Phosphor bronze wire
- E = Stainless steel (full cover)
- F = Stainless steel (50% cover)

OUTER JACKET (Insulation)
- 00 = No outer jacket
- 01 = Hypalon sheath (black)
- 02 = Neoprene sheath (black)
- 03 = EPDM sheath (black)
- 10 = Dacron braid (black)
- 11 = Nomex braid (olive drab)
- 20 = FEP sheath (black)
- 21 = ETFE sheath (black)
- 22 = PFA sheath (black)

MIL-T-81914/X-XXXX

This military specification was created in the early 1970's to deal with the increasing use of convoluted plastic conduit in military and commercial electrical/electronic wiring systems.

The Sunflex convoluted plastic conduits are designed in accordance with this military specification.

This specification covers only a basic conduit, extruded or post formed into a convoluted (helical) configuration for flexibility.

Sunflex offers all these forms plus many other variants which maintain the basic MIL SPEC conduit as liner. These include braided conduits, sheathed, reinforced, etc.

MILITARY CONDUIT PART NUMBER	SUNFLEX PART NUMBER	DESCRIPTION MATERIAL	LETTER ABBR.	WALL THICKNESS	CONVOLUTION TYPE
MIL-T-81914/1 - 10**	T1**01A-000000	Polytetrafluoroethylene	PTFE	Standard	Standard
/2 - 10**	T2**01A-000000	Polytetrafluoroethylene	PTFE	Standard	Extraflexible
/3 - 10**	F1**00A-000000	Fluorinated Ethylene Propylene	FEP	Standard	Standard
/4 - 11**	F2**00A-000000	Fluorinated Ethylene Propylene	FEP	Standard	Extraflexible
/4 - 12**	F5**00A-000000	Fluorinated Ethylene Propylene	FEP	Thin	Extraflexible
/5 - 11**	E2**00A-000000	Ethylene Tetrafluoroethylene	ETFE	Standard	Extraflexible
/5 - 12**	E5**00A-000000	Ethylene Tetrafluoroethylene	ETFE	Thin	Extraflexible
/6 - 10**	E1**00A-000000	Ethylene Tetrafluoroethylene	ETFE	Standard	Standard

Size Designator (Sunflex Size Designator is not the same as MIL Spec Size Designator.)

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www.sunbankcorp.com

Conduit Fittings

Sunflex conduit fittings form an integral part of the total system. A quarter century of engineering leadership in the connector accessory industry is reflected in their design and production. Sunflex fittings are superior quality fittings which feature the following characteristics:

1. All fittings are sealed to the connectors, or to ancillary conduit fittings, to insure that the entire completed harness is fully sealed.
2. The end terminations meet, and in many cases exceed, the military specifications to which they are designed.
3. Coupling nuts are attached to the respective fittings with a completely fail-safe retention system. This overcomes problems experienced by many users with current retention methods.
4. Coupling nut configurations (hexagon) have been incorporated to answer military and commercial requirements for "a configuration which will allow retaining nuts to be torqued and/or tightened, to specific values by the use of conventional tools." Knurled coupling nuts are Sunbank standard.
5. The attachment of the fittings to the conduit is achieved in a way that insures maximum tensile strength of the connection, and maximum electrical integrity between shields and connector interface.
6. Fittings are available in a wide range of materials and finishes to suit virtually all customer requirements.
7. All fittings are designed to offer maximum repair and re-enterability capabilities.

FINISH	DESCRIPTION	
A	QQP416, Type II, Class 3	Cadmium plate with olive drab conversion
B	MIL-C-26074	Electroless Nickel
C	QQP416, Type II, Class 3	Cadmium plate with clear chromate conversion
D	MIL-A-8625	Sulphuric anodize black
E	QQP416, Type II, Class 3, over nickel	Cadmium plate with olive drab conversion over Electroless Nickel

ALTERNATIVE FINISHES: Consult the factory for additional finishes.

Conduit-to-fitting relationship

When selecting conduits and fittings for "in-house" assembly, it is essential that the conduits and fittings be interrelated. Differences in the wall thickness of the conduits, caused by different combinations of braids and sheaths, requires minor variations in the fitting design.

To insure a proper relationship, the seventh letter in each part number must be the same for both conduit and fitting. For example:

Conduit Part Number	Fitting Part Number
F21600B-0D0000	3AC100BA1616AA

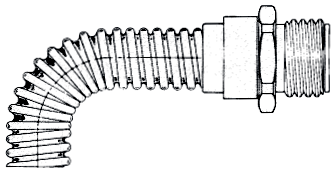
Same Identifier

This applies only to fittings that attach directly to the conduit. It does not apply to ancillary adaptors, transitions, elbows, bulkhead adaptors, etc., to which any size conduit may be attached by selection of the appropriate female adaptor assembly.

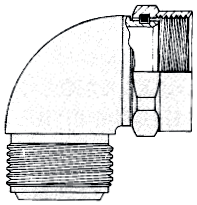
For simplicity, all the fittings on the following pages are identified with 'A' type conduits. When ordering, be sure the correct conduit identifier is shown.

Web link to Sunbank
www.sunbankcorp.com

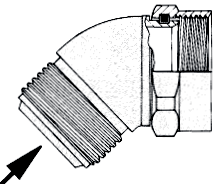
Sunflex Conduit Adaptors and Transitions



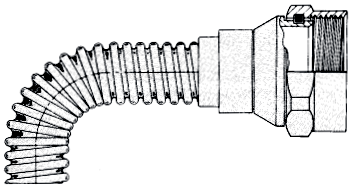
MALE ADAPTOR ASSEMBLY



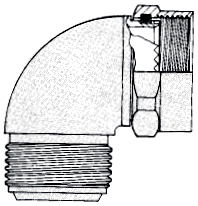
90° FEMALE ADAPTOR



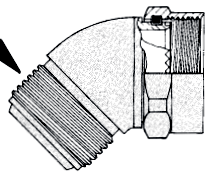
45° FEMALE ADAPTOR



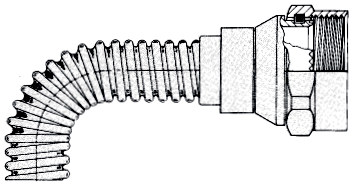
FEMALE ADAPTOR ASSEMBLY



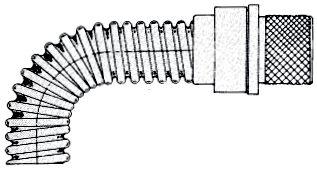
90° CONNECTOR ADAPTOR



45° CONNECTOR ADAPTOR



CONNECTOR ADAPTOR ASSEMBLY



CLAMP ADAPTOR ASSEMBLY

The clamp adaptor is an all purpose fitting that can be used with connectors supplied with clamp straps. It can also be used to terminate the conduit at junction boxes, or panels where similar clamp straps or clips are called for.

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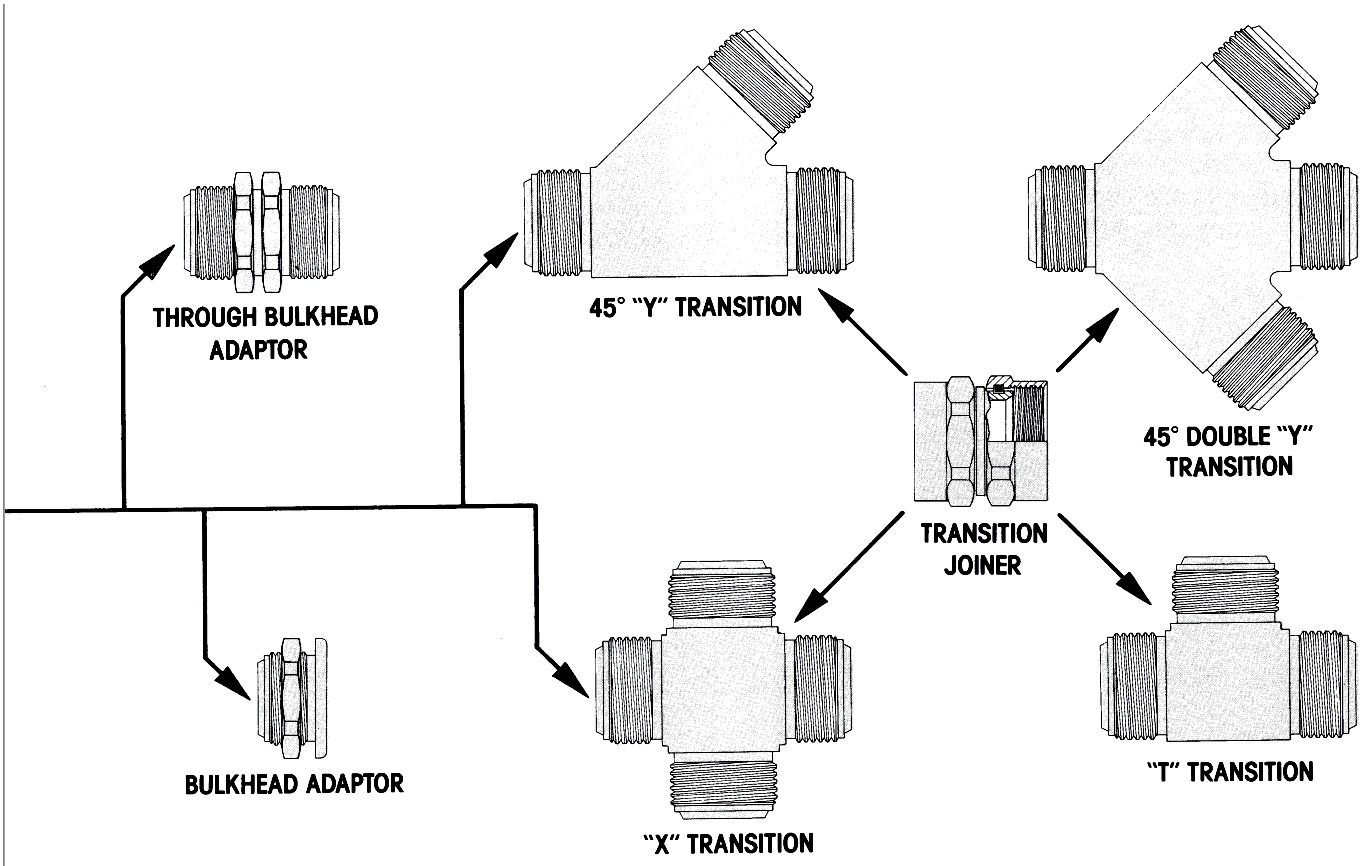
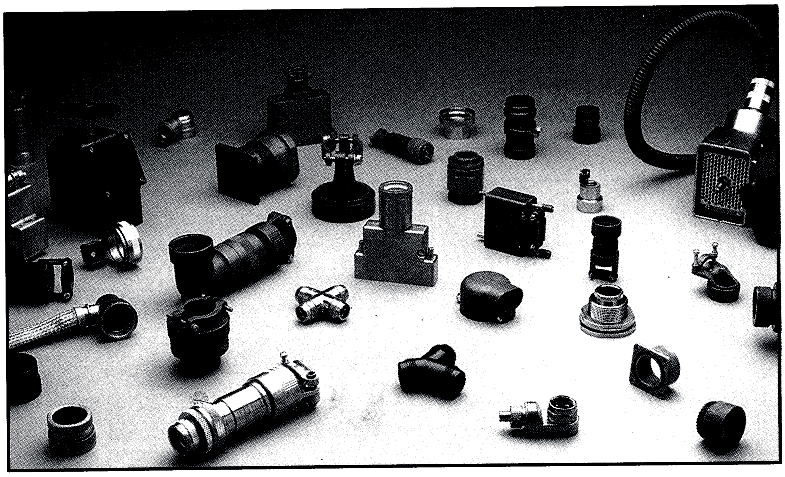


All connector adaptors are designed to specifically referenced military specifications. See pages 18 and 19 for details.



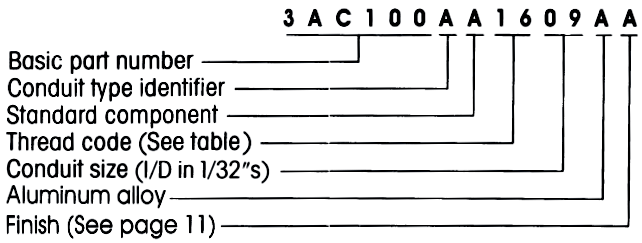
Sunbank manufactures an extensive line of backshells and transitions for an environmentally sealed system that is re-enterable and repairable.
For accessory availability please contact Sunbank direct or see your local stocking distributor.

Web link to Sunbank
www.sunbankcorp.com

Female Adaptor Assembly

The female adaptor is the mother of the Sunflex conduit system. Its primary purpose is to attach the conduits to all the ancillary fittings within the system (such as transitions, bulkhead adaptors, special outlets, all elbows, etc.).

It can also be used to connect the conduit directly to any connector which has a threaded outlet. Example: MS 3110A.



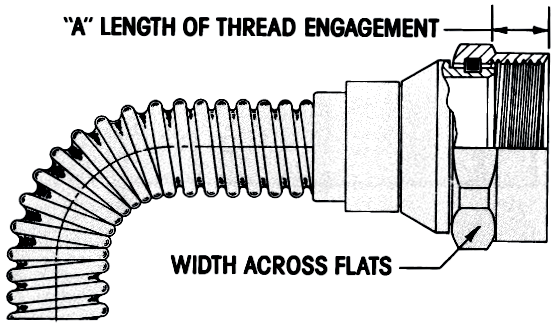


Table of thread sizes

THREAD CODE	THREAD SIZE UNIFIED	WIDTH ACROSS FLATS	DIM. "A"
06	3/8-32	1/2	
07	7/16-28	9/16	
08	1/2-20	5/8	
09	9/16-24	11/16	
10	5/8-24	3/4	
11	11/16-24	13/16	
12	3/4-20	7/8	
13	13/16-20	15/16	
14	7/8-20	1-0	
15	15/16-20	1-1/16	
16	1-0-20	1-1/8	
17	1-1/16-18	1-3/16	.30
18	1-1/8-18	1-1/4	
19	1-3/16-18	1-5/16	
20	1-1/4-18	1-3/8	
21	1-5/16-18	1-7/16	
22	1-3/8-18	1-1/2	
23	1-7/16-18	1-9/16	
24	1-1/2-18	1-5/8	
25	1-9/16-18	1-11/16	
26	1-5/8-18	1-3/4	
27	1-11/16-18	1-13/16	

THREAD CODE	THREAD SIZE UNIFIED	WIDTH ACROSS FLATS	DIM. "A"
28	1-3/4-18	1-15/16	
29	1-13/16-16	2-0	
30	1-7/8-18	2-1/16	
31	1-15/16-18	2-1/8	
32	2-0-18	2-3/16	
33	2-1/16-16	2-1/4	
34	2-1/8-16	2-5/16	
35	2-3/16-16	2-3/8	
36	2-1/4-16	2-7/16	
37	2-5/16-16	2-1/2	.30
38	2-3/8-16	2-9/16	
39	2-7/16-16	2-5/8	
40	2-1/2-16	2-11/16	
41	2-9/16-16	2-3/4	
42	2-5/8-16	2-13/16	
43	2-11/16-16	2-7/8	
44	2-3/4-16	2-15/16	
45	2-13/16-16	3-0	
46	2-7/8-16	3-1/16	
47	2-15/16-16	3-1/8	
48	3-0-16	3-1/4	

Web link to Sunbank
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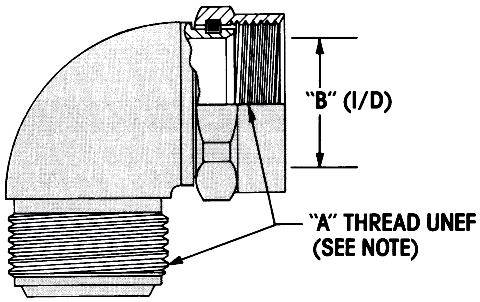
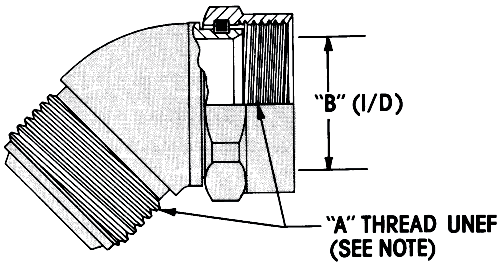
90° Elbow, male to female



PART NUMBER	THREAD "A"	"B"
3AC106XA1010AA	5/8-24	3/8
3AC106XA1212AA	3/4-20	1/2
3AC106XA1616AA	1-20	3/4
3AC106XA2121AA	1-5/16-18	1
3AC106XA2424AA	1-1/2-18	1-1/4

45° Elbow, male to female



PART NUMBER	THREAD "A"	"B"
3AC107XA1010AA	5/8-24	3/8
3AC107XA1212AA	3/4-20	1/2
3AC107XA1616AA	1-20	3/4
3AC107XA2121AA	1-5/16-18	1
3AC107XA2424AA	1-1/2-18	1-1/4

NOTE: Both of these elbows may be obtained with the female thread coupling nut having a larger thread than the male entry. To order, consult table of thread sizes (page 14) and replace the 11th and 12th digits with the appropriate thread code.

EXAMPLE: 3AC107XA1210AA is the part number for a 45° elbow having a male entry thread size of 5/8-24(10) and a female coupling nut having a 3/4-20(12) thread.

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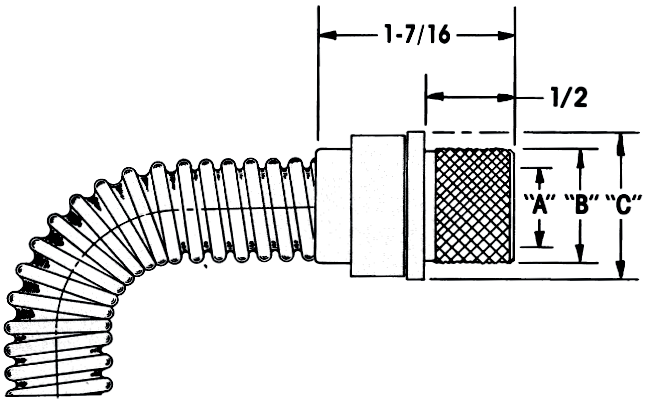
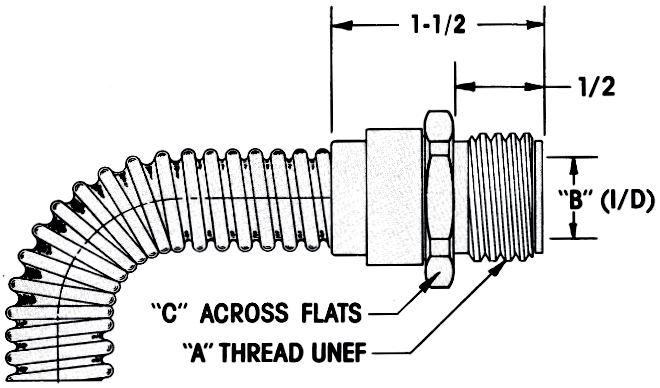
Clamp Adaptor Assembly



PART NUMBER	"A" I.D.	"B"	"C"
3AA040*A1206AA	3/16	3/8	1/2
3AA040*A1509AA	9/32	15/32	9/16
3AA040*A1610AA	5/16	1/2	5/8
3AA040*A1812AA	3/8	9/16	11/16
3AA040*A2014AA	7/16	5/8	3/4
3AA040*A2216AA	1/2	11/16	13/16
3AA040*A2620AA	5/8	13/16	15/16
3AA040*A3024AA	3/4	15/16	1-1/16
3AA040*A3428AA	7/8	1-1/16	1-3/16
3AA040*A3832AA	1	1-3/16	1-3/8
3AA040*A4236AA	1-1/8	1-5/16	1-1/2
3AA040*A4640AA	1-1/4	1-7/16	1-11/16
3AA040*A5448AA	1-1/2	1-11/16	2
3AA040*A6256AA	1-3/4	1-15/16	2-3/16
3AA040*A7064AA	2	2-3/16	2-3/8

Male Adaptor Assembly

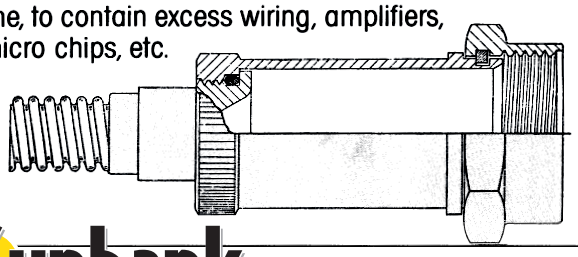


PART NUMBER	THREAD "A"	"B"	"C"
3AA110*A0606AA	3/8-32	3/16	5/8
3AA110*A0709AA	7/16-28	9/32	11/16
3AA110*A0810AA	1/2-20	5/16	3/4
3AA110*A0912AA	9/16-24	3/8	13/16
3AA110*A1014AA	5/8-24	7/16	7/8
3AA110*A1116AA	11/16-24	1/2	15/16
3AA110*A1320AA	13/16-20	5/8	1-1/16
3AA110*A1524AA	15/16-20	3/4	1-1/4
3AA110*A1728AA	1-1/16-18	7/8	1-3/8
3AA110*A1932AA	1-3/16-18	1	1-9/16
3AA110*A2136AA	1-5/16-18	1-1/8	1-11/16
3AA110*A2340AA	1-7/16-18	1-1/4	1-13/16
3AA110*A3048AA	1-7/8-18	1-1/2	2-3/16
3AA110*A3256AA	2-18	1-3/4	2-3/8
3AA110*A3764AA	2-5/16-16	2	2-5/8

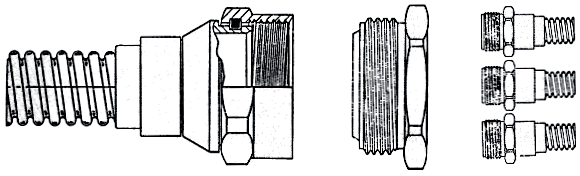
Fittings for special applications

In almost every harnessing application the need arises for at least one fitting or adaptor to be of non-standard special design. Sunflex engineers have a quarter-century of experience in mastering such special applications. We look forward to using our problem-solving expertise in your behalf. Please do not hesitate to call.

RETRACTABLE OUTLET. This concept can be used either at the connector termination, or in the conduit line, to contain excess wiring, amplifiers, micro chips, etc.



MULTI-WAY IN-LINE TRANSITIONS. This concept is ideal in applications where it's necessary to split-off a group of smaller conduits from the main harness, while maintaining a "straight line" configuration. This results in a smaller envelope than the conventional "Y", "T," or "X" transitions and lends itself to simplicity of wiring.



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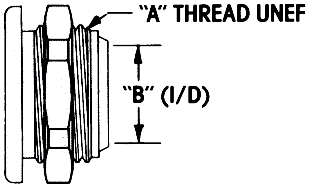
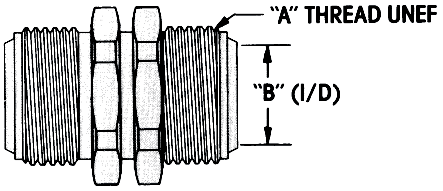
Bulkhead Adaptor



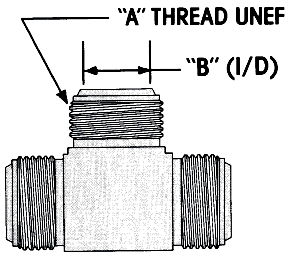
PART NUMBER	THREAD "A"	"B"
3AA041XA1012AA	5/8-24	3/8
3AA041XA1216AA	3/4-20	1/2
3AA041XA1624AA	1-20	3/4
3AA041XA2132AA	1-5/16-18	1
3AA041XA2440AA	1-1/2-18	1-1/4

Through Bulkhead Adaptor

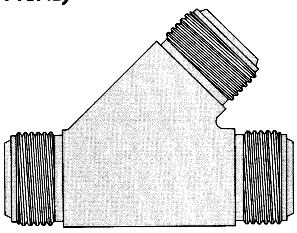


PART NUMBER	THREAD "A"	"B"
3AA042XA1012AA	5/8-24	3/8
3AA042XA1216AA	3/4-20	1/2
3AA042XA1624AA	1-20	3/4
3AA042XA2132AA	1-5/16-18	1
3AA042XA2440AA	1-1/2-18	1-1/4

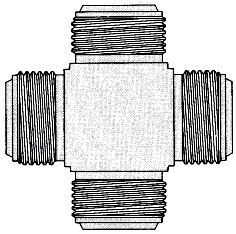
Transitions



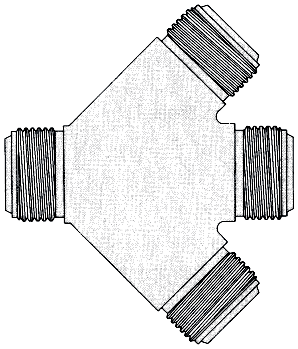
"T" TRANSITION
3AA050XA****AA



45° "Y" TRANSITION
3AA052XA****AA



"X" TRANSITION
3AA054XA****AA

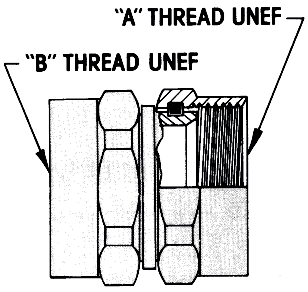


45° DOUBLE "Y" TRANSITION
3AA053XA****AA

PART NUMBER	THREAD "A"	"B"
3AA0**XA0910AA	9/16-24	5/16
3AA0**XA1216AA	3/4-20	1/2
3AA0**XA1724AA	1-1/16-18	3/4
3AA0**XA2132AA	1-5/16-18	1
3AA0**XA2640AA	1-5/8-18	1-1/4

Add correct digits for specific Transition required

Transition Joiners



PART NUMBER	THREAD "A"	"A" ACROSS FLATS	THREAD "B"	"B" ACROSS FLATS
3AC048XA0909AA	9/16-24	11/16	9/16-24	11/16
3AC048XA1209AA	3/4-20	7/8	9/16-24	11/16
3AC048XA1212AA	3/4-20	7/8	3/4-20	7/8
3AC048XA1712AA	1-1/16-18	1-3/16	3/4-20	7/8
3AC048XA1717AA	1-1/16-18	1-3/16	1-1/16-18	1-3/16
3AC048XA2117AA	1-5/16-18	1-7/16	1-1/16-18	1-3/16
3AC048XA2121AA	1-5/16-18	1-7/16	1-5/16-18	1-7/16
3AC048XA2621AA	1-5/8-18	1-3/4	1-5/16-18	1-7/16
3AC048XA2626AA	1-5/8-18	1-3/4	1-5/8-18	1-3/4

SELF-SEATING PATENT NO. 5,435,760

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Connector Adaptors

Almost all connector adaptors vary in the design of their interface with the respective connector.

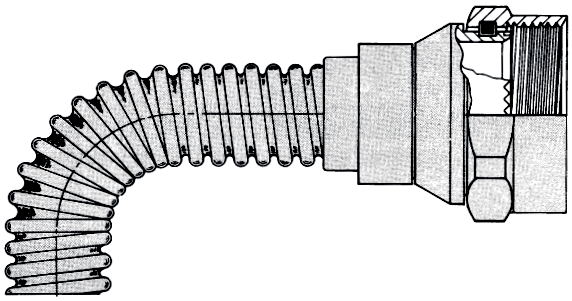
This example illustrates the configuration of one type of adaptor, and shows the part-number breakdown for ordering purposes.

3 A C 3 6 0 A A 1 6 1 2 A A

- Basic part number for a Connector Adaptor to fit:
  - MIL-C-81703
  - MIL-C-83723
  - MIL-C-5015 (CRIMP)
  - MIL-C-26482 (SERIES 2)
  - NAS 1599
- Conduit type identifier (this letter must coincide with the 7th charactor in the conduit part number)
- Standard component
- To fit connector shell size 16
- Conduit size (I/D in 1/32"s)
- Aluminum alloy
- Finish (see page 11)

PART NUMBER	SHELL SIZE		
	MIL-C-81703	MIL-C-5015 CRIMP	MIL-C-26482 SERIES 2 MIL-C-83723 NAS 1599
3AC360AA03**AA	03	—	—
3AC360AA08**AA	—	8S	8
3AC360AA10**AA	—	10S, 10SL	10
3AC360AA12**AA	7	12, 12SL	12
3AC360AA14**AA	12	14, 14S	14
3AC360AA16**AA	19	16, 16S	16
3AC360AA18**AA	27	18	18
3AC360AA20**AA	37	20	20
3AC360AA22*AA	—	22	22
3AC360AA24**AA	—	24	24
3AC360AA28**AA	—	28	—
3AC360AA32**AA	—	32	—
3AC360AA36**AA	—	36	—
3AC360AA40**AA	—	40	—
3AC360AA44**AA	—	44	—
3AC360AA48**AA	—	48	—
3AC360AA61**AA	61	—	—

Conduit to Connector Adaptor Assembly



For list of Connector Adaptors, see table →

NOTE: Consult factory for any other connector types

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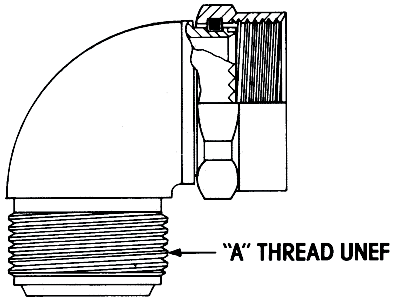
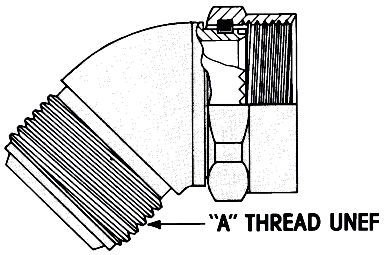
www.sunbankcorp.com

90° Elbow to Connector



PART NUMBER	SHELL SIZE			
	MIL-C-81703	MIL-C-5015 CRIMP	MIL-C-26482 SERIES 2 MIL-C-83723 NAS 1599	THREAD "A"
3AC366XA0808AA	–	8S	8	1/2-20
3AC366XA1010AA	–	10S, 10SL	10	5/8-24
3AC366XA1212AA	7	12, 12S	12	3/4-20
3AC366XA1414AA	12	14, 14S	14	7/8-20
3AC366XA1616AA	19	16, 16S	16	1-20
3AC366XA1817AA	27	18	18	1-1/16-18
3AC366XA2019AA	37	20	20	1-3/16-18
3AC366XA2221AA	–	22	22	1-5/16-18
3AC366XA2423AA	–	24	24	1-7/16-18

45° Elbow to Connector



PART NUMBER	SHELL SIZE			
	MIL-C-81703	MIL-C-5015 CRIMP	MIL-C-26482 SERIES 2 MIL-C-83723 NAS 1599	THREAD "A"
3AC367XA0808AA	–	8S	8	1/2-20
3AC367XA1010AA	–	10S, 10SL	10	5/8-24
3AC367XA1212AA	7	12, 12S	12	3/4-20
3AC367XA1414AA	12	14, 14S	14	7/8-20
3AC367XA1616AA	19	16, 16S	16	1-20
3AC367XA1817AA	27	18	18	1-1/16-18
3AC367XA2019AA	37	20	20	1-3/16-18
3AC367XA2221AA	–	22	22	1-5/16-18
3AC367XA2423AA	–	24	24	1-7/16-18

Connector Adaptor list

STRAIGHT CONNECTOR ADAPTOR PART NUMBER	90° ELBOW ADAPTOR PART NUMBER	45° ELBOW ADAPTER PART NUMBER	CONNECTOR MILITARY SPECIFICATION NUMBER
3AC250AA****AA	3AC256XA****AA	3AC257XA****AA	MIL-C-26500 Class R, F & G
3AC290AA****AA	3AC296XA****AA	3AC297XA****AA	MIL-C-38300
3AC360AA****AA	3AC366XA****AA	3AC367XA****AA	MIL-C-26482 SERIES 2 MIL-C-83723 MIL-C-81703 MIL-C-5015 (CRIMP) NAS 1599
3AC270AA****AA	3AC276XA****AA	3AC277XA****AA	MIL-C-27599
3AC220AA****AA	3AC226XA****AA	3AC227XA****AA	MIL-C-22992
3AC300AA****AA	3AC306XA****AA	3AC307XA****AA	MIL-C-38999 SERIES 1
3AC310AA****AA	3AC316XA****AA	3AC317XA****AA	MIL-C-38999 SERIES 2
3AC320AA****AA	3AC326XA****AA	3AC327XA****AA	MIL-C-38999 SERIES 3 & 4
3AC340AA****AA	3AC346XA****AA	3AC347XA****AA	MIL-C-81511 SERIES 1 & 2
3AC350AA****AA	3AC356XA****AA	3AC357XA****AA	MIL-C-81511 SERIES 3 & 4
3AC240AA****AA	3AC246XA****AA	3AC247XA****AA	MIL-C-26482 SERIES 1
3AC180AA****AA	3AC186XA****AA	3AC187XA****AA	LITTON VEAM (MIL-C-5015 TYPE)
3AC280AA****AA	3AC286XA****AA	3AC287XA****AA	MIL-C-28840

NOTE: Conduit is attached to these elbows by use of a standard female adaptor assembly of the appropriate elbow size.
EXAMPLE: Female adaptor assembly 3AC100AA1612 gives a 3/8" conduit to elbow part number 3AC366XA1616AA.

Web link to Sunbank
www.sunbankcorp.com

SUNBANK MIL-SPEC CONDUIT AND ADAPTERS

MIL-SPEC CONDUIT & CONDUIT ADAPTERS		
Slash Sheet Number		Product Description
M24758/1		Conduit, Flexible, Weatherproof
M24758/2		Straight Conduit Fitting
M24758/3		45 Degree Conduit Fitting
M24758/4		90 Degree Conduit Fitting
M24758/5		Conduit-to-Panel Fitting
M24758/6		Conduit-to-Pipe Fitting
M24758/7		Conduit-to-Stuffing Tube Fitting
M24758/8		Conduit-to-Conduit Fitting
M24758/9		Adapter for Mil-C-5015 Connector
M25758/10		Adapter for Triaxial Connector
M25758/11		Adapter for Coaxial Connector
M25758/12		Adapter for Mil-C-26482 Connector
M24758/13		Adapter for MS3155 Connector
M24758/14		Adpater for Mil-C-28840 Backshells
M24758/15		Adapter for Mil-S-24235 Stuffing Tubes
M24758/16		Adapter for Misc. Threaded Fittings
M24758/17		Adapter for Pipe Thread (Tapered)
M24758/18		Adapter for Pipe Thread (Straight)
M24758/19		Adapter for Panel Termination
M81914/1		PTFE Flexible Convoluted Tubing, Standard
M81914/2		PTFE Flexible Convoluted Tubing, Extraflexible
M81914/3		FEP Flexible Convoluted Tubing, Standard
M81914/4		FEP Flexible Convoluted Tubing, Extraflexible
M81914/5		ETFE Flexible Convoluted Tubing, Extraflexible
M81914/6		ETFE Flexible Convoluted Tubing, Standard

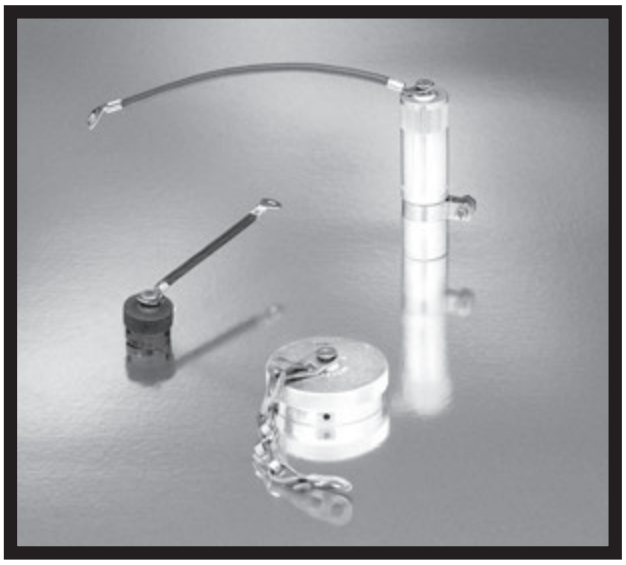
4 TABS TO A BANK: Each tab is 2-1/2" long.

Binder Tabs
Proof version 2
10-20-14
3-Ring Binder

Sunbank

Joslyn Sunbank Company, LLC

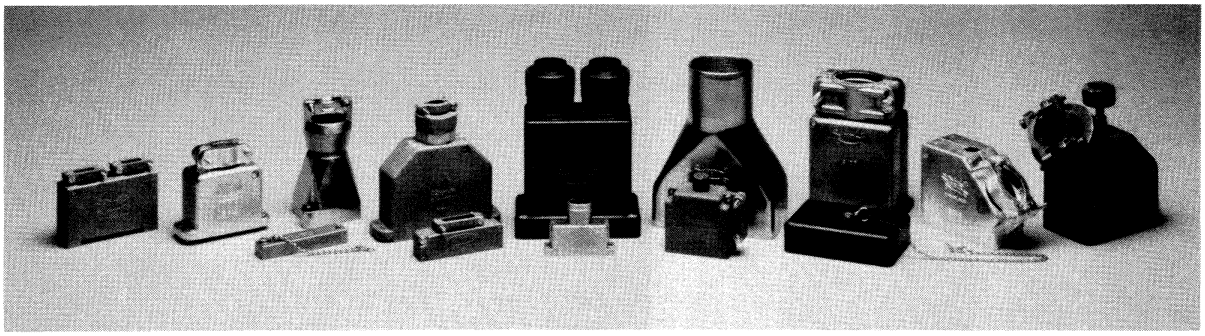
Circular Connector Accessories
SE UNI-Adapter



SELF-SEATING™

PATENT NO. 5,435,760

SUNBANK RECTANGULAR ACCESSORIES



Rectangular connectors are unique. Their rectangular shape and lack of standardized accessory interface usually requires an expensive machining process or a major tooling investment when backshells or accessories are required.

During the past twenty-five years, Sunbank has taken a leadership roll in the rectangular connector accessory industry by providing our customers with an enormous selection of ready-tooled connector accessories.

Through modification, an infinite number of other connector accessory requirements can be met using a ready-tooled die cast part.

If your particular design specifications require the development of a new connector accessory, we'll be happy to provide you with complete in-house engineering, tooling and manufacturing capabilities. Our experienced engineering staff will custom design your connector accessory and the tooling required. With our own die cast and production facility, we can ensure rapid and accurate completion of the accessories meeting your unique requirements.

Joslyn Sunbank Corporation

1740 COMMERCE WAY, PASO ROBLES, CALIFORNIA 93446

AMP CONNECTORS

"M" Series
"D" Series
"DD" Series
"W" Series
"WW" Series
ARINC 404 (MIL-C-81659 Type)
"AA" Series
"AM" Series
"AD" Series
"ADS" Series

AMPHENOL CONNECTORS

"126" Series
"94" Series
"217" Series
"57" Series

BURNDY CONNECTORS

ME33
DPD2-33
MSD104
MS Series
MB152
MIL-C-8384

CANNON CONNECTORS

"D" Sub-Miniature Series
"DP" Series
"MDM" Series
DPKA
DPKB
"DRA" Series
"CM" Series
MIL-C-8384
"DL" Series

CONTINENTAL CONNECTORS

"CSM" Series

DEUTSCH CONNECTORS

RE04

ELCO CONNECTORS

"8016" Series
"8017" Series
"8026" Series

HUGHES CONNECTORS

MRA Series
MRE Series
MRM Series
MRS Series
URS Series
UTE Series
WC Series
WD Series
WSS Series

WINCHESTER CONNECTORS

XMRE Series
XMRA Series
MRAC Series
MRA Series
MRE Series
CAC Series
SRM104 Series
"42" Series
RW78

SELF-SEATING PATENT NO. 5,435,760

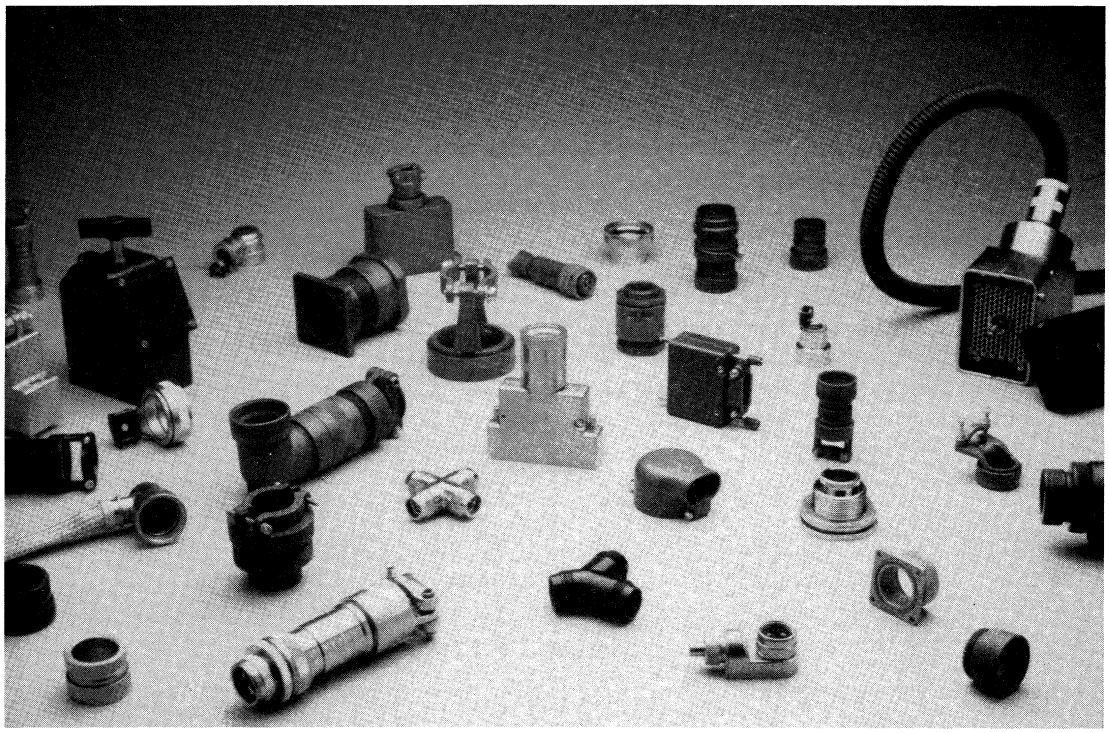
JOSYLN SUNBANK CORPORATION
CONNECTOR ACCESSORIES

Sunbank's leadership role in the connector accessory industry for more than a quarter century has led to the development of several thousand connector accessory drawings.

Sunbank selected a variety of accessories whose flexibility of design allows use with virtually all mil-spec connectors and meets a wide variety of applications. These accessories were tabulated and organized in this SE uni-adapter product guide.

Sunbank continues to design accessories in support of the military-aerospace industry to meet special requirements of specific programs. We continually update the product guide with new accessories evolving from developments in industry.

For those applications whose packaging, environment, specialized connectors or other parameters do not permit use of SE uni-adapters, Sunbank's experienced engineering staff is always ready to assist you in developing an accessory to meet your special requirements.



MILITARY STANDARD ACCESSORIES ON CURRENT QPL

MIL-C-5015	Series 3400 and 3450	
MIL-C-24682	Series 2	
MIL-C-81703	Series 3	
MIL-C-83723	Series 1 and 3	
Any MS3155 Interface		QPL DATE
MS3180	Cover, Protective, Plug (26482, Series 2)	31 May 83
MS3181	Cover, Protective, Receptacle (26482, Series 2)	31 May 83
M83723/15N	Backshell, Straight, W/O Strain Relief	9 Sep 74
M83723/16M	Backshell, Heat Shrinkable, Strain Relief Boot	9 Sep 74
M83723/44	Cap, Receptacle, Bayonet Coupling, Series	9 Sep 74
M83723/46	Cap, Plug, Bayonet Coupling, Series 1	9 Sep 74
M83723/47	Backshell, RFI, Grounding, Bayonet Coupling	9 Sep 74
M83723/59	Cap, Plug, Bayonet and Threaded Coupling, Series 3	1 May 81
M83723/60	Cap, Receptacle, Bayonet and Threaded Coupling, Series 3	1 May 81
MS25042	Cover, Plug (5015 Series 3100)	26 Jan 77
MS25043	Cover, Receptacle (5015 Series 3100)	26 Jan 77
MIL-C-28840	Connectors, Circular, Threaded, High Shock, High Density, Shipboard, Class D.	
28840/1	Clamp, Strain Relief, Straight	26 Jun 80
28840/2	Clamp, Strain Relief, 90°	26 Jun 80
28840/3	Clamp, Strain Relief, 45°	26 Jun 80
28840/5	Backshell, Straight, Metal Conduit for EMI Shielding	26 Jun 80
28840/6	Backshell, Straight, Cable Sealing and Shield Termination	26 Jun 80
28840/8	Backshell, 90°, Split, Cable Sealing and Shield Termination	26 Jun 80
28840/9	Backshell, 45°, Split, Cable Sealing and Shield Termination	26 Jun 80
M28840/13	Cover, Protective, Receptacle	25 Jan 83
M28840/15	Cover, Protective, Plug	5 Jan 83
M28840/22	Bushing for M28840/4 conduit	12 May 82
28840/23	Backshell, Gland Nut	26 Jun 80
28840/25	Backshell, 90°, Split, Metal Conduit for EMI Shielding	26 Jun 80
28840/27	Backshell, 45°, Split, Metal Conduit for EMI Shielding	26 Jun 80
M28840/30	Conduit,Coupling	12 May 82
MIL-C-38999	Series 1 and 2, Connector, Circular Miniature, High Density.	
MS27501	Cover, Protective, Plug (Series 1)	18 May 82
MS27502	Cover, Protective, Receptacle (Series 1)	18 May 82
MS27510	Cap, Protective, Plug (Series 2)	18 May 82
MS27511	Cap, Protective, Receptacle (Series 2)	18 May 82
MIL-C-83723	Series 2 Connector, Circular, Environment Resisting	
M83723/27M	Backshell, Heat Shrinkable, Strain Relief Boot	9 Sep 77

QPL PART NO.	DESCRIPTION	SUPERSEDES/ CONNECTOR SERIES	QPL DATE
MIL-C-85049	Connector Accessories, General Specification		
M85049/6	Backshell, 45°, Cable Sealing, Shield Termination	MS3189A	29 Sep 82
M85049/7	Backshell, 45°, Cable Sealing	MS3189B	29 Sep 82
M85049/8	Backshell, 90°, Cable Sealing, Shield Termination	MS3188A	29 Sep 82
M85049/9	Backshell, 90°, Cable Sealing	MS3188B	29 Sep 82
M85049/10	Backshell, Straight, Cable Sealing, Shield Termination	MS3437A	29 Sep 82
M85049/11	Backshell, Straight, Cable Sealing, Shield Termination	MS3437B	29 Sep 82
M85049/17	Backshell, Straight, Cable Sealing, Shield Termination	MS38999/5	29 Sep 82
M85049/18	Backshell, Straight, Cable Sealing, Shield Termination	MIL-C-38999 Ser. III & IV	27 Jan 84
M85049/19	Backshell, Straight, Cable Sealing, Shield Termination	MIL-C-38999 Ser. III & IV	27 Jan 84
M85049/20	Backshell, Straight, Shield Terminator	MIL-C-38999 Ser. III & IV	27 Jan 84
M85049/21	Backshell, Straight, Strain Relief, Shield Termination	MIL-C-38999 Ser. III & IV	29 Sep 82
M85049/23	Backshell, 45°, Shield Termination	MS3189C	29 Sep 82
M85049/24	Backshell, 90°, Shield Termination	MS3188C	29 Sep 82
M85049/25	Backshell, Straight, Shield Termination	MS3437C	29 Sep 82
M85049/26-1	Backshell, Straight, Shield Termination	MS3419	3 Oct 83
M85049/27	Backshell, Straight, Connector Wiring Seal Nut	M38999/1	29 Sep 82
M85049/29	Backshell, Straight, Strain Relief	M38999/6	29 Sep 82
M85049/31	Backshell, Straight, Connector Wiring Seal Nut	MS3416E	29 Sep 82
M85049/33-2	Backshell, Straight, Shield Terminator	M38999/3	20 May83
M85049/35	Adapter, Straight, Threaded	MS27342**1	29 Sep 82
M85049/36	Backshell, Straight, Shield Termination	M38999/7	29 Sep 82
M85049/37	Backshell, 90°, Shield Termination	M38999/8	29 Sep 82
M85049/38	Strain Relief, Straight	MIL-C-38999 Ser. III & IV	27 Jan 84
M85049/39	Strain Relief, 90°, Open	MIL-C-38999 Ser. III & IV	29 Sep 82
M85049/43	Strain Relief, 45°, Open	MS3415	29 Sep 82
M85049/47	Strain Relief, 90°, Open	MS27507	29 Sep 82
M85049/49-2	Strain Relief, Straight, Open	MS27506	29 Sep 82
M85049/51-1	Strain Relief, 90°, Open	MS3418	29 Sep 82
M85049/52-1	Strain Relief, Straight, Open	MS3417	29 Sep 82
M85049/53	Strain Relief, Straight, Open, Tiemount	MS3152	29 Sep 82
M85049/54	Strain Relief, 45°, Open Tiemount	MS3153	29 Sep 82
M85049/55	Strain Relief, 90°, Open, Tiemount	MS3154	29 Sep 82
M85049/60-1	Shrink Boot Adapter, Straight	MS3158	29 Sep 82
M85049/60-2	Shrink Boot Adapter, Straight	MS3416G	29 Sep 82
M85049/62	Shrink Boot Adapter, Straight	M38999/2	29 Sep 82
M85049/69	Shrink Boot Adapter, Straight	MIL-C-38999 Ser. III & IV	27 Jan 84
M85049/**			

** CONSULT FACTORY FOR ANY NEW QUALIFICATION

SECTION 1

Straight Accessories

APPLICATION DATA

Drawing Number	Strain Relief	RFI/EMI Shield Type			Seal		Service		Other
		Overall	Indiv.	Armor	Moisture	Water tight	GSE/Ship	Air	
SB		X	X	X	X		X	X	Low Profile
SE1	X					X	X		
SE2	X	X	X	X		X	X		Isolated Indiv. Shield
SE3		X					X		Mold Plane
SE4	X	X	X				X	X	
SE5							X		Socket Saver
SE6	X	X	X				X	X	
SE7	X	X				X		X	
SE8	X	X	X			X		X	Isolated Indiv. Shield
SE9	X	X	X				X	X	Common Indiv. Overall Shield
SE10	X	X	X			X	X		
SE11					X		X	X	Mold Boot
SE12		X						X	
SE14	X							X	
SE16	X	X				X	X		
SE17	X								Lightweight
SE18	X	X				X	X		EMP
SE19						X	X	X	Shorting Can
SE20		X	X				X	X	Annular Tube
SE22	X	X	X			X	X		Cable Grip
SE23		X					X	X	
SE25	X							X	
SE26						X	X	X	Flex Conduit or Pipe
SE27	X	X				X		X	
SE28		X	X		X			X	Mold Boot
SE29	X	X	X			X		X	
SE30	X	X				X	X		

PRODUCT INDEX
SECTION 1 — STRAIGHT ACCESSORIES

DRAWING NUMBER		ASSEMBLY PROCEDURE REFERENCE
SB	RFI/EMI/EMP low profile adapter, environmental/non-environmental, with sunband shield termination system.	N/A
SE1	Standard Adapter with Strain Relief and Environmental Option.	N/A
SE2	Armor Cable Adapter, Strain Relief, Environmental with RFI/EMI Options. (Armor braid, overall or individual shield terminating).	AP2
SE3	RFI/EMI Adapter, Non Repairable Crimp Termination, with Mold Plane. (Overall or individual shield terminating).	AP3
SE4	RFI/EMI Adapter, Split Shell, Single Ring Termination, with Strain Relief Option. (Overall or individual shield terminating).	AP6
SE5	Socket Saver Adapter, Split Shell with RFI/EMI Closure. (Back to back connector union).	N/A
SE6	RFI/EMI Adapter, Single Ring Termination, Minimum Extension Length, Non-Environmental with Strain Relief Options. (Overall or individual shield terminating).	AP6
SE7	RFI/EMI Adapter, Light Weight, External Cone/Ring Termination with Environmental and Strain Relief Options. (Overall and/or individual shield terminating).	AP7
SE8	RFI/EMI Adapter, Light Weight, External Cone/Ring Termination and Isolated SE95 Terminator, with Strain Relief and Environment Options. (Overall and individual shield terminating).	AP7/AP9
SE9	RFI/EMI Adapter, Two or Three Ring Termination, Minimum Extension Length, Non-Environmental with Strain Relief Option (Overall and/or individual shield terminating).	AP9
SE10	RFI/EMI Adapter, Internal Cone/Ring Termination, with Environmental and Strain Relief Options. (Overall and/or individual shield terminating.)	AP10
SE11	Molding or Potting Adapter, Variable Length, with MS3109, MS3117 Shrink Boot Accommodation.	N/A
SE12	RFI/EMI Adapter, Non-Repairable Crimp Termination with Potting Port Option. (Overall shield terminating).	AP3
SE14	Straight 'Lace Tite' Strain Relief.	N/A
SE16	Standard Adapter, with RFI/EMI Recessed, Dual Ring Termination, Environmental and Strain Relief Options. (Overall shield termination).	AP16
SE17	RFI Light Weight Environmental for Individual or overall shield Termination. (Strain Relief Option).	N/A
SE18	EMP, RFI/EMI Adapter, Repairable External Cone/Ring Termination, Strain Relief with Environmental Option. (Overall shield termination with maximum coverage).	AP7
SE19	Shorting Can Adapter, Closed Entry, with Special Marking Option	N/A
SE20	Flexible Conduit Adapter, Plastic Annular Tubing with RFI/EMI Option. (Overall shield termination with maximum coverage).	AP9
SE22	Two Piece, RFI, Environmental with Cable Grip, Strain Relief.	AP10
SE23	RFI, for Helical Convoluted Tubing.	*
SE25	Straight, Strain Relief.	N/A
SE26	Adapter for Flex Conduit or Pipe	
SE27	RFI/EMI Adapter, Light Weight, Spring Termination, Environmental and Strain Relief Options. (Overall shield termination).	AP27
SE28	Shrink Boat or Molding Adapter, RFI/EMI, Light Bulb Thread Termination. (Overall shield with individual shield termination option).	AP28
SE29	RFI/EM[Adapter, Light Weight, Spring Termination, Environmental and Strain Relief Options. (Overall or individual shield termination).	AP27 & 28
SE30	RFI/EMI and/or Environmental Adapter, with Strain Relief Option, Dual Ring Recessed Termination (Overall shield termination).	AP16

CONNECTOR SHELL SIZE REFERENCE

ORDER NUMBER	A THREAD UNIFIED CLASS 2*	B MAX. DIA.	CODE A	CODE B	CODE 5015, 26482 83723 NAS 1599	C 81703	CODE D	CODE E	CODE F SERIES 1	CODE F SERIES 2	CODE FM	CODE G COM	CODE G MIL	CODE H	CODE J	CODE K	CODE KA	CODE KB	CODE KC	CODE KD	CODE L	CODE M	CODE N	CODE P	CODE R	CODE T	CODE U	CODE W	CODE X	ORDER NUMBER
01	.375 - 32	.531	8S																8							8S				01
02	.438 - 27	.594	8S	8S																											02
03	.438 - 28	.594	8S				8	8	9	8														8S					8	03
04	.500 - 20	.656			8										9															04
05	.500 - 28	.656	10S	10S								8	A			3	3	3	10		8			10S	8S, 10S	10S				05
06	.562 - 24	.719	10S, 10SL			3	10	10	11	10														10SL				10	10	06
07	.625 - 24	.781	10SL,12,12S	10SL	10											7	7	7			10	8		12, 12S	10SL,12,12S	10SL,12,12S				07
08	.625 - 28	.688										10	B																	08
09	.688 - 24	.844	12, 12S	12, 12S				12	13	12					12													12	12	09
10	.750 - 20	.906	14, 14S	14, 14S	12	7	12							12		12	12	12	14		12	10		14, 14S	14, 14S	14, 14S	11 (A)			10
11	.750 - 28	.812																												11
12	.812 - 20	.969					14	14	15	14					15													14	14	12
13	.875 - 20	1.031	16, 16S	16, 16S	14	12								14		19	19	19	16		14	12		16, 16S	16, 16S	16, 16S	13 (B)			13
14	.875 - 28	.938										14	D																	14
15	.938 - 20	1.094					16	16	17	16																		16	16	15
16	1.000 - 20	1.156	18	18	16	19								16		27	27	27	18	18	16	14		18	18	18	15 (C)			16
17	1.000 - 28	1.062										16	E		18															17
18	1.062 - 18	1.219			18	27	18	18	19	18																		18	18	18
19	1.125 - 18	1.281	20											18						20	18	16		20		20	17 (D)			19
20	1.125 - 24	1.281	20	20																										20
21	1.125 - 28	1.188										18	F																	21
22	1.188 - 18	1.344			20	37	20	20	21	20						37		37							20, 22			20	20	22
23	1.250 - 18	1.406	22	22										20						22	20	18		22		22	19 (E)			23
24	1.250 - 28	1.312										20	G																	24
25	1.312 - 18	1.469			22		22	22	23	22																		22	22	25
26	1.375 - 18	1.531	24	24										22						24	22	20		24		24				26
27	1.375 - 28	1.438										22	H																	27
28	1.438 - 18	1.594			24		24	24	25	24															24, 28		23 (F)	24	24	28
29	1.500 - 28	1.562										24	J																	29
30	1.625 - 18	1.781	28	28										24								24		28		28				30
31	1.750 - 18	1.969			28																				32					31
32	1.875 - 16	2.031	32											28										32		32	29 (H)			32
33	1.906 - 18	2.062	32	32																										33
34	2.000 - 18	2.219			32																				36					34
35	2.062 - 16	2.219	36											32													33 (J)			35
36	2.125 - 18	2.281	36																											36
37	2.125 - 16	2.281	36																					36		36				37
38	2.062 - 20	2.219		36																										38
39	2.250 - 16	2.469			36																				40					39
40	2.312 - 16	2.469	40											36																40
41	2.375 - 16	2.531	40																					40		40				41
42	2.500 - 16	2.719			40																				44					42
43	2.625 - 16	2.781	44											40																43
44	2.750 - 16	2.969			44																									44
45	2.812 - 18	2.969	48																											45
46	3.000 - 16	3.219			48																				48					46
47	3.125 - 16	3.312												48																47
48	2.875 - 16	3.031	48											44																48
49	1.500 - 18	1.688				61										61		61			24	22								49
50	1.562 - 18	1.719																									25 (G)			50
51	.530 - 24	N / A																		10										51
52	.563 - 36	.718																					10							52
53	.650 - 24	N / A																		12										53
54	.733 - 36	.889																					12							54
55	.781 - 24	N / A																		14										55
56	.803 - 36	.968																					14							56
57	.906 - 24	N / A																		16										57
58	.930 - 36	1.094																					16							58
59	1.036 - 36	1.188																					18							59
60	1.161 - 36	1.312																					20							60
61	1.286 - 36	1.438																					22							61
62	1.411 - 36	1.562																					24							62
63	1.661 - 36	1.812																					28							63
64	M12 X 1.0-6H	.656									9/A																			64
65	M15 X 1.0-6H	.781									11/B																			65
67	M18 X 1.0-6H	.897									13/C																			67
69	M22 X 1.0-6H	1.054									15/D																			69
70	M25 X 1.0-6H	1.172									17/E																			70
71	M28 X 1.0-6H	1.290									19/F																			71
72	M31 X 1.0-6H	1.406									21/G																			72
74	M34 X 1.0-6H	1.531									23/H																			74
77	M37 X 1.0-6H	1.645									25/J																			77

SERIES CODE	CONNECTOR SERIES DESCRIPTION SEE CROSS REFERENCE CHART, SECTION 5. FOR ADDITIONAL INFORMATION CONSULT FACTORY FOR CONNECTORS NOT LISTED
**A	MIL-C-5015 'D', MS 3100, MS 3101, MS 3106, CLASS A , E & R RESILIENT INSERT, SOLDER TYPE & BENDIX 10-214. CANNON CA-RX COMMERCIAL CRIMP TYPE
B	AMPHENOL '69' SERIES, 246-3100, 01, 06 CRIMP TYPE
C	MIL-C-5015 'G', MIL-C-26482 SERIES 2, MS 3400, MS 3401, MS 3404, MS 3406, MS 3450, MS 3451, MS 3454, MS 3456, MS 3470, MS 3471, MS 3472, MS 3474, MS 3475, MS 3476, CLASS D, E, K, L, U & W, MIL-C-83723 SERIES 1 & 3, MIL-C-81703 & NAS 1599
D	MIL-C-26500, MIL-C-38300 ALUMINUM SHELL, MS 24264, MS 24265, MS 24266, CLASS F, G & R
E	MIL-C- 26482 SERIES 1, MS 3110, MS 3116, MS 3120, MS3126, CLASS E, F & P
F	MIL-C-38999 SERIES 1 & 2, MS 27466, MS 27468, MS 27472, MS 27473, MS 27474, MS 27479, MS 27480, MS 27481, MS 27484, MS 27656, CLASS E & T
FM	MIL-C-38999, SERIES 3 & 4, DOD-C-38999 / 20, 24, 26, 40, 44, 46 & 47 CLASS C, F, K & W ('A' THREAD IS METRIC) (/44 N/A ON SPIN COUPLING)
G	MIL-C-81511 SERIES 1, 2, 3 & 4, AMPHENOL OR CINCH 348 & DEUTSCH *815, CLASS F & W
H	MIL-C-22992, MS 17343, MS 17344, MS 17345, MS 17346, MS17347, MS 17348, CLASS J & R ('A' THREAD IS LEFT HAND)
J	MICRODOT, MARC 43, 53 & 63 SEREIS
K	DEUTSCH DM(14000) MS 3132, MS 3134, MS 3137 & MS 3138
KA	DEUTSCH DSM(120, 32000), RSM(UR20, 23000), RMK & SMK
KB	DEUTSCH DA(19000, DS(17000), DD(12000), MS 3140, MS 3144, MS 3147, MS 3148, MDR(13000), MDS(750, 17000)
KC	DEUTSCH RTK(UR40, 74000), STK(340, 4200)
KD	DEUTSCH DTK
L	BENDIX JT00RE, MS 0027497 CLASS V
M	BENDIX PC-PT 07, MS 3124, MS 3114
N	MIL-C-26500 STAINLESS STEEL, MIL-C-38300, MS 24264, MS 24265, MS 24266, MS 27613, MS 27614, MS 27615, CLASS E
P	MIL-C-83723 SERIES 2, M83723 / 17, 18, 19, 20, 23 & 24
R	MIL-C-5015, MS 3107, MS 3108, MIL-C-26482, MS 'V' THREAD GENERAL DUTY 'A' ENDBELL
T	MIL-C-5015 REV. 'E'
U	MIL-C-28840, M28840 / 10, 11, 14 & 16 CLASS A, B, C & E
W	BURNDY 'G' SERIES, TRIM TRIO, G0, G1, G6, G8 & G9
X	BENDIX SJT00RT, SJT06RT, SJTG06RT

**NOTE, ON SERIES CODE 'A' SOME SHELL SIZE TO ORDER NUMBERS ARE DUPLICATED. USE THE FOLLOWING ORDER NUMBER TO SHELL SIZE WHEN CONNECTOR MANUFACTURER IS KNOWN; AMPHENOL; 02 FOR 8S, 07-10SL, 09-12 & 12S, 19-20 CLASS A, 20-20 CLASS E & R, 33-32, 36-36 (38-36 CODE 'B') & 48-48. BENDIX; 01 FOR 8S, 07-10SL, 12 & 12S, 19-20, 32-32, 35-36 & 40-40. CANNON; 03 FOR 8S, 06-10SL, 07-12 & 12S, 19-20, 32-32, 37-36, 41-40 & 45-48.

USE SERIES CODE 'AB' WHEN MANUFACTURER IS UNKNOWN. ADDITIONAL ADAPTERS WILL BE SUPPLIED. DESIGNATE ORDER NUMBER; 03 FOR SHELL SIZE 8S, 05-10S, 07-10SL, 09-12 & 12S, 19-2O, 32-32, 37-36 & 40-40 (IE; SE**AB07 . . . . PART TO FIT ANY MANUFACTURER OF SHELL SIZE 10SL FOR CODE 'A')

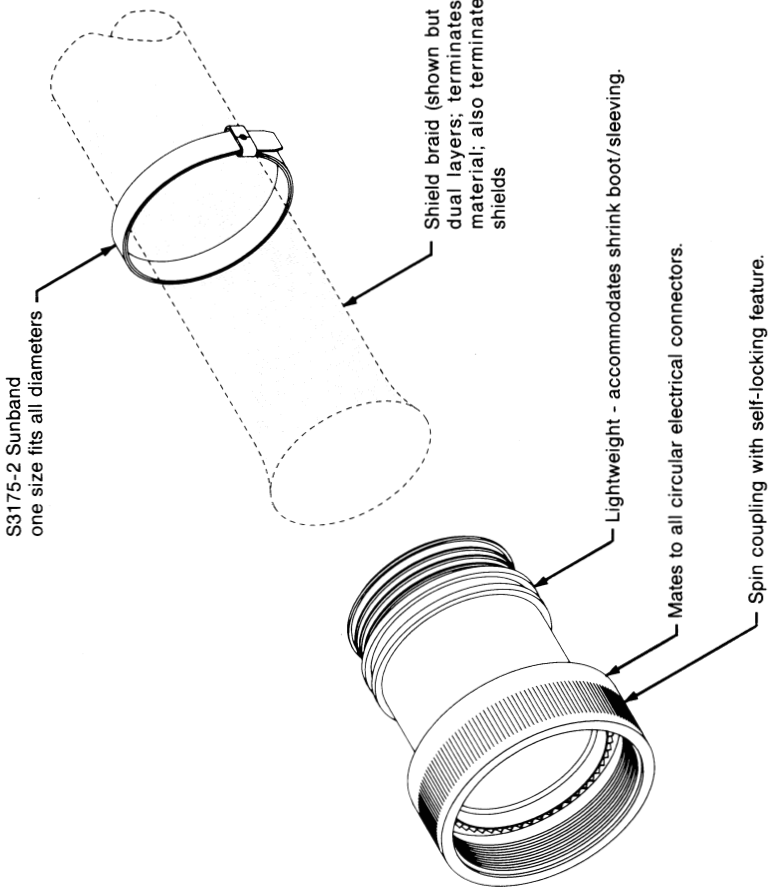
* THREAD CLASS 2B (INTERNAL), CODES A, B, C, D, E, F, FM, G, H, N, P, R, T, W, X & U

THREAD CLASS 2A (EXTERNAL), CODES J, K, KA, KB, KC, KD, L & M (B MAX. DIA. IS NOT APPLICABLE)
CAUTION: CLASS 2A TYPE ADAPTERS REQUIRE ADDITIONAL SUPPORT WHEN ENVELOPE EXCEEDS 2 INCHES IN LENGTH OR DIAMETER.
O'RINGS SUPPLIED WITH ENVIRONMENTAL ASSEMBLIES ONLY.

ECO 10-01-15452 REVISED: JANUARY 1994

SB03B6E6704W2

Special features of STS products are:
- Field repairability (re-enterable)
- Performance far exceeds MIL-C-85049
- Low installation labor cost



Typical part number: SB03B6E6704W2
See Sunbank **STS SUNBAND SHIELD TERMINATION SYSTEM** catalog for more information

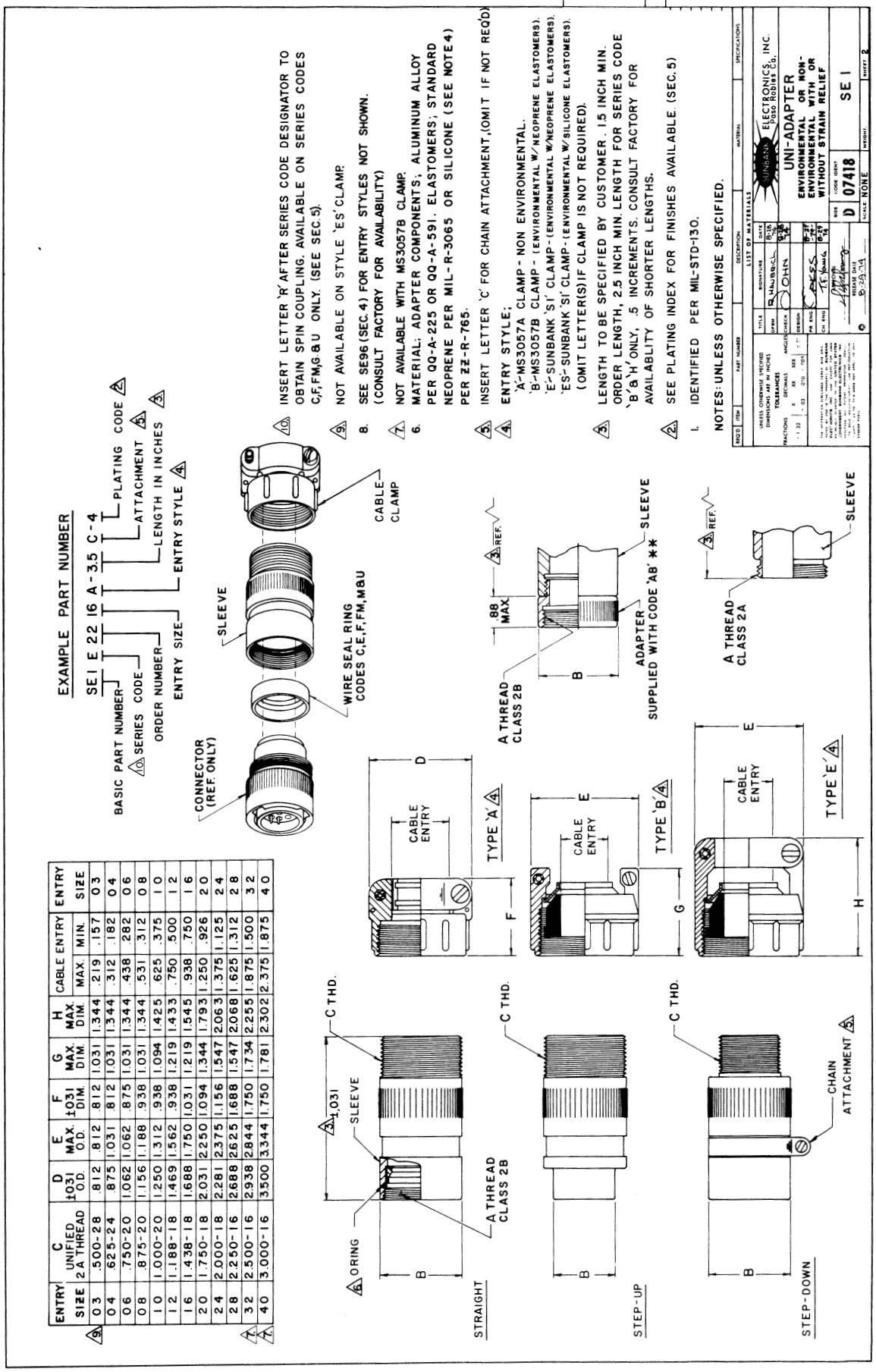
SUNBANK ELECTRONICS, INC. Paso Robles, California

SUNBAND TERMINATION ACCESSORY IN A STRAIGHT CONFIGURATION

SIZE	CODE IDENT.	SB
C	07418	

SCALE: N.T.S. WEIGHT: SHEET: 1 of 1

SE1



ENTRY SIZE	C UNIFIED 2A THREAD	D ±.031 O.D.	E MAX. O.D.	F ±.031 DIM.	G MAX. DIM.	H MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.	ENTRY SIZE
03	.500-28	.812	.812	.812	1.031	1.344	.219	.157	03
04	.625-24	.875	1.031	.812	1.031	1.344	.312	.182	04
06	.750-20	1.062	1.062	.875	1.031	1.344	.438	.282	06
08	.875-20	1.156	1.188	.938	1.031	1.344	.531	.312	08
10	1.000-20	1.250	1.312	.938	1.094	1.425	.625	.375	10
12	1.188-18	1.469	1.562	.938	1.219	1.433	.750	.500	12
16	1.438-18	1.688	1.750	1.031	1.219	1.545	.938	.750	16
20	1.750-18	2.031	2.250	1.094	1.344	1.793	1.250	.926	20
24	2.000-18	2.281	2.375	1.156	1.547	2.063	1.375	1.125	24
28	2.250-16	2.688	2.625	1.688	1.547	2.068	1.625	1.312	28
32	2.500-16	2.938	2.844	1.750	1.734	2.255	1.875	1.500	32
40	3.000-16	3.500	3.344	1.750	1.781	2.302	2.375	1.875	40

SE2

ENTRY SIZE	W ±.031 DIA.	X REF. DIM.	Y MAX. DIA.	Z REF. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
06	.875	1.688	1.062	1.000	.438	.282
08	1.000	1.688	1.188	1.000	.531	.312
10	1.125	1.750	1.312	1.000	.625	.375
12	1.312	1.875	1.562	1.125	.750	.500
16	1.562	2.000	1.750	1.125	.938	.700
20	1.875	2.125	2.250	1.375	1.250	.926
24	2.125	2.375	2.375	1.375	1.375	1.125
28	2.375	2.375	2.625	1.625	1.625	1.375
32	2.625	2.562	2.844	1.625	1.875	1.500
40	3.125	2.688	3.344	1.625	2.375	1.875

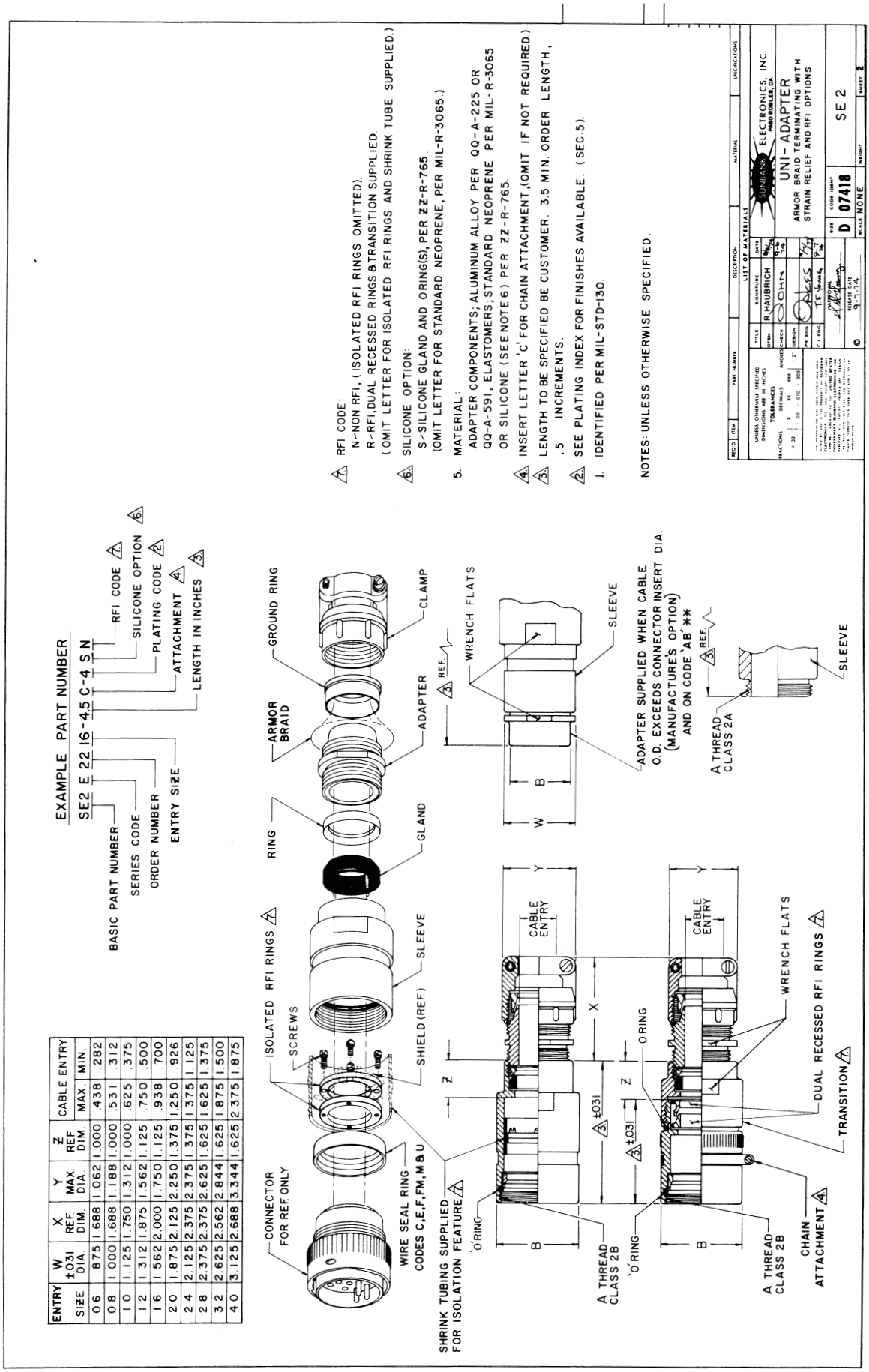
EXAMPLE PART NUMBER

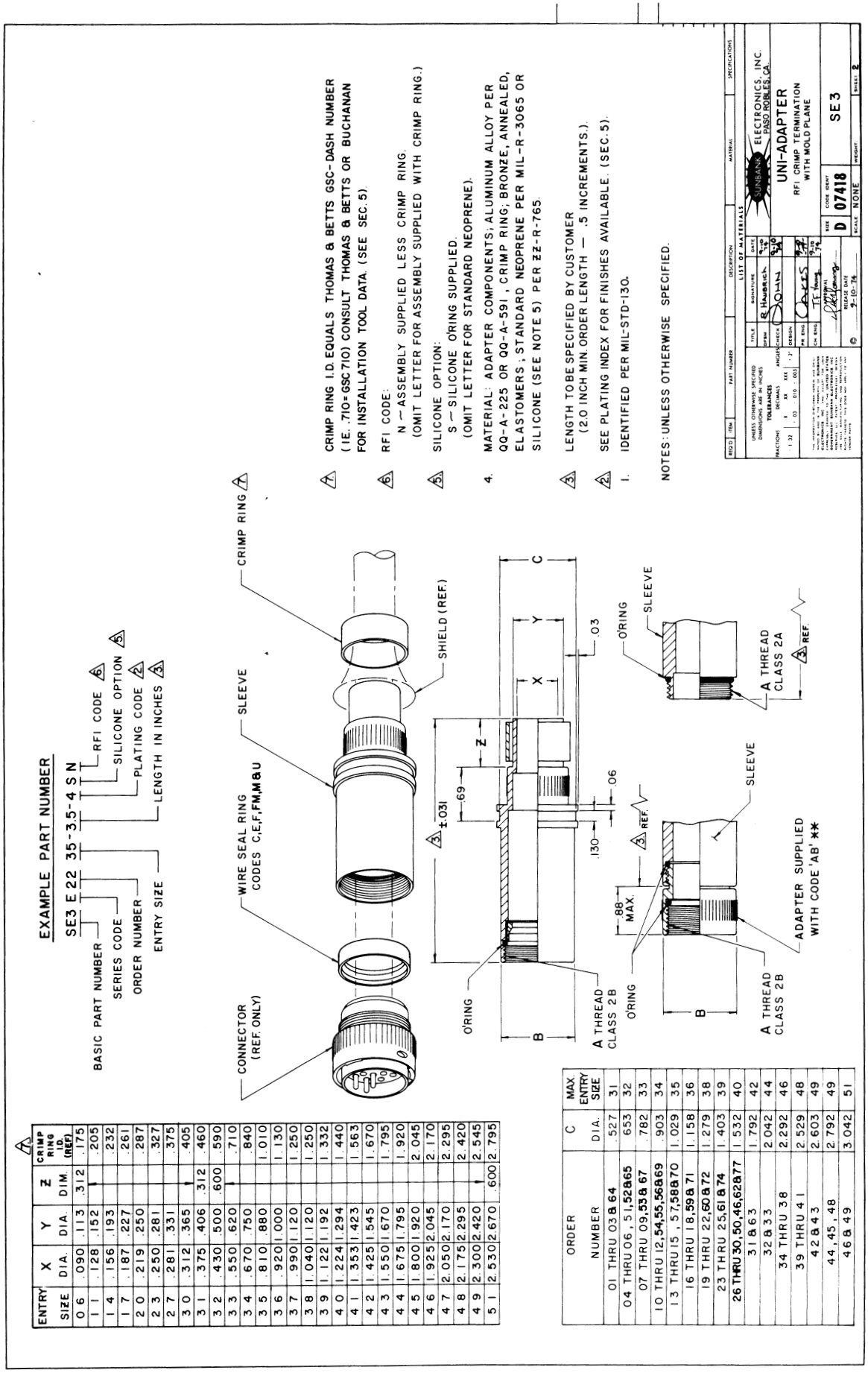
SE2 E 22 16-4.5 C-4 S N

- SE2 — BASIC PART NUMBER
- E — SERIES CODE
- 22 — ORDER NUMBER
- 16-4.5 — ENTRY SIZE
- C — ATTACHMENT 4
- 4 — PLATING CODE 4
- S — SILICONE OPTION 6
- N — RFI CODE 1

1. RFI CODE:
   N-NON RFI, (ISOLATED RFI RINGS OMITTED).
   R-RFI, DUAL RECESSED RINGS & TRANSITION SUPPLIED.
   (OMIT LETTER FOR ISOLATED RFI RINGS AND SHRINK TUBE SUPPLIED.)
6. SILICONE OPTION:
   S-SILICONE GLAND AND ORING(S), PER ZZ-R-765.
   (OMIT LETTER FOR STANDARD NEOPRENE, PER MIL-R-3065.)
5. MATERIAL:
   ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 6) PER ZZ-R-765.
4. INSERT LETTER 'C' FOR CHAIN ATTACHMENT, (OMIT IF NOT REQUIRED)
3. LENGTH TO BE SPECIFIED BE CUSTOMER. 3.5 MIN. ORDER LENGTH, .5 INCREMENTS.
2. SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC.5).
1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.

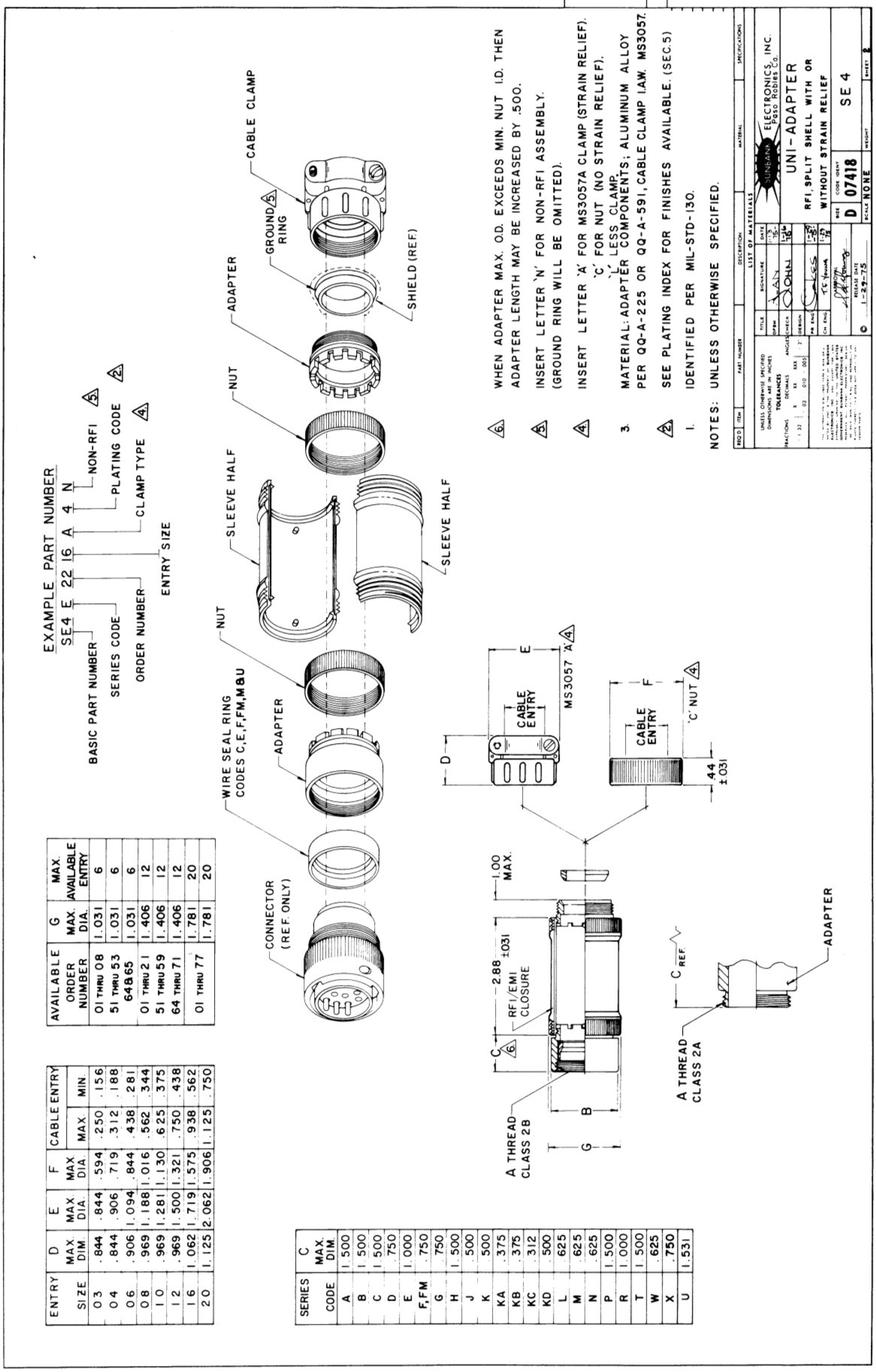




ENTRY SIZE	X DIA.	Y DIA.	Z DIM.	CRIMP RING I.D. (REF.)
06	.090	.113	.312	.175
11	.128	.152	"	.205
14	.156	.193	"	.232
17	.187	.227	"	.261
20	.219	.250	"	.287
23	.250	.281	"	.327
27	.281	.331	"	.375
30	.312	.365	"	.405
31	.375	.406	.312	.460
32	.430	.500	.600	.590
33	.550	.620	"	.710
34	.670	.750	"	.840
35	.810	.880	"	1.010
36	.920	1.000	"	1.130
37	.990	1.120	"	1.250
38	1.040	1.120	"	1.250
39	1.122	1.192	"	1.332
40	1.224	1.294	"	1.440
41	1.353	1.423	"	1.563
42	1.425	1.545	"	1.670
43	1.550	1.670	"	1.795
44	1.675	1.795	"	1.920
45	1.800	1.920	"	2.045
46	1.925	2.045	"	2.170
47	2.050	2.170	"	2.295
48	2.175	2.295	"	2.420
49	2.300	2.420	"	2.545
51	2.530	2.670	.600	2.795

ORDER NUMBER	C DIA.	MAX. ENTRY SIZE
01 THRU 03 & 64	.527	31
04 THRU 06, 51, 52 & 65	.653	32
07 THRU 09, 53 & 67	.782	33
10 THRU 12, 54, 55, 56 & 69	.903	34
13 THRU 15, 57, 58 & 70	1.029	35
16 THRU 18, 59 & 71	1.158	36
19 THRU 22, 60 & 72	1.279	38
23 THRU 25, 61 & 74	1.403	39
26 THRU 30, 50, 46, 62 & 77	1.532	40
31 & 63	1.792	42
32 & 33	2.042	44
34 THRU 38	2.292	46
39 THRU 41	2.529	48
42 & 43	2.603	49
44, 45, 48	2.792	49
46 & 49	3.042	51

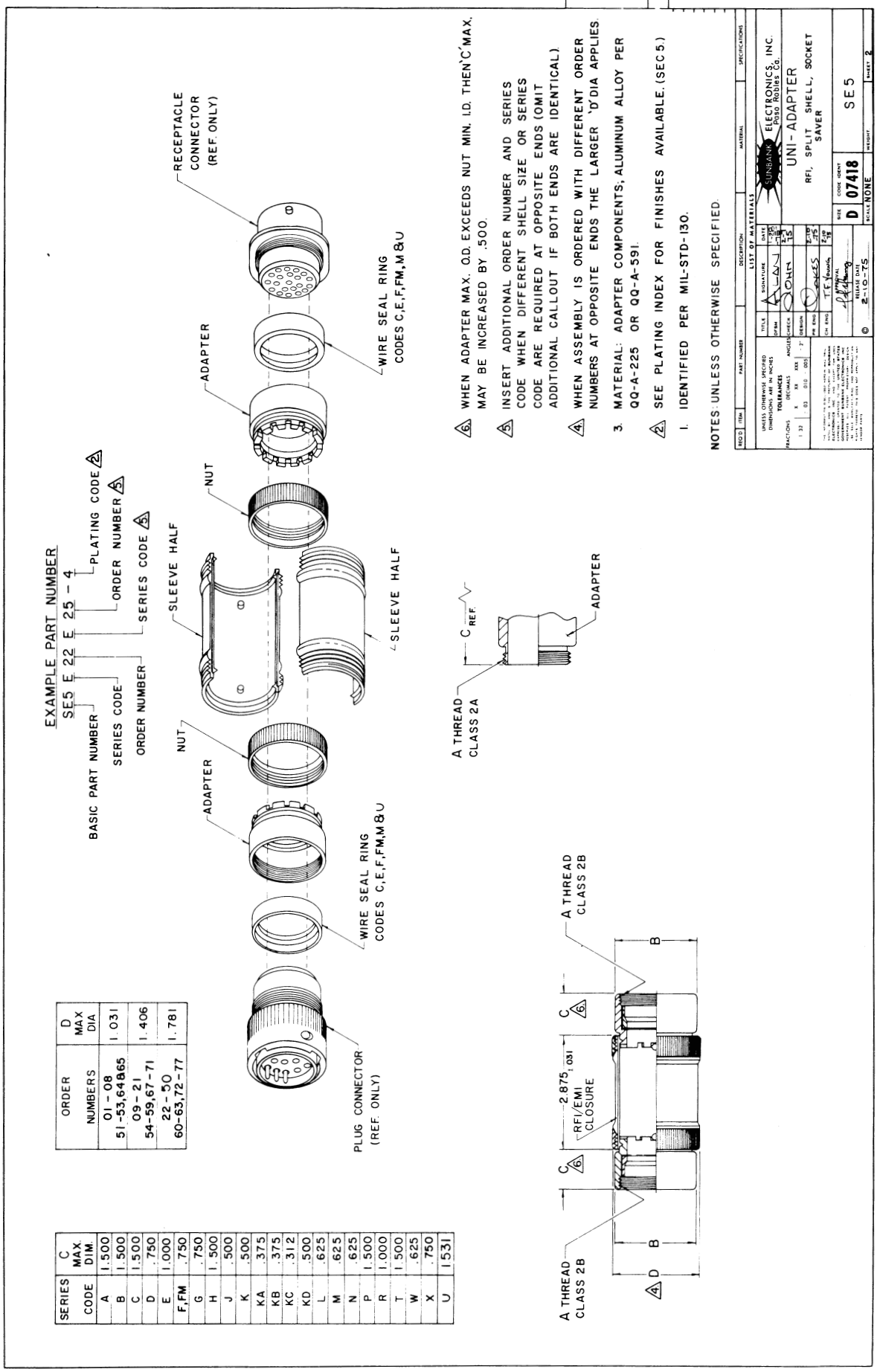
SE4



ENTRY SIZE	D MAX. DIM	E MAX. DIA	F MAX. DIA	CABLE ENTRY MAX.	CABLE ENTRY MIN.
03	.844	.844	.594	.250	.156
04	.844	.906	.719	.312	.188
06	.906	1.094	.844	.438	.281
08	.969	1.188	1.016	.562	.344
10	.969	1.281	1.130	.625	.375
12	.969	1.500	1.321	.750	.438
16	1.062	1.719	1.575	.938	.562
20	1.125	2.062	1.906	1.125	.750

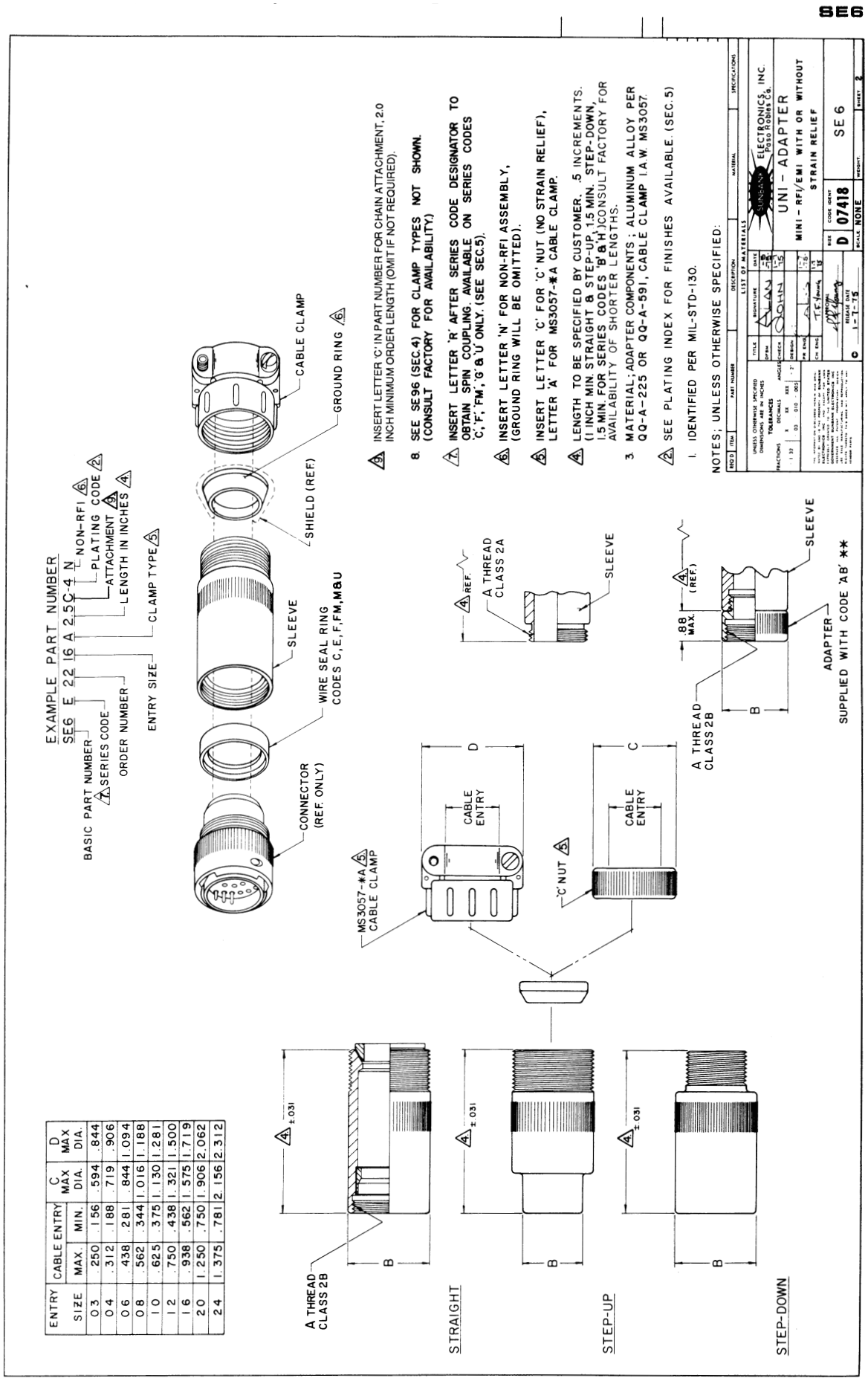
AVAILABLE ORDER NUMBER	G MAX. DIA.	MAX. AVAILABLE ENTRY
01 THRU 08	1.031	6
51 THRU 53	1.031	6
64&65	1.031	6
01 THRU 21	1.406	12
51 THRU 59	1.406	12
64 THRU 71	1.406	12
01 THRU 77	1.781	20
	1.781	20

SERIES CODE	C MAX. DIM
A	1.500
B	1.500
C	1.500
D	.750
E	1.000
F,FM	.750
G	.750
H	1.500
J	1.500
K	.500
KA	.375
KB	.375
KC	.312
KD	.500
L	.625
M	.625
N	.625
P	1.500
R	1.000
T	1.500
W	.625
X	.750
U	1.531



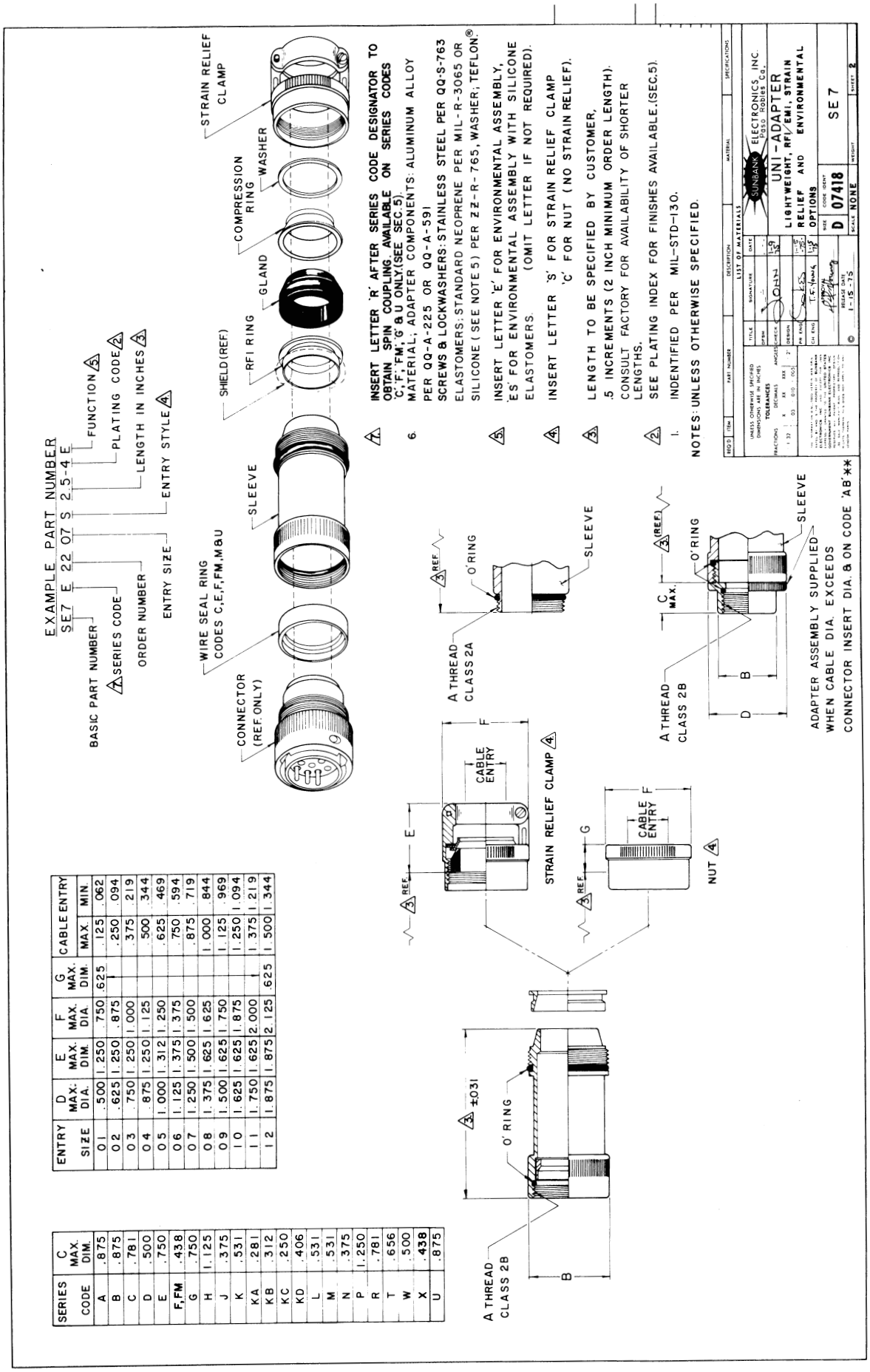
SERIES CODE	C MAX. DIM.
A	1.500
B	1.500
C	1.500
D	.750
E	1.000
F,FM	.750
G	.750
H	1.500
J	.500
K	.500
KA	.375
KB	.375
KC	.312
KD	.500
L	.625
M	.625
N	.625
P	1.500
R	1.000
T	1.500
W	.625
X	.750
U	1.531

ORDER NUMBERS	D MAX DIA
01-08 51-53,64&65	1.031
09-21 54-59,67-71	1.406
22-50 60-63,72-77	1.781



ENTRY SIZE	CABLE ENTRY MAX.	CABLE ENTRY MIN.	C MAX DIA.	D MAX DIA.
03	.250	.156	.594	.844
04	.312	.188	.719	.906
06	.438	.281	.844	1.094
08	.562	.344	1.016	1.188
10	.625	.375	1.130	1.281
12	.750	.438	1.321	1.500
16	.938	.562	1.575	1.719
20	1.250	.750	1.906	2.062
24	1.375	.781	2.156	2.312

SE7



SERIES CODE	C MAX. DIM.
A	.875
B	.875
C	.781
D	.500
E	.750
F,FM	.438
G	.750
H	1.125
J	.375
K	.531
KA	.281
KB	.312
KC	.250
KD	.406
L	.531
M	.531
N	.375
P	1.250
R	.781
T	.656
W	.500
X	.438
U	.875

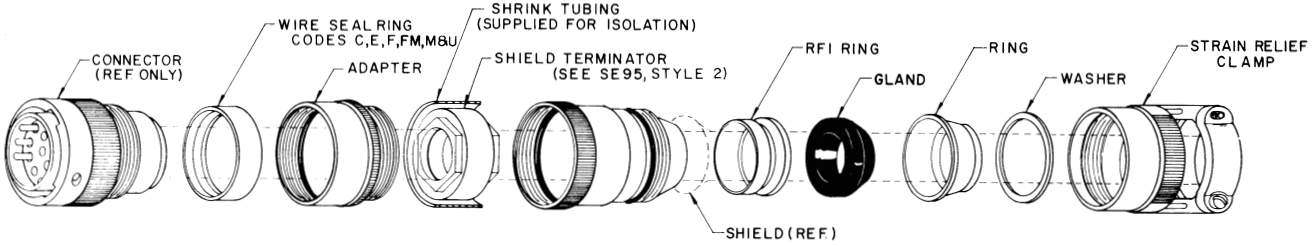
ENTRY SIZE	D MAX. DIA.	E MAX. DIM.	F MAX. DIA.	G MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
01	.500	1.250	.750	.625	.125	.062
02	.625	1.250	.875		.250	.094
03	.750	1.250	1.000		.375	.219
04	.875	1.250	1.125		.500	.344
05	1.000	1.312	1.250		.625	.469
06	1.125	1.375	1.375		.750	.594
07	1.250	1.500	1.500		.875	.719
08	1.375	1.625	1.625		1.000	.844
09	1.500	1.625	1.750		1.125	.969
10	1.625	1.625	1.875		1.250	1.094
11	1.750	1.625	2.000		1.375	1.219
12	1.875	1.875	2.125	.625	1.500	1.344

SELF-SEATING PATENT NO. 5,435,760

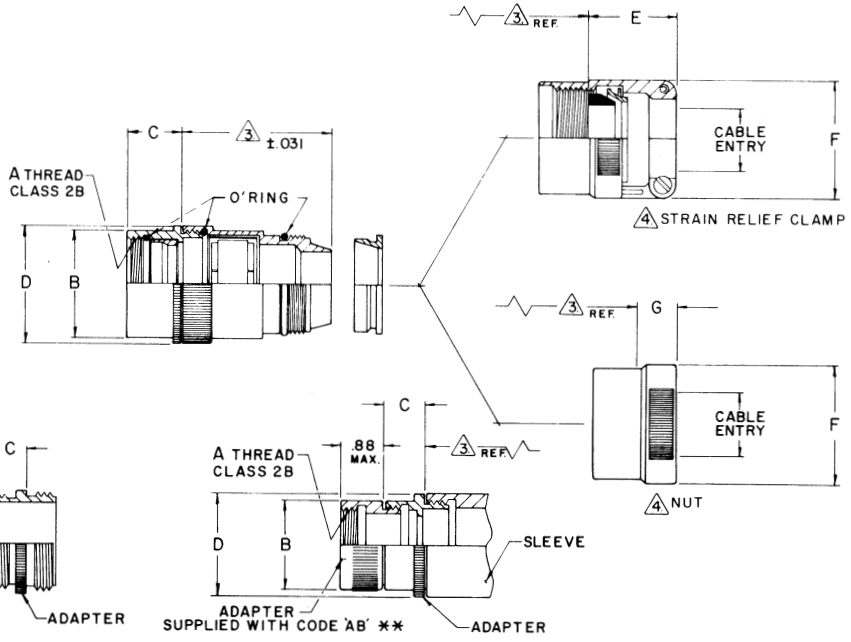
ENTRY SIZE	D MAX DIA	E REF DIM	F MAX DIA	G REF DIM	CABLE ENTRY MAX	CABLE ENTRY MIN
01	1.000	1.250	.750	.625	.125	.062
02	1.125	1.250	.875		.250	.094
03	1.250	1.250	1.000		.375	.219
04	1.375	1.250	1.125		.500	.344
05	1.500	1.312	1.250		.625	.469
06	1.625	1.375	1.375		.750	.594
07	1.750	1.500	1.500		.875	.719
08	2.000	1.625	1.625		1.000	.844
09	2.000	1.625	1.750		1.125	.969
10	2.250	1.625	1.875		1.250	1.094
11	2.250	1.625	2.000		1.375	1.219
12	2.500	1.875	2.125	.625	1.500	1.344

EXAMPLE PART NUMBER
SE8 E 22 07 S 2.5-4 E

BASIC PART NUMBER
SERIES CODE
ORDER NUMBER
ENTRY SIZE
ENTRY STYLE (4)
LENGTH IN INCHES (3)
PLATING CODE (2)
FUNCTION (5)



SERIES CODE	C MAX. DIM.
A	1.000
B	1.500
C	1.250
D	.750
E	1.125
F,FM	.750
G	1.000
H	1.500
J	.500
K	.500
KA	.375
KB	.375
KC	.312
KD	.500
L	.625
M	.625
N	.625
P	1.500
R	1.000
T	.750
W	.625
X	.750
U	.875



6. MATERIAL; ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, SCREWS & LOCKWASHERS; SST. ELASTOMERS STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 5) PER ZZ-R-765. WASHER; TEFLON® T.F.E.

(5) INSERT LETTER 'E' FOR ENVIRONMENTAL ASSEMBLY, 'ES' FOR ENVIRONMENTAL ASSEMBLY WITH SILICONE ELASTOMERS. (OMIT LETTER(S) FOR NON-ENVIRONMENTAL ASSEMBLY).

(4) INSERT LETTER; 'S' FOR STRAIN RELIEF CLAMP 'C' FOR NUT (NO STRAIN RELIEF).

(3) LENGTH TO BE SPECIFIED BY CUSTOMER. (2.5 MINIMUM ORDER LENGTH-.5 INCH INCREMENTS).

(2) SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC.5)

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS 1/32 | DECIMALS X .03 XX .010 XXX .005 | ANGLES 2°

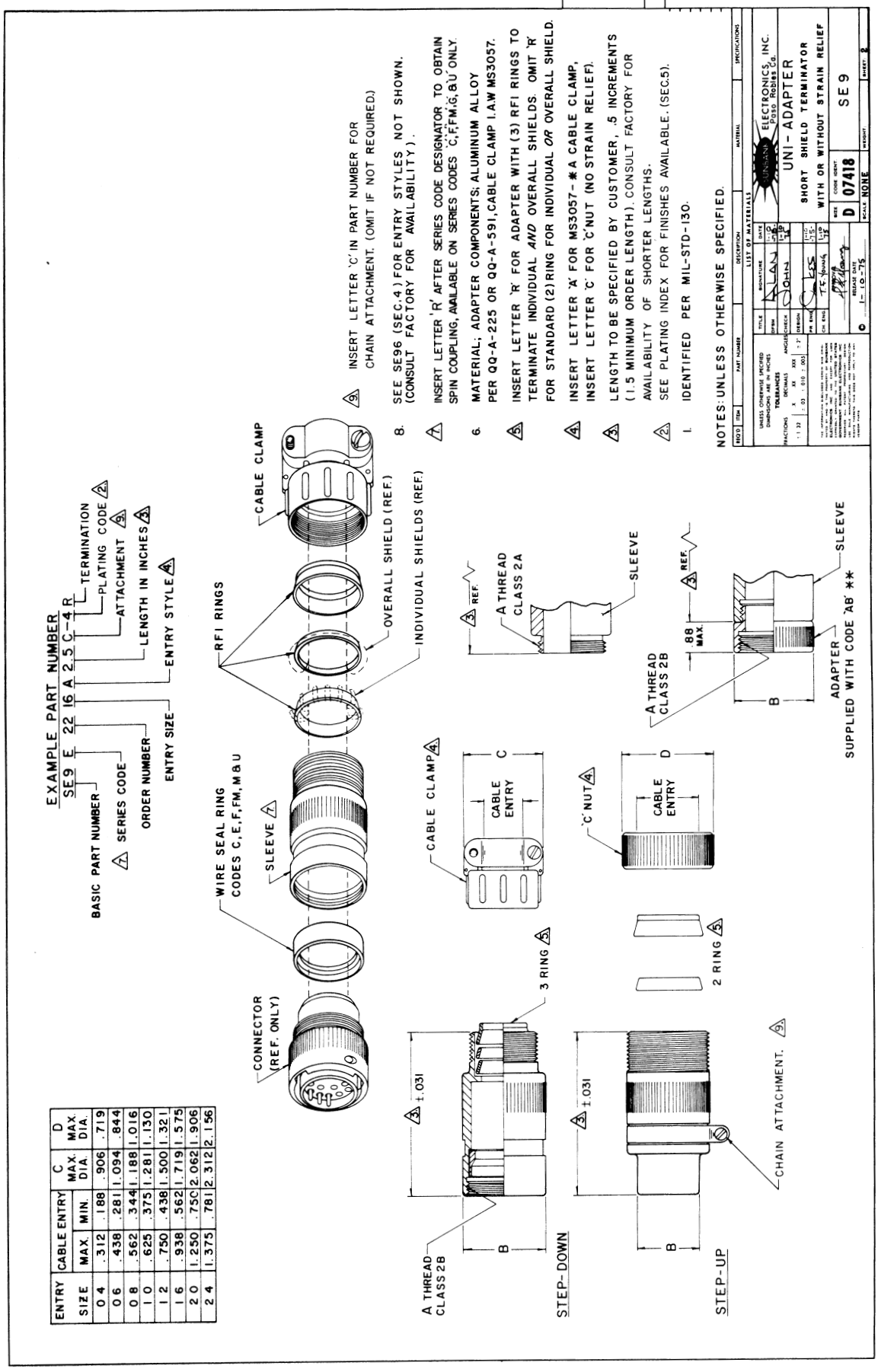
	TITLE	SIGNATURE	DATE
DFSM			
CHECK	JOHN		4-10-75
DESIGN			
PR. ENG.			4-10-75
CH. ENG.	T.F. Young		4-10-75
RELEASE DATE	4-10-75		

SUNBANK ELECTRONICS, INC. Paso Robles Ca.

UNI-ADAPTER
RFI/EMI ENVIRONMENTAL OR NON-ENVIRONMENTAL WITH ISOLATED SHIELD TERMINATOR

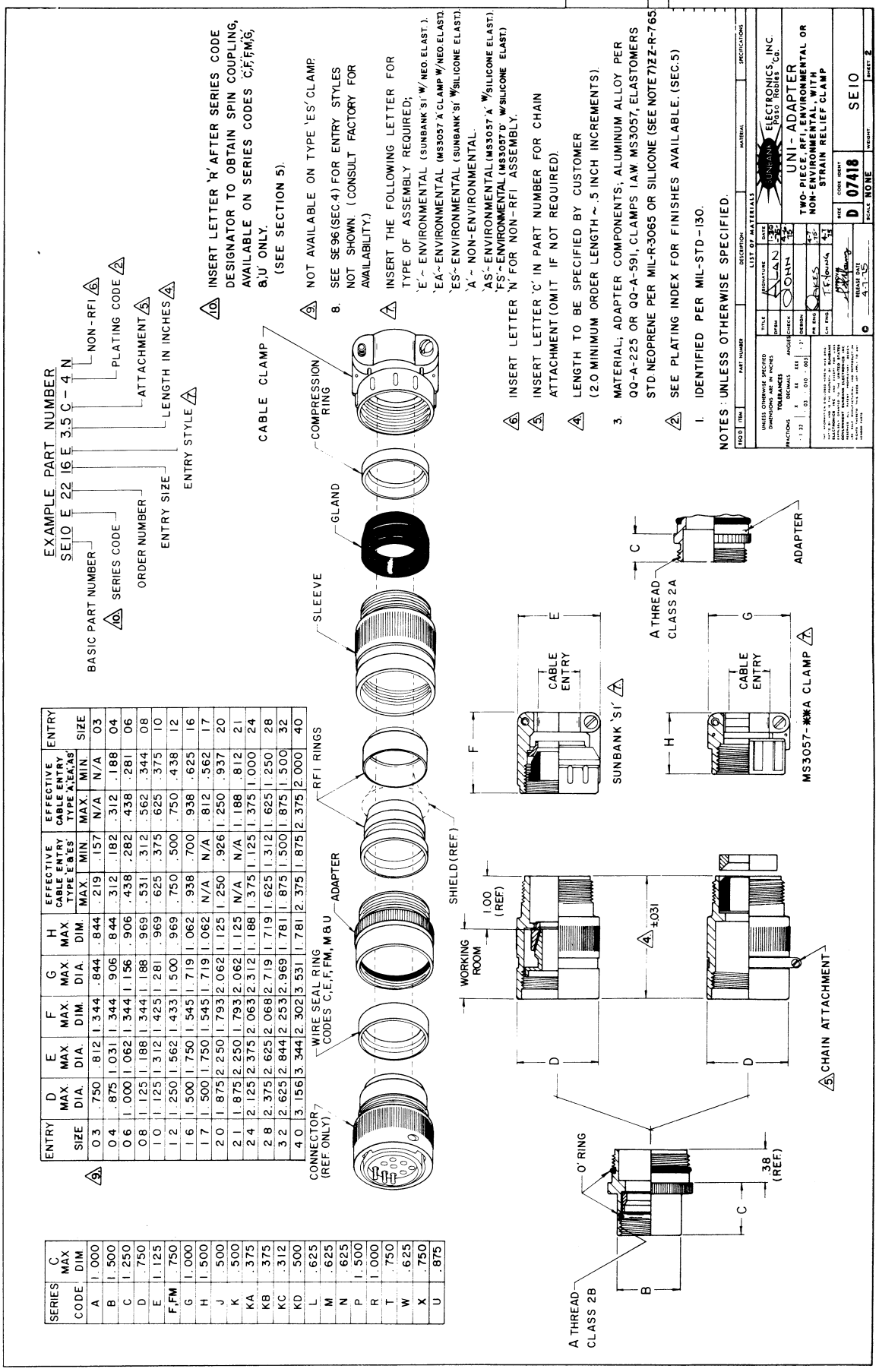
SIZE	CODE IDENT	
D	07418	SE8
SCALE NONE	WEIGHT	SHEET 2

SE9



ENTRY SIZE	CABLE ENTRY MAX.	CABLE ENTRY MIN.	C MAX. DIA.	D MAX. DIA.
04	.312	.188	.906	.719
06	.438	.281	1.094	.844
08	.562	.344	1.188	1.016
10	.625	.375	1.281	1.130
12	.750	.438	1.500	1.321
16	.938	.562	1.719	1.575
20	1.250	.750	2.062	1.906
24	1.375	.781	2.312	2.156

SE10



ENTRY SIZE	D MAX. DIA.	E MAX. DIA.	F MAX. DIM.	G MAX. DIA.	H MAX. DIM	EFFECTIVE CABLE ENTRY TYPE E & ES MAX.	EFFECTIVE CABLE ENTRY TYPE A, EA, AS MAX.	EFFECTIVE CABLE ENTRY TYPE A, EA, AS MIN.	ENTRY SIZE
03	.750	.812	1.344	.844	.844	.219	.157	N/A	N/A	03
04	.875	1.031	1.344	.906	.844	.312	.182	.312	.188	04
06	1.000	1.062	1.344	1.156	.906	.438	.282	.438	.281	06
08	1.125	1.188	1.344	1.188	.969	.531	.312	.562	.344	08
10	1.125	1.312	1.425	1.281	.969	.625	.375	.625	.375	10
12	1.250	1.562	1.433	1.500	.969	.750	.500	.750	.438	12
16	1.500	1.750	1.545	1.719	1.062	.938	.700	.938	.625	16
17	1.500	1.750	1.545	1.719	1.062	N/A	N/A	.812	.562	17
20	1.875	2.250	1.793	2.062	1.125	1.250	.926	1.250	.937	20
21	1.875	2.250	1.793	2.062	1.125	N/A	N/A	1.188	.812	21
24	2.125	2.375	2.063	2.312	1.188	1.375	1.125	1.375	1.000	24
28	2.375	2.625	2.068	2.719	1.719	1.625	1.312	1.625	1.250	28
32	2.625	2.844	2.253	2.969	1.781	1.875	1.500	1.875	1.500	32
40	3.156	3.344	2.302	3.531	1.781	2.375	1.875	2.375	2.000	40

SERIES CODE	C MAX DIM
A	1.000
B	1.500
C	1.250
D	.750
E	1.125
F,FM	.750
G	1.000
H	1.500
J	.500
K	.500
KA	.375
KB	.375
KC	.312
KD	.500
L	.625
M	.625
N	.625
P	1.500
R	1.000
T	.750
W	.625
X	.750
U	.875

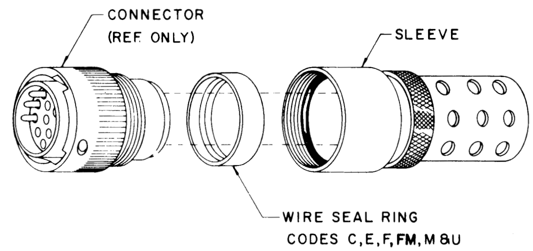
SERIES CODE	C MAX. DIM.
A	1.031
B	1.531
C	1.031
D	.781
E	1.031
F,FM	.781
G	.906
H	1.156
J	.656
K	.781
KA	.531
KB	.531
KC	.531
KD	.656
L	.781
M	.781
N	.656
P	1.531
R	1.031
T	.906
W	1.281
X	.781
U	.875

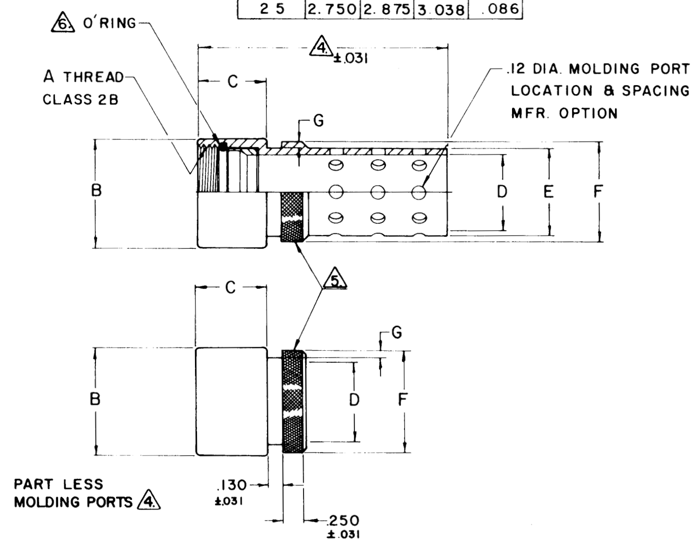
ENTRY SIZE	D ±.015 DIA.	E ±.015 DIA.	F +.000 -.015 DIA.	G MIN. DIM.
01	.250	.375	.533	.044
02	.281	.406	.533	
03	.312	.438	.595	
04	.375	.500	.595	
05	.438	.562	.638	
06	.500	.625	.774	
07	.562	.688	.774	
08	.625	.750	.838	
09	.688	.812	.963	
10	.750	.875	.963	
11	.812	.938	1.042	.044
12	.875	1.000	1.217	.069
13	.938	1.062	1.217	
14	1.000	1.125	1.342	
15	1.125	1.250	1.433	
16	1.250	1.375	1.500	
17	1.375	1.500	1.709	
18	1.500	1.625	1.709	.069
19	1.625	1.750	1.919	.086
20	1.750	1.875	2.038	
21	1.875	2.000	2.169	
22	2.000	2.125	2.402	
23	2.250	2.375	2.657	
24	2.500	2.625	2.907	
25	2.750	2.875	3.038	.086

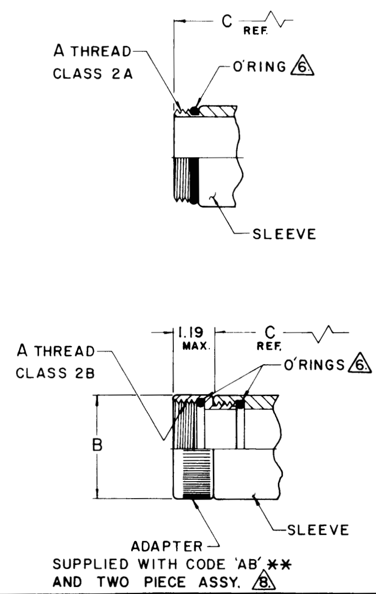
EXAMPLE PART NUMBER

SE11 E 22 12-3.5-4 S

- BASIC PART NUMBER (SE11)
- SERIES CODE ⚠7 (E)
- ORDER NUMBER (22)
- ENTRY SIZE (12)
- LENGTH IN INCHES ⚠4 (3.5)
- PLATING CODE ⚠2 (4)
- SILICONE ⚠6 (S)







NOTES: UNLESS OTHERWISE SPECIFIED.

1. IDENTIFIED PER MIL-STD-130.

⚠2 SEE PLATING INDEX FOR FINISHES AVAILABLE.(SEC.5).

3. MATERIAL; ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, O'RING(S) PER MIL-R-3065 OR SILICONE(SEE NOTE 6.) PER ZZ-R-765.

⚠4 LENGTH TO BE SPECIFIED BY CUSTOMER, 2 INCH MINIMUM LENGTH FOR PARTS WITH MOLDING PORTS (.5 INCH INCREMENTS). OMIT LENGTH CALL OUT FOR PART LESS MOLDING PORTS (SEE DETAIL).

⚠5 KNURLED AREA DESIGNED TO MOUNT STANDARD MS3109 OR MS3117 HEAT SHRINKABLE BOOT.

⚠6 INSERT LETTER 'S' FOR SILICONE O'RING. (OMIT FOR STANDARD NEOPRENE).

⚠7 INSERT LETTER 'R' AFTER SERIES CODE DESIGNATION TO OBTAIN SPIN COUPLING, AVAILABLE ON SERIES CODE 'C','F','FM','G' & 'U' ONLY. (SEE SEC. 5).

⚠8 WHEN ENTRY SIZE EXCEEDS CONNECTOR BARREL ID A TWO PIECE SLEEVE WILL BE SUPPLIED. (NOT APPLICABLE TO SPIN COUPLING TYPES).

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS
			LIST OF MATERIALS		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONS ±1/32; DECIMALS X ±.03, XX ±.010, XXX ±.005; ANGLES ±2°

TITLE	SIGNATURE	DATE
DFSM	ALAN	1-31-75
CHECK	JOHN	
DESIGN		
PR ENG	OAKES	2-10-75
CH ENG	T.F. YOUNG	2-10-75
APPROVAL		
RELEASE DATE		2-10-75

SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

UNI-ADAPTER

MOLDING AND OR POTTING

SIZE D | CODE IDENT 07418 | SE11

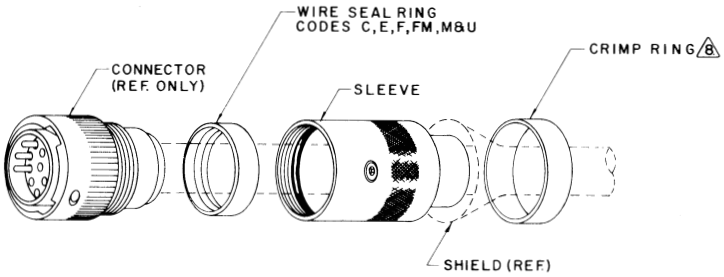
SCALE NONE | WEIGHT | SHEET 2

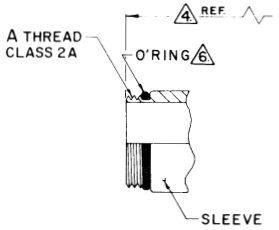
SELF-SEATING PATENT NO. 5,435,760

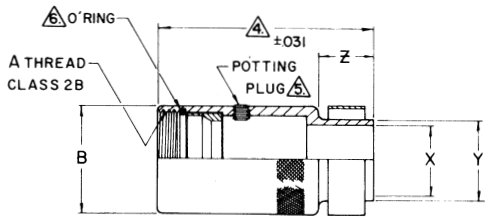
ENTRY SIZE	X ±.010 DIA.	Y ±.010 DIA.	Z ±.010 DIM.	CRIMP RING I.D (REF.) ⑧
06	.090	.113	.312	.175
11	.128	.152		.205
14	.156	.193		.232
17	.187	.227		.261
20	.219	.250		.287
23	.250	.281		.327
27	.281	.331		.375
30	.312	.365		.405
31	.375	.406	.312	.460
32	.430	.500	.600	.590
33	.550	.620		.710
34	.670	.750		.840
35	.810	.880		1.010
36	.920	1.000		1.130
37	.990	1.120		1.250
38	1.040	1.120		1.250
39	1.122	1.192		1.332
40	1.224	1.294		1.440
41	1.353	1.423		1.563
42	1.425	1.545		1.670
43	1.550	1.670		1.795
44	1.675	1.795		1.920
45	1.800	1.920		2.045
46	1.925	2.045		2.170
47	2.050	2.170		2.295
48	2.175	2.295		2.420
49	2.300	2.420		2.545
51	2.530	2.670		2.795
53	2.780	2.920		3.045
54	2.905	3.045	.600	3.170

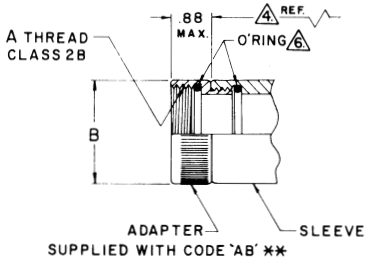
EXAMPLE PART NUMBER
SE12 E 22 36-2.5-4 P S L ⑦

BASIC PART NUMBER
SERIES CODE
ORDER NUMBER
ENTRY SIZE
LENGTH IN INCHES ④
PLATING CODE ②
POTTING PLUG ⑤
SILICONE ⑥









⑧ CRIMP RING I.D. EQUALS THOMAS & BETTS GSC–DASH NUMBER (IE. .710=GSC 710) CONSULT THOMAS & BETTS OR BUCHANAN FOR INSTALLATION TOOL DATA. (SEE SEC. 5).

⑦ INSERT LETTER 'L' FOR ASSEMBLY LESS CRIMP RING.

⑥ INSERT LETTER 'S' FOR SILICONE O'RING (S), (OMIT FOR STANDARD NEOPRENE).

⑤ INSERT LETTER 'P' FOR POTTING HOLE & PLUG, LETTER 'D' FOR .188 DIA. DRAIN HOLE (NO PLUG). (OMIT LETTER IF NOT REQUIRED).

④ LENGTH TO BE SPECIFIED BY CUSTOMER, .5 INCREMENTS (2 INCH MIN. ORDER LENGTH).

3. MATERIAL; ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, CRIMP RING: BRONZE ANNEALED, O'RING(S): STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 6) PER ZZ-R-765.

② SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5).

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED:

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ±1/32 | DECIMALS X ±.03, XX ±.010, XXX ±.005 | ANGLES ±2°

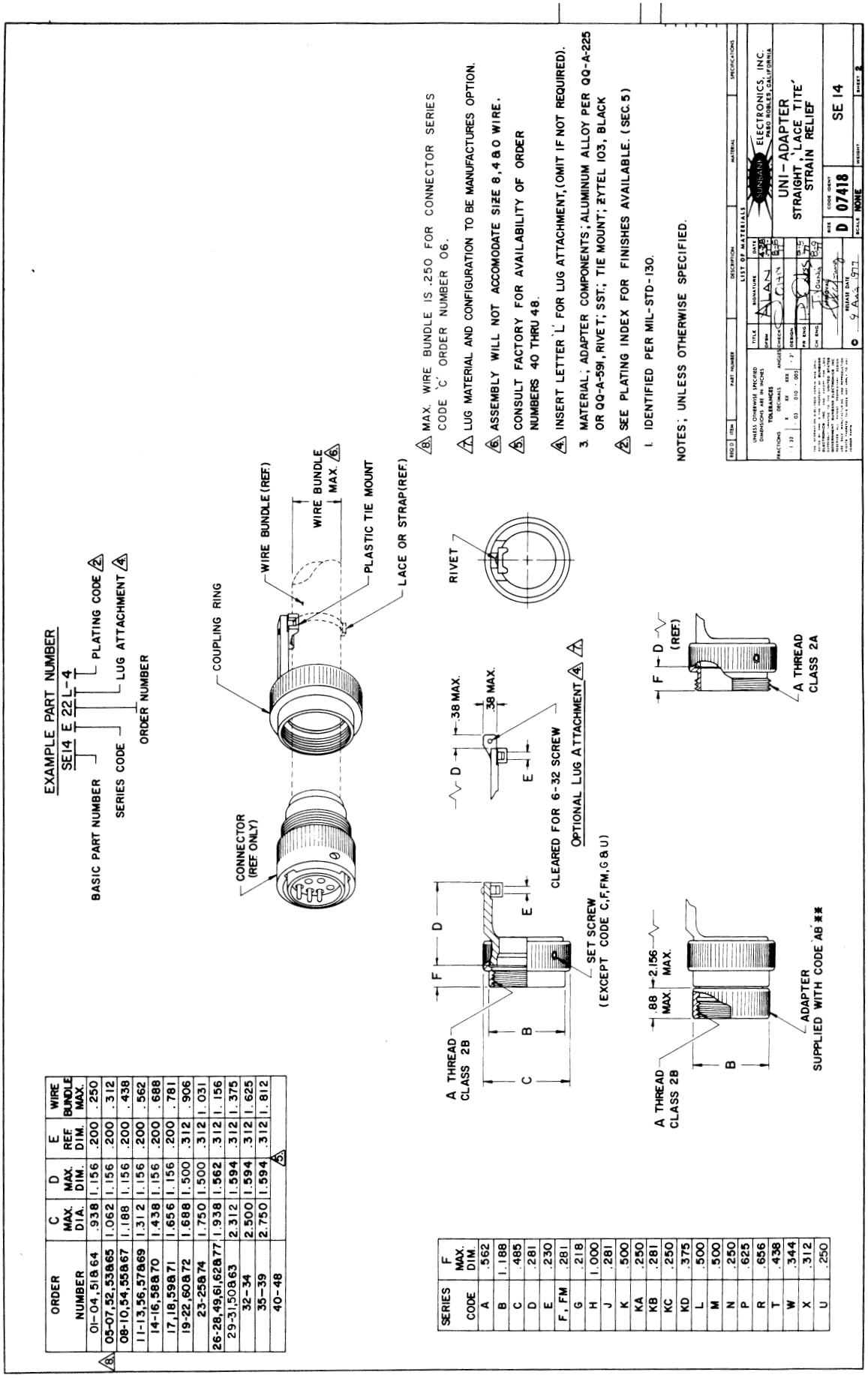
	TITLE	SIGNATURE	DATE
DRAWN		ALAN	1-9-75
CHECK		JOHN	1-9-75
DESIGN		CALES	1-9-75
PR. ENG.			
CH. ENG.		T.S. Young	1-9-75
APPROVED			
RELEASE DATE		1-9-75	

SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

UNI-ADAPTER
CRIMP RING – POTTING

SIZE D | CODE IDENT 07418 | SE 12
SCALE NONE | WEIGHT | SHEET 2

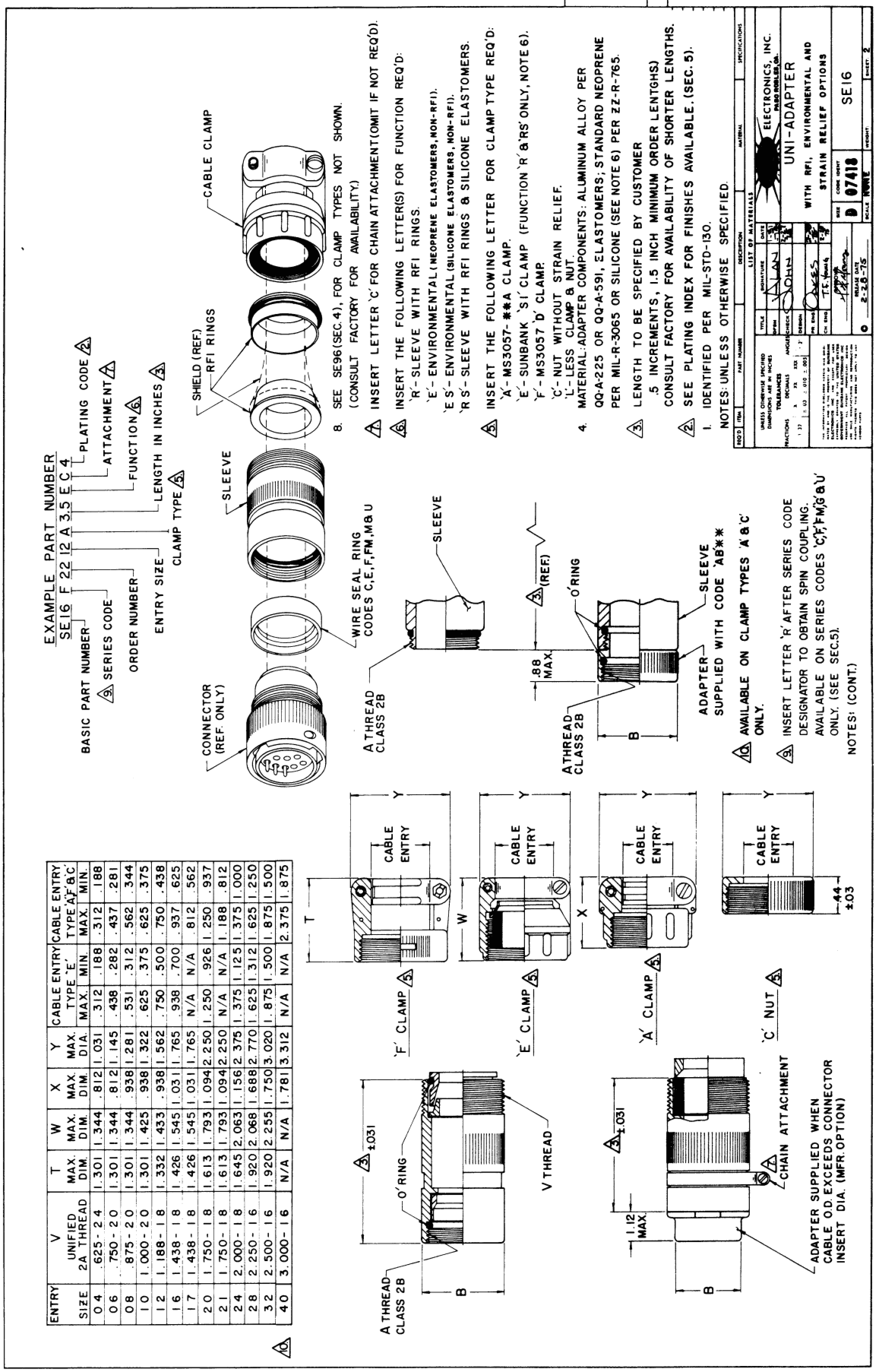
SE14



ORDER NUMBER	C MAX. DIA.	D MAX. DIM.	E REF DIM.	WIRE BUNDLE MAX.
01-04,51,864	.938	1.156	.200	.250
05-07,52,53,865	1.062	1.156	.200	.312
08-10,54,55,867	1.188	1.156	.200	.438
11-13,56,57,869	1.312	1.156	.200	.562
14-16,58,870	1.438	1.156	.200	.688
17,18,59,871	1.656	1.156	.200	.781
19-22,60,872	1.688	1.500	.312	.906
23-25,874	1.750	1.500	.312	1.031
26-28,49,61,62,877	1.938	1.562	.312	1.156
29-31,508,63	2.312	1.594	.312	1.375
32-34	2.500	1.594	.312	1.625
35-39	2.750	1.594	.312	1.812
40-48			6	

SERIES CODE	F MAX. DIM.
A	.562
B	1.188
C	.485
D	.281
E	.230
F, FM	.281
G	.218
H	1.000
J	.281
K	.500
KA	.250
KB	.281
KC	.250
KD	.375
L	.500
M	.500
N	.250
P	.625
R	.656
T	.438
W	.344
X	.312
U	.250

SE16



ENTRY SIZE	V UNIFIED 2A THREAD	T MAX. DIM.	W MAX. DIM.	X MAX. DIM.	Y MAX. DIA.	CABLE ENTRY TYPE 'E' MAX.	CABLE ENTRY TYPE 'E' MIN.	CABLE ENTRY TYPE 'A','F' & 'C' MAX.	CABLE ENTRY TYPE 'A','F' & 'C' MIN.
04	.625-24	1.301	1.344	.812	1.031	.312	.188	.312	.188
06	.750-20	1.301	1.344	.812	1.145	.438	.282	.437	.281
08	.875-20	1.301	1.344	.938	1.281	.531	.312	.562	.344
10	1.000-20	1.301	1.425	.938	1.322	.625	.375	.625	.375
12	1.188-18	1.332	1.433	.938	1.562	.750	.500	.750	.438
16	1.438-18	1.426	1.545	1.031	1.765	.938	.700	.937	.625
17	1.438-18	1.426	1.545	1.031	1.765	N/A	N/A	.812	.562
20	1.750-18	1.613	1.793	1.094	2.250	1.250	.926	1.250	.937
21	1.750-18	1.613	1.793	1.094	2.250	N/A	N/A	1.188	.812
24	2.000-18	1.645	2.063	1.156	2.375	1.375	1.125	1.375	1.000
28	2.250-16	1.920	2.068	1.688	2.770	1.625	1.312	1.625	1.250
32	2.500-16	1.920	2.255	1.750	3.020	1.875	1.500	1.875	1.500
40	3.000-16	N/A	N/A	1.781	3.312	N/A	N/A	2.375	1.875

NOTES: UNLESS OTHERWISE SPECIFIED.
1. IDENTIFIED PER MIL-STD-130.
2. SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5).
3. LENGTH TO BE SPECIFIED BY CUSTOMER .5 INCREMENTS, 1.5 INCH MINIMUM ORDER LENGTHS) CONSULT FACTORY FOR AVAILABILITY OF SHORTER LENGTHS.
4. MATERIAL: ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 6) PER ZZ-R-765.
'C' - NUT WITHOUT STRAIN RELIEF.
'L' - LESS CLAMP & NUT.
5. INSERT THE FOLLOWING LETTER FOR CLAMP TYPE REQ'D:
'A' - MS3057-**A CLAMP.
'E' - SUNBANK 'SI' CLAMP (FUNCTION 'R' & 'RS' ONLY, NOTE 6).
'F' - MS3057 'D' CLAMP.
6. INSERT THE FOLLOWING LETTER(S) FOR FUNCTION REQ'D:
'R' - SLEEVE WITH RFI RINGS.
'E' - ENVIRONMENTAL (NEOPRENE ELASTOMERS, NON-RFI).
'ES' - ENVIRONMENTAL (SILICONE ELASTOMERS, NON-RFI).
'RS' - SLEEVE WITH RFI RINGS & SILICONE ELASTOMERS.
7. INSERT LETTER 'C' FOR CHAIN ATTACHMENT (OMIT IF NOT REQ'D).
8. SEE SE96 (SEC. 4), FOR CLAMP TYPES NOT SHOWN. (CONSULT FACTORY FOR AVAILABILITY)

SE17

EXAMBLE PART NUMBER
SE17 E 22 07-2.5-4
BASIC PART NUMBER
SERIES CODE
ORDER NUMBER
ENTRY SIZE
LENGTH IN INCHES
PLATING CODE

SERIES CODE	C MAX. DIM.
A	.875
B	.875
C	.781
D	.500
E	.750
F&FM	.438
G	.750
H	1.125
J	.375
K	.531
KA	.281
KB	.312
KC	.250
KD	.406
L	.531
M	.531
N	.375
P	1.250
R	.781
T	.656
W	.500
X	.438
U	.875

ENTRY SIZE	D MAX. DIA.	E REF. DIM.	F MAX. DIA.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
01	.500	.688	.750	.125	.062
02	.625	.688	.875	.250	.094
03	.750	.688	1.000	.375	.219
04	.875	.688	1.125	.500	.344
05	1.000	.750	1.250	.625	.469
06	1.125	.812	1.375	.750	.594
07	1.250	.938	1.500	.875	.719
08	1.375	1.062	1.625	1.000	.844
09	1.500	1.062	1.750	1.125	.969
10	1.625	1.062	1.875	1.250	1.094
11	1.750	1.062	2.000	1.375	1.219
12	1.875	1.312	2.125	1.500	1.344

CONNECTOR (REF. ONLY)
WIRE SEAL RING CODES C,E,F,FM,M&U
SLEEVE
STRAIN RELIEF CLAMP

A THREAD CLASS 2B
B
E
±.031
CABLE ENTRY
F

A THREAD CLASS 2A
(REF)
SLEEVE

A THREAD CLASS 2B
C (MAX)
(REF)
SLEEVE
D
B

ADAPTER SUPPLIED WHEN CABLE DIA EXCEEDS CONNECTOR INSERT DIA. & ON CODE 'AB**'

6. INSERT LETTER 'R' AFTER SERIES CODE DESIGNATOR TO OBTAIN SPIN COUPLING. AVAILABLE ON SERIES CODES C,F,FM,M & U ONLY. (SEE SEC.5).
5. THIS PRODUCT IS NOT RECOMMENDED FOR USE WITH MIL-C-915 TYPE POWER CABLE, MIL-C-22992 OR MIL-C-5015 CLASS D CONNECTORS.
4. MATERIAL; ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591 SCREWS & LOCKWASHERS; STAINLESS STEEL PER QQ-S-763
3. LENGTH TO BE SPECIFIED BY CUSTOMER, .5 INCREMENTS (1.5 INCH MINIMUM ORDER LENGTH). CONSULT FACTORY FOR AVAILABILITY OF SHORTER LENGTHS.
2. SEE PLATING INDEX FOR FINISHES AVAILABLE (SEC. 5).
1. IDENTIFIED PER MIL-STD-130.

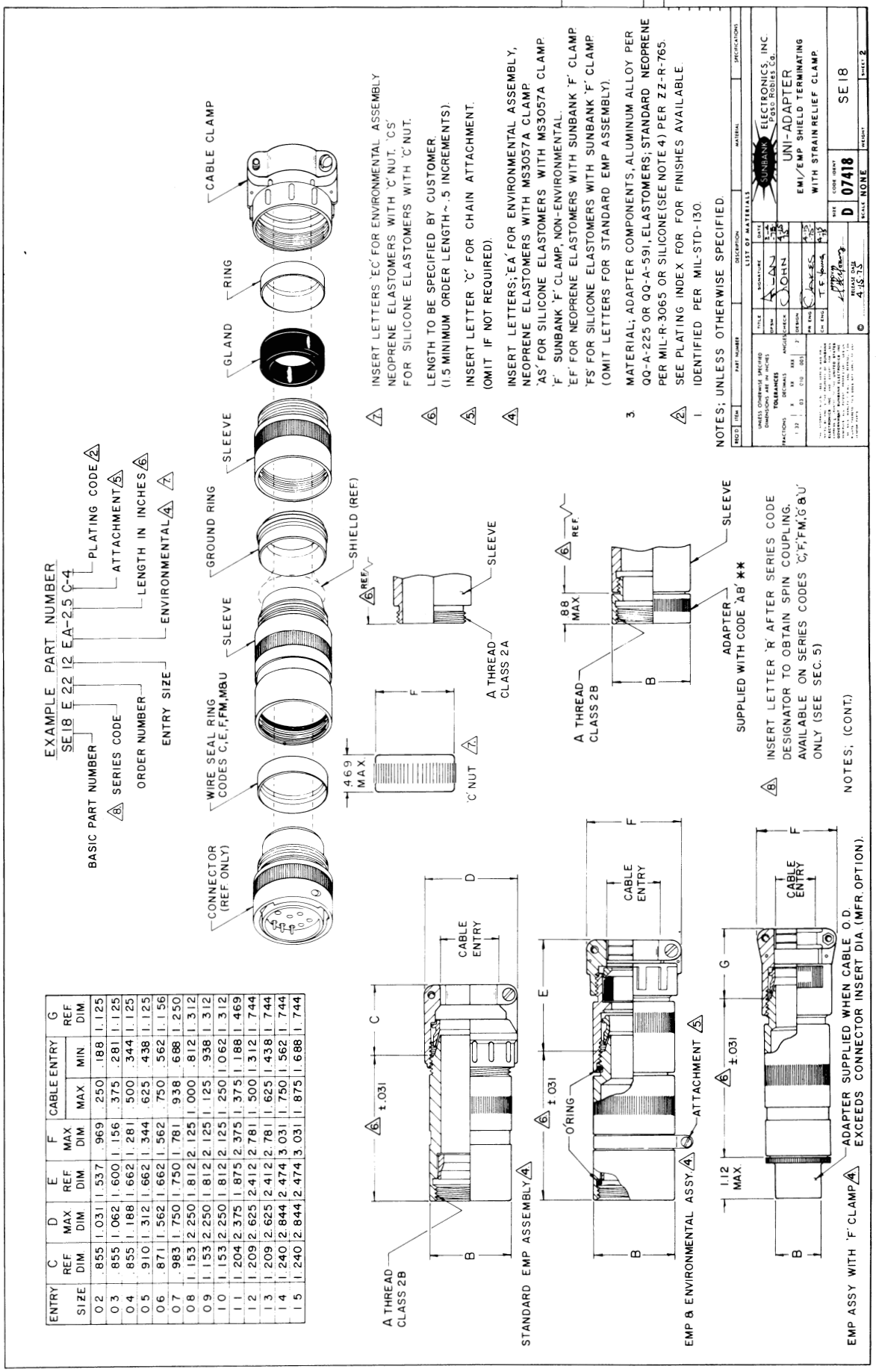
NOTES; UNLESS OTHERWISE SPECIFIED.

SUNBANK ELECTRONICS, INC. 9350 ROBLES CO.
UNI-ADAPTER
LIGHTWEIGHT, STRAIN RELIEF
SIZE D | CODE IDENT 07418 | SE17
SCALE NONE | WEIGHT | SHEET 2

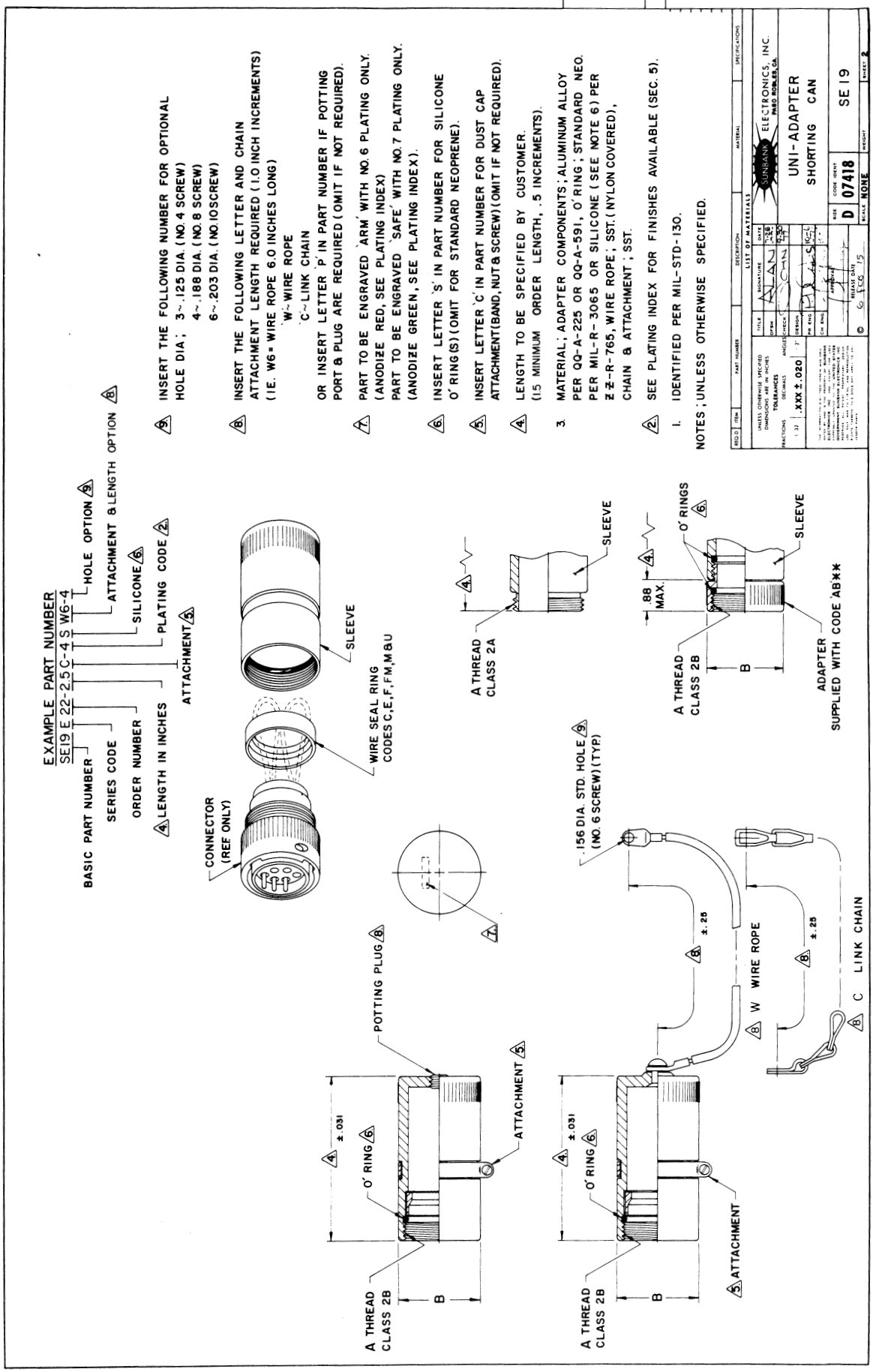
SELF-SEATING PATENT NO. 5,435,760

SE18

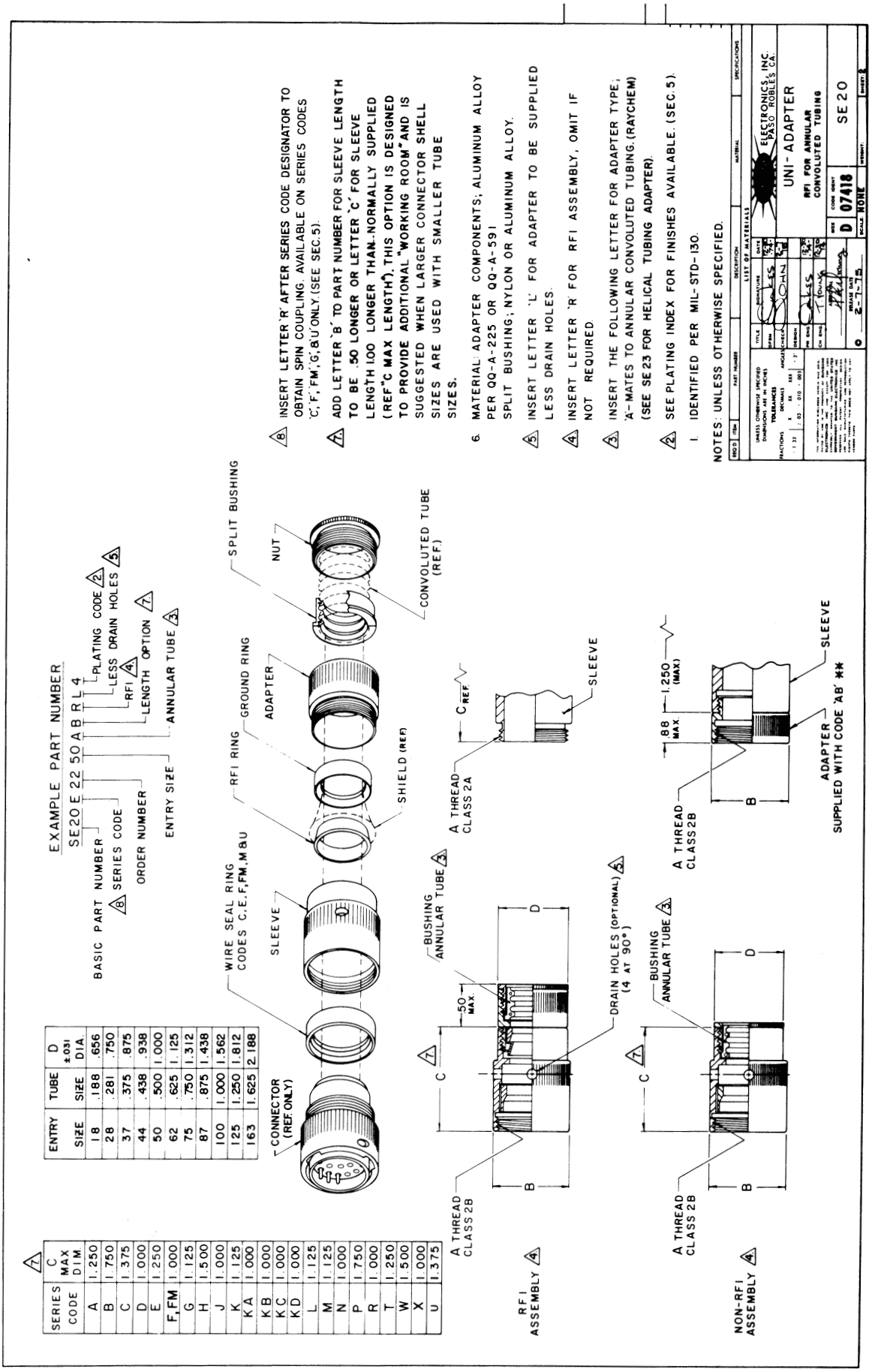
ENTRY SIZE	C REF DIM	D MAX DIM	E REF DIM	F MAX DIM	CABLE ENTRY MAX	CABLE ENTRY MIN	G REF DIM
02	.855	1.031	1.537	.969	.250	.188	1.125
03	.855	1.062	1.600	1.156	.375	.281	1.125
04	.855	1.188	1.662	1.281	.500	.344	1.125
05	.910	1.312	1.662	1.344	.625	.438	1.125
06	.871	1.562	1.662	1.562	.750	.562	1.156
07	.983	1.750	1.750	1.781	.938	.688	1.250
08	1.153	2.250	1.812	2.125	1.000	.812	1.312
09	1.153	2.250	1.812	2.125	1.125	.938	1.312
10	1.153	2.250	1.812	2.125	1.250	1.062	1.312
11	1.204	2.375	1.875	2.375	1.375	1.188	1.469
12	1.209	2.625	2.412	2.781	1.500	1.312	1.744
13	1.209	2.625	2.412	2.781	1.625	1.438	1.744
14	1.240	2.844	2.474	3.031	1.750	1.562	1.744
15	1.240	2.844	2.474	3.031	1.875	1.688	1.744



SE19



SE20

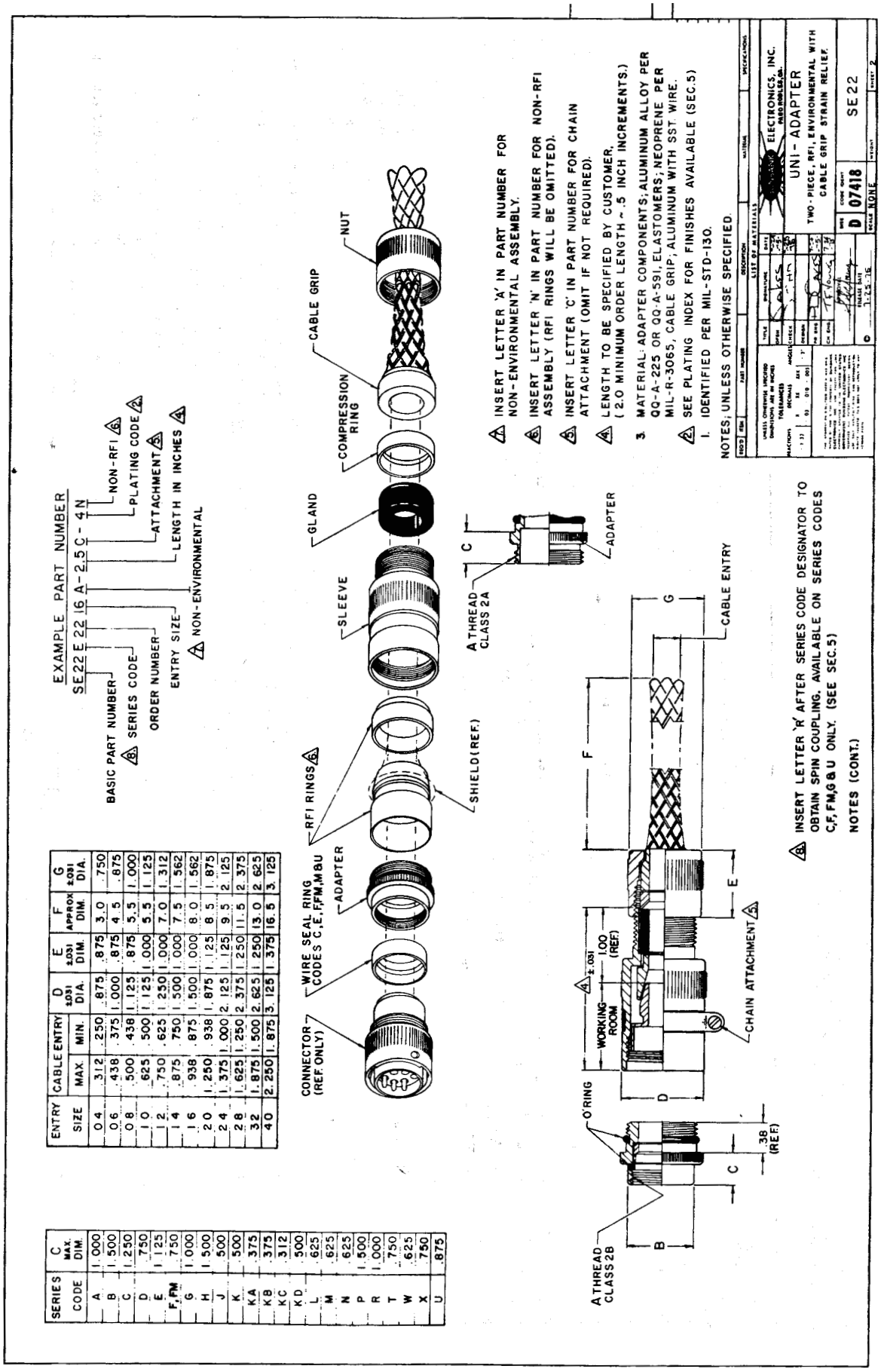


SERIES CODE	C MAX DIM
A	1.250
B	1.750
C	1.375
D	1.000
E	1.250
F,FM	1.000
G	1.125
H	1.500
J	1.000
K	1.125
KA	1.000
KB	1.000
KC	1.000
KD	1.000
L	1.125
M	1.125
N	1.000
P	1.750
R	1.000
T	1.250
W	1.500
X	1.000
U	1.375

ENTRY SIZE	TUBE SIZE	D ±.031 DIA
18	.188	.656
28	.281	.750
37	.375	.875
44	.438	.938
50	.500	1.000
62	.625	1.125
75	.750	1.312
87	.875	1.438
100	1.000	1.562
125	1.250	1.812
163	1.625	2.188

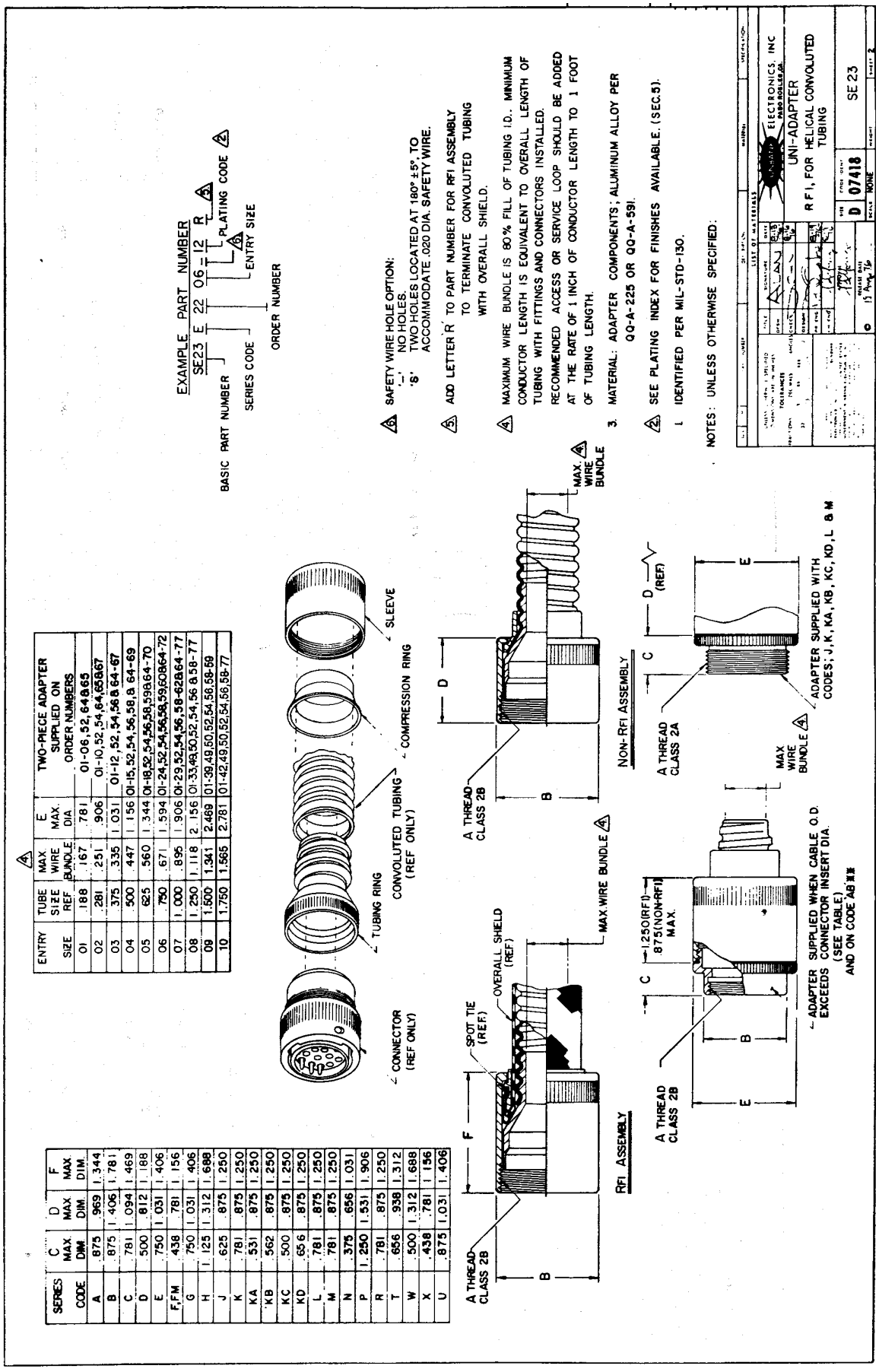
8. INSERT LETTER 'R' AFTER SERIES CODE DESIGNATOR TO OBTAIN SPIN COUPLING. AVAILABLE ON SERIES CODES 'C', 'F', 'FM', 'G', & 'U' ONLY. (SEE SEC. 5).
7. ADD LETTER 'B' TO PART NUMBER FOR SLEEVE LENGTH TO BE .50 LONGER OR LETTER 'C' FOR SLEEVE LENGTH 1.00 LONGER THAN NORMALLY SUPPLIED (REF "C MAX LENGTH"). THIS OPTION IS DESIGNED TO PROVIDE ADDITIONAL "WORKING ROOM" AND IS SUGGESTED WHEN LARGER CONNECTOR SHELL SIZES ARE USED WITH SMALLER TUBE SIZES.
6. MATERIAL: ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591 SPLIT BUSHING; NYLON OR ALUMINUM ALLOY.
5. INSERT LETTER 'L' FOR ADAPTER TO BE SUPPLIED LESS DRAIN HOLES.
4. INSERT LETTER 'R' FOR RFI ASSEMBLY, OMIT IF NOT REQUIRED
3. INSERT THE FOLLOWING LETTER FOR ADAPTER TYPE; 'A'-MATES TO ANNULAR CONVOLUTED TUBING. (RAYCHEM) (SEE SE 23 FOR HELICAL TUBING ADAPTER).
2. SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5).
1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.



ENTRY SIZE	CABLE ENTRY MAX.	CABLE ENTRY MIN.	D ±.031 DIA.	E ±.031 DIM.	F APPROX DIM.	G ±.031 DIA.
04	.312	.250	.875	.875	3.0	.750
06	.438	.375	1.000	.875	4.5	.875
08	.500	.438	1.125	.875	5.5	1.000
10	.625	.500	1.125	1.000	5.5	1.125
12	.750	.625	1.250	1.000	7.0	1.312
14	.875	.750	1.500	1.000	7.5	1.562
16	.938	.875	1.500	1.000	8.0	1.562
20	1.250	.938	1.875	1.125	8.5	1.875
24	1.375	1.000	2.125	1.125	9.5	2.125
28	1.625	1.250	2.375	1.250	11.5	2.375
32	1.875	1.500	2.625	1.250	13.0	2.625
40	2.250	1.875	3.125	1.375	16.5	3.125

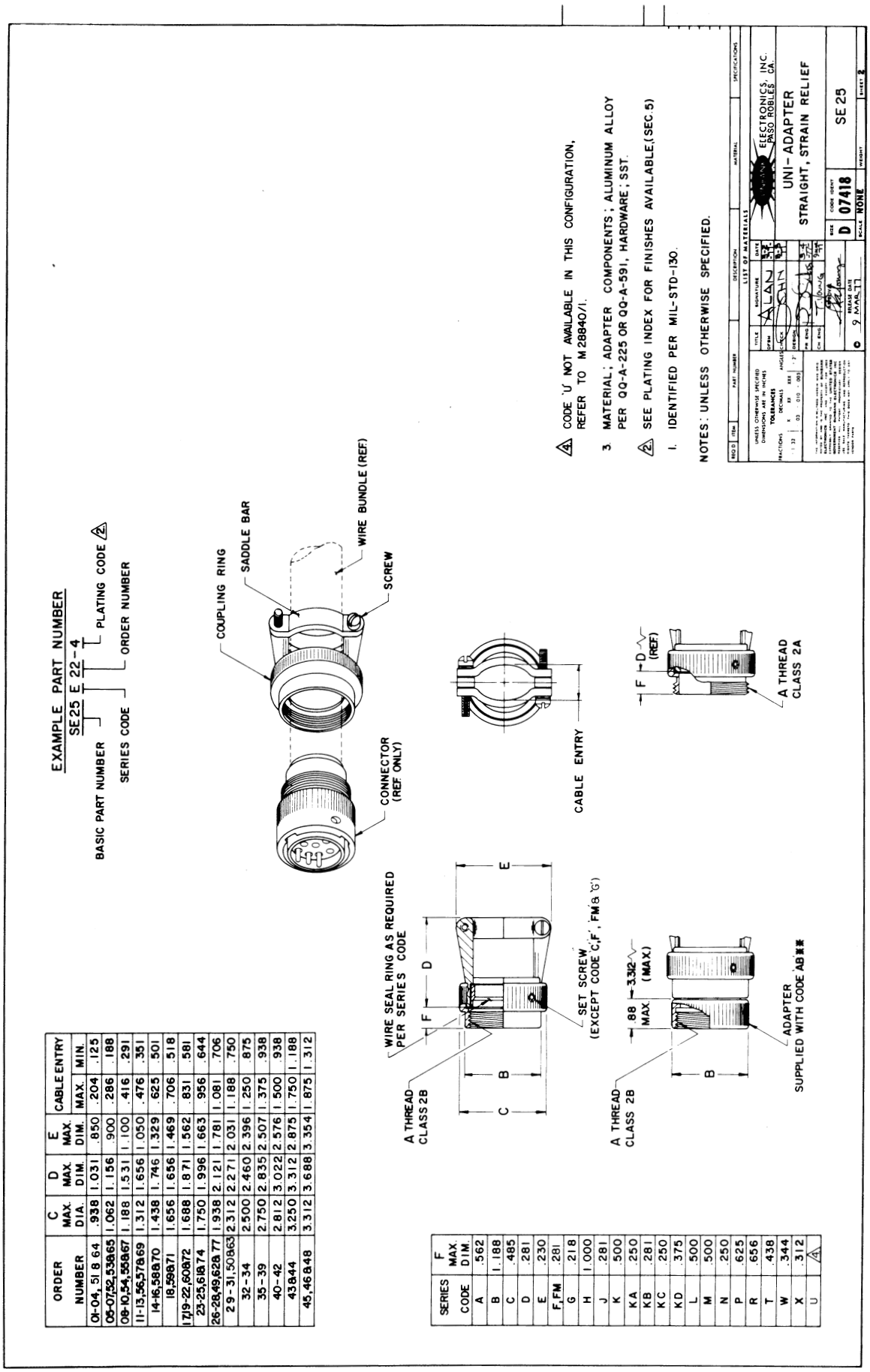
SERIES CODE	C MAX. DIM.
A	1.000
B	1.500
C	1.250
D	.750
E	1.125
F, FM	.750
G	1.000
H	1.500
J	.500
K	.500
KA	.375
KB	.375
KC	.312
KD	.500
L	.625
M	.625
N	.625
P	1.500
R	1.000
T	.750
W	.625
X	.750
U	.875



SERIES CODE	C MAX. DIM	D MAX. DIM.	F MAX. DIM.
A	.875	.969	1.344
B	.875	1.406	1.781
C	.781	1.094	1.469
D	.500	.812	1.188
E	.750	1.031	1.406
F,FM	.438	.781	1.156
G	.750	1.031	1.406
H	1.125	1.312	1.688
J	.625	.875	1.250
K	.781	.875	1.250
KA	.531	.875	1.250
KB	.562	.875	1.250
KC	.500	.875	1.250
KD	.656	.875	1.250
L	.781	.875	1.250
M	.781	.875	1.250
N	.375	.656	1.031
P	1.250	1.531	1.906
R	.781	.875	1.250
T	.656	.938	1.312
W	.500	1.312	1.688
X	.438	.781	1.156
U	.875	1.031	1.406

ENTRY SIZE	TUBE SIZE REF	MAX WIRE BUNDLE	E MAX. DIA	TWO-PIECE ADAPTER SUPPLIED ON ORDER NUMBERS
01	.188	.167	.781	01-06,52,64,65
02	.281	.251	.906	01-10,52,54,64,65867
03	.375	.335	1.031	01-12,52,54,56&64-67
04	.500	.447	1.156	01-15,52,54,56,58,&64-69
05	.625	.560	1.344	01-18,52,54,56,58,59&64-70
06	.750	.671	1.594	01-24,52,54,56,58,59,60&64-72
07	1.000	.895	1.906	01-29,52,54,56,58-62&64-77
08	1.250	1.118	2.156	01-33,49,50,52,54,56 &58-77
09	1.500	1.341	2.469	01-39,49,50,52,54,56,58-69
10	1.750	1.565	2.781	01-42,49,50,52,54,56,58-77

SE25



ORDER NUMBER	C MAX. DIA.	D MAX. DIM.	E MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
01-04, 51 8 64	.938	1.031	.850	.204	.125
05-07,52,53865	1.062	1.156	.900	.286	.188
08-10,54,55867	1.188	1.531	1.100	.416	.291
11-13,56,57869	1.312	1.656	1.050	.476	.351
14-16,58870	1.438	1.746	1.329	.625	.501
18,59871	1.656	1.656	1.469	.706	.518
17,19-22,60872	1.688	1.871	1.562	.831	.581
23-25,61874	1.750	1.996	1.663	.956	.644
26-28,49,62877	1.938	2.121	1.781	1.081	.706
29-31,50863	2.312	2.271	2.031	1.188	.750
32-34	2.500	2.460	2.396	1.250	.875
35-39	2.750	2.835	2.507	1.375	.938
40-42	2.812	3.022	2.576	1.500	.938
43844	3.250	3.312	2.875	1.750	1.188
45,46848	3.312	3.688	3.354	1.875	1.312

SERIES CODE	F MAX. DIM.
A	.562
B	1.188
C	.485
D	.281
E	.230
F,FM	.281
G	.218
H	1.000
J	.281
K	.500
KA	.250
KB	.281
KC	.250
KD	.375
L	.500
M	.500
N	.250
P	.625
R	.656
T	.438
W	.344
X	.312
U	(4)

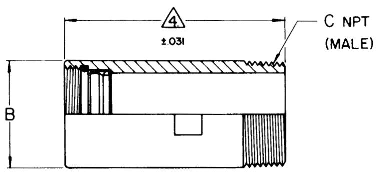
SE26

ENTRY SIZE	C NATIONAL PIPE THD.	D MAX. DIA.
0 1	.125 - 27	.531
0 2	.250 - 18	.656
0 3	.375 - 18	.906
0 4	.500 - 14	1.031
0 5	.750 - 14	1.281
0 6	1.000 - 11.5	1.531
0 7	1.250 - 11.5	1.781
0 8	1.500 - 11.5	2.156
0 9	2.000 - 11.5	2.531
1 0	2.500 - 8	3.281
1 1	3.000 - 8	3.906

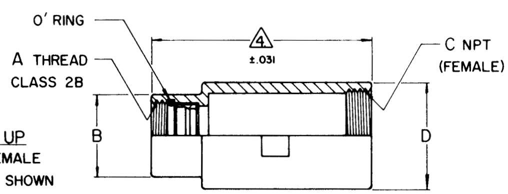
EXAMPLE PART NUMBER

SE26 E 22 06 M 2.5 - 4 S

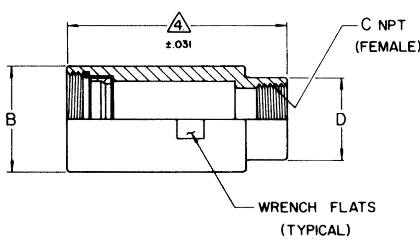
- BASIC PART NUMBER
- 7 SERIES CODE
- ORDER NUMBER
- ENTRY SIZE
- TYPE 6
- LENGTH IN INCHES 4
- PLATING CODE 2
- SILICONE 5



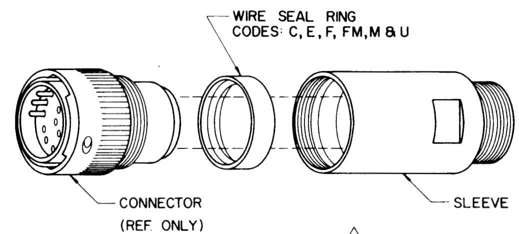
STRAIGHT
WITH MALE
THREADS SHOWN

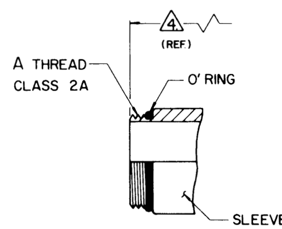


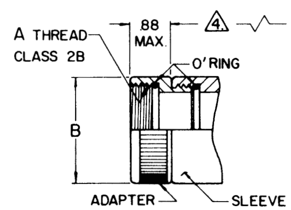
STEP - UP
WITH FEMALE
THREADS SHOWN



STEP - DOWN
WITH FEMALE
THREADS SHOWN







SUPPLIED WITH CODE AB✱✱

NOTES: UNLESS OTHERWISE SPECIFIED.

1. IDENTIFIED PER MIL-STD-130.
2. (2) SEE PLATING INDEX FOR FINISHES AVAILABLE (SEC. 5).
3. MATERIAL; ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, O'RINGS: STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 5) PER ZZ-R-765.
4. (4) LENGTH TO BE SPECIFIED BY CUSTOMER .5 INCREMENTS. (2.0 MINIMUM LENGTH).
5. (5) INSERT LETTER 'S' FOR SILICONE O'RINGS. (OMIT FOR STANDARD NEOPRENE.)
6. (6) CONDUIT TYPE: INSERT LETTER 'F' FOR FEMALE PIPE THREADS, LETTER 'M' FOR MALE.
7. (7) INSERT LETTER 'R' AFTER SERIES CODE DESIGNATOR TO OBTAIN SPIN COUPLING, AVAILABLE ON SERIES CODE 'C', 'F', 'FM', 'G' & 'U' ONLY. (SEE SEC. 5).

LIST OF MATERIALS

SUNBANK ELECTRONICS INC. PASO ROBLES, CA.

UNI - ADAPTER
FLEXIBLE CONDUIT OR PIPE

SIZE D | CODE IDENT 07418 | SE 26
SCALE NONE | WEIGHT | SHEET 2

DFSM D. LAVENDER
RELEASE DATE 21 NOV 1983

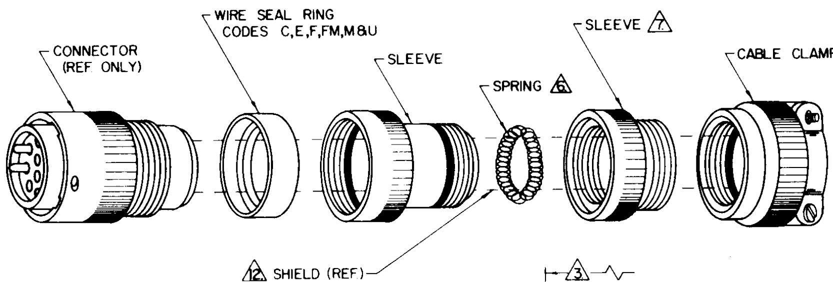
SERIES CODE	C MAX. DIM.
A	.875
B	.875
C	.781
D	.500
E	.750
F,FM	.438
G	.750
H	1.125
J	.375
K	.531
KA	.281
KB	.312
KC	.250
KD	.406
L	.531
M	.531
N	.375
P	1.250
R	.781
T	.656
W	.500
X	.438
U	.875

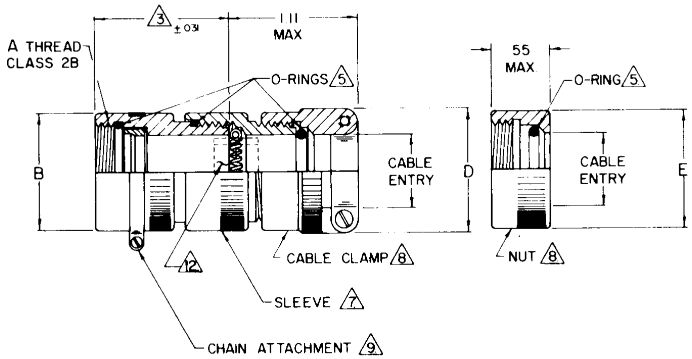
ENTRY SIZE	D MAX. DIA.	E MAX DIA.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
02	.840	.781	.250	.125
03	.965	.906	.375	.156
04	1.090	1.031	.500	.281
05	1.215	1.156	.625	.406
06	1.340	1.281	.750	.531
07	1.465	1.406	.875	.656
08	1.590	1.531	1.000	.781
09	1.715	1.656	1.125	.906
10	1.840	1.781	1.250	1.031
11	1.965	1.906	1.375	1.156
12	2.090	2.031	1.500	1.281

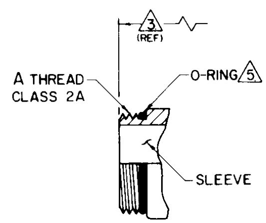
EXAMPLE PART NUMBER

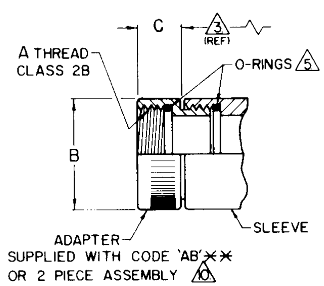
SE27 E 22 04 S C-3.5 C-4 N

- BASIC PART NUMBER
- ⚠11 SERIES CODE
- ORDER NUMBER
- ENTRY SIZE
- ⚠5 ⚠7 SILICONE
- ENTRY STYLE ⚠8
- LENGTH IN INCHES ⚠3
- ATTACHMENT ⚠9
- PLATING ⚠2
- NON-RFI ⚠6 ⚠7









⚠12 SE97-***-* GROUND SUPPORT RING (ORDERED SEPARATELY) IS RECOMMENDED FOR ALL RFI ASSEMBLIES AND WHEN SHIELD DIA. IS LESS THAN MINIMUM CABLE ENTRY, THEN A SHIELD SUPPORT RING MUST BE USED FOR SUFFICIENT GROUNDING. (REFER TO SUNBANK DWG. **SE97** FOR SUPPORT RING DATA).

⚠11 INSERT LETTER 'R' AFTER SERIES CODE DESIGNATOR TO OBTAIN SPIN COUPLING. AVAILABLE ON SERIES CODES C,F,FM,G&U ONLY (LIMITED SEAL ON F,FM). (SEE SEC. 5).

⚠10 WHEN ENTRY SIZE EXCEEDS CONNECTOR BARREL ID. TWO PIECE SLEEVE WILL BE SUPPLIED.

⚠9 INSERT LETTER 'C' FOR CHAIN ATTACHMENT. (OMIT IF NOT REQUIRED).

⚠8 INSERT LETTER 'C' FOR NUT (NO STRAIN RELIEF). (OMIT FOR STRAIN RELIEF CLAMP).

⚠7 WHEN LETTER 'N' FROM NOTES 5 OR 6 IS USED IN PART NUMBER THIS SLEEVE IS OMITTED.

⚠6 INSERT LETTER 'N' FOR NON-RFI. (SPRING NOT SUPPLIED ⚠7).

⚠5 INSERT LETTER 'S' FOR SILICONE ELASTOMERS. 'N' FOR NON-ENVIRONMENTAL. (O-RING NOT SUPPLIED ⚠7). (OMIT LETTER FOR STANDARD NEOPRENE).

4 MATERIAL; ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, SPRING & SCREWS: SST, ELASTOMERS: STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 5) PER ZZ-R-765.

⚠3 LENGTH TO BE SPECIFIED BY CUSTOMER, .5 INCREMENTS (2.0 INCH MINIMUM ORDER LENGTH CONSULT FACTORY FOR AVAILABILITY OF SHORTER LENGTHS.)

2. SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC.5).

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONS ±1/32; DECIMALS .X ±.03, .XX ±.010, .XXX ±.005; ANGLES ±2°

TITLE / SIGNATURE / DATE — DFSM: T.CARRUTHERS; CHECK; DESIGN; PR ENG; CH ENG

APPROVAL — RELEASE DATE 3-1-83

SUNBANK ELECTRONICS, INC. PASO ROBLES, CA

UNI-ADAPTER WITH RFI, ENVIRONMENTAL AND STRAIN RELIEF OPTIONS.

SIZE D — CODE IDENT 07418 — SE 27

SCALE NONE — WEIGHT ~ — SHEET 2 OF 2

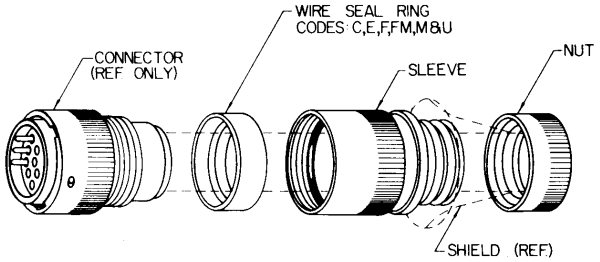
SELF-SEATING® PATENT NO. 5,435,760

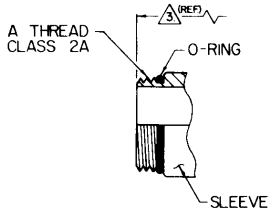
SELF-SEATING PATENT NO. 5,435,760

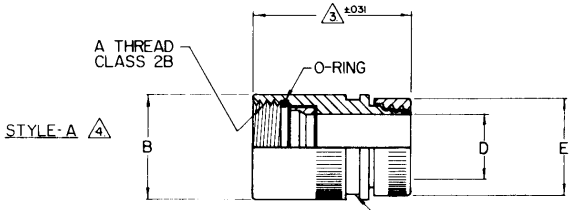
SERIES CODE	C MAX DIM
A	.875
B	.875
C	.781
D	.500
E	.750
F,FM	.438
G	.750
H	1.125
J	.375
K	.531
KA	.281
KB	.312
KC	.250
KD	.406
L	.531
M	.531
N	.375
P	1.250
R	.781
T	.656
W	.500
X	.438
U	.875

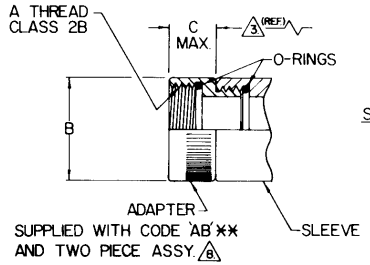
ENTRY SIZE	D +.002 -.000 DIA	E MAX DIA
02	.250	.531
03	.375	.688
04	.500	.781
05	.625	.938
06	.750	1.031
07	.875	1.156
08	1.000	1.281
09	1.125	1.469
10	1.250	1.531
11	1.375	1.688
12	1.500	1.781
13	1.625	1.938
14	1.750	2.031
15	1.875	2.156
16	2.000	2.281
17	2.125	2.469
18	2.250	2.531
19	2.375	2.688
20	2.500	2.781

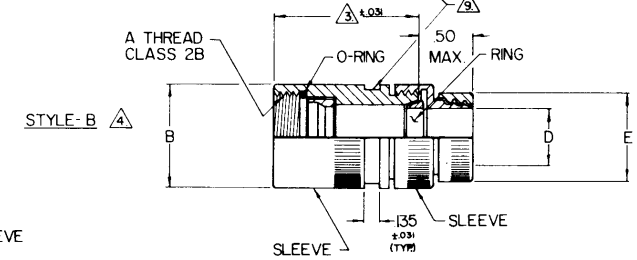
EXAMPLE PART NUMBER
SE28 E 15 04 A 1.5-4 E
BASIC PART NUMBER
7 SERIES CODE
ORDER NUMBER
ENTRY SIZE
STYLE 4
LENGTH IN INCHES 3
PLATING CODE 2
FUNCTION 5











9 THIS AREA DESIGNED TO MOUNT STANDARD MS 3109 OR MS 3117 HEAT SHRINKABLE BOOT.

8 WHEN ENTRY SIZE EXCEEDS CONNECTOR BARREL ID. A TWO PIECE SLEEVE WILL BE SUPPLIED.

7 INSERT LETTER 'R' AFTER SERIES CODE DESIGNATOR TO OBTAIN SPIN COUPLING, AVAILABLE ON SERIES CODE C,F,FM,G&U ONLY. (LIMITED SEAL ON F & FM). (SEE SEC 5).

6. MATERIAL; ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, ELASTOMERS: STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE. (SEE NOTE 5) PER ZZ-R-765.

5 INSERT LETTER 'E' FOR ENVIRONMENTAL ASSEMBLY, 'ES' FOR ENVIRONMENTAL ASSEMBLY WITH SILICONE ELASTOMERS. (OMIT LETTER IF NOT REQUIRED).

4 INSERT LETTER: 'A' FOR OVERALL SHIELDING
'B' FOR OVERALL & INDIVIDUAL SHIELDING.

3 LENGTH TO BE SPECIFIED BY CUSTOMER, .5 INCREMENTS (1.5 INCH MINIMUM ORDER LENGTH).

2 SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC 5).

1. IDENTIFIED PER MIL-STD-130.

NOTES UNLESS OTHERWISE SPECIFIED.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

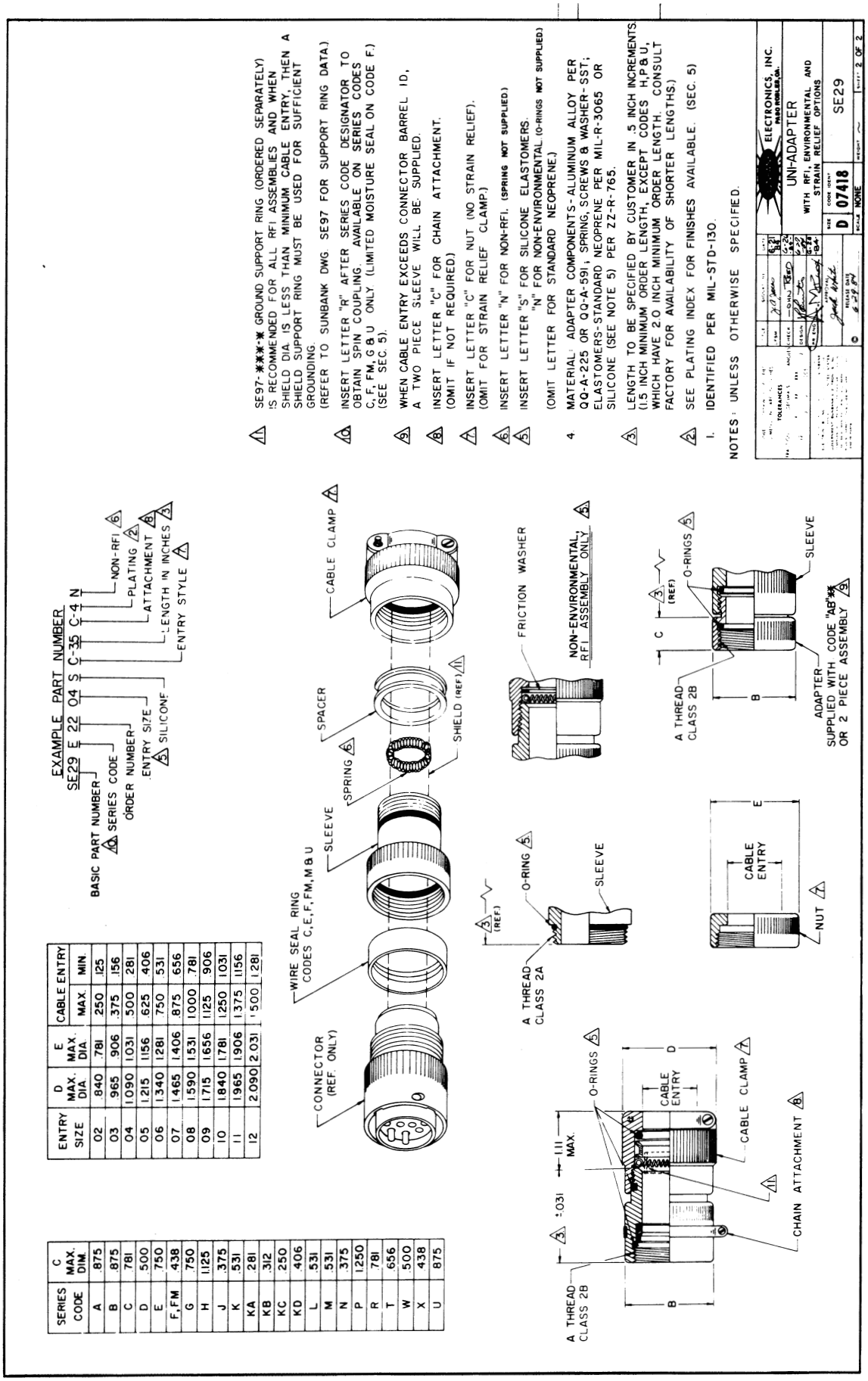
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS DECIMALS ANGLES
1/32 .X ±.03 .XX ±.010 .XXX ±.005 ±1°

	SIGNATURE	DATE
DRAWN	T. CARRUTHERS	11-18-82
CHECK		
DESIGN		
PROJ. ENG.		
CH. ENG.		
APPROVAL	Jack White	
RELEASE DATE	11-17-82	

ELECTRONICS, INC.
PASO ROBLES, CALIFORNIA

UNI-ADAPTER
RFI/EMI FOR
INDIVIDUAL AND/OR OVERALL SHIELDING

SIZE D | CODE IDENT 07418 | SE 28
SCALE NONE | WEIGHT ~ | SHEET 2 OF 2



SERIES CODE	C MAX. DIM.
A	.875
B	.875
C	.781
D	.500
E	.750
F,FM	.438
G	.750
H	1.125
J	.375
K	.531
KA	.281
KB	.312
KC	.250
KD	.406
L	.531
M	.531
N	.375
P	1.250
R	.781
T	.656
W	.500
X	.438
U	.875

ENTRY SIZE	D MAX. DIA	E MAX. DIA.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
02	.840	.781	.250	.125
03	.965	.906	.375	.156
04	1.090	1.031	.500	.281
05	1.215	1.156	.625	.406
06	1.340	1.281	.750	.531
07	1.465	1.406	.875	.656
08	1.590	1.531	1.000	.781
09	1.715	1.656	1.125	.906
10	1.840	1.781	1.250	1.031
11	1.965	1.906	1.375	1.156
12	2.090	2.031	1.500	1.281

⚠1 SE97-✱✱✱-✱ GROUND SUPPORT RING (ORDERED SEPARATELY) IS RECOMMENDED FOR ALL RFI ASSEMBLIES AND WHEN SHIELD DIA IS LESS THAN MINIMUM CABLE ENTRY, THEN A SHIELD SUPPORT RING MUST BE USED FOR SUFFICIENT GROUNDING. (REFER TO SUNBANK DWG SE97 FOR SUPPORT RING DATA.)

⚠6 INSERT LETTER "R" AFTER SERIES CODE DESIGNATOR TO OBTAIN SPIN COUPLING. AVAILABLE ON SERIES CODES C, F, FM, G & U ONLY (LIMITED MOISTURE SEAL ON CODE F.) (SEE SEC. 5).

⚠9 WHEN CABLE ENTRY EXCEEDS CONNECTOR BARREL ID, A TWO PIECE SLEEVE WILL BE SUPPLIED.

⚠8 INSERT LETTER "C" FOR CHAIN ATTACHMENT. (OMIT IF NOT REQUIRED)

⚠4 INSERT LETTER "C" FOR NUT (NO STRAIN RELIEF). (OMIT FOR STRAIN RELIEF CLAMP.)

⚠6 INSERT LETTER "N" FOR NON-RFI. (SPRING NOT SUPPLIED)

⚠5 INSERT LETTER "S" FOR SILICONE ELASTOMERS. "N" FOR NON-ENVIRONMENTAL (O-RINGS NOT SUPPLIED) (OMIT LETTER FOR STANDARD NEOPRENE.)

4 MATERIAL: ADAPTER COMPONENTS- ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, SPRING, SCREWS & WASHER- SST; ELASTOMERS-STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 5) PER ZZ-R-765.

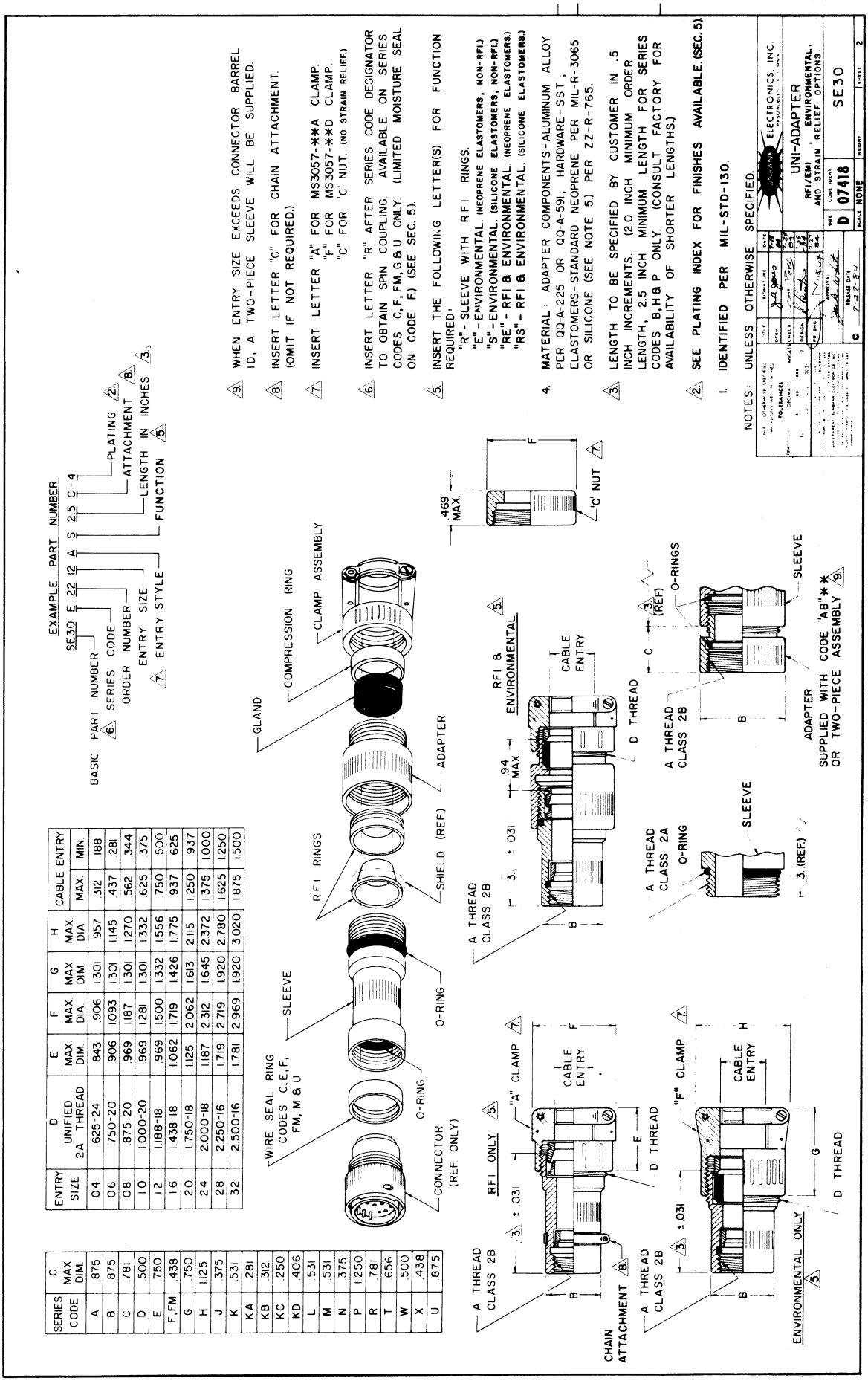
⚠3 LENGTH TO BE SPECIFIED BY CUSTOMER IN .5 INCH INCREMENTS (1.5 INCH MINIMUM ORDER LENGTH, EXCEPT CODES H,P & U, WHICH HAVE 2.0 INCH MINIMUM ORDER LENGTH. CONSULT FACTORY FOR AVAILABILITY OF SHORTER LENGTHS.)

⚠2 SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5)

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.

SE30



SERIES CODE	C MAX DIM
A	.875
B	.875
C	.781
D	.500
E	.750
F,FM	.438
G	.750
H	1.125
J	.375
K	.531
KA	.281
KB	.312
KC	.250
KD	.406
L	.531
M	.531
N	.375
P	1.250
R	.781
T	.656
W	.500
X	.438
U	.875

ENTRY SIZE	D UNIFIED 2A THREAD	E MAX. DIM.	F MAX. DIA	G MAX DIM	H MAX DIA	CABLE ENTRY MAX.	CABLE ENTRY MIN
04	.625-24	.843	.906	1.301	.957	.312	.188
06	.750-20	.906	1.093	1.301	1.145	.437	.281
08	.875-20	.969	1.187	1.301	1.270	.562	.344
10	1.000-20	.969	1.281	1.301	1.332	.625	.375
12	1.188-18	.969	1.500	1.332	1.556	.750	.500
16	1.438-18	1.062	1.719	1.426	1.775	.937	.625
20	1.750-18	1.125	2.062	1.613	2.115	1.250	.937
24	2.000-18	1.187	2.312	1.645	2.372	1.375	1.000
28	2.250-16	1.719	2.719	1.920	2.780	1.625	1.250
32	2.500-16	1.781	2.969	1.920	3.020	1.875	1.500

SECTION 2

90° Accessories

APPLICATION DATA

Drawing Number	Strain Relief	RFI/EMI Shield Type			Seal		Service		Other
		Overall	Indiv.	Armor	Moisture	Water tight	GSE/Ship	Air	
SB		X	X	X	X		X	X	Low Profile
SE50	X	X				X	X		
SE51	X	X	X	X		X	X		Isolated Indiv.
SE52	X	X	X			X	X		
SE53	X	X	X				X	X	
SE54	X	X					X	X	
SE55	X							X	
SE56	X	X				X	X		EMP Low Profile
SE57	X	X	X			X	X		Low Profile
SE58	X	X				X	X		Split Shell
SE59		X	X				X	X	Annular Tube
SE60		X	X				X	X	Helical Tube
SE61	X							X	
SE62		X			* X		X	X	*Shrink Boot
SE63	X	X				X	X		
SE64	X	X	X			X		X	

PRODUCT INDEX
SECTION 2 — 90° ACCESSORIES

DRAWING NUMBER		ASSEMBLY PROCEDURE REFERENCE
SB	RFI/EMI/EMP low profile adapter, environmental/non-environmental, with sunband shield termination system.	N/A
SE50	Standard Profile Adapter, with RFI/EMI Recessed Dual Ring Termination, Environmental and Strain Relief Options. (Overall shield terminating).	AP16
SE51	Armor Cable Adapter, Strain Relief, Environmental with RFI/EMI Options. (Armor braid, overall or individual shield terminating).	AP2
SE52	RFI/EMI Adapter, Standard Profile, with Internal Cone/Ring Termination, Environmental and Strain Relief Options. (Overall and/or individual shield terminating).	AP10
SE53	RFI/EMI Adapter, Split Shell, Low Profile, Two or Three Ring Termination, Non-environmental with Strain Relief Option. (Overall and/or individual shield terminating).	AP9
SE54	RFI/EMI Adapter, Split Shell, Low Profile, Single Ring Termination, Non-Environmental with Strain Relief Option. (Overall or individual shield terminating).	AP6
SE55	Strain Relief Adapter, Low Profile, Light Weight, Open Frame.	N/A
SE56	EMP, RFI/EMI Adapter, Low Profile, Repairable External Cone/Ring Termination, Strain Relief with Environmental Option. (Overall shield termination with maximum coverage).	AP7
SE57	RFI/EMI Adapter, Low Profile, Three Ring Termination with Environmental and Strain Relief Options. (Overall and/or individual shield terminating).	AP9
SE58	Split Shell, RFI, Environmental with Strain Relief.	AP28840
SE59	RFI, Split Shell, to Convoluted Tubing.	AP9
SE60	RFI, Split Shell, for Helical Convoluted Tubing.	AP9
SE61	Lace Tite Strain Relief.	N/A
SE62	Shrink Boot Adapter, Braid Pigtail Magnaformed to Rear, for use with Solder Ring or Mechanical Termination.	N/A
SE63	RFI/EMI and/or Environmental Adapter, Standard Profile, Dual Ring Recessed Termination, Strain Relief Option. (Overall shield termination).	AP16
SE64	RFI/EMI and/or Environmental Adapter, Low Profile, Spring Termination, Strain Relief Option. (Overall or individual shield termination).	AP27

CONNECTOR SHELL SIZE REFERENCE

ORDER NUMBER	A THREAD UNIFIED CLASS 2*	B MAX. DIA.	CODE A	CODE B	CODE C (5015, 26482, 83723, NAS 1599)	C 81703	CODE D	CODE E	CODE F SERIES 1	F SERIES 2	CODE FM	CODE G COM	G MIL	CODE H	CODE J	CODE K	CODE KA	CODE KB	CODE KC	CODE KD	CODE L	CODE M	CODE N	CODE P	CODE R	CODE T	CODE U	CODE W	CODE X	ORDER NUMBER
01	.375 - 32	.531	8S																8						8S				01
02	.438 - 27	.594	8S	8S																										02
03	.438 - 28	.594	8S				8	8	9	8														8S					8	03
04	.500 - 20	.656			8										9															04
05	.500 - 28	.656	10S	10S								8	A			3	3	3	10		8			10S	8S, 10S	10S				05
06	.562 - 24	.719	10S, 10SL			3	10	10	11	10														10SL				10	10	06
07	.625 - 24	.781	10SL, 12.12S	10SL	10											7	7	7			10	8		12. 12S	10SL 12.12S	10SL 12.12S				07
08	.625 - 28	.688										10	B																	08
09	.688 - 24	.844	12, 12S	12, 12S				12	13	12					12													12	12	09
10	.750 - 20	.906	14, 14S	14, 14S	12	7	12							12		12	12	12	14		12	10		14. 14S	14. 14S	14. 14S	11 (A)			10
11	.750 - 28	.812																												11
12	.812 - 20	.969					14	14	15	14					15													14	14	12
13	.875 - 20	1.031	16, 16S	16. 16S	14	12								14		19	19	19	16		14	12		16. 16S	16. 16S	16. 16S	13 (B)			13
14	.875 - 28	.938										14	D																	14
15	.938 - 20	1.094					16	16	17	16																		16	16	15
16	1.000 - 20	1.156	18	18	16	19								16		27	27	27	18	18	16	14		18	18	18	15 (C)			16
17	1.000 - 28	1.062										16	E		18															17
18	1.062 - 18	1.219			18	27	18	18	19	18																		18	18	18
19	1.125 - 18	1.281	20											18						20	18	16		20		20	17 (D)			19
20	1.125 - 24	1.281	20	20																										20
21	1.125 - 28	1.188										18	F																	21
22	1.188 - 18	1.344			20	37	20	20	21	20						37		37							20, 22			20	20	22
23	1.250 - 18	1.406	22	22										20						22	20	18		22		22	19 (E)			23
24	1.250 - 28	1.312										20	G																	24
25	1.312 - 18	1.469			22		22	22	23	22																		22	22	25
26	1.375 - 18	1.531	24	24										22						24	22	20		24		24				26
27	1.375 - 28	1.438										22	H																	27
28	1.438 - 18	1.594			24		24	24	25	24															24, 28		23 (F)	24	24	28
29	1.500 - 28	1.562										24	J																	29
30	1.625 - 18	1.781	28	28										24								24		28		28				30
31	1.750 - 18	1.969			28																				32					31
32	1.875 - 16	2.031	32											28										32		32	29 (H)			32
33	1.906 - 18	2.062	32	32																										33
34	2.000 - 18	2.219			32																				36					34
35	2.062 - 16	2.219	36											32													33 (J)			35
36	2.125 - 18	2.281	36																											36
37	2.125 - 16	2.281	36																					36		36				37
38	2.062 - 20	2.219		36																										38
39	2.250 - 16	2.469			36																				40					39
40	2.312 - 16	2.469	40											36																40
41	2.375 - 16	2.531	40																					40		40				41
42	2.500 - 16	2.719			40																				44					42
43	2.625 - 16	2.781	44											40																43
44	2.750 - 16	2.969			44																									44
45	2.812 - 18	2.969	48																											45
46	3.000 - 16	3.219			48																				48					46
47	3.125 - 16	3.312												48																47
48	2.875 - 16	3.031	48											44																48
49	1.500 - 18	1.688				61										61		61			24	22								49
50	1.562 - 18	1.719																									25 (G)			50
51	.530 - 24	N / A																		10										51
52	.563 - 36	.718																					10							52
53	.650 - 24	N / A																		12										53
54	.733 - 36	.889																					12							54
55	.781 - 24	N / A																		14										55
56	.803 - 36	.968																					14							56
57	.906 - 24	N / A																		16										57
58	.930 - 36	1.094																					16							58
59	1.036 - 36	1.188																					18							59
60	1.161 - 36	1.312																					20							60
61	1.286 - 36	1.438																					22							61
62	1.411 - 36	1.562																					24							62
63	1.661 - 36	1.812																					28							63
64	M12 X 1.0-6H	.656									9/A																			64
65	M15 X 1.0-6H	.781									11/B																			65
67	M18 X 1.0-6H	.897									13/C																			67
69	M22 X 1.0-6H	1.054									15/D																			69
70	M25 X 1.0-6H	1.172									17/E																			70
71	M28 X 1.0-6H	1.290									19/F																			71
72	M31 X 1.0-6H	1.406									21/G																			72
74	M34 X 1.0-6H	1.531									23/H																			74
77	M37 X 1.0-6H	1.645									25/J																			77

SERIES CODE	CONNECTOR SERIES DESCRIPTION
	SEE CROSS REFERENCE CHART, SECTION 5. FOR ADDITIONAL INFORMATION CONSULT FACTORY FOR CONNECTORS NOT LISTED
**A	MIL-C-5015 'D', MS 3100, MS 3101, MS 3106. CLASS A , E & R RESILIENT INSERT, SOLDER TYPE & BENDIX 10-214, CANNON CA-RX COMMERCIAL CRIMP TYPE
B	AMPHENOL '69' SERIES, 246-3100, 01. 06 CRIMP TYPE
C	MIL-C-5015 'G', MIL-C-26482 SERIES 2, MS 3400, MS 3401, MS 3404, MS 3406, MS 3450, MS 3451, MS 3454, MS 3456, MS 3470, MS 3471, MS 3472, MS 3474, MS 3475, MS 3476, CLASS D, E, K, L, U & W, MIL-C-83723 SERIES 1 & 3, MIL-C-81703 & NAS 1599
D	MIL-C-26500, MIL-C-38300 ALUMINUM SHELL, MS 24264, MS 24265, MS 24266, CLASS F, G & R
E	MIL-C- 26482 SERIES 1, MS 3110, MS 3116, MS 3120, MS3126, CLASS E, F & P
F	MIL-C-38999 SERIES 1 & 2, MS 27466, MS 27468, MS 27472, MS 27473, MS 27474, MS 27479, MS 27480, MS 27481, MS 27484, MS 27656, CLASS E & T
FM	MIL-C-38999, SERIES 3 & 4, DOD-C-38999 / 20, 24, 26, 40, 44, 46 & 47 CLASS C, F, K & W ('A' THREAD IS METRIC) (/44 N/A ON SPIN COUPLING)
G	MIL-C-81511 SEREIS 1, 2, 3 & 4, AMPHENOL OR CINCH 348 & DEUTSCH *815, CLASS F & W
H	MIL-C-22992, MS 17343, MS 17344, MS 17345, MS 17346, MS17347, MS 17348. CLASS J & R ('A' THREAD IS LEFT HAND)
J	MICRODOT, MARC 43, 53 & 63 SEREIS
K	DEUTSCH DM(14000) MS 3132, MS 3134, MS 3137 & MS 3138
KA	DEUTSCH DSM(120, 32000), RSM(UR20, 23000), RMK & SMK
KB	DEUTSCH DA(19000, DS(17000), DD(12000), MS 3140, MS 3144, MS 3147, MS 3148, MDR(13000), MDS(750, 17000)
KC	DEUTSCH RTK(UR40, 74000), STK(340, 4200)
KD	DEUTSCH DTK
L	BENDIX JT00RE, MS 0027497 CLASS V
M	BENDIX PC-PT 07, MS 3124, MS 3114
N	MIL-C-26500 STAINLESS STEEL, MIL-C-38300, MS 24264, MS 24265, MS 24266, MS 27613, MS 27614, MS 27615, CLASS E
P	MIL-C-83723 SERIES 2, M83723 / 17, 18, 19, 20, 23 & 24
R	MIL-C-5015, MS 3107, MS 3108, MIL-C-26482, MS 'V' THREAD GENERAL DUTY 'A' ENDBELL
T	MIL-C-5015 REV. 'E'
U	MIL-C-28840, M28840 / 10, 11, 14 & 16 CLASS A, B, C & E
W	BURNDY 'G' SERIES, TRIM TRIO, G0, G1, G6, G8 & G9
X	BENDIX SJT00RT, SJT06RT, SJTG06RT

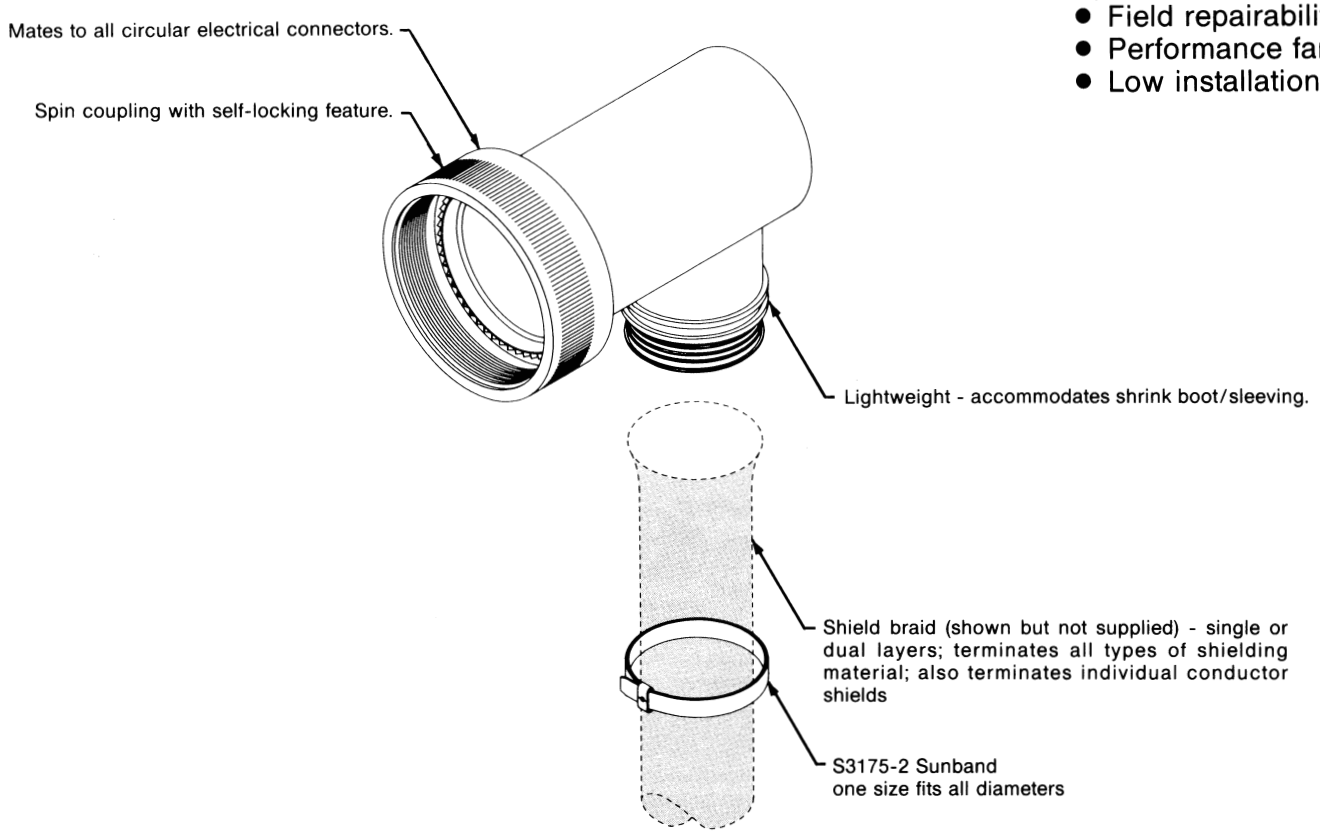
**NOTE, ON SERIES CODE 'A' SOME SHELL SIZE TO ORDER NUMBERS ARE DUPLICATED. USE THE FOLLOWING ORDER NUMBER TO SHELL SIZE WHEN CONNECTOR MANUFACTURER IS KNOWN;
AMPHENOL; 02 FOR 8S, 07-10SL, 09-12 & 12S, 19-20 CLASS A, 20-20 CLASS E & R, 33-32, 36-36 (38-36 CODE 'B') & 48-48.
BENDIX; 01 FOR 8S, 07-10SL, 12 & 12S, 19-20, 32-32, 35-36 & 40-40.
CANNON; 03 FOR 8S, 06-10SL, 07-12 & 12S, 19-20, 32-32, 37-36, 41-40 & 45-48.

USE SERIES CODE 'AB' WHEN MANUFACTURER IS UNKNOWN. ADDITIONAL ADAPTERS WILL BE SUPPLIED. DESIGNATE ORDER NUMBER; 03 FOR SHELL SIZE 8S, 05-10S, 07-10SL, 09-12 & 12S, 19-2O, 32-32, 37-36 & 40-40 (IE; SE**AB07 . . . PART TO FIT ANY MANUFACTURER OF SHELL SIZE 10SL FOR CODE 'A')

* THREAD CLASS 2B (INTERNAL), CODES A, B, C, D, E, F, FM, G, H, N, P, R, T, W, X & U
THREAD CLASS 2A (EXTERNAL), CODES J, K, KA, KB, KC, KD, L & M (B MAX. DIA. IS NOT APPLICABLE)
CAUTION: CLASS 2A TYPE ADAPTERS REQUIRE ADDITIONAL SUPPORT WHEN ENVELOPE EXCEEDS 2 INCHES IN LENGTH OR DIAMETER.
O'RINGS SUPPLIED WITH ENVIRONMENTAL ASSEMBLIES ONLY.

ECO 10-01-15452 REVISED: JANUARY 1994

Special features of STS products are:
- Field repairability (re-enterable)
- Performance far exceeds MIL-C-85049
- Low installation labor cost



Typical part number: SB03B6A6704W2
See Sunbank **STS SUNBAND SHIELD TERMINATION SYSTEM** catalog for more information

SUNBANK ELECTRONICS, INC. Paso Robles, California

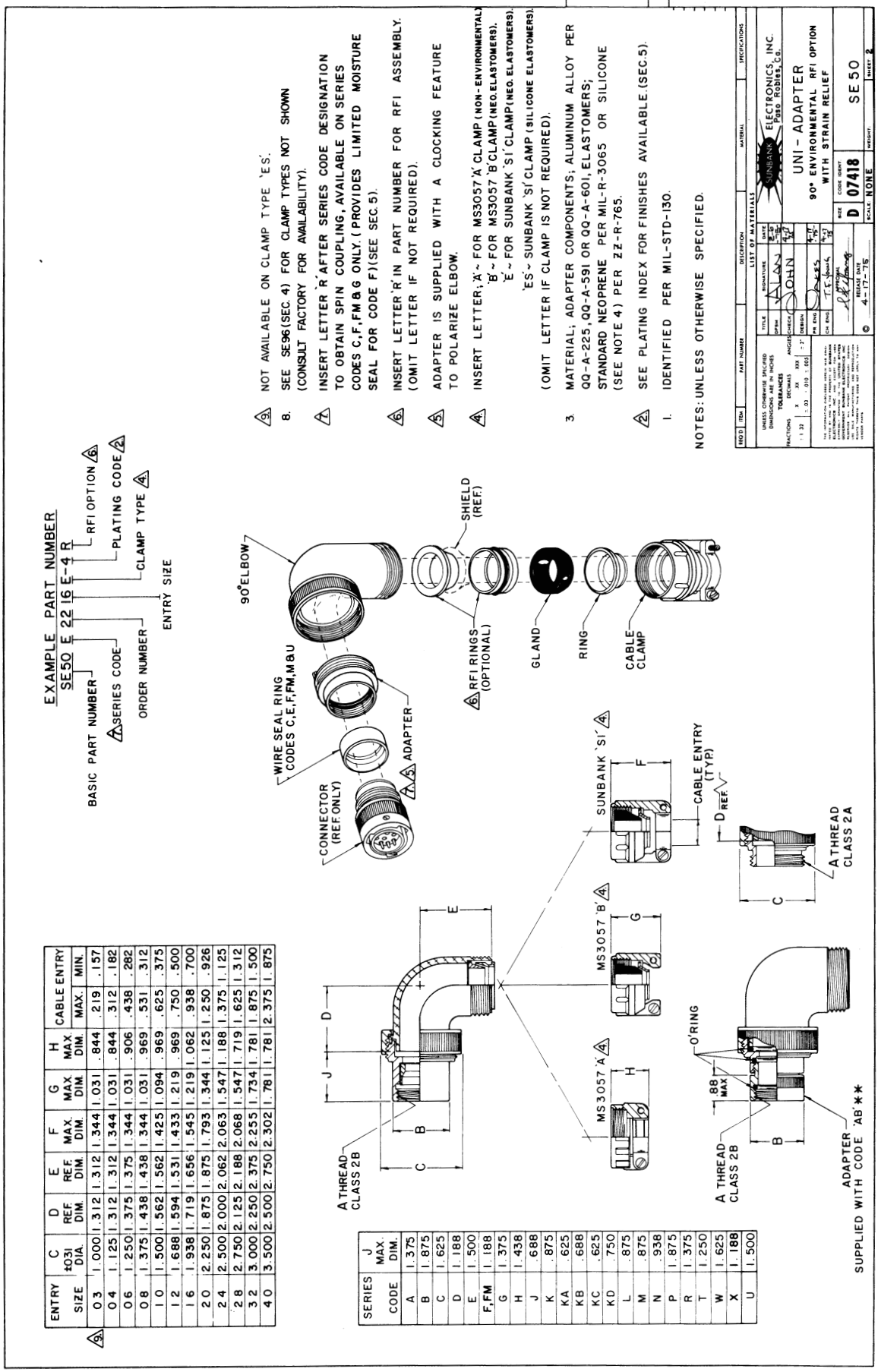
SUNBAND TERMINATION ACCESSORY IN A 90° CONFIGURATION

SIZE	CODE IDENT.	
C	07418	SB

SCALE: N.T.S. WEIGHT: SHEET: 1 of 1

SB03B6A6704W2

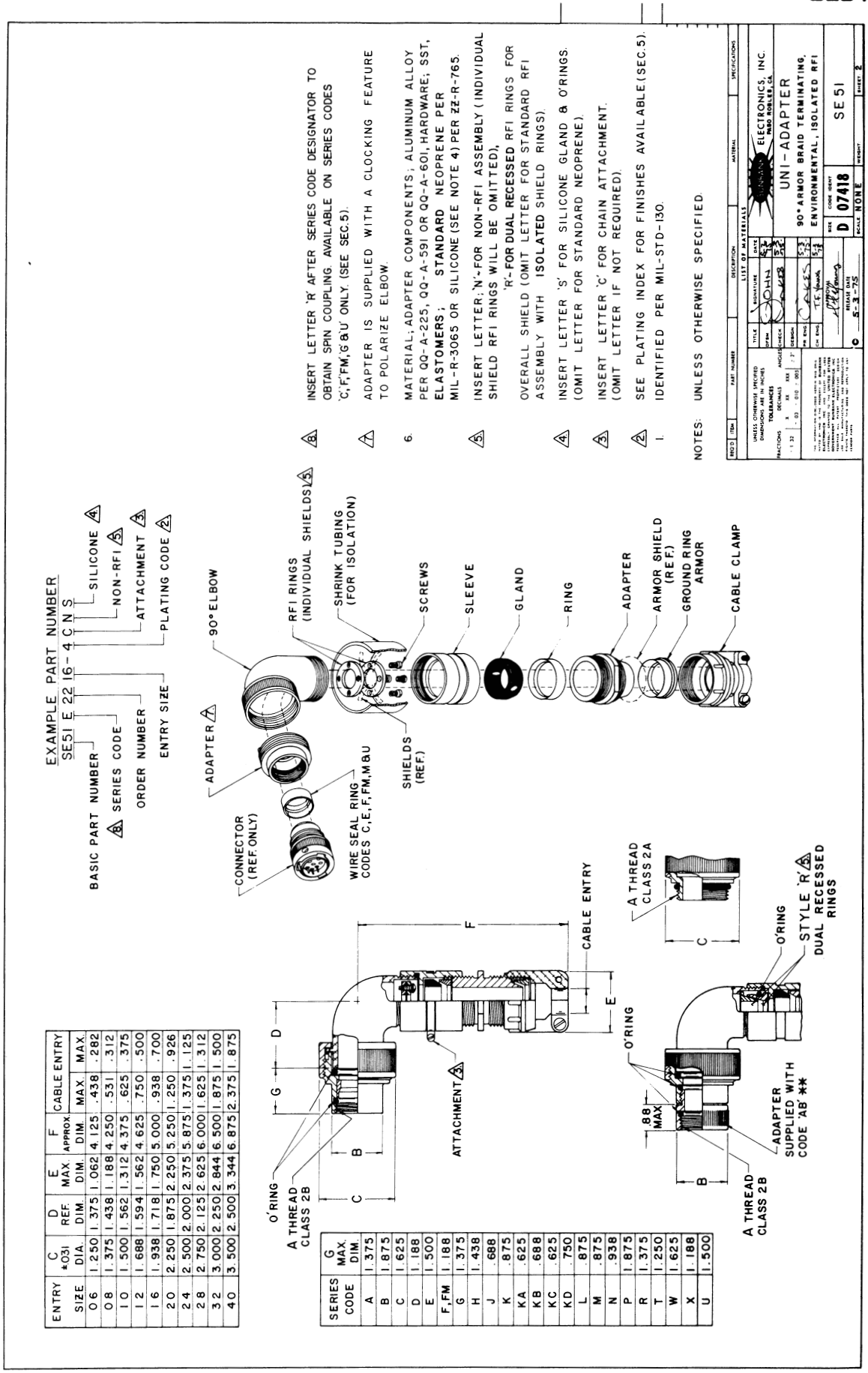
SE50



ENTRY SIZE	C ±.031 DIA.	D REF. DIM.	E REF. DIM.	F MAX. DIM.	G MAX. DIM.	H MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
03	1.000	.312	.312	.344	.031	.844	.219	.157
04	1.125	1.312	1.312	1.344	1.031	.844	.312	.182
06	1.250	1.375	1.375	1.344	1.031	.906	.438	.282
08	1.375	1.438	1.438	1.344	1.031	.969	.531	.312
10	1.500	1.562	1.562	1.425	1.094	.969	.625	.375
12	1.688	1.594	1.531	1.433	1.219	.969	.750	.500
16	1.938	1.719	1.656	1.545	1.219	1.062	.938	.700
20	2.250	1.875	1.875	1.793	1.344	1.125	1.250	.926
24	2.500	2.000	2.062	2.063	1.547	1.188	1.375	1.125
28	2.750	2.125	2.188	2.068	1.547	1.719	1.625	1.312
32	3.000	2.250	2.375	2.255	1.734	1.781	1.875	1.500
40	3.500	2.500	2.750	2.302	1.781	1.781	2.375	1.875

SERIES CODE	J MAX. DIM.
A	1.375
B	1.875
C	1.625
D	1.188
E	1.500
F,FM	1.188
G	1.375
H	1.438
J	.688
K	.875
KA	.625
KB	.688
KC	.625
KD	.750
L	.875
M	.875
N	.938
P	1.875
R	1.375
T	1.250
W	1.625
X	1.188
U	1.500

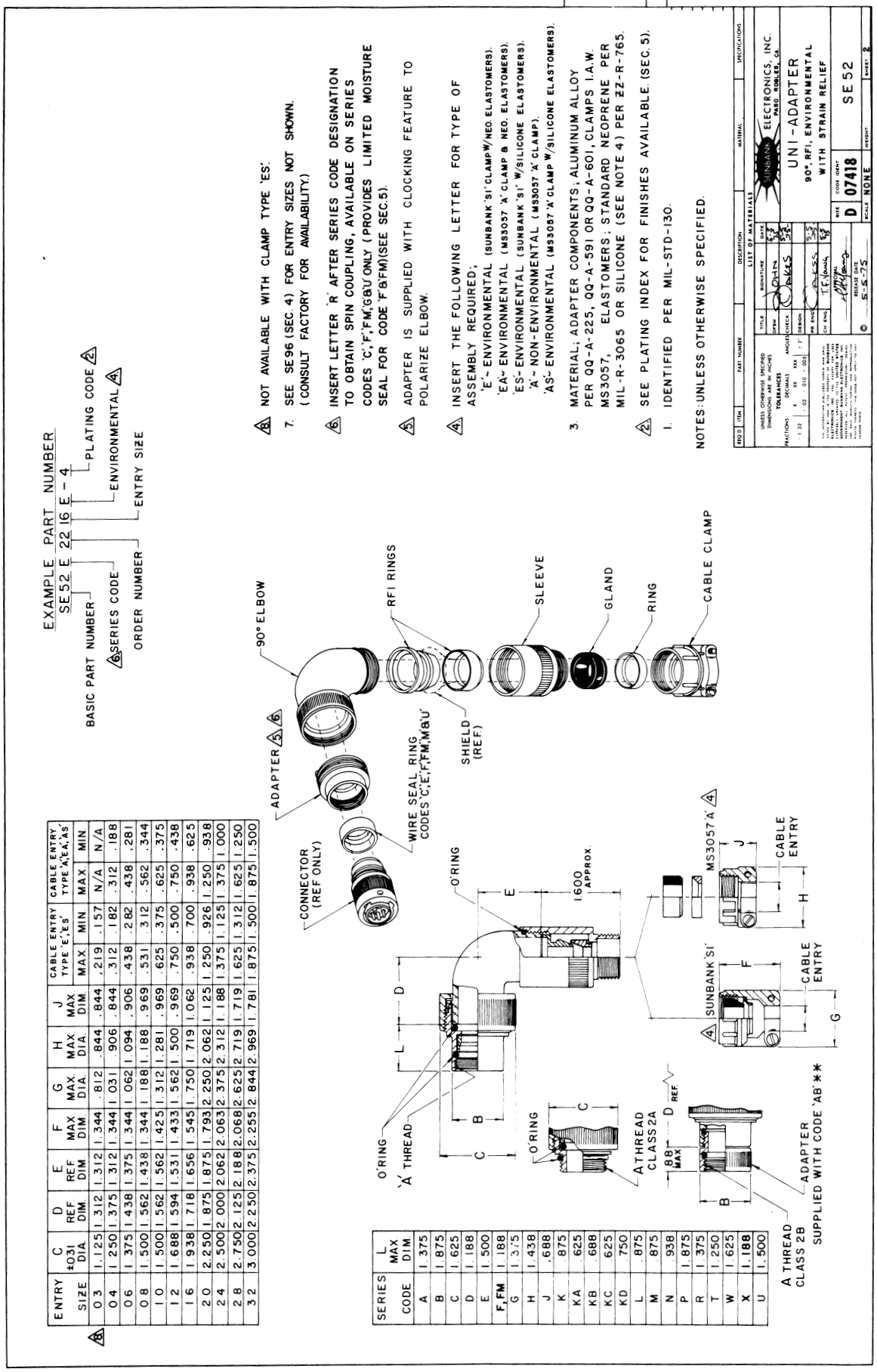
SE51



ENTRY SIZE	C ±.031 DIA.	D REF. DIM.	E MAX. DIM.	F APPROX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MAX.
06	1.250	1.375	1.062	4.125	.438	.282
08	1.375	1.438	1.188	4.250	.531	.312
10	1.500	1.562	1.312	4.375	.625	.375
12	1.688	1.594	1.562	4.625	.750	.500
16	1.938	1.718	1.750	5.000	.938	.700
20	2.250	1.875	2.250	5.250	1.250	.926
24	2.500	2.000	2.375	5.875	1.375	1.125
28	2.750	2.125	2.625	6.000	1.625	1.312
32	3.000	2.250	2.844	6.500	1.875	1.500
40	3.500	2.500	3.344	6.875	2.375	1.875

SERIES CODE	G MAX. DIM.
A	1.375
B	1.875
C	1.625
D	1.188
E	1.500
F,FM	1.188
G	1.375
H	1.438
J	.688
K	.875
KA	.625
KB	.688
KC	.625
KD	.750
L	.875
M	.875
N	.938
P	1.875
R	1.375
T	1.250
W	1.625
X	1.188
U	1.500

SE52



ENTRY SIZE	C ±.031 DIA.	D REF. DIM.	E REF. DIM	F MAX. DIM	G MAX. DIA.	H MAX. DIA.	J MAX. DIM.	CABLE ENTRY TYPE 'E', 'ES' MAX.	CABLE ENTRY TYPE 'E', 'ES' MIN	CABLE ENTRY TYPE 'A', 'EA', 'AS' MAX.	CABLE ENTRY TYPE 'A', 'EA', 'AS' MIN
03	1.125	1.312	1.312	1.344	.812	.844	.844	.219	.157	N/A	N/A
04	1.250	1.375	1.312	1.344	1.031	.906	.844	.312	.182	.312	.188
06	1.375	1.438	1.375	1.344	1.062	1.094	.906	.438	.282	.438	.281
08	1.500	1.562	1.438	1.344	1.188	1.188	.969	.531	.312	.562	.344
10	1.500	1.562	1.562	1.425	1.312	1.281	.969	.625	.375	.625	.375
12	1.688	1.594	1.531	1.433	1.562	1.500	.969	.750	.500	.750	.438
16	1.938	1.718	1.656	1.545	1.750	1.719	1.062	.938	.700	.938	.625
20	2.250	1.875	1.875	1.793	2.250	2.062	1.125	1.250	.926	1.250	.938
24	2.500	2.000	2.062	2.063	2.375	2.312	1.188	1.375	1.125	1.375	1.000
28	2.750	2.125	2.188	2.068	2.625	2.719	1.719	1.625	1.312	1.625	1.250
32	3.000	2.250	2.375	2.255	2.844	2.969	1.781	1.875	1.500	1.875	1.500

SERIES CODE	L MAX DIM
A	1.375
B	1.875
C	1.625
D	1.188
E	1.500
F, FM	1.188
G	1.375
H	1.438
J	.688
K	.875
KA	.625
KB	.688
KC	.625
KD	.750
L	.875
M	.875
N	.938
P	1.875
R	1.375
T	1.250
W	1.625
X	1.188
U	1.500

SE53

EXAMPLE PART NUMBER
SE53 E 22 12 A 4 C R
BASIC PART NUMBER
SERIES CODE
ORDER NUMBER
ENTRY SIZE
CLAMP TYPE 4
PLATING CODE 2
ATTACHMENT 7
DUAL TERMINATION 6

7 INSERT LETTER 'C' FOR CHAIN ATTACHMENT (OMIT IF NOT REQUIRED.) CONSULT FACTORY FOR AVAILABILITY.

6 INSERT LETTER 'R' FOR 3 RING DUAL TERMINATION FOR INDIVIDUAL *AND* OVERALL SHIELDS. (OMIT 'R' FOR STANDARD 2 RING TERMINATION FOR INDIVIDUAL *OR* OVERALL SHIELD).

5 CONSULT FACTORY FOR AVAILABILITY OF ORDER NUMBERS 32 THRU 48.

4 INSERT LETTER 'A' ~ FOR MS3057 'A' CLAMP.
'C' ~ FOR 'C' NUT (NO STRAIN RELIEF)
'F' ~ FOR MS3057 'D' CLAMP

3. MATERIAL; ADAPTER COMPONENTS ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591.

2 SEE PLATING INDEX FOR FINISHES AVAILABLE (SEC.5)

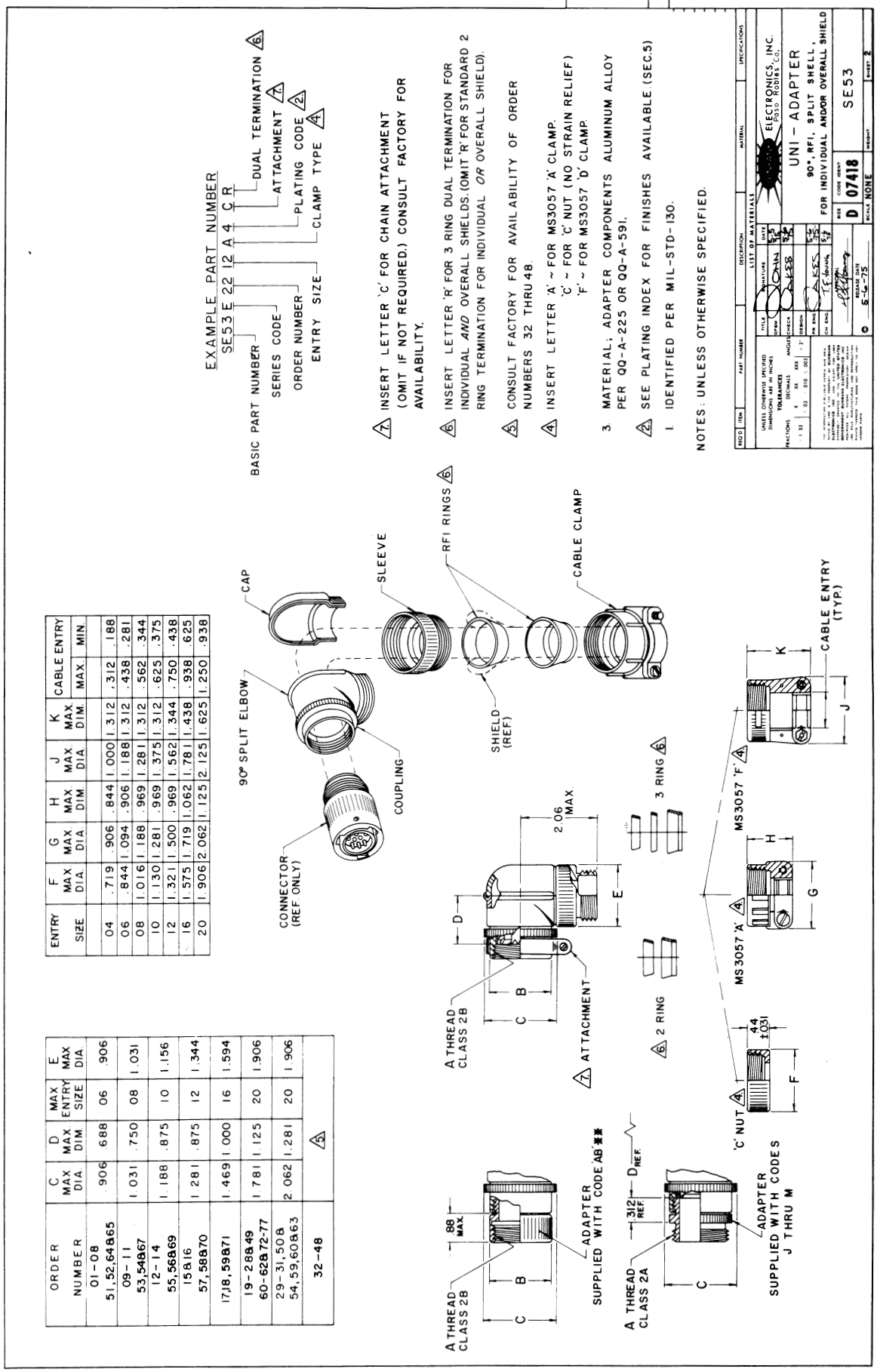
1. IDENTIFIED PER MIL-STD-130.

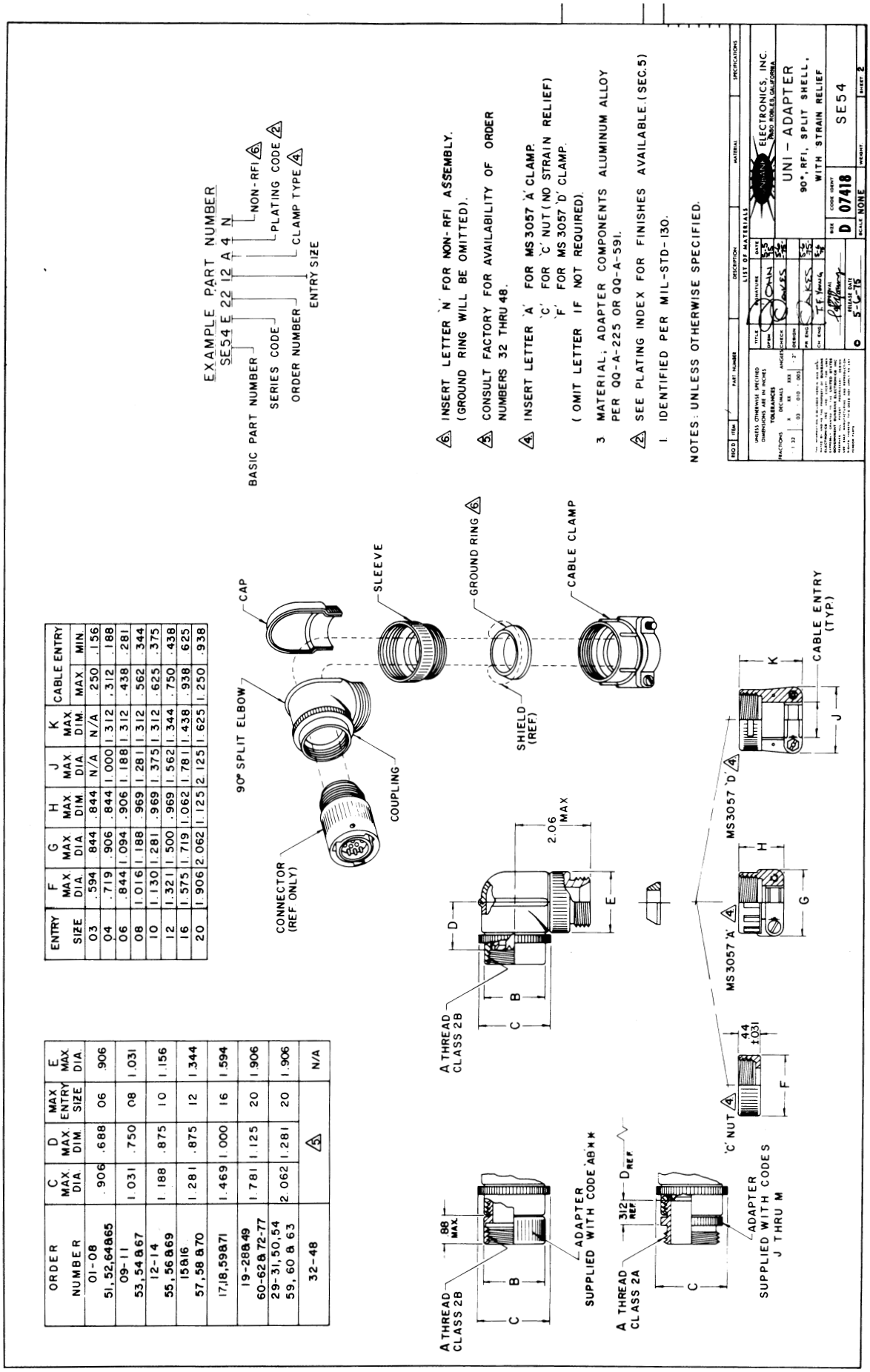
NOTES: UNLESS OTHERWISE SPECIFIED.

ELECTRONICS, INC. POSO ROBLES CO.
UNI – ADAPTER
90°, RFI, SPLIT SHELL, FOR INDIVIDUAL AND/OR OVERALL SHIELD
SIZE D | CODE IDENT 07418 | SE53
SCALE NONE | WEIGHT | SHEET 2
REVISED 5-6-75

ENTRY SIZE	F MAX DIA	G MAX DIA	H MAX DIM	J MAX DIA	K MAX DIM	CABLE ENTRY MAX.	CABLE ENTRY MIN.
04	.719	.906	.844	1.000	1.312	.312	.188
06	.844	1.094	.906	1.188	1.312	.438	.281
08	1.016	1.188	.969	1.281	1.312	.562	.344
10	1.130	1.281	.969	1.375	1.312	.625	.375
12	1.321	1.500	.969	1.562	1.344	.750	.438
16	1.575	1.719	1.062	1.781	1.438	.938	.625
20	1.906	2.062	1.125	2.125	1.625	1.250	.938

ORDER NUMBER	C MAX DIA	D MAX DIM	MAX ENTRY SIZE	E MAX DIA
01-08 51,52,64865	.906	.688	06	.906
09-11 53,54867	1.031	.750	08	1.031
12-14 55,56869	1.188	.875	10	1.156
15816 57,58870	1.281	.875	12	1.344
17,18,59871	1.469	1.000	16	1.594
19-28849 60-62872-77	1.781	1.125	20	1.906
29-31,508 54,59,60863	2.062	1.281	20	1.906
32-48		5		





ENTRY SIZE	F MAX DIA.	G MAX DIA	H MAX DIM.	J MAX DIA	K MAX DIM.	CABLE ENTRY MAX	CABLE ENTRY MIN.
03	.594	.844	.844	N/A	N/A	.250	.156
04	.719	.906	.844	1.000	1.312	.312	.188
06	.844	1.094	.906	1.188	1.312	.438	.281
08	1.016	1.188	.969	1.281	1.312	.562	.344
10	1.130	1.281	.969	1.375	1.312	.625	.375
12	1.321	1.500	.969	1.562	1.344	.750	.438
16	1.575	1.719	1.062	1.781	1.438	.938	.625
20	1.906	2.062	1.125	2.125	1.625	1.250	.938

ORDER NUMBER	C MAX DIA	D MAX DIM	MAX ENTRY SIZE	E MAX DIA.
01-08	.906	.688	06	.906
51, 52, 64 & 65				
09-11	1.031	.750	08	1.031
53, 54 & 67				
12-14	1.188	.875	10	1.156
55, 56 & 69				
15 & 16	1.281	.875	12	1.344
57, 58 & 70				
17, 18, 59 & 71	1.469	1.000	16	1.594
19-28 & 49	1.781	1.125	20	1.906
60-62 & 72-77				
29-31, 50, 54	2.062	1.281	20	1.906
59, 60 & 63				
32-48		5		N/A

SE55

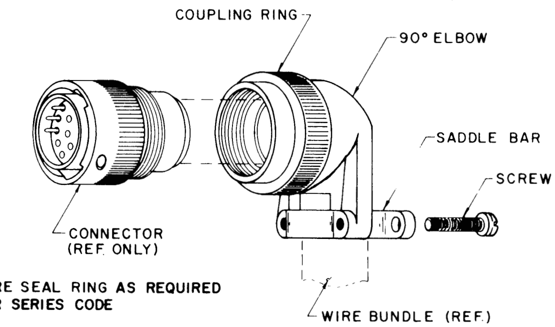
ORDER NUMBER	C MAX. DIA.	D MAX. DIM.	E MAX. DIM.	F MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
01-03 & 64	.938	1.000	.828	.808	.190	.090
04	.938	.796	.762	.808	.204	.125
06,51,52&65	1.062	1.035	.844	.867	.320	.230
05	1.062	1.340	.844	.867	.286	.188
07,09,53&67	1.188	1.071	1.062	.926	.390	.270
08,10,11 & 54	1.188	1.637	1.125	.926	.416	.291
12,55,56&69	1.312	1.131	1.156	.992	.420	.320
13	1.312	1.682	1.219	1.056	.476	.351
15,57,58&70	1.438	1.281	1.329	1.056	.540	.460
14&16	1.438	1.658	1.406	1.056	.625	.501
18,59&71	1.656	1.469	1.461	1.233	.706	.518
17,19-22,60&72	1.688	1.783	1.562	1.296	.837	.581
23-25,61&74	1.750	1.838	1.663	1.358	.956	.644
26-28,49,62&77	1.938	1.911	1.812	1.420	1.081	.706
29-33, 50&63	2.312	2.052	2.031	1.634	1.188	.750
32-34	2.500	2.084	2.396	1.859	1.250	.875
35-39	2.750	2.146	2.507	1.984	1.375	.938
40-42	2.719	2.323	2.576	2.109	1.500	.938
43-44	2.969	2.469	2.875	2.358	1.750	1.188
45,46,48	3.219	2.594	3.354	2.483	1.875	1.312

SERIES CODE	G MAX. DIM.
A	.562
B	1.188
C	.485
D	.281
E	.230
F,FM	.281
G	.218
H	1.000
J	.281
K	.500
KA	.250
KB	.281
KC	.250
KD	.375
L	.500
M	.500
N	.250
P	.625
R	.656
T	.438
W	.344
X	.312
U	5 (triangle)

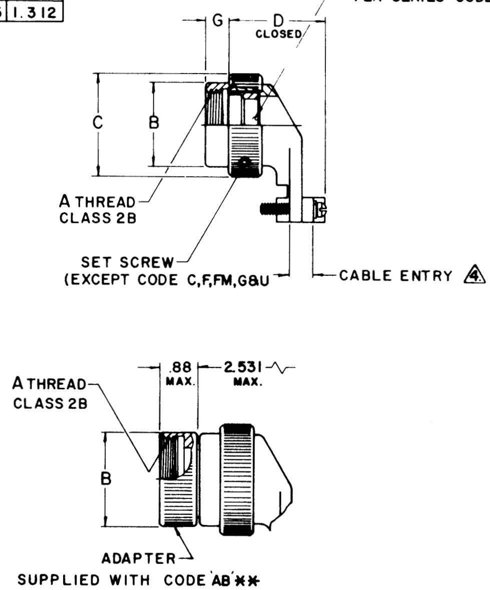
EXAMPLE PART NUMBER

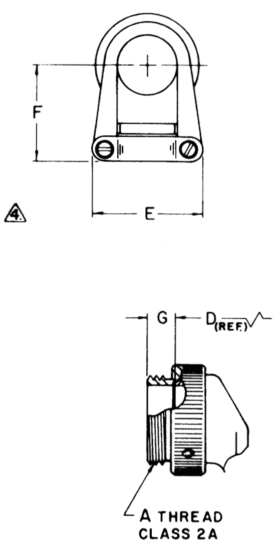
SE55 E 22 - 4

BASIC PART NUMBER (SE55) – SERIES CODE (E) – ORDER NUMBER (22) – PLATING CODE 2 (triangle) (4)



WIRE SEAL RING AS REQUIRED PER SERIES CODE





NOTES: UNLESS OTHERWISE SPECIFIED.

1. IDENTIFIED PER MIL-STD-130.
2. (triangle) SEE PLATING INDEX FOR FINISHES AVAILABLE (SEC.5)
3. MATERIAL; ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, HARDWARE, SST.
4. (triangle) ASSEMBLY WILL NOT ACCOMODATE SIZE 8,4 & 0 WIRE.
5. (triangle) CODE "U" NOT AVAILABLE IN THIS CONFIGURATION, REFER TO M28840/2.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONS ± 1/32; DECIMALS .X ± .03, .XX ± .010, .XXX ± .005; ANGLES ± 2°

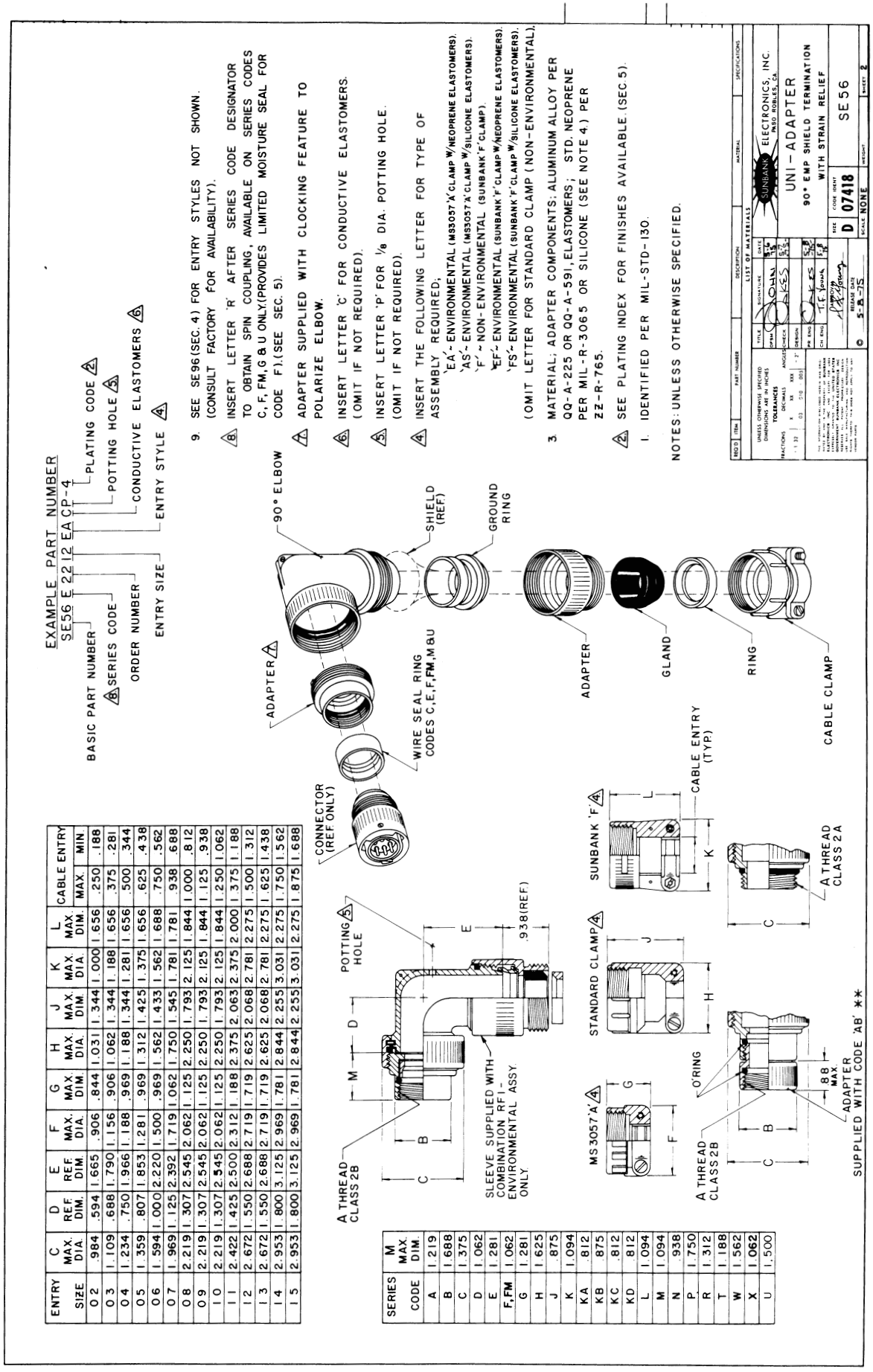
DFSM: Alan; CHECK: John; PR ENG: Oakes; CH ENG: T.F. Young; APPROVAL; RELEASE DATE 5-6-75

ELECTRONICS, INC.
PASO ROBLES, CA.
UNI-ADAPTER
90° OPEN FRAME
STRAIN RELIEF

SIZE D | CODE IDENT 07418 | SE55
SCALE NONE | WEIGHT: | SHEET 2

SELF-SEATING PATENT NO. 5,435,760

Sunbank Joslyn Sunbank Company, LLC



ENTRY SIZE	C MAX. DIA.	D REF. DIM.	E REF. DIM.	F MAX. DIA.	G MAX. DIM.	H MAX. DIA.	J MAX. DIM.	K MAX. DIA.	L MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
02	.984	.594	1.665	.906	.844	1.031	1.344	1.000	1.656	.250	.188
03	1.109	.688	1.790	1.156	.906	1.062	1.344	1.188	1.656	.375	.281
04	1.234	.750	1.966	1.188	.969	1.188	1.344	1.281	1.656	.500	.344
05	1.359	.807	1.853	1.281	.969	1.312	1.425	1.375	1.656	.625	.438
06	1.594	1.000	2.220	1.500	.969	1.562	1.433	1.562	1.688	.750	.562
07	1.969	1.125	2.392	1.719	1.062	1.750	1.545	1.781	1.781	.938	.688
08	2.219	1.307	2.545	2.062	1.125	2.250	1.793	2.125	1.844	1.000	.812
09	2.219	1.307	2.545	2.062	1.125	2.250	1.793	2.125	1.844	1.125	.938
10	2.219	1.307	2.545	2.062	1.125	2.250	1.793	2.125	1.844	1.250	1.062
11	2.422	1.425	2.500	2.312	1.188	2.375	2.063	2.375	2.000	1.375	1.188
12	2.672	1.550	2.688	2.719	1.719	2.625	2.068	2.781	2.275	1.500	1.312
13	2.672	1.550	2.688	2.719	1.719	2.625	2.068	2.781	2.275	1.625	1.438
14	2.953	1.800	3.125	2.969	1.781	2.844	2.255	3.031	2.275	1.750	1.562
15	2.953	1.800	3.125	2.969	1.781	2.844	2.255	3.031	2.275	1.875	1.688

SERIES CODE	M MAX. DIM.
A	1.219
B	1.688
C	1.375
D	1.062
E	1.281
F, FM	1.062
G	1.281
H	1.625
J	.875
K	1.094
KA	.812
KB	.875
KC	.812
KD	.812
L	1.094
M	1.094
N	.938
P	1.750
R	1.312
T	1.188
W	1.562
X	1.062
U	1.500

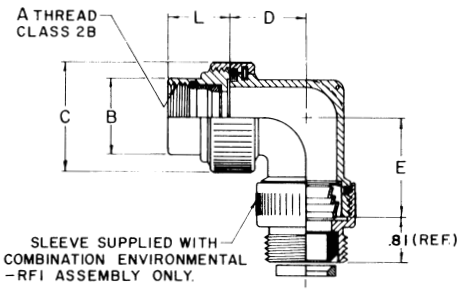
ENTRY SIZE	C MAX. DIA.	D REF. DIM.	E MAX. DIM.	F MAX. DIA.	G MAX. DIM.	H MAX. DIA.	J MAX. DIM.	K MAX. DIA.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
04	.984	.548	1.281	.719	.844	.906	1.312	1.000	.312	.188
06	1.109	.612	1.406	.844	.906	1.156	1.312	1.188	.438	.281
08	1.125	.738	1.562	1.016	.969	1.188	1.312	1.281	.562	.344
10	1.156	.800	1.625	1.130	.969	1.281	1.312	1.375	.625	.375
12	1.562	1.003	1.781	1.321	.969	1.500	1.344	1.562	.750	.438
16	1.906	1.128	1.969	1.575	1.062	1.719	1.438	1.781	.938	.625
17	1.906	1.128	1.969	1.575	1.062	1.719	1.438	1.781	.812	.562
20	2.031	1.300	2.031	1.906	1.125	2.062	1.625	2.125	1.250	.938
21	2.031	1.300	2.031	1.906	1.125	2.062	1.625	2.125	1.188	.812
24	2.422	1.425	2.188	2.125	1.188	2.312	1.656	2.375	1.375	1.000
28	2.672	1.550	1.906	2.375	1.719	2.719	1.938	2.781	1.625	1.250
32	2.953	1.800	2.219	2.625	1.781	2.969	1.938	3.031	1.875	1.500

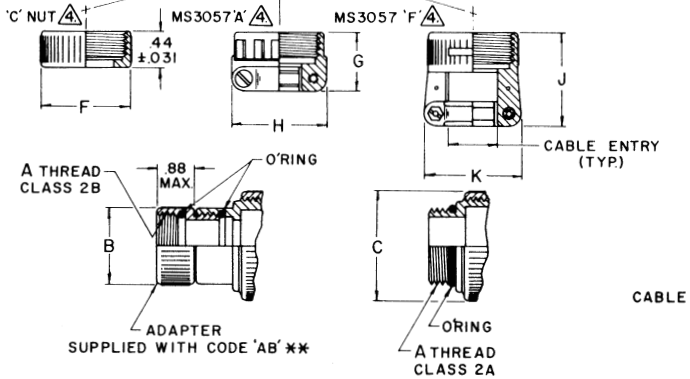
EXAMPLE PART NUMBER

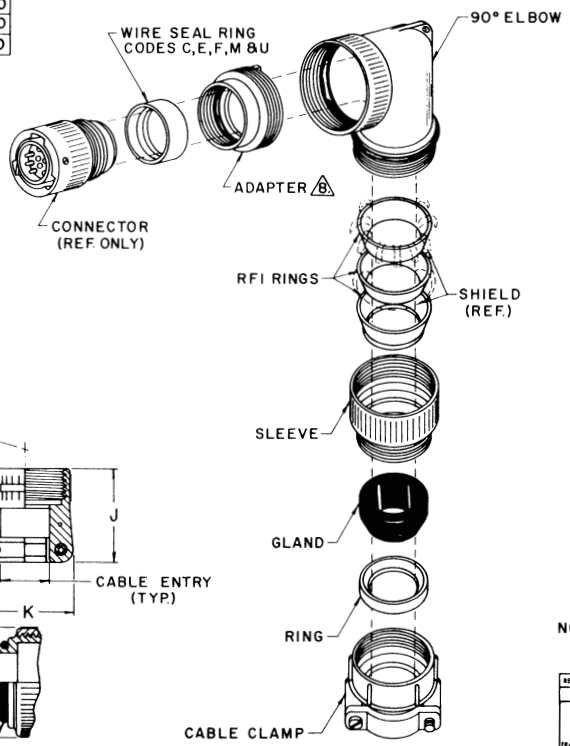
SE 57 E 22 16 A S E - 4 R

- BASIC PART NUMBER
- (9) SERIES CODE
- ORDER NUMBER
- ENTRY SIZE
- ENTRY STYLE (4)
- SILICONE (5)
- ENVIRONMENTAL (6)
- PLATING CODE (2)
- RFI (7)

SERIES CODE	L MAX. DIM
A	1.219
B	1.688
C	1.375
D	1.062
E	1.281
F,FM	1.062
G	1.281
H	1.625
J	.875
K	1.094
KA	.812
KB	.875
KC	.812
KD	.812
L	1.094
M	1.094
N	.938
P	1.750
R	1.312
T	1.188
W	1.562
X	1.062
U	1.500







10. SEE SE96 (SEC. 4) FOR ENTRY STYLES NOT SHOWN. (CONSULT FACTORY FOR AVAILABILITY).

(9) INSERT LETTER 'R' AFTER SERIES CODE DESIGNATION TO OBTAIN SPIN COUPLING, AVAILABLE ON SERIES CODES C, F, FM, G & U ONLY. (PROVIDES LIMITED MOISTURE SEAL FOR CODE F). (SEE SEC. 5).

(8) ADAPTER IS SUPPLIED WITH A CLOCKING FEATURE TO POLARIZE ELBOW.

(7) INSERT LETTER 'R' ~ FOR RFI ASSEMBLY.

(6) INSERT LETTER 'E' ~ FOR ENVIRONMENTAL ASSEMBLY.

(5) INSERT LETTER 'S' ~ FOR SILICONE ELASTOMERS.

(4) INSERT LETTER 'A' ~ FOR MS3057 'A' CABLE CLAMP.
'C' ~ FOR 'C' NUT (NO STRAIN RELIEF).
'F' ~ FOR MS3057 'D' CABLE CLAMP.

3. MATERIAL; ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 5) PER ZZ-R-765.

(2) SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5).

1. IDENTIFIED PER MIL-STD-130.

NOTES; UNLESS OTHERWISE SPECIFIED.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS
LIST OF MATERIALS					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ± 1/32 | DECIMALS X ± .03, XX ± .010, XXX ± .005 | ANGLES ± 2°

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TITLE	SIGNATURE	DATE
DFTM	JOHN	5-5-75
CHECK		
DESIGN		
PR. ENG.		5-5-75
CH. ENG.		5-5-75

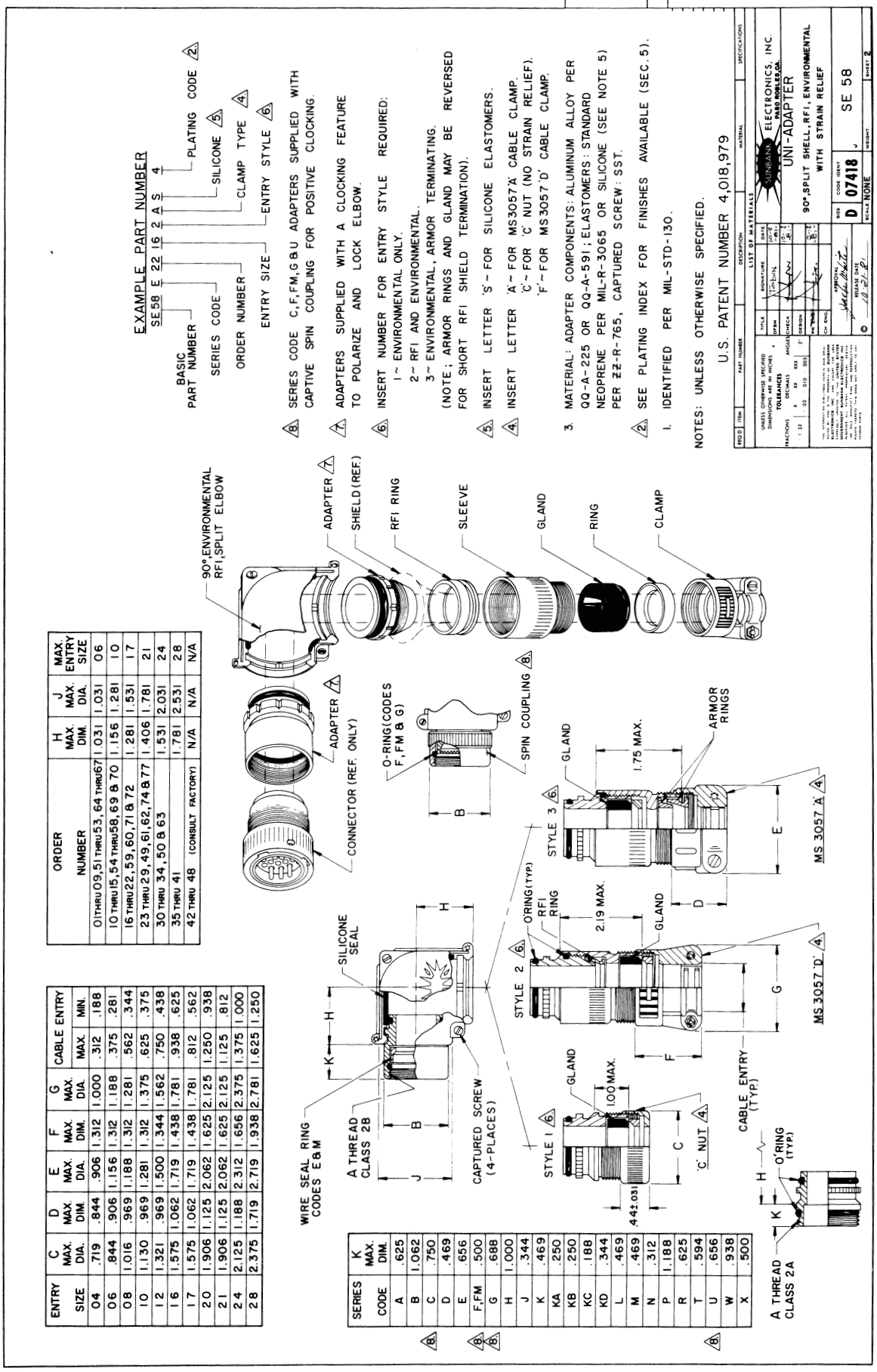
SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

UNI-ADAPTER
90° LOW PROFILE, ENVIRONMENTAL, RFI, WITH STRAIN RELIEF

RELEASE DATE 5-5-75

SIZE	CODE IDENT	
D	07418	SE57
SCALE NONE	WEIGHT:	SHEET 2

SE58

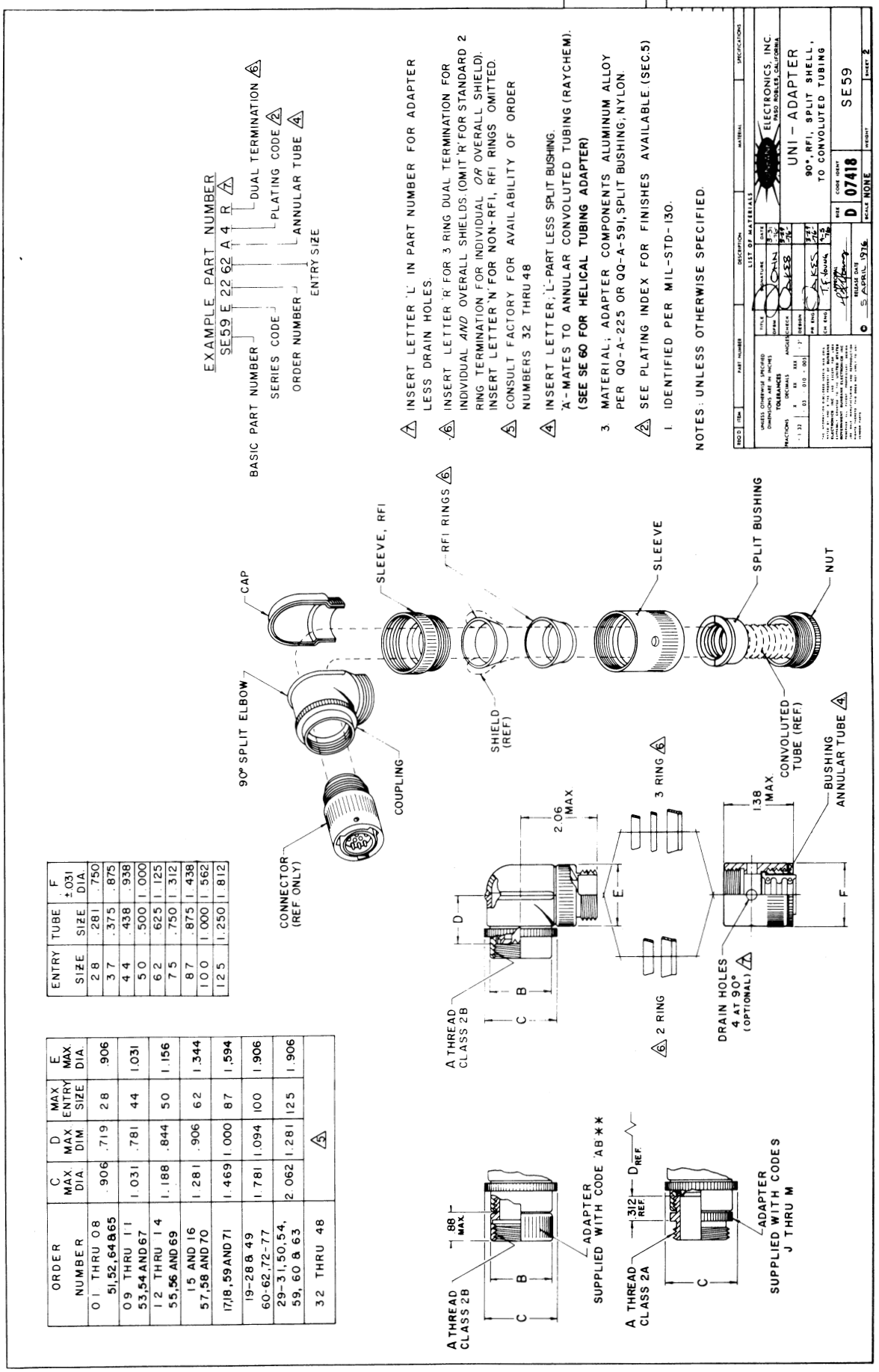


ORDER NUMBER	H MAX. DIM.	J MAX. DIA.	MAX. ENTRY SIZE
01 THRU 09, 51 THRU 53, 64 THRU 67	1.031	1.031	06
10 THRU 15, 54 THRU 58, 69 & 70	1.156	1.281	10
16 THRU 22, 59, 60, 71 & 72	1.281	1.531	17
23 THRU 29, 49, 61, 62, 74 & 77	1.406	1.781	21
30 THRU 34, 50 & 63	1.531	2.031	24
35 THRU 41	1.781	2.531	28
42 THRU 48 (CONSULT FACTORY)	N/A	N/A	N/A

ENTRY SIZE	C MAX. DIA.	D MAX. DIM.	E MAX. DIA.	F MAX. DIM.	G MAX. DIA.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
04	.719	.844	.906	1.312	1.000	.312	.188
06	.844	.906	1.156	1.312	1.188	.375	.281
08	1.016	.969	1.188	1.312	1.281	.562	.344
10	1.130	.969	1.281	1.312	1.375	.625	.375
12	1.321	.969	1.500	1.344	1.562	.750	.438
16	1.575	1.062	1.719	1.438	1.781	.938	.625
17	1.575	1.062	1.719	1.438	1.781	.812	.562
20	1.906	1.125	2.062	1.625	2.125	1.250	.938
21	1.906	1.125	2.062	1.625	2.125	1.125	.812
24	2.125	1.188	2.312	1.656	2.375	1.375	1.000
28	2.375	1.719	2.719	1.938	2.781	1.625	1.250

SERIES CODE	K MAX. DIM.
A	.625
B	1.062
C	.750
D	.469
E	.656
F, FM	.500
G	.688
H	1.000
J	.344
K	.469
KA	.250
KB	.250
KC	.188
KD	.344
L	.469
M	.469
N	.312
P	1.188
R	.625
T	.594
U	.656
W	.938
X	.500

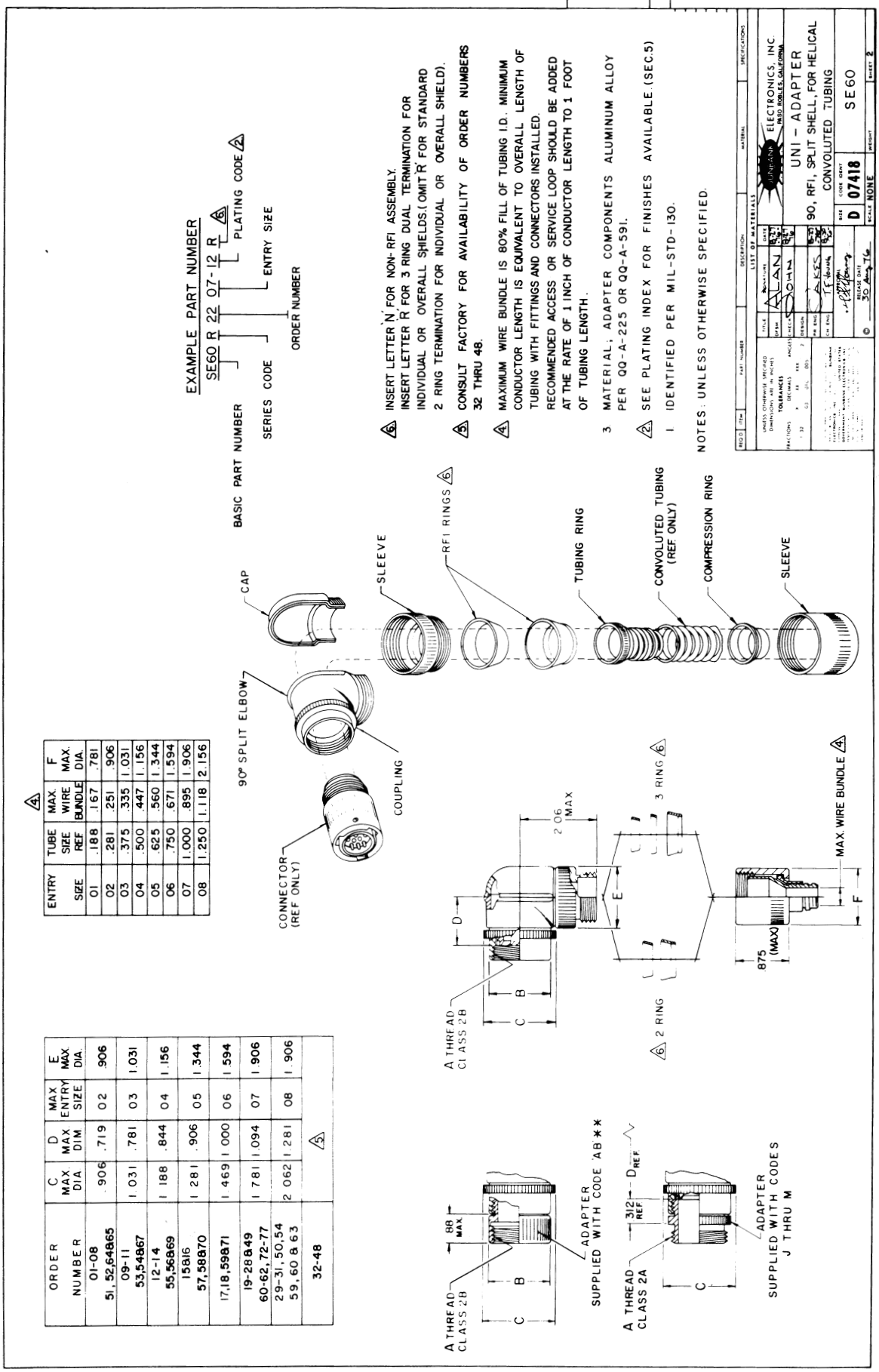
SE59



ORDER NUMBER	C MAX. DIA	D MAX. DIM	MAX ENTRY SIZE	E MAX. DIA
01 THRU 08 51,52,64&65	.906	.719	28	.906
09 THRU 11 53,54 AND 67	1.031	.781	44	1.031
12 THRU 14 55,56 AND 69	1.188	.844	50	1.156
15 AND 16 57,58 AND 70	1.281	.906	62	1.344
17,18,59 AND 71	1.469	1.000	87	1.594
19-28 & 49 60-62,72-77	1.781	1.094	100	1.906
29-31,50,54, 59, 60 & 63	2.062	1.281	125	1.906
32 THRU 48	5			

ENTRY SIZE	TUBE SIZE	F ±.031 DIA.
28	.281	.750
37	.375	.875
44	.438	.938
50	.500	1.000
62	.625	1.125
75	.750	1.312
87	.875	1.438
100	1.000	1.562
125	1.250	1.812

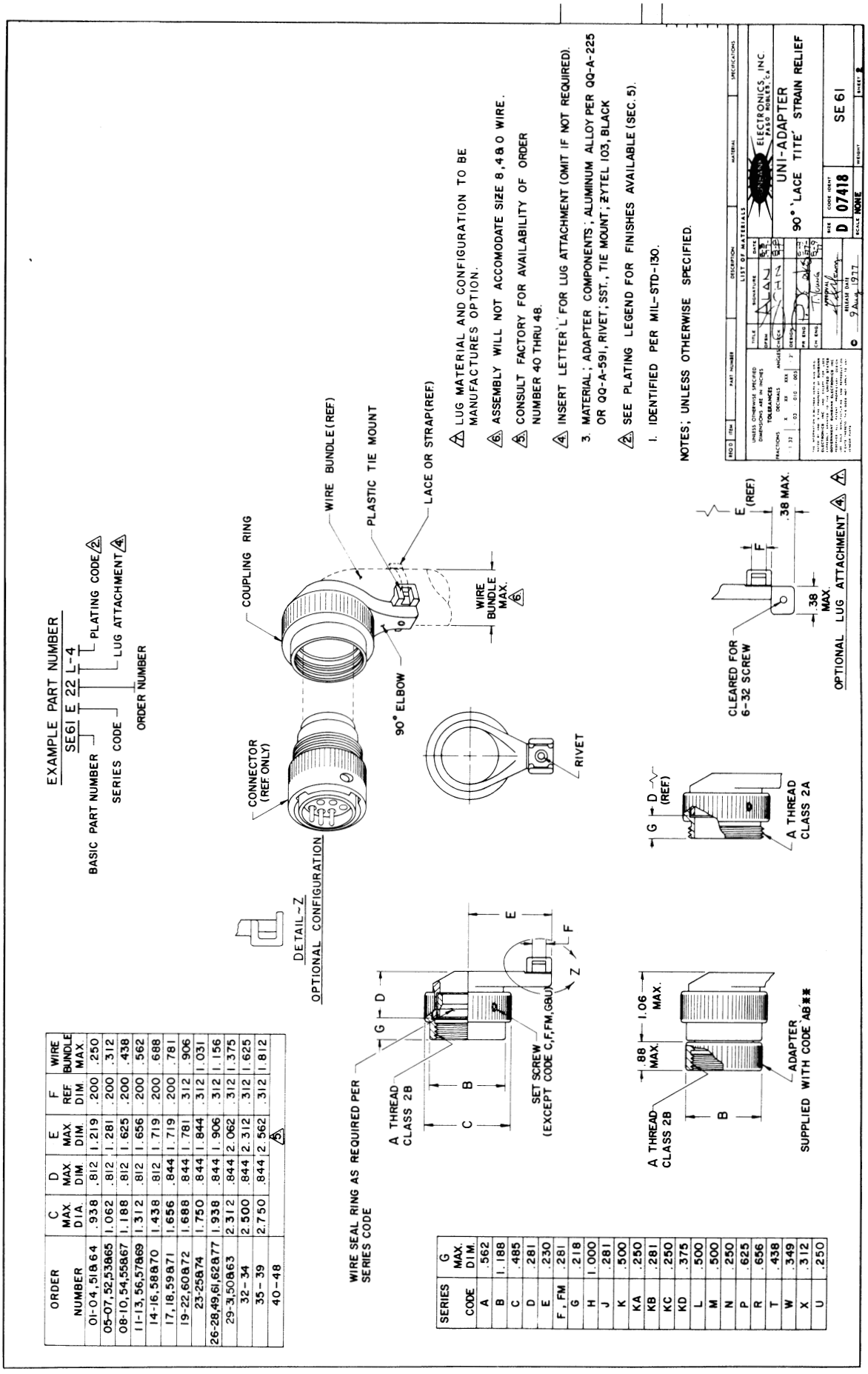
SE60



ENTRY SIZE	TUBE SIZE REF	MAX. WIRE BUNDLE	F MAX. DIA.
01	.188	.167	.781
02	.281	.251	.906
03	.375	.335	1.031
04	.500	.447	1.156
05	.625	.560	1.344
06	.750	.671	1.594
07	1.000	.895	1.906
08	1.250	1.118	2.156

ORDER NUMBER	C MAX DIA	D MAX DIM	MAX ENTRY SIZE	E MAX. DIA.
01-08	.906	.719	02	.906
51, 52, 64865				
09-11	1.031	.781	03	1.031
53, 54867				
12-14	1.188	.844	04	1.156
55, 56869				
15816	1.281	.906	05	1.344
57, 58870				
17, 18, 59871	1.469	1.000	06	1.594
19-28 849	1.781	1.094	07	1.906
60-62, 72-77				
29-31, 50, 54	2.062	1.281	08	1.906
59, 60 & 63				
32-48				

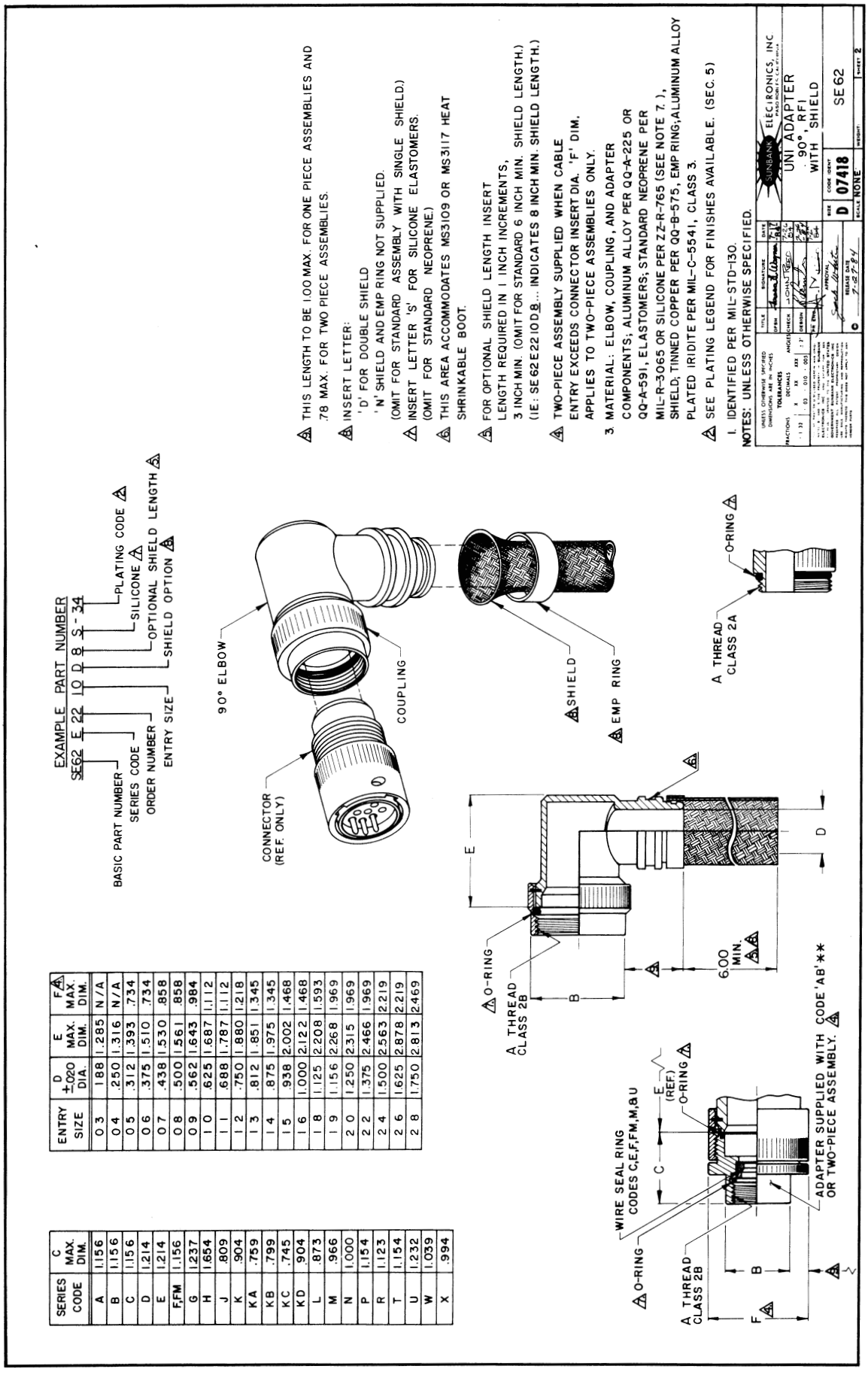
SE61



ORDER NUMBER	C MAX. DIA.	D MAX. DIM.	E MAX. DIM.	F REF DIM.	WIRE BUNDLE MAX.
01-04,51&64	.938	.812	1.219	.200	.250
05-07,52,53&65	1.062	.812	1.281	.200	.312
08-10,54,55&67	1.188	.812	1.625	.200	.438
11-13,56,57&69	1.312	.812	1.656	.200	.562
14-16,58&70	1.438	.812	1.719	.200	.688
17,18,59&71	1.656	.844	1.719	.200	.781
19-22,60&72	1.688	.844	1.781	.312	.906
23-25&74	1.750	.844	1.844	.312	1.031
26-28,49,61,62&77	1.938	.844	1.906	.312	1.156
29-31,50&63	2.312	.844	2.062	.312	1.375
32-34	2.500	.844	2.312	.312	1.625
35-39	2.750	.844	2.562	.312	1.812
40-48			6		

SERIES CODE	G MAX. DIM.
A	.562
B	1.188
C	.485
D	.281
E	.230
F, FM	.281
G	.218
H	1.000
J	.281
K	.500
KA	.250
KB	.281
KC	.250
KD	.375
L	.500
M	.500
N	.250
P	.625
R	.656
T	.438
W	.349
X	.312
U	.250

SE62



ENTRY SIZE	D ±.020 DIA.	E MAX. DIM.	F MAX. DIM.
03	.188	1.285	N/A
04	.250	1.316	N/A
05	.312	1.393	.734
06	.375	1.510	.734
07	.438	1.530	.858
08	.500	1.561	.858
09	.562	1.643	.984
10	.625	1.687	1.112
11	.688	1.787	1.112
12	.750	1.880	1.218
13	.812	1.851	1.345
14	.875	1.975	1.345
15	.938	2.002	1.468
16	1.000	2.122	1.468
18	1.125	2.208	1.593
19	1.156	2.268	1.969
20	1.250	2.315	1.969
22	1.375	2.466	1.969
24	1.500	2.563	2.219
26	1.625	2.878	2.219
28	1.750	2.813	2.469

SERIES CODE	C MAX. DIM.
A	1.156
B	1.156
C	1.156
D	1.214
E	1.214
F,FM	1.156
G	1.237
H	1.654
J	.809
K	.904
KA	.759
KB	.799
KC	.745
KD	.904
L	.873
M	.966
N	1.000
P	1.154
R	1.123
T	1.154
U	1.232
W	1.039
X	.994

SERIES CODE	C MAX. DIM.
A	1.156
B	1.156
C	1.000
D	1.214
E	1.214
F, FM	1.156
G	1.237
H	1.654
J	.809
K	.904
KA	.759
KB	.799
KC	.745
KD	.904
L	.873
M	.966
N	1.000
P	1.154
R	1.123
T	1.154
U	1.232
W	1.039
X	.994

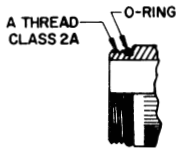
ENTRY SIZE	CABLE ENTRY MAX.	CABLE ENTRY MIN.	D MAX. DIM.	E MAX. DIA.	F MAX. DIM.	G MAX. DIA.	H MAX. DIA.	J MAX. DIA.	K MAX. DIM.	L MAX. DIM.
04	.312	.188	1.301	.957	.843	.906	.906	.734	.742	1.576
06	.437	.281	1.301	1.145	.906	1.093	.906	.858	.811	1.638
08	.562	.344	1.301	1.270	.969	1.187	1.031	.984	.848	1.701
10	.625	.375	1.301	1.332	.969	1.281	1.156	1.112	.910	1.765
12	.750	.500	1.332	1.556	.969	1.500	1.344	1.218	.950	1.818
16	.937	.625	1.426	1.775	1.062	1.719	1.594	1.468	1.075	1.943
20	1.250	.937	1.613	2.115	1.125	2.062	1.906	1.969	1.250	2.194
24	1.375	1.000	1.645	2.372	1.187	2.312	2.156	1.969	1.250	2.194
28	1.625	1.250	1.920	2.780	1.719	2.719	2.406	2.219	1.373	2.412
32	1.875	1.500	1.920	3.020	1.781	2.969	2.656	2.719	1.588	2.568

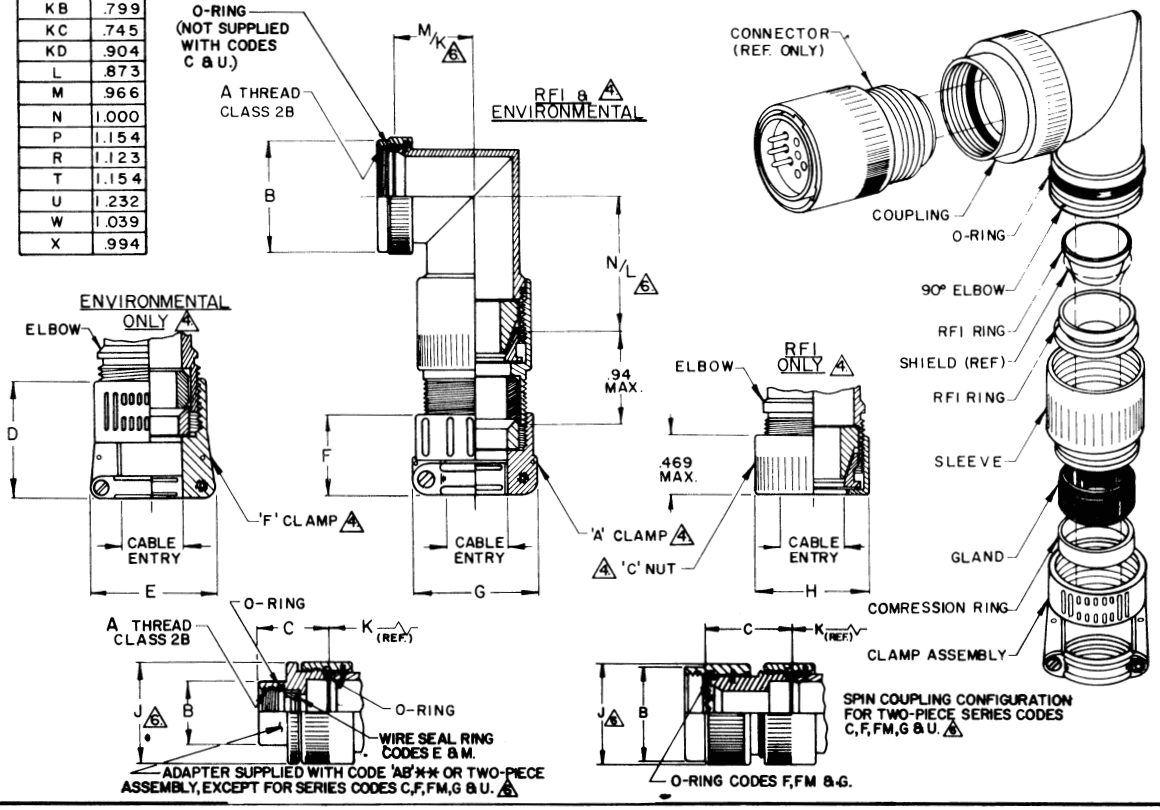
ORDER NUMBER	M MAX. DIM.	N MAX. DIM.
01-04,51,52,64,65	1.066	1.642
05-09,53,54,56,67	1.160	1.733
10-18,21, 57-59 69, 70, 71	1.316	1.892
19,20,22-29,45,50 60-62,72,74,77	1.535	2.111
30-32, 36	1.785	2.361
37-48	2.285	2.861

EXAMPLE PART NUMBER

SE63 E 22 10 C S - 4

BASIC PART NUMBER
SERIES CODE
ORDER NUMBER
ENTRY SIZE
ENTRY STYLE 5
FUNCTION 4
PLATING CODE 2





6 TWO-PIECE ASSEMBLY SUPPLIED WHEN CABLE ENTRY EXCEEDS CONNECTOR INSERT DIA. 'J','K', AND 'L' DIM.S APPLY TO TWO-PIECE ASSEMBLIES ONLY.

5 INSERT LETTER FOR ENTRY STYLE REQUIRED:
"A"- FOR MS3057-**A STRAIN RELIEF CLAMP.
"F"- FOR MS3057-**D STRAIN RELIEF CLAMP.
"C"- FOR 'C' NUT. (NO STRAIN RELIEF.)

4 INSERT THE FOLLOWING LETTER(S) FOR FUNCTION REQUIRED:
"R"-ELBOW WITH RFI RINGS. (NON-ENVIRONMENTAL.)
"E"-ENVIRONMENTAL. (NEOPRENE ELASTOMERS, NON-RFI.)
"S"-ENVIRONMENTAL. (SILICONE ELASTOMERS, NON-RFI.)
"RE"-RFI & ENVIRONMENTAL. (NEOPRENE ELASTOMERS.)
"RS"-RFI & ENVIRONMENTAL. (SILICONE ELASTOMERS.)
"N"-NON-RFI, NON-ENVIRONMENTAL

3. MATERIAL: ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, HARDWARE; STAINLESS STEEL, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 4.) PER ZZ-R-765.

2 SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5)

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.

ELECTRONICS, INC. PASO ROBLES CALIFORNIA
UNI-ADAPTER
90°, RFI, ENVIRONMENTAL AND STRAIN RELIEF OPTIONS
SIZE D | CODE IDENT 07418 | SE63
SCALE NONE | SHEET 2

SE64

EXAMPLE PART NUMBER

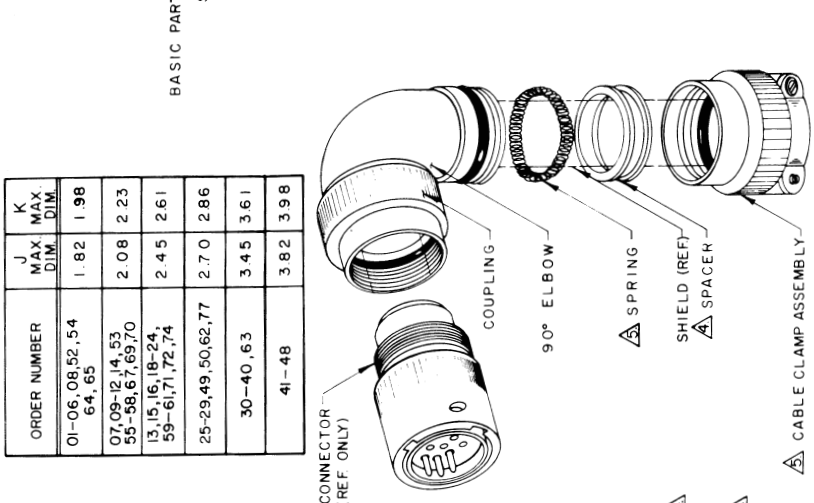
SE64 E 22 10 C S - 4

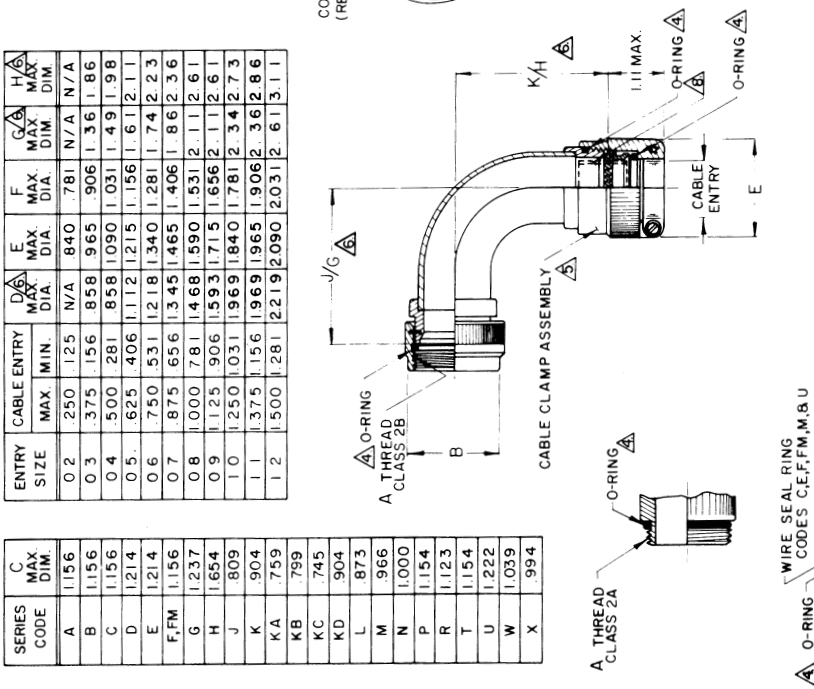
BASIC PART NUMBER — SERIES CODE — ORDER NUMBER — ENTRY SIZE — ENTRY STYLE (5) — FUNCTION (4) — PLATING CODE (2)

SERIES CODE	C MAX. DIM.
A	1.156
B	1.156
C	1.156
D	1.214
E	1.214
F,FM	1.156
G	1.237
H	1.654
J	.809
K	.904
KA	.759
KB	.799
KC	.745
KD	.904
L	.873
M	.966
N	1.000
P	1.154
R	1.123
T	1.154
U	1.222
W	1.039
X	.994

ENTRY SIZE	CABLE ENTRY MAX	CABLE ENTRY MIN.	D (6) MAX DIA.	E MAX. DIA.	F MAX. DIA.	G (6) MAX DIM.	H (6) MAX. DIM.
02	.250	.125	N/A	.840	.781	N/A	N/A
03	.375	.156	.858	.965	.906	1.36	1.86
04	.500	.281	.858	1.090	1.031	1.49	1.98
05	.625	.406	1.112	1.215	1.156	1.61	2.11
06	.750	.531	1.218	1.340	1.281	1.74	2.23
07	.875	.656	1.345	1.465	1.406	1.86	2.36
08	1.000	.781	1.468	1.590	1.531	2.11	2.61
09	1.125	.906	1.593	1.715	1.656	2.11	2.61
10	1.250	1.031	1.969	1.840	1.781	2.34	2.73
11	1.375	1.156	1.969	1.965	1.906	2.36	2.86
12	1.500	1.281	2.219	2.090	2.031	2.61	3.11

ORDER NUMBER	J MAX. DIM.	K MAX. DIM.
01-06,08,52,54 64,65	1.82	1.98
07,09-12,14,53 55-58,67,69,70	2.08	2.23
13,15,16,18-24, 59-61,71,72,74	2.45	2.61
25-29,49,50,62,77	2.70	2.86
30-40,63	3.45	3.61
41-48	3.82	3.98





NOTES: UNLESS OTHERWISE SPECIFIED

1. IDENTIFIED PER MIL-STD-130.
2. SEE PLATING LEGEND FOR FINISHES AVAILABLE. (SEC.5)
3. MATERIAL: ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, SPRING; SCREWS, & WASHERS, STAINLESS STEEL, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE PER ZZ-R-765.(SEE NOTE 4.)
4. INSERT LETTER(S) FOR FUNCTION REQUIRED:
   - "R"-RFI ONLY (O-RINGS AND SPACER NOT SUPPLIED)
   - "E"-ENVIRONMENTAL ONLY. (NEOPRENE ELASTOMERS) (SPRING AND SPACER NOT SUPPLIED.)
   - "S"-ENVIRONMENTAL ONLY (SILICONE ELASTOMERS.) (SPRING AND SPACER NOT SUPPLIED.)
   - "RE"-RFI & ENVIRONMENTAL. (NEOPRENE ELASTOMERS.)
   - "RS"-RFI & ENVIRONMENTAL (SILICONE ELASTOMERS)
5. INSERT LETTER "C" FOR 'C' NUT. (NO STRAIN RELIEF.) (OMIT LETTER FOR STRAIN RELIEF CLAMP.)
6. TWO-PIECE ASSEMBLY SUPPLIED WHEN CABLE ENTRY EXCEEDS CONNECTOR INSERT DIA. D,G,& H DIM.S APPLY TO TWO-PIECE ASSEMBLIES ONLY.
7. SE97***-* GROUND SUPPORT RING (ORDERED SEPARATELY) IS RECOMMENDED FOR ALL RFI ASSEMBLIES AND WHEN SHIELD DIA. IS LESS THAN MINIMUM CABLE ENTRY, THEN A SHIELD SUPPORT RING MUST USED FOR SUFFICENT GROUNDING.(REFER TO SUNBANK DWG. SE97 FOR SUPPORT RING DATA.)

SUNBANK ELECTRONICS, INC
UNI-ADAPTER
90°, RFI, ENVIRONMENTAL AND STRAIN RELIEF OPTIONS.
SIZE D | DWG NO. 07418 | SE64
SCALE NONE | SHEET 2

SELF-SEATING PATENT NO. 5,435,760

SECTION 3

45° Accessories

APPLICATION DATA

Drawing Number	Strain Relief	RFI/EMI Shield Type			Seal		Service		Other
		Overall	Indiv.	Armor	Moisture	Water tight	GSE/Ship	Air	
SB		X	X	X	X		X	X	Low Profile
SE80	X	X				X	X		
SE81	X	X	X			X	X		
SE83	X	X	X				X	X	Common indiv. Overall Shield
SE84	X	X	X	X		X	X		
SE85	X	X				X	X		EMP
SE86	X	X		X		X	X		Split Shell
SE87	X							X	
SE88	X							X	

PRODUCT INDEX
SECTION 3 — 45° ACCESSORIES

DRAWING NUMBER		ASSEMBLY PROCEDURE REFERENCE
SB	RFI/EMI/EMP low profile adapter, environmental/non-environmental, with sunband shield termination system.	N/A
SE80	Standard Adapter, with RFI/EMI Recessed Dual Ring Termination, Environmental and Strain Relief Options. (Overall shield terminating).	AP16
SE81	RFI/EMI Adapter, Internal Cone/Ring Termination Environmental and Strain Relief Options. (Overall and/or individual shield terminating).	AP10
SE83	RFI/EMI Adapter, Two or Three Ring Termination, Non-Environmental with Strain Relief Option (Overall and/or individual shield terminating).	AP9
SE84	Armor Cable Adapter, Strain Relief, Environmental with RFI/EMI Options. (Armor braid, overall or individual shield terminating).	AP2
SE85	EMP, RFI/EMI Adapter, Repairable External Cone/Ring Termination, Strain Relief with Environmental Option. (Overall shield termination with maximum coverage).	AP7
SE86	Split Shell, RFI, Environmental with Strain Relief.	AP28840
SE87	Open Frame Strain Relief.	N/A
SE88	'Lace Tite' Strain Relief.	N/A

CONNECTOR SHELL SIZE REFERENCE

ORDER NUMBER	A THREAD UNIFIED CLASS 2*	B MAX. DIA.	CODE A	CODE B	CODE C (5015, 26482 83723 NAS 1599)	C (81703)	CODE D	CODE E	CODE F SERIES 1	CODE F SERIES 2	CODE FM	CODE G COM.	CODE G MIL	CODE H	CODE J	CODE K	CODE KA	CODE KB	CODE KC	CODE KD	CODE L	CODE M	CODE N	CODE P	CODE R	CODE T	CODE U	CODE W	CODE X	ORDER NUMBER
01	.375 - 32	.531	8S																8							8S				01
02	.438 - 27	.594	8S	8S																										02
03	.438 - 28	.594	8S				8	8	9	8														8S					8	03
04	.500 - 20	.656			8										9															04
05	.500 - 28	.656	10S	10S								8	A			3	3	3	10		8			10S	8S, 10S	10S				05
06	.562 - 24	.719	10S, 10SL			3	10	10	11	10														10SL				10	10	06
07	.625 - 24	.781	10SL, 12, 12S	10SL	10											7	7	7			10	8		12, 12S	10SL, 12, 12S	10SL, 12, 12S				07
08	.625 - 28	.688										10	B																	08
09	.688 - 24	.844	12, 12S	12, 12S				12	13	12					12													12	12	09
10	.750 - 20	.906	14, 14S	14, 14S	12	7	12							12		12	12	12	14		12	10		14, 14S	14, 14S	14, 14S	11 (A)			10
11	.750 - 28	.812																												11
12	.812 - 20	.969					14	14	15	14					15													14	14	12
13	.875 - 20	1.031	16, 16S	16, 16S	14	12								14		19	19	19	16		14	12		16, 16S	16, 16S	16, 16S	13 (B)			13
14	.875 - 28	.938										14	D																	14
15	.938 - 20	1.094					16	16	17	16																		16	16	15
16	1.000 - 20	1.156	18	18	16	19								16		27	27	27	18	18	16	14		18	18	18	15 (C)			16
17	1.000 - 28	1.062										16	E		18															17
18	1.062 - 18	1.219			18	27	18	18	19	18																		18	18	18
19	1.125 - 18	1.281	20											18						20	18	16		20		20	17 (D)			19
20	1.125 - 24	1.281	20	20																										20
21	1.125 - 28	1.188										18	F																	21
22	1.188 - 18	1.344			20	37	20	20	21	20						37		37							20, 22			20	20	22
23	1.250 - 18	1.406	22	22										20						22	20	18		22		22	19 (E)			23
24	1.250 - 28	1.312										20	G																	24
25	1.312 - 18	1.469			22		22	22	23	22																		22	22	25
26	1.375 - 18	1.531	24	24										22						24	22	20		24		24				26
27	1.375 - 28	1.438										22	H																	27
28	1.438 - 18	1.594			24		24	24	25	24															24, 28		23 (F)	24	24	28
29	1.500 - 28	1.562										24	J																	29
30	1.625 - 18	1.781	28	28										24								24		28		28				30
31	1.750 - 18	1.969			28																				32					31
32	1.875 - 16	2.031	32											28										32		32	29 (H)			32
33	1.906 - 18	2.062	32	32																										33
34	2.000 - 18	2.219			32																				36					34
35	2.062 - 16	2.219	36											32													33 (J)			35
36	2.125 - 18	2.281	36																											36
37	2.125 - 16	2.281	36																					36		36				37
38	2.062 - 20	2.219		36																										38
39	2.250 - 16	2.469			36																				40					39
40	2.312 - 16	2.469	40											36																40
41	2.375 - 16	2.531	40																					40		40				41
42	2.500 - 16	2.719			40																				44					42
43	2.625 - 16	2.781	44											40																43
44	2.750 - 16	2.969			44																									44
45	2.812 - 18	2.969	48																											45
46	3.000 - 16	3.219			48																				48					46
47	3.125 - 16	3.312												48																47
48	2.875 - 16	3.031	48											44																48
49	1.500 - 18	1.688				61										61		61			24	22								49
50	1.562 - 18	1.719																									25 (G)			50
51	.530 - 24	N / A																		10										51
52	.563 - 36	.718																					10							52
53	.650 - 24	N / A																		12										53
54	.733 - 36	.889																					12							54
55	.781 - 24	N / A																		14										55
56	.803 - 36	.968																					14							56
57	.906 - 24	N / A																		16										57
58	.930 - 36	1.094																					16							58
59	1.036 - 36	1.188																					18							59
60	1.161 - 36	1.312																					20							60
61	1.286 - 36	1.438																					22							61
62	1.411 - 36	1.562																					24							62
63	1.661 - 36	1.812																					28							63
64	M12 X 1.0-6H	.656									9/A																			64
65	M15 X 1.0-6H	.781									11/B																			65
67	M18 X 1.0-6H	.897									13/C																			67
69	M22 X 1.0-6H	1.054									15/D																			69
70	M25 X 1.0-6H	1.172									17/E																			70
71	M28 X 1.0-6H	1.290									19/F																			71
72	M31 X 1.0-6H	1.406									21/G																			72
74	M34 X 1.0-6H	1.531									23/H																			74
77	M37 X 1.0-6H	1.645									25/J																			77

CONNECTOR SERIES DESCRIPTION

SEE CROSS REFERENCE CHART, SECTION 5.
FOR ADDITIONAL INFORMATION CONSULT FACTORY FOR CONNECTORS NOT LISTED

SERIES CODE	
**A	MIL-C-5015 'D', MS 3100, MS 3101, MS 3106, CLASS A , E & R RESILIENT INSERT, SOLDER TYPE & BENDIX 10-214, CANNON CA-RX COMMERCIAL CRIMP TYPE
B	AMPHENOL '69' SERIES, 246-3100, 01, 06 CRIMP TYPE
C	MIL-C-5015 'G', MIL-C-26482 SERIES 2, MS 3400, MS 3401, MS 3404, MS 3406, MS 3450, MS 3451, MS 3454, MS 3456, MS 3470, MS 3471, MS 3472, MS 3474, MS 3475, MS 3476, CLASS D, E, K, L, U & W, MIL-C-83723 SERIES 1 & 3, MIL-C-81703 & NAS 1599
D	MIL-C-26500, MIL-C-38300 ALUMINUM SHELL, MS 24264, MS 24265, MS 24266, CLASS F, G & R
E	MIL-C- 26482 SERIES 1, MS 3110, MS 3116, MS 3120, MS3126, CLASS E, F & P
F	MIL-C-38999 SERIES 1 & 2, MS 27466, MS 27468, MS 27472, MS 27473, MS 27474, MS 27479, MS 27480, MS 27481, MS 27484, MS 27656, CLASS E & T
FM	MIL-C-38999, SERIES 3 & 4, DOD-C-38999 / 20, 24, 26, 40, 44, 46 & 47 CLASS C, F, K & W ('A' THREAD IS METRIC) (/44 N/A ON SPIN COUPLING)
G	MIL-C-81511 SEREIS 1, 2, 3 & 4, AMPHENOL OR CINCH 348 & DEUTSCH *815, CLASS F & W
H	MIL-C-22992, MS 17343, MS 17344, MS 17345, MS 17346, MS17347, MS 17348, CLASS J & R ('A' THREAD IS LEFT HAND)
J	MICRODOT, MARC 43, 53 & 63 SEREIS
K	DEUTSCH DM(14000) MS 3132, MS 3134, MS 3137 & MS 3138
KA	DEUTSCH DSM(120, 32000), RSM(UR20, 23000), RMK & SMK
KB	DEUTSCH DA(19000, DS(17000), DD(12000), MS 3140, MS 3144, MS 3147, MS 3148, MDR(13000), MDS(750, 17000)
KC	DEUTSCH RTK(UR40, 74000), STK(340, 4200)
KD	DEUTSCH DTK
L	BENDIX JT00RE, MS 0027497 CLASS V
M	BENDIX PC-PT 07, MS 3124, MS 3114
N	MIL-C-26500 STAINLESS STEEL, MIL-C-38300, MS 24264, MS 24265, MS 24266, MS 27613, MS 27614, MS 27615, CLASS E
P	MIL-C-83723 SERIES 2, M83723 / 17, 18, 19, 20, 23 & 24
R	MIL-C-5015, MS 3107, MS 3108, MIL-C-26482, MS 'V' THREAD GENERAL DUTY 'A' ENDBELL
T	MIL-C-5015 REV. 'E'
U	MIL-C-28840, M28840 / 10, 11, 14 & 16 CLASS A, B, C & E
W	BURNDY 'G' SERIES, TRIM TRIO, G0, G1, G6, G8 & G9
X	BENDIX SJT00RT, SJT06RT, SJTG06RT

**NOTE, ON SERIES CODE 'A' SOME SHELL SIZE TO ORDER NUMBERS ARE DUPLICATED. USE THE FOLLOWING ORDER NUMBER TO SHELL SIZE WHEN CONNECTOR MANUFACTURER IS KNOWN;
AMPHENOL; 02 FOR 8S, 07-10SL, 09-12 & 12S, 19-20 CLASS A, 20-20 CLASS E & R, 33-32, 36-36 (38-36 CODE 'B') & 48-48.
BENDIX; 01 FOR 8S, 07-10SL, 12 & 12S, 19-20, 32-32, 35-36 & 40-40.
CANNON; 03 FOR 8S, 06-10SL, 07-12 & 12S, 19-20, 32-32, 37-36, 41-40 & 45-48.

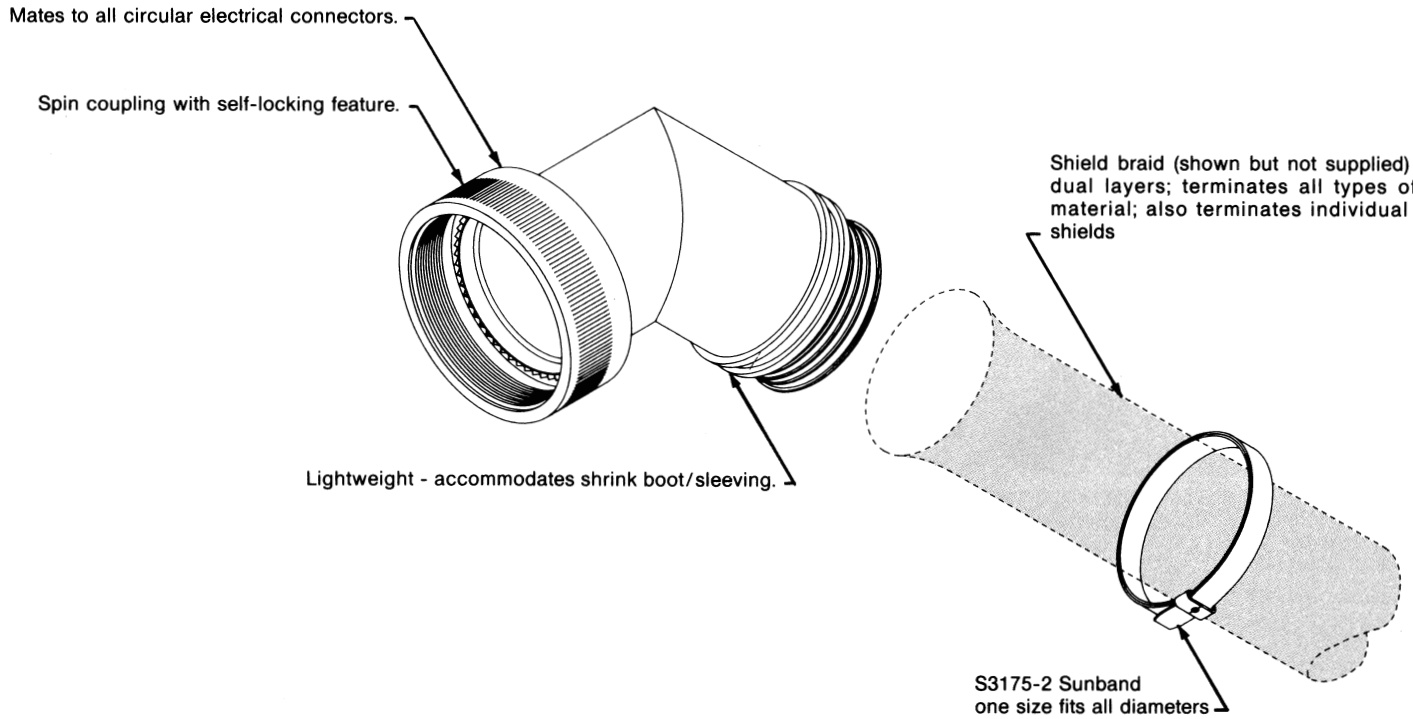
USE SERIES CODE 'AB' WHEN MANUFACTURER IS UNKNOWN, ADDITIONAL ADAPTERS WILL BE SUPPLIED. DESIGNATE ORDER NUMBER; 03 FOR SHELL SIZE 8S, 05-10S, 07-10SL, 09-12 & 12S, 19-2O, 32-32, 37-36 & 40-40 (IE; SE**AB07 . . . PART TO FIT ANY MANUFACTURER OF SHELL SIZE 10SL FOR CODE 'A')

* THREAD CLASS 2B (INTERNAL), CODES A, B, C, D, E, F, FM, G, H, N, P, R, T, W, X & U
THREAD CLASS 2A (EXTERNAL), CODES J, K, KA, KB, KC, KD, L & M (B MAX. DIA. IS NOT APPLICABLE)
CAUTION: CLASS 2A TYPE ADAPTERS REQUIRE ADDITIONAL SUPPORT WHEN ENVELOPE EXCEEDS 2 INCHES IN LENGTH OR DIAMETER.
O'RINGS SUPPLIED WITH ENVIRONMENTAL ASSEMBLIES ONLY.

ECO 10-01-15452 REVISED: JANUARY 1994

SELF-SEATING PATENT NO. 5,435,760

Special features of STS products are:
- Field repairability (re-enterable)
- Performance far exceeds MIL-C-85049
- Low installation labor cost



Typical part number: SB03B6B6704W2
See Sunbank **STS SUNBAND SHIELD TERMINATION SYSTEM** catalog for more information

SUNBANK ELECTRONICS, INC. Paso Robles, California			
SUNBAND TERMINATION ACCESSORY IN A 45° CONFIGURATION			
SIZE C	CODE IDENT. 07418	SB	
SCALE: N.T.S.	WEIGHT:	SHEET: 1 of 1	

SB03B6B6704W2

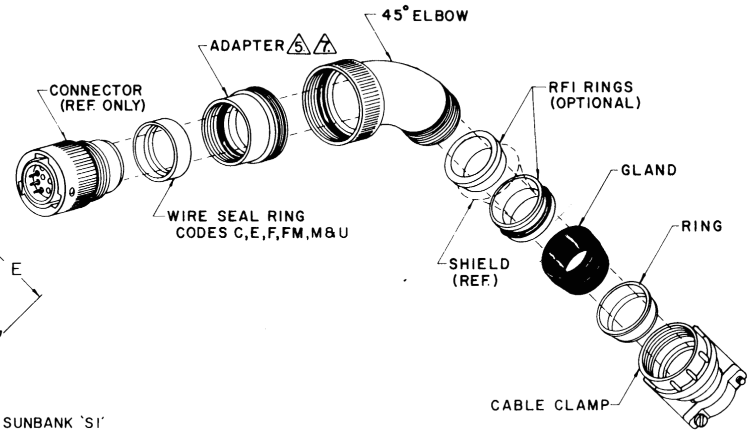
ENTRY SIZE	C ±.031 DIA.	D REF. DIM.	E REF. DIM.	F MAX. DIM.	G MAX. DIM.	H MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
03 (9)	1.125	1.031	.797	1.344	1.031	.844	.219	.157
04	1.125	1.094	1.013	1.344	1.031	.844	.312	.182
06	1.250	1.115	1.037	1.344	1.031	.906	.438	.282
08	1.375	1.016	1.063	1.344	1.031	.969	.531	.312
10	1.500	1.166	1.088	1.425	1.094	.969	.625	.375
12	1.688	1.205	1.127	1.433	1.219	.969	.750	.500
16	1.938	1.257	1.179	1.545	1.219	1.062	.938	.700
20	2.250	1.322	1.306	1.793	1.344	1.125	1.250	.926
24	2.500	1.318	1.365	2.063	1.547	1.188	1.375	1.125
28	2.750	1.425	1.472	2.068	1.547	1.719	1.625	1.312
32	3.000	1.477	1.587	2.255	1.734	1.781	1.875	1.500
40	3.200	1.444	1.680	2.302	1.781	1.781	2.375	1.875

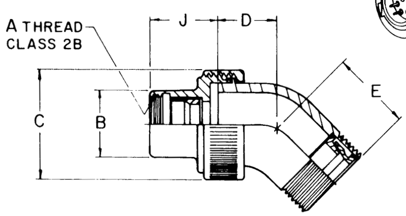
SERIES CODE	J MAX. DIM.
A	1.375
B	1.875
C	1.625
D	1.188
E	1.500
F,FM	1.188
G	1.375
H	1.438
J	.688
K	.875
KA	.625
KB	.688
KC	.625
KD	.750
L	.875
M	.875
N	.938
P	1.875
R	1.375
T	1.250
W	1.625
X	1.188
U	1.500

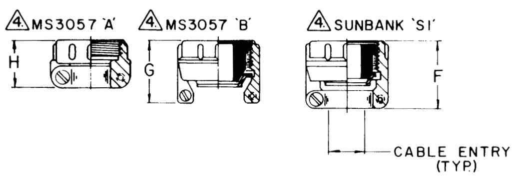
EXAMPLE PART NUMBER

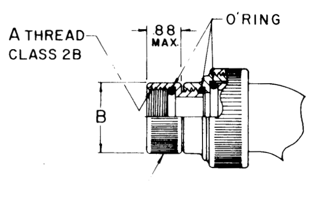
SE80 E 22 16 E - 4 R

- BASIC PART NUMBER
- (7) SERIES CODE
- ORDER NUMBER
- ENTRY SIZE
- CLAMP TYPE (4)
- PLATING CODE (2)
- RFI OPTION (6)

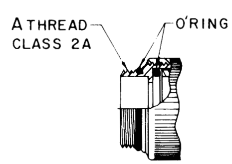








SUPPLIED WITH CODE 'AB' **



(9) NOT AVAILABLE ON CLAMP TYPE "ES".

8. SEE SE96(SEC. 4) FOR ENTRY STYLES NOT SHOWN. (CONSULT FACTORY FOR AVAILABILITY).

(7) INSERT LETTER 'R' AFTER SERIES CODE DESIGNATION TO OBTAIN SPIN COUPLING, AVAILABLE ON SERIES CODES C,F,FM,G&U ONLY. (PROVIDES LIMITED MOISTURE SEAL FOR CODE F&FM)(SEE SEC.5).

(6) INSERT LETTER 'R' IN PART NUMBER FOR RFI ASSEMBLY. (OMIT LETTER IF NOT REQ'D).

(5) ADAPTER IS SUPPLIED WITH A CLOCKING FEATURE TO POLARIZE ELBOW.

(4) INSERT LETTER;
'A' - FOR MS3057 'A' CLAMP. (NON-ENVIRONMENTAL)
'B' - FOR MS3057 'B' CLAMP. (NEOPRENE ELASTOMERS)
'E' - FOR SUNBANK 'SI' CLAMP (NEOPRENE ELASTOMERS)
'ES' - FOR SUNBANK 'SI' CLAMP (SILICONE ELASTOMERS)
(OMIT LETTER IF CLAMP IS NOT REQUIRED).

3. MATERIAL; ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225, QQ-A-591, OR QQ-A-601, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065. SILICONE SUPPLIED PER-ZZ-765 WITH 'ES' OPTION. (4)

(2) SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC.5).

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ±1/32 — DECIMALS .X ±.03, .XX ±.010, .XXX ±.005 — ANGLES ±2°

TITLE	SIGNATURE	DATE
DFSM	ALAN	2-7-75
CHECK	JOHN	4-25-76
DESIGN		
PR ENG	OAKES	4-25-75
CH ENG	T.F. YOUNG	4-25-75

APPROVAL
RELEASE DATE 4-25-76

SUNBANK ELECTRONICS, INC.
PASO ROBLES, CA.

UNI - ADAPTER
45°, ENVIRONMENTAL & RFI OPTIONS, WITH STRAIN RELIEF

SIZE D — CODE IDENT 07418 — SE 80
SCALE NONE — WEIGHT — SHEET 2

SE81

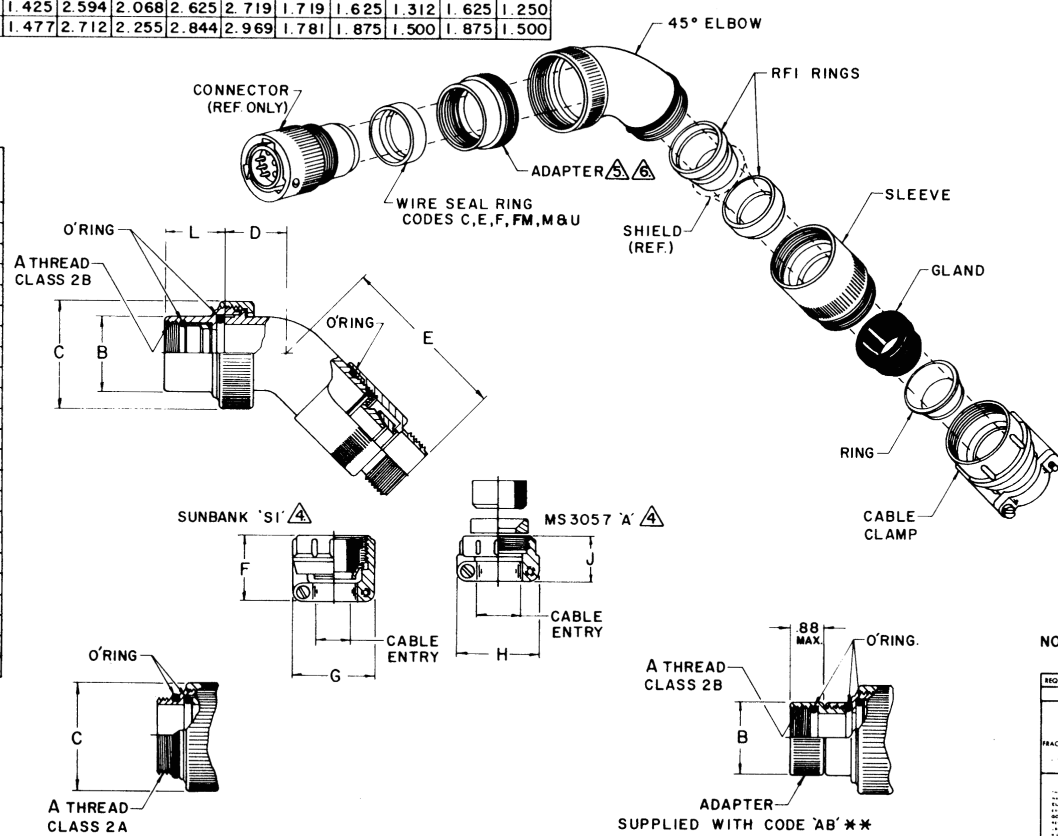
ENTRY SIZE	C ±.031 DIA.	D REF. DIM.	E REF. DIM.	F MAX. DIM.	G MAX. DIA.	H MAX. DIA.	J MAX. DIM.	CABLE ENTRY TYPE 'E','ES' MAX.	CABLE ENTRY TYPE 'E','ES' MIN.	CABLE ENTRY TYPE 'A','EA','AS' MAX.	CABLE ENTRY TYPE 'A','EA','AS' MIN.
03 (8)	1.125	1.031	1.922	1.344	.812	.844	.844	.219	.157	N/A	N/A
04	1.250	1.094	2.138	1.344	1.031	.906	.844	.312	.182	.312	.188
06	1.375	1.115	2.162	1.344	1.062	1.094	.906	.438	.282	.438	.281
08	1.500	1.016	2.188	1.344	1.188	1.188	.969	.531	.312	.562	.344
10	1.500	1.166	2.212	1.425	1.312	1.281	.969	.625	.375	.625	.375
12	1.688	1.205	2.250	1.433	1.562	1.500	.969	.750	.500	.750	.438
16	1.938	1.257	2.304	1.545	1.750	1.719	1.062	.938	.700	.938	.625
20	2.250	1.322	2.431	1.793	2.250	2.062	1.125	1.250	.926	1.250	.938
24	2.500	1.318	2.500	2.063	2.375	2.312	1.188	1.375	1.125	1.375	1.000
28	2.750	1.425	2.594	2.068	2.625	2.719	1.719	1.625	1.312	1.625	1.250
32	3.000	1.477	2.712	2.255	2.844	2.969	1.781	1.875	1.500	1.875	1.500

EXAMPLE PART NUMBER

SE81 E 22 16 E - 4

- BASIC PART NUMBER (SE81)
- (6) SERIES CODE (E)
- ORDER NUMBER (22)
- ENTRY SIZE (16)
- ENVIRONMENTAL (4) (E)
- PLATING CODE (2) (4)

SERIES CODE	L MAX. DIM.
A	1.375
B	1.875
C	1.625
D	1.188
E	1.500
F, FM	1.188
G	1.375
H	1.438
J	.688
K	.875
KA	.625
KB	.688
KC	.625
KD	.750
L	.875
M	.875
N	.938
P	1.875
R	1.375
T	1.250
W	1.625
X	1.188
U	1.500



NOTES: UNLESS OTHERWISE SPECIFIED.

1. IDENTIFIED PER MIL-STD-130.

(2) SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5).

3. MATERIAL; ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225, QQ-A-591 OR QQ-A-601, CLAMPS; I.A.W. MS3057, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 4) PER ZZ-R-765.

(4) INSERT THE FOLLOWING LETTER FOR TYPE OF ASSEMBLY REQUIRED;
- 'E' ~ ENVIRONMENTAL (SUNBANK 'SI' CLAMP W/NEO. ELASTOMERS).
- 'EA' ~ ENVIRONMENTAL (MS3057 'A' CLAMP W/NEO. ELASTOMERS).
- 'ES' ~ ENVIRONMENTAL (SUNBANK 'SI' W/SILICONE ELASTOMERS).
- 'A' ~ NON-ENVIRONMENTAL (MS3057 'A' CLAMP).
- 'AS' ~ ENVIRONMENTAL (MS3057 'A' W/SILICONE ELASTOMERS).

(5) ADAPTER IS SUPPLIED WITH CLOCKING FEATURE TO POLARIZE ELBOW.

(6) INSERT LETTER 'R' AFTER SERIES CODE DESIGNATION TO OBTAIN SPIN COUPLING, AVAILABLE ON SERIES CODES C, F, FM, G & U ONLY. (PROVIDES LIMITED MOISTURE SEAL FOR CODE F & FM)(SEE SEC. 5).

7. SEE SE96 (SEC. 4) FOR ENTRY STYLES NOT SHOWN. (CONSULT FACTORY FOR AVAILABILITY).

(8) NOT AVAILABLE ON CLAMP STYLE "ES".

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONS ±1/32; DECIMALS .X ±.03, .XX ±.010, .XXX ±.005; ANGLES ±2°

TITLE	SIGNATURE	DATE
DFSM	ALAN	2-10-75
CHECK	JOHN	2-19-75
DESIGN		
PR ENG	OAKES	4-28-75
CH ENG	T.E. Young	4-28-75

APPROVAL · RELEASE DATE 4-28-75

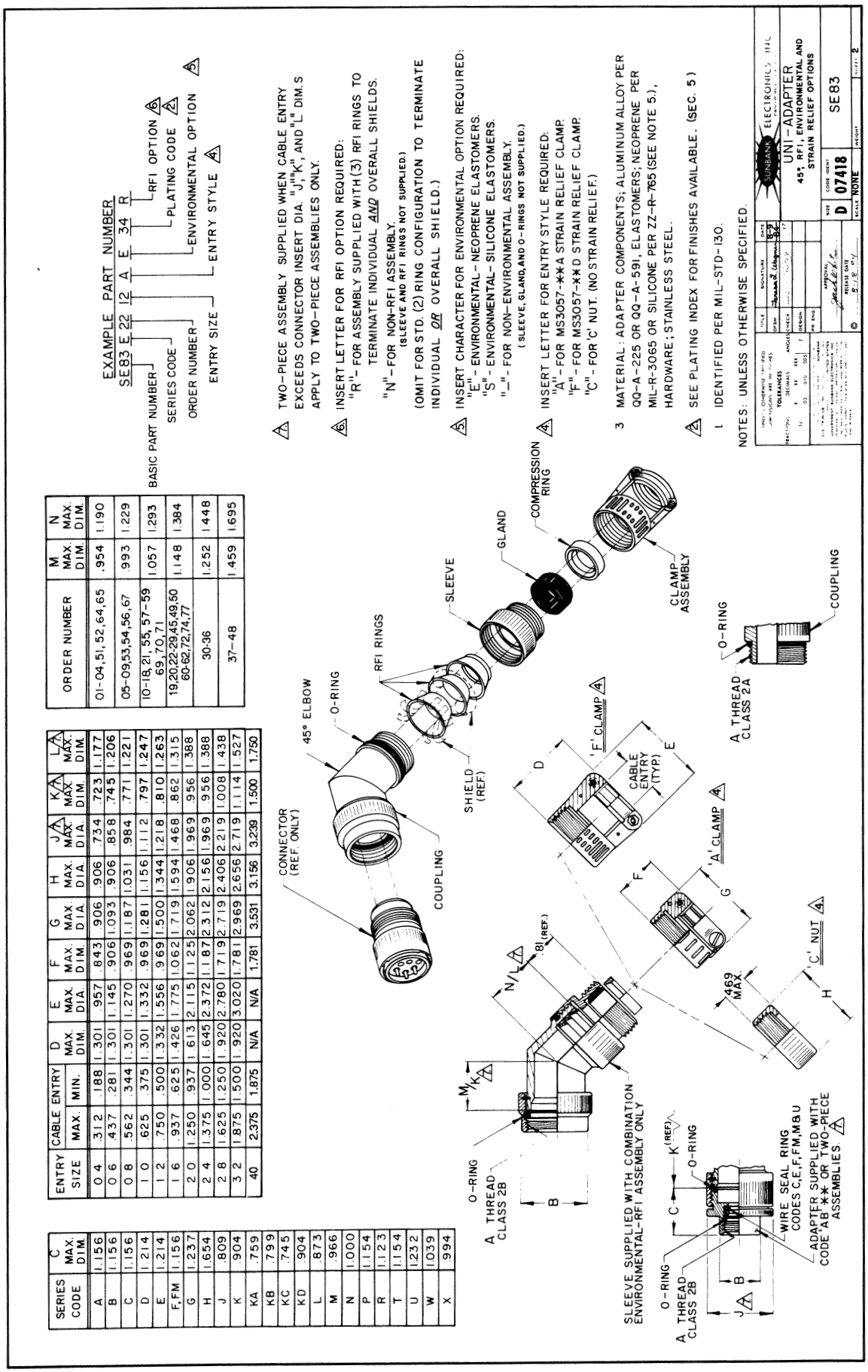
SUNBANK ELECTRONICS, INC. PASO ROBLES, CA

UNI-ADAPTER
45°, RFI, ENVIRONMENTAL WITH STRAIN RELIEF

SIZE D · CODE IDENT 07418 · SE 81 · SCALE NONE · WEIGHT · SHEET 2

SELF-SEATING PATENT NO. 5,435,760

SE83



SERIES CODE	C MAX. DIM.
A	1.156
B	1.156
C	1.156
D	1.214
E	1.214
F,FM	1.156
G	1.237
H	1.654
J	.809
K	.904
KA	.759
KB	.799
KC	.745
KD	.904
L	.873
M	.966
N	1.000
P	1.154
R	1.123
T	1.154
U	1.232
W	1.039
X	.994

ENTRY SIZE	CABLE ENTRY MAX.	CABLE ENTRY MIN.	D MAX. DIM.	E MAX. DIA.	F MAX. DIM.	G MAX. DIA.	H MAX. DIA.	J MAX. DIA.	KA MAX. DIM.	LA MAX. DIM.
04	.312	.188	1.301	.957	.843	.906	.906	.734	.723	1.177
06	.437	.281	1.301	1.145	.906	1.093	.906	.858	.745	1.206
08	.562	.344	1.301	1.270	.969	1.187	1.031	.984	.771	1.221
10	.625	.375	1.301	1.332	.969	1.281	1.156	1.112	.797	1.247
12	.750	.500	1.332	1.556	.969	1.500	1.344	1.218	.810	1.263
16	.937	.625	1.426	1.775	1.062	1.719	1.594	1.468	.862	1.315
20	1.250	.937	1.613	2.115	1.125	2.062	1.906	1.969	.956	1.388
24	1.375	1.000	1.645	2.372	1.187	2.312	2.156	1.969	.956	1.388
28	1.625	1.250	1.920	2.780	1.719	2.719	2.406	2.219	1.008	1.438
32	1.875	1.500	1.920	3.020	1.781	2.969	2.656	2.719	1.114	1.527
40	2.375	1.875	N/A	N/A	1.781	3.531	3.156	3.239	1.500	1.750

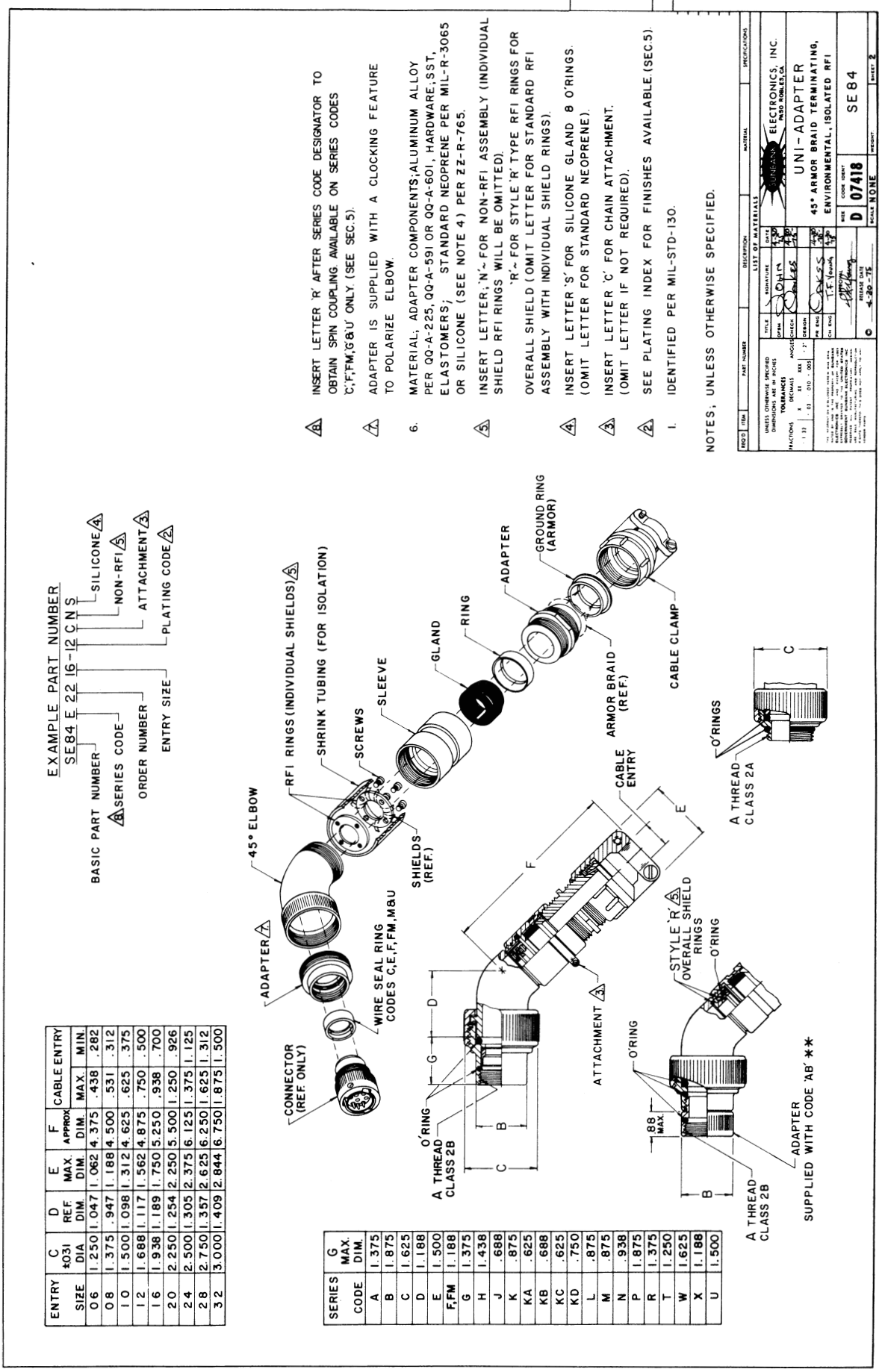
ORDER NUMBER	M MAX. DIM.	N MAX. DIM.
01-04,51,52,64,65	.954	1.190
05-09,53,54,56,67	.993	1.229
10-18,21,55,57-59 69,70,71	1.057	1.293
19,20,22-29,45,49,50 60-62,72,74,77	1.148	1.384
30-36	1.252	1.448
37-48	1.459	1.695

SE84

EXAMPLE PART NUMBER
SE84 E 22 16-12 C N S
BASIC PART NUMBER
SERIES CODE
ORDER NUMBER
ENTRY SIZE
PLATING CODE
ATTACHMENT
NON-RFI
SILICONE

ENTRY SIZE	C ±.031 DIA	D REF DIM.	E MAX. DIM.	F APPROX DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
06	1.250	1.047	1.062	4.375	.438	.282
08	1.375	.947	1.188	4.500	.531	.312
10	1.500	1.098	1.312	4.625	.625	.375
12	1.688	1.117	1.562	4.875	.750	.500
16	1.938	1.189	1.750	5.250	.938	.700
20	2.250	1.254	2.250	5.500	1.250	.926
24	2.500	1.305	2.375	6.125	1.375	1.125
28	2.750	1.357	2.625	6.250	1.625	1.312
32	3.000	1.409	2.844	6.750	1.875	1.500

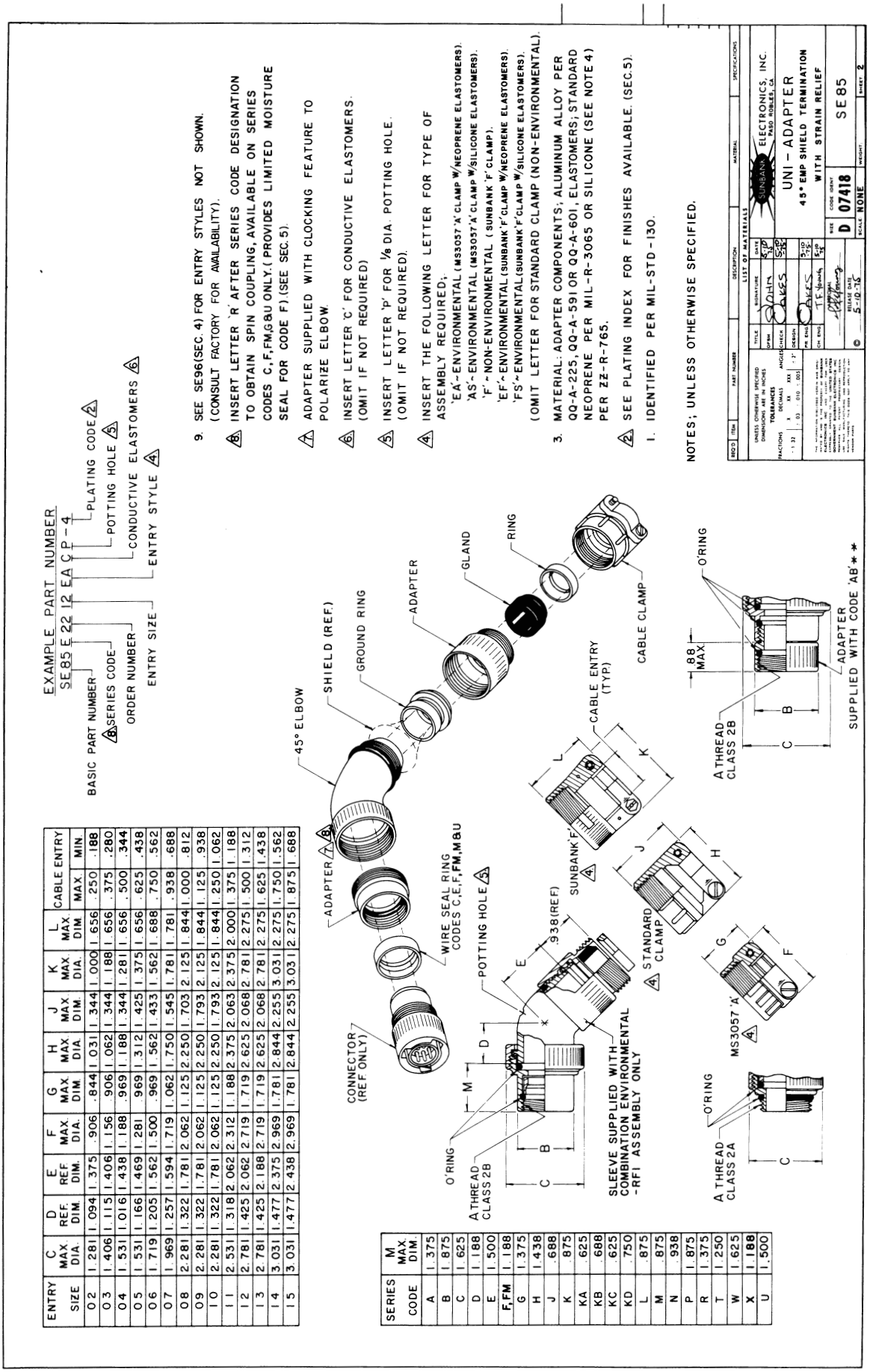
SERIES CODE	G MAX. DIM.
A	1.375
B	1.875
C	1.625
D	1.188
E	1.500
F,FM	1.188
G	1.375
H	1.438
J	.688
K	.875
KA	.625
KB	.688
KC	.625
KD	.750
L	.875
M	.875
N	.938
P	1.875
R	1.375
T	1.250
W	1.625
X	1.188
U	1.500



NOTES; UNLESS OTHERWISE SPECIFIED.

1. IDENTIFIED PER MIL-STD-130.
2. SEE PLATING INDEX FOR FINISHES AVAILABLE.(SEC.5).
3. INSERT LETTER 'C' FOR CHAIN ATTACHMENT. (OMIT LETTER IF NOT REQUIRED).
4. INSERT LETTER 'S' FOR SILICONE GLAND & O'RINGS. (OMIT LETTER FOR STANDARD NEOPRENE).
5. INSERT LETTER; 'N'~FOR NON-RFI ASSEMBLY (INDIVIDUAL SHIELD RFI RINGS WILL BE OMITTED). 'R'~FOR STYLE 'R' TYPE RFI RINGS FOR OVERALL SHIELD (OMIT LETTER FOR STANDARD RFI ASSEMBLY WITH INDIVIDUAL SHIELD RINGS).
6. MATERIAL; ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225, QQ-A-591 OR QQ-A-601, HARDWARE; SST, ELASTOMERS; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 4) PER ZZ-R-765.
A. ADAPTER IS SUPPLIED WITH A CLOCKING FEATURE TO POLARIZE ELBOW.
B. INSERT LETTER 'R' AFTER SERIES CODE DESIGNATOR TO OBTAIN SPIN COUPLING AVAILABLE ON SERIES CODES 'C','F','FM','G' & 'U' ONLY. (SEE SEC.5).

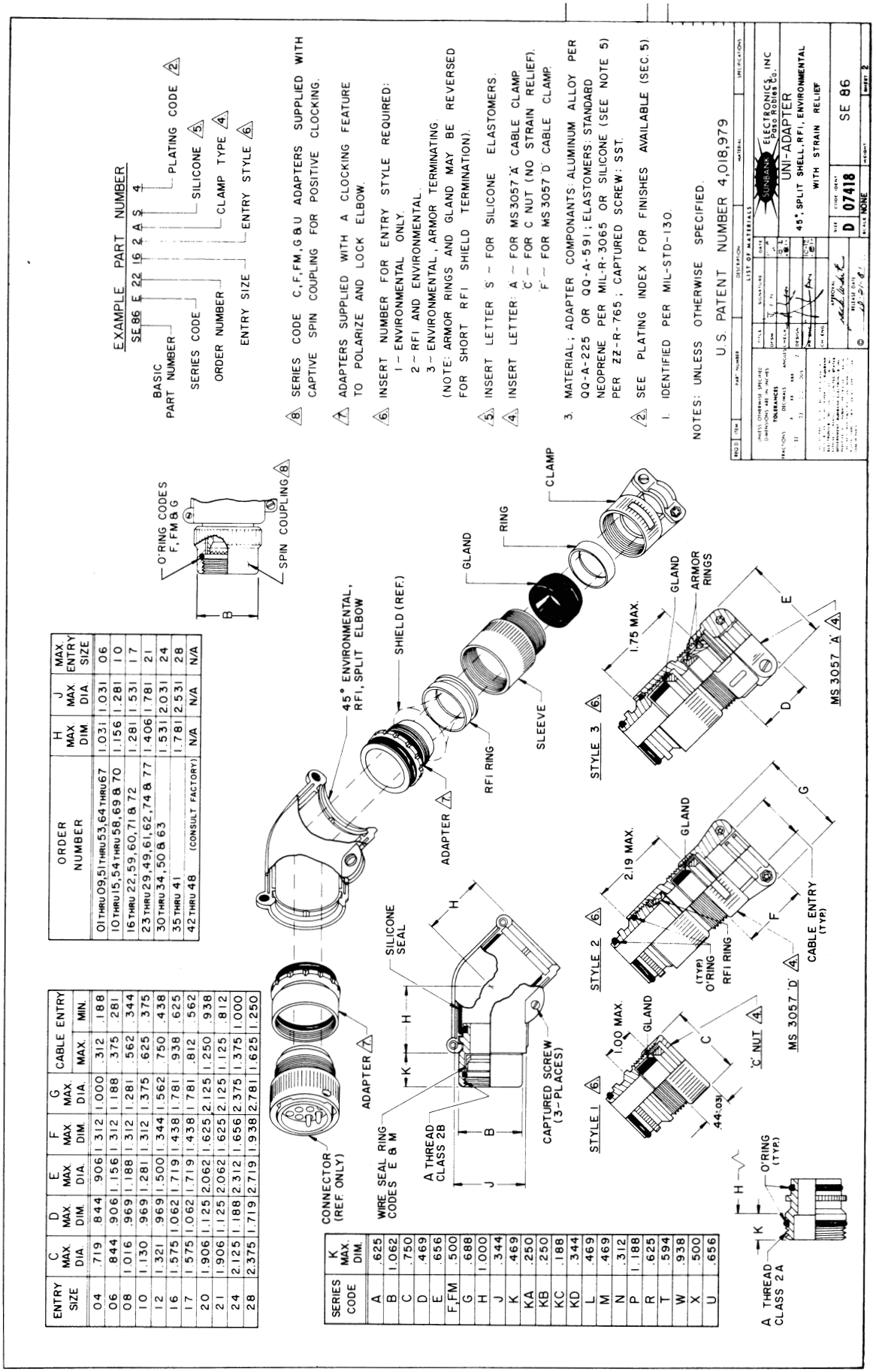
ELECTRONICS, INC. PASO ROBLES, CA
UNI-ADAPTER
45° ARMOR BRAID TERMINATING, ENVIRONMENTAL, ISOLATED RFI
SIZE D | CODE IDENT 07418 | SE84
SCALE NONE | WEIGHT | SHEET 2



ENTRY SIZE	C MAX. DIA.	D REF. DIM.	E REF DIM.	F MAX. DIA.	G MAX. DIM.	H MAX. DIA.	J MAX DIM.	K MAX. DIA.	L MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN
02	1.281	1.094	1.375	.906	.844	1.031	1.344	1.000	1.656	.250	.188
03	1.406	1.115	1.406	1.156	.906	1.062	1.344	1.188	1.656	.375	.280
04	1.531	1.016	1.438	1.188	.969	1.188	1.344	1.281	1.656	.500	.344
05	1.531	1.166	1.469	1.281	.969	1.312	1.425	1.375	1.656	.625	.438
06	1.719	1.205	1.562	1.500	.969	1.562	1.433	1.562	1.688	.750	.562
07	1.969	1.257	1.594	1.719	1.062	1.750	1.545	1.781	1.781	.938	.688
08	2.281	1.322	1.781	2.062	1.125	2.250	1.703	2.125	1.844	1.000	.812
09	2.281	1.322	1.781	2.062	1.125	2.250	1.793	2.125	1.844	1.125	.938
10	2.281	1.322	1.781	2.062	1.125	2.250	1.793	2.125	1.844	1.250	1.062
11	2.531	1.318	2.062	2.312	1.188	2.375	2.063	2.375	2.000	1.375	1.188
12	2.781	1.425	2.062	2.719	1.719	2.625	2.068	2.781	2.275	1.500	1.312
13	2.781	1.425	2.188	2.719	1.719	2.625	2.068	2.781	2.275	1.625	1.438
14	3.031	1.477	2.375	2.969	1.781	2.844	2.255	3.031	2.275	1.750	1.562
15	3.031	1.477	2.438	2.969	1.781	2.844	2.255	3.031	2.275	1.875	1.688

SERIES CODE	M MAX. DIM.
A	1.375
B	1.875
C	1.625
D	1.188
E	1.500
F,FM	1.188
G	1.375
H	1.438
J	.688
K	.875
KA	.625
KB	.688
KC	.625
KD	.750
L	.875
M	.875
N	.938
P	1.875
R	1.375
T	1.250
W	1.625
X	1.188
U	1.500

SE86

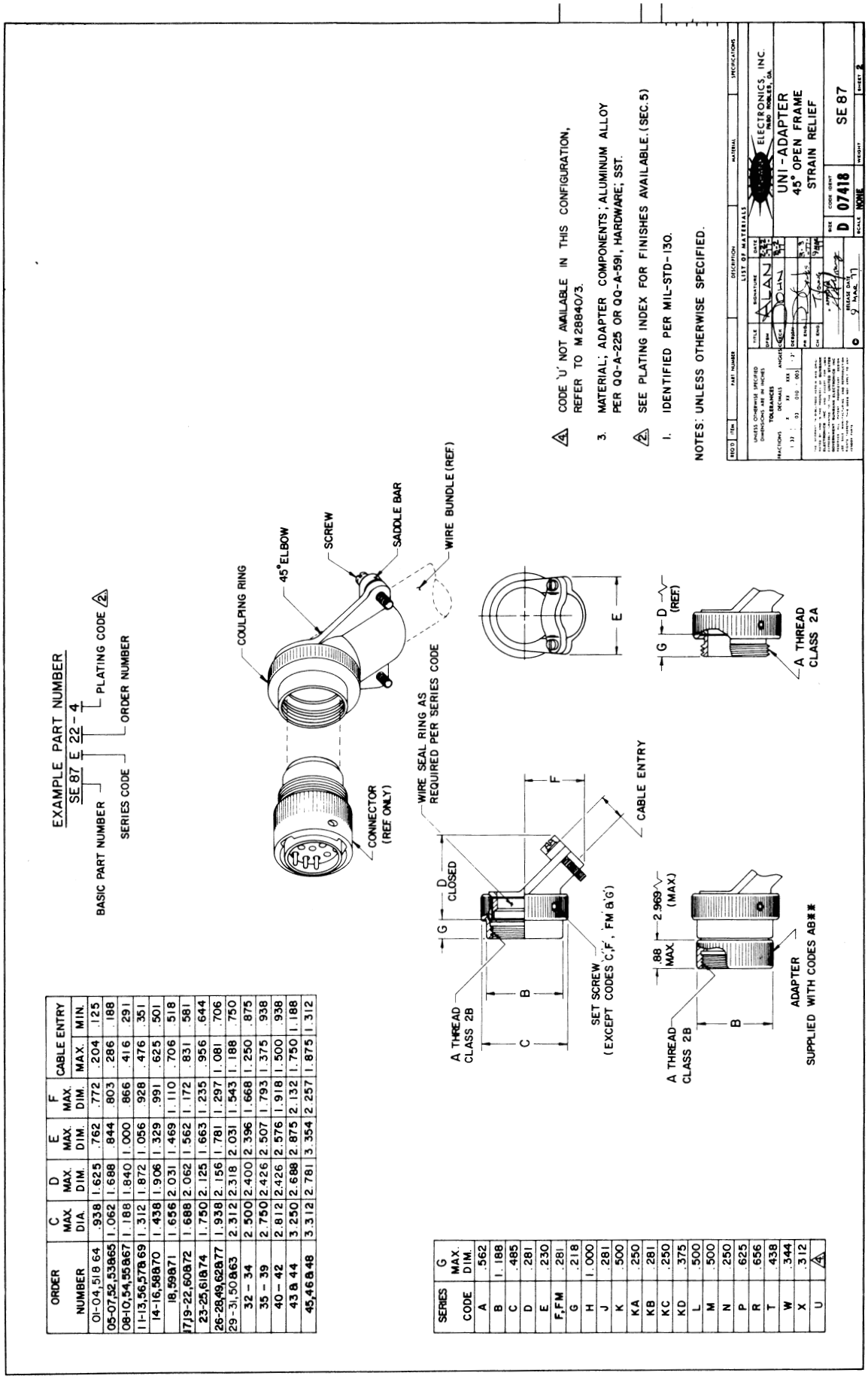


ORDER NUMBER	H MAX. DIM	J MAX. DIA.	MAX. ENTRY SIZE
01 THRU 09,51 THRU 53,64 THRU 67	1.031	1.031	06
10 THRU 15,54 THRU 58,69 & 70	1.156	1.281	10
16 THRU 22,59,60,71 & 72	1.281	1.531	17
23 THRU 29,49,61,62,74 & 77	1.406	1.781	21
30 THRU 34,50 & 63	1.531	2.031	24
35 THRU 41	1.781	2.531	28
42 THRU 48 (CONSULT FACTORY)	N/A	N/A	N/A

ENTRY SIZE	C MAX. DIA.	D MAX. DIM.	E MAX. DIA.	F MAX. DIM.	G MAX. DIA.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
04	.719	.844	.906	1.312	1.000	.312	.188
06	.844	.906	1.156	1.312	1.188	.375	.281
08	1.016	.969	1.188	1.312	1.281	.562	.344
10	1.130	.969	1.281	1.312	1.375	.625	.375
12	1.321	.969	1.500	1.344	1.562	.750	.438
16	1.575	1.062	1.719	1.438	1.781	.938	.625
17	1.575	1.062	1.719	1.438	1.781	.812	.562
20	1.906	1.125	2.062	1.625	2.125	1.250	.938
21	1.906	1.125	2.062	1.625	2.125	1.125	.812
24	2.125	1.188	2.312	1.656	2.375	1.375	1.000
28	2.375	1.719	2.719	1.938	2.781	1.625	1.250

SERIES CODE	K MAX. DIM.
A	.625
B	1.062
C	.750
D	.469
E	.656
F,FM	.500
G	.688
H	1.000
J	.344
K	.469
KA	.250
KB	.250
KC	.188
KD	.344
L	.469
M	.469
N	.312
P	1.188
R	.625
T	.594
W	.938
X	.500
U	.656

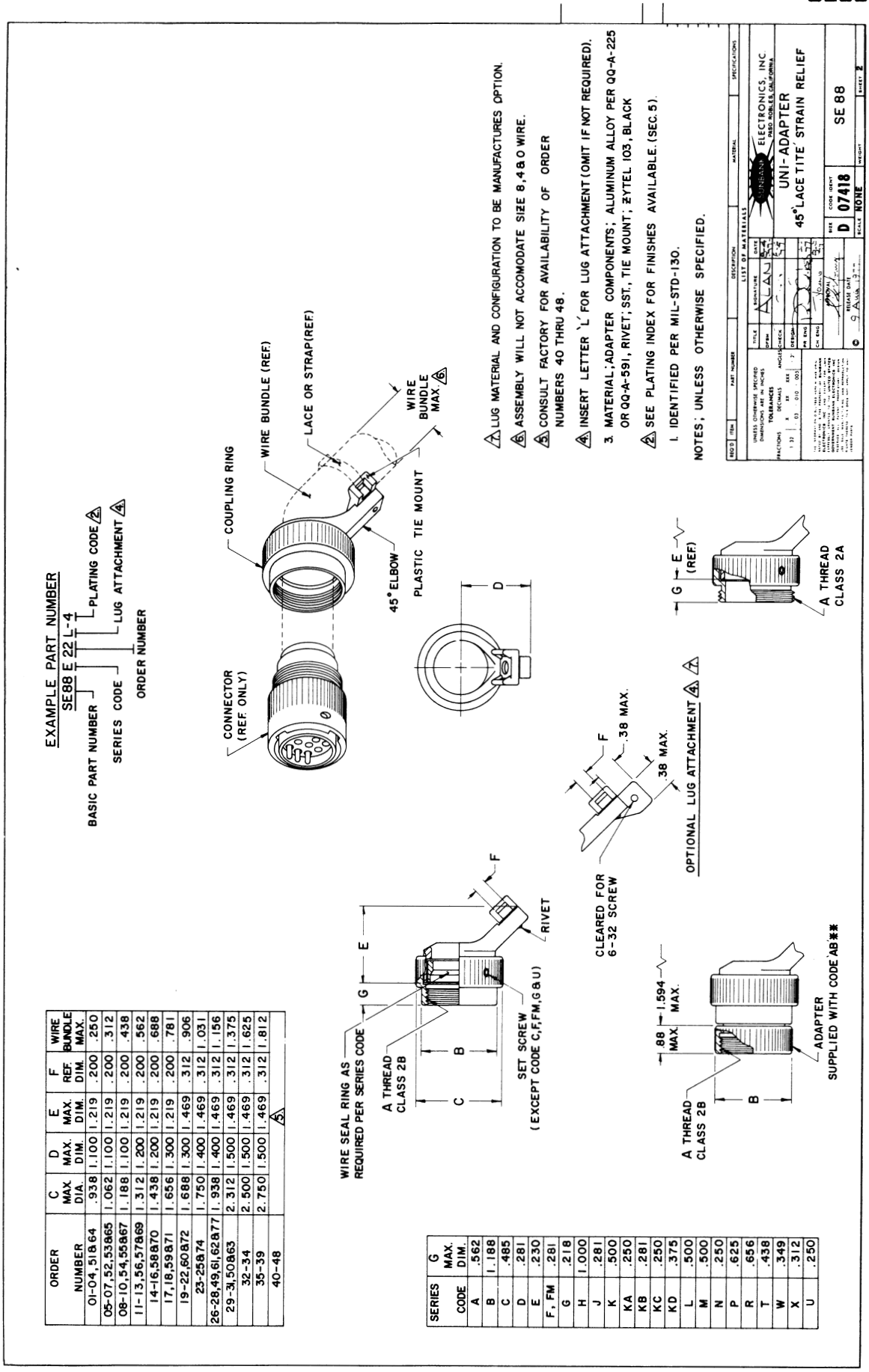
SE87



ORDER NUMBER	C MAX. DIA.	D MAX. DIM.	E MAX. DIM.	F MAX. DIM.	CABLE ENTRY MAX.	CABLE ENTRY MIN.
01-04,518 64	.938	1.625	.762	.772	.204	.125
05-07,52,53865	1.062	1.688	.844	.803	.286	.188
08-10,54,55867	1.188	1.840	1.000	.866	.416	.291
11-13,56,57869	1.312	1.872	1.056	.928	.476	.351
14-16,58870	1.438	1.906	1.329	.991	.625	.501
18,59871	1.656	2.031	1.469	1.110	.706	.518
17,19-22,60872	1.688	2.062	1.562	1.172	.831	.581
23-25,61874	1.750	2.125	1.663	1.235	.956	.644
26-28,49,62877	1.938	2.156	1.781	1.297	1.081	.706
29-31,50863	2.312	2.318	2.031	1.543	1.188	.750
32 - 34	2.500	2.400	2.396	1.668	1.250	.875
35 - 39	2.750	2.426	2.507	1.793	1.375	.938
40 - 42	2.812	2.426	2.576	1.918	1.500	.938
43 & 44	3.250	2.688	2.875	2.132	1.750	1.188
45,46 & 48	3.312	2.781	3.354	2.257	1.875	1.312

SERIES CODE	G MAX. DIM.
A	.562
B	1.188
C	.485
D	.281
E	.230
F,FM	.281
G	.218
H	1.000
J	.281
K	.500
KA	.250
KB	.281
KC	.250
KD	.375
L	.500
M	.500
N	.250
P	.625
R	.656
T	.438
W	.344
X	.312
U	(4)

SE88



ORDER NUMBER	C MAX. DIA.	D MAX. DIM.	E MAX. DIM.	F REF. DIM.	WIRE BUNDLE MAX.
01-04,51864	.938	1.100	1.219	.200	.250
05-07,52,53865	1.062	1.100	1.219	.200	.312
08-10,54,55867	1.188	1.100	1.219	.200	.438
11-13,56,57869	1.312	1.200	1.219	.200	.562
14-16,58870	1.438	1.200	1.219	.200	.688
17,18,59871	1.656	1.300	1.219	.200	.781
19-22,60872	1.688	1.300	1.469	.312	.906
23-25874	1.750	1.400	1.469	.312	1.031
26-28,49,61,62877	1.938	1.400	1.469	.312	1.156
29-31,50863	2.312	1.500	1.469	.312	1.375
32-34	2.500	1.500	1.469	.312	1.625
35-39	2.750	1.500	1.469	.312	1.812
40-48			⚠5		

SERIES CODE	G MAX. DIM.
A	.562
B	1.188
C	.485
D	.281
E	.230
F, FM	.281
G	.218
H	1.000
J	.281
K	.500
KA	.250
KB	.281
KC	.250
KD	.375
L	.500
M	.500
N	.250
P	.625
R	.656
T	.438
W	.349
X	.312
U	.250

SECTION 4

Miscellaneous Accessories

PRODUCT INDEX
SECTION 4 — MISCELLANEOUS ACCESSORIES

DRAWING NUMBER		ASSEMBLY PROCEDURE REFERENCE
SCP0011	Composite split support ring.	N/A
SE90	Protective Cover for "MS" Threaded Coupling Connectors, Environmental, RFI/EMI Sealing, and Attachment Options.	N/A
SE91	Protective Cover For "MS" Bayonet Coupling Connectors, Environmental, RFI/EMI Sealing, and Attachment Options.	N/A
SE93	Through Bulkhead Adapter with RFI/EMI, Environmental and Strain Relief Options. (Armor braid, overall or individual shield terminating).	AP16
SE94	Flexible EMI Assembly.	N/A
SE95	Independent Terminator, Repairable Non-Crimp RFI/EMI Shield Terminating or Splicing with Shrink Sleeve Option. (Overall and/or individual shield terminating).	AP95
SE96	Clamp, Strain Relief, for MS "V" Thread Accessories.	N/A
SE97	Shield Support Ring, (Ref: SE27, SE29 and SE64)	N/A
SE98	Dummy Stowage Receptacle, bayonet type	N/A

SELF-SEATING PATENT NO. 5,435,760

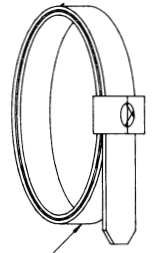
REVISIONS			
LTR.	DESCRIPTION	DATE	APPROVED

EXAMPLE PART NUMBER

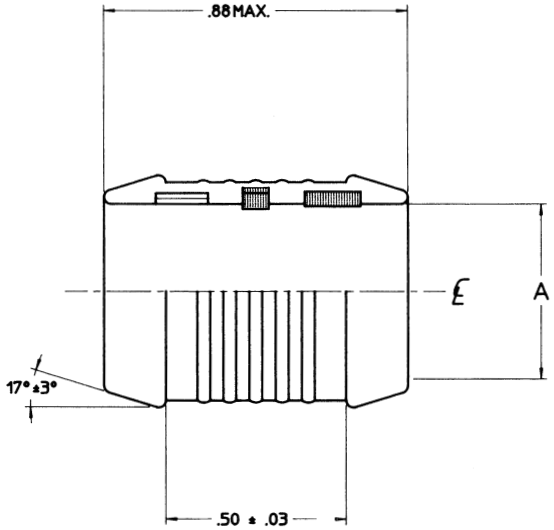
SCP0011 S 04 A 2

- SCP0011 — BASIC PART NUMBER
- S — STRAIGHT CONFIGURATION
- 04 — ENTRY SIZE
- A — FINISH-NON-CONDUCTIVE COMPOSITE (COLOR NATURAL)
- 2 — SUNBAND® (3.)

ENTRY SIZE	A ±.015 DIA.
04	.250
06	.375
08	.500
10	.625
12	.750
14	.875
16	1.000
18	1.125
20	1.250
22	1.375
24	1.500
28	1.750
(5.) 32	2.000
(5.) 36	2.250



S3175-2 SUNBAND® (3.)
(U.S. PATENT #4,751,769)



(5.) CONSULT FACTORY FOR BAND AVAILABILITY.

4. TWO HALVES SNAP TOGETHER MANUALLY TO RETAIN THEM ABOUT THE CABLE.

(3.) INSERT ONE OF THE FOLLOWING NUMBERS FOR SUNBAND® REQUIREMENTS
1~FOR NO SUNBAND ® SUPPLIED
2~FOR SUNBAND ® SUPPLIED LOOSE
(CONSULT FACTORY FOR AVAILABILITY OF INSTALLATION TOOL)

2. MATERIAL:
SUPPORT RING~THERMOPLASTIC COMPOSITE
SUNBAND ® ~ SST. PASSIVATED PER QQ-P-35

1. ASSEMBLY IDENTIFIED PER MIL-STD-130. BAG AND TAG.

NOTES:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRAC. ±1/32 | DECIMAL .X ±.030, .XX ±.010, .XXX ±.005 | ANGLES ± 2°

	SIGNATURE	DATE
TITLE		
DFSM	ROD	2-11-91
CHECK	LEONARDO	2-11-91
DESIGN		
PR.ENG.		
APPROVAL	ALAN MIKLOS	
RELEASE DATE	2-12-91	

SUNBANK ELECTRONICS, INC. Paso Robles, California

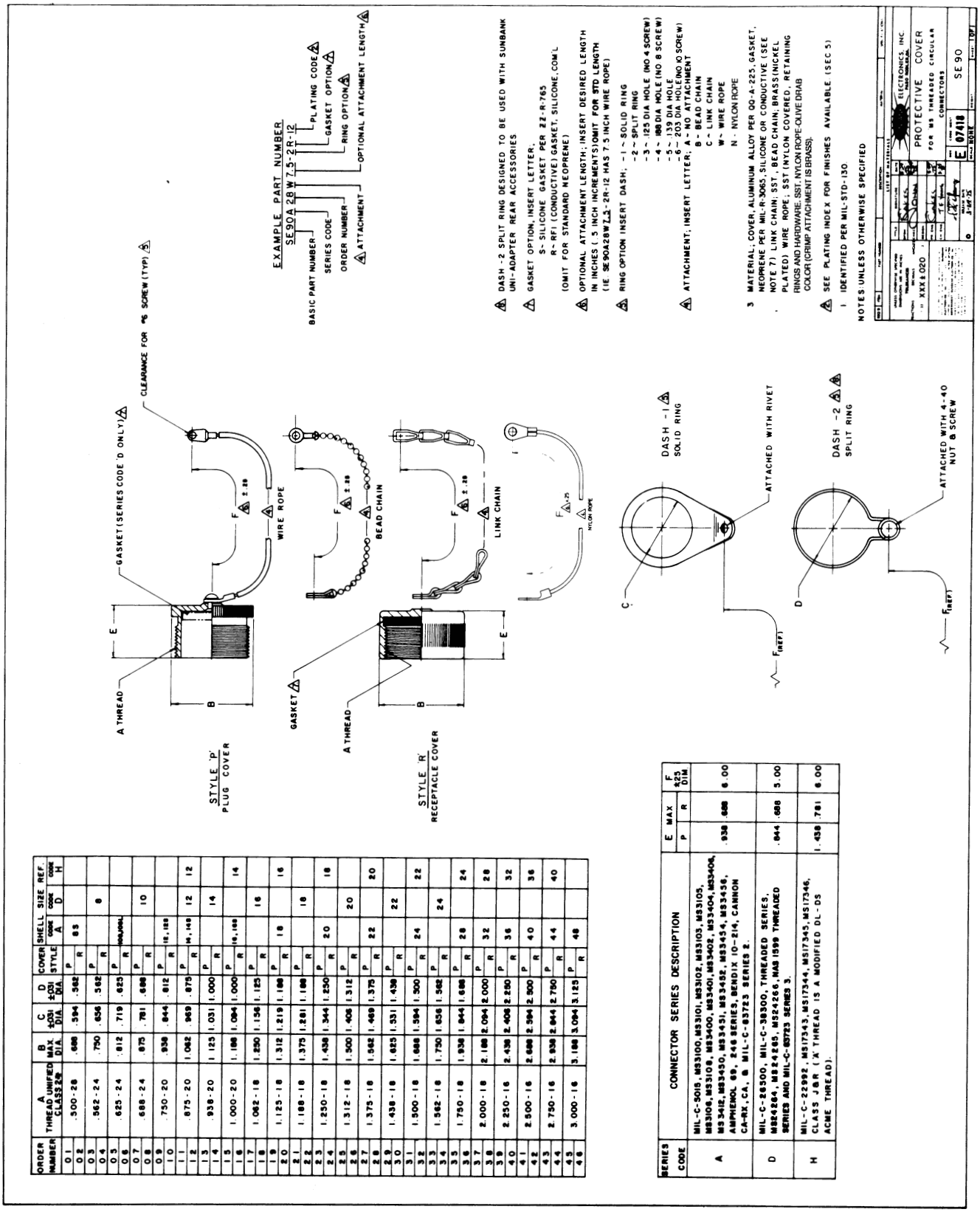
SPLIT SUPPORT RING

SIZE	CODE IDENT.	
C	07418	SCP0011

SCALE: NONE | WEIGHT: | SHEET: 1 OF 1

SCP0011

SE90

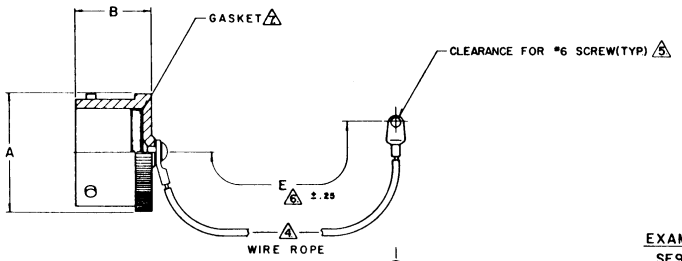


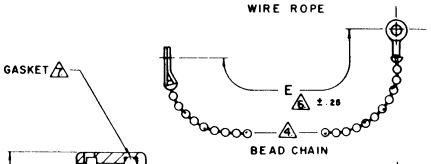
ORDER NUMBER	A THREAD UNIFIED CLASS 2B	B MAX. DIA.	C ±.031 DIA.	D ±.031 DIA.	COVER STYLE	SHELL SIZE REF. CODE A	SHELL SIZE REF. CODE D	SHELL SIZE REF. CODE H
01	.500-28	.688	.594	.562	P	03		
02					R			
03	.562-24	.750	.656	.562	P	05	8	
04					R			
05	.625-24	.812	.719	.625	P	07		
06					R			
07	.688-24	.875	.781	.688	P	09	10	
08					R			
09	.750-20	.938	.844	.812	P	11	12, 188	
10					R			
11	.875-20	1.062	.969	.875	P	13	14, 188	12
12					R			
13	.938-20	1.125	1.031	1.000	P	15	14	
14					R			
15	1.000-20	1.188	1.094	1.000	P	17	16, 188	14
16					R			
17	1.062-18	1.250	1.156	1.125	P	19	16	
18					R			
19	1.125-18	1.312	1.219	1.188	P	21	18	16
20					R			
21	1.188-18	1.375	1.281	1.188	P	23	18	
22					R			
23	1.250-18	1.438	1.344	1.250	P	25	20	18
24					R			
25	1.312-18	1.500	1.406	1.312	P	27	20	
26					R			
27	1.375-18	1.562	1.469	1.375	P	29	22	20
28					R			
29	1.438-18	1.625	1.531	1.438	P	31	22	
30					R			
31	1.500-18	1.688	1.594	1.500	P	33	24	22
32					R			
33	1.562-18	1.750	1.656	1.562	P	35	24	
34					R			
35	1.750-18	1.938	1.844	1.688	P	37	28	24
36					R			
37	2.000-18	2.188	2.094	2.000	P	41	32	28
38					R			
39	2.250-18	2.438	2.406	2.250	P	45	36	32
40					R			
41	2.500-18	2.688	2.594	2.500	P	49	40	36
42					R			
43	2.750-18	2.938	2.844	2.750	P	53	44	40
44					R			
45	3.000-16	3.188	3.094	3.125	P	57	48	
46					R			

SERIES CODE	CONNECTOR SERIES DESCRIPTION	E MAX P	E MAX R	F .425 DIM
A	MIL-C-5015, MS3100, MS3101, MS3102, MS3103, MS3105, MS3106, MS3108, MS3400, MS3401, MS3402, MS3404, MS3406, MS3412, MS3450, MS3451, MS3458, MS3454, MS3456, AMPHENOL 80, 260 SERIES, BENDIX 10-214, CANNON CA-RX, CA, & MIL-C-83723 SERIES 2.	.938	.688	6.00
D	MIL-C-26500, MIL-C-38300, THREADED SERIES, MS24264, MS24265, MS24266, NAS 1599 THREADED SERIES AND MIL-C-83723 SERIES 3.	.844	.688	5.00
H	MIL-C-22992, MS17343, MS17344, MS17345, MS17346, CLASS J&R (A THREAD IS A MODIFIED DL-DS ACME THREAD).	1.438	.781	6.00

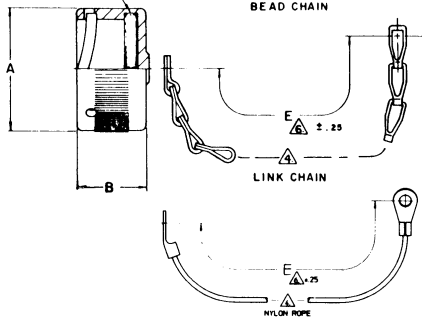
ORDER NUMBER	A MAX. DIA.	B MAX. DIM.	C ±.031 DIA.	D ±.031 DIA.	COVER STYLE	SHELL SIZE REFERENCE CODE D	CODE E	CODE F&FA	CODE G&H
01	.781	.870	.578	.562	P	8	8	8,9	
02		.669			R				
03	.844	1.000	.635	.625	P				8
04		.938			R				
05	.969	.870	.703	.750	P	10	10	10,11	
06		.669			R				
07	.969	1.000	.760	.656	P				10
08		.938			R				
09	1.125	.870	.895	.812	P	12	12	12,13	
10		.669			R				
11	1.250	.870	1.016	.938	P	14	14	14,15	
12		.669			R				
13	1.219	1.000	1.016	1.000	P				14
14		.938			R				
15	1.406	.870	1.141	1.062	P	16	16	16,17	
16		.669			R				
17	1.344	1.000	1.141	1.125	P				16
18		.938			R				
19	1.500	.870	1.266	1.188	P	18	18	18,19	
20		.669			R				
21	1.469	1.000	1.266	1.250	P				18
22		.938			R				
23	1.625	.870	1.391	1.312	P	20	20	20,21	
24		.669			R				
25	1.594	1.000	1.391	1.375	P				20
26		.938			R				
27	1.750	.870	1.516	1.438	P	22	22	22,23	
28		.669			R				
29	1.719	1.000	1.531	1.500	P				22
30		.938			R				
31	1.875	.870	1.641	1.562	P	24	24	24,25	
32		.669			R				
33	1.844	1.000	1.641	1.625	P				24
34		.938			R				

STYLE 'P'
PLUG COVER





STYLE 'R'
RECEPTACLE COVER

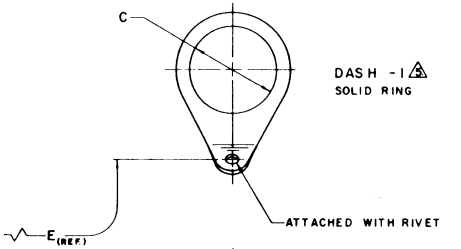


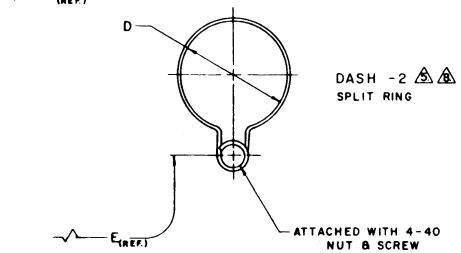
EXAMPLE PART NUMBER

SE91 E 20 W 6.5 - 2R - 12

- SE91 — BASIC PART NUMBER
- E — SERIES CODE
- 20 — ORDER NUMBER
- W — 4 ATTACHMENT
- 6.5 — ATTACHMENT LENGTH OPTION 6
- 2R — RETAINING RING OPTION 5
- GASKET OPTION. 1
- 12 — PLATING CODE 2

SERIES CODE	CONNECTOR SERIES DESCRIPTION	E ±.25 DIM.
D	MIL-C-26500, MIL-C-38300 'BAYONET COUPLING' MS24264, 65, 66, MIL-C-83723 SERIES 3.	5.00
E	MIL-C-26482, MS3110, MS3112, MS3113, MS3114, MS3115, MS3116, MS3120, MS3121, MS3122, MS3124, MS3126, MS3127, MS3128, NAS1599, MIL-C-83723 SERIES 1, MIL-C-26482 SER 2	5.00
F	MIL-C-38999, MS 27472, 73, 74, 75, 76, 78, 79, 80, 81, 82, 83, 84, 97 99, MS27334, 35, 36, 37, MS 27500, 03, 04, 08 SERIES 2.	5.00
G	MIL-C-81511, 100% SCOOP, AMPHENOL & CINCH 'ASTRO' 348 SERIES, DEUTSCH A815 SERIES.	5.00
H	MIL-C-81511, 50% SCOOP, AMPHENOL & CINCH 'ASTRO' 348 SERIES, DEUTSCH B815 SERIES.	5.00
FA	MIL-C-38999, MS 27466, 67, 68, 69, 70, 71, MS 20026, 27, 28, 29, MS 27515, MS27656 SERIES 1.	5.00





6 DASH -2 SPLIT RING DESIGNED TO BE USED WITH SUNBANK UNI-ADAPTER REAR ACCESSORIES.

1 GASKET OPTION, INSERT LETTER;
S - SILICONE GASKET PER ZZ-R-765, (STD CODE G&H)
R - RFI (CONDUCTIVE) GASKET, SILICONE, COM'L.
F - FLUORO SILICONE
(OMIT FOR STANDARD NEOPRENE)

6 OPTIONAL ATTACHMENT LENGTH; INSERT DESIRED LENGTH IN INCHES (.5 INCH INCREMENTS) OMIT FOR STD. LENGTH (I.E. SE91E20W6.5-2R-12 HAS 6.5 INCH WIRE ROPE)

5 RING OPTION, INSERT DASH; -1 - SOLID RING
-2 - SPLIT RING
-3 - .125 DIA HOLE (NO. 4 SCREW).
-4 - .188 DIA. HOLE (NO. 8 SCREW).
-5 - .139 DIA. HOLE
-6 - .203 DIA HOLE (NO. 10 SCREW).

4 ATTACHMENT; INSERT LETTER; A - NO ATTACHMENT
B - BEAD CHAIN.
C - LINK CHAIN.
W - WIRE ROPE.
N - NYLON ROPE

3. MATERIAL; COVER ALUMINUM ALLOY PER QQ-A-225, GASKET NEOPRENE PER MIL-R-3065, (SEE NOTE 7), LINK CHAIN, SST, BEAD CHAIN; BRASS (NICKEL PLATED), WIRE ROPE, SST (NYLON COVERED), RETAINING RINGS AND HARDWARE. SST. NYLON ROPE-OLIVE DRAB COLOR (CRIMP ATTACHMENT IS BRASS).

2 SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5)

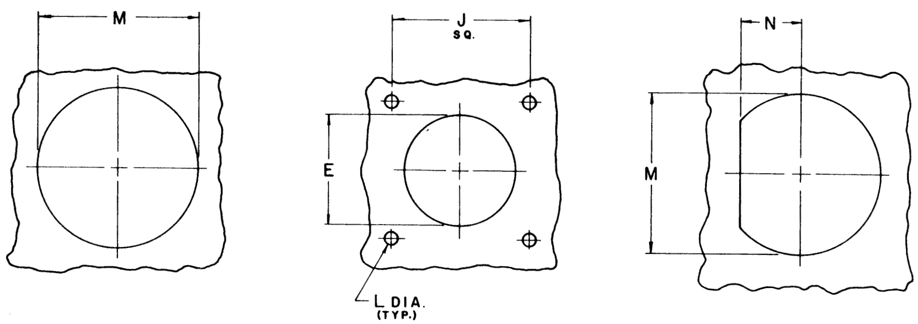
1. IDENTIFIED PER MIL-STD-130

NOTES; UNLESS OTHERWISE SPECIFIED.

ELECTRONICS, INC.
PROTECTIVE COVER
FOR 'MS' BAYONET COUPLING CONNECTORS
SIZE E | CODE IDENT 07418 | SE 91
SCALE NONE | SHEET 1 OF 1

SE93

ORDER NUMBER	CABLE ENTRY MAX.	CABLE ENTRY MIN.	A MAX. DIM.	B MAX. DIM.	C MAX. DIA.	D ±.031 DIM.	E +.031 -.000 DIA.	F MAX. DIA.	G ±.031 DIA.	H ±.031 DIM.	J ±.010 DIM.	K ±.031 DIM.	L ±.010 DIA.	M +.015 -.000 DIA.	N +.015 -.000 DIA.	V UNIFIED 2A THREAD
03	.250	.156	.750	.688	.844	.812	.250	.594	1.000	.875	.594	.875	.125	.515	.198	.500-28
04	.312	.188	.750	.875	.906	.812	.312	.719	1.125	1.000	.812	1.094	.125	.640	.260	.625-24
06	.438	.281	.750	.875	1.094	.875	.438	.844	1.250	1.125	.906	1.188	.125	.765	.322	.750-20
08	.562	.344	.750	.875	1.188	.938	.562	.984	1.375	1.250	.969	1.281	.125	.890	.385	.875-20
10	.625	.375	.750	.875	1.281	.938	.625	1.125	1.500	1.375	1.062	1.375	.125	1.015	.448	1.000-20
12	.750	.438	.812	.875	1.500	.938	.750	1.312	1.688	1.562	1.250	1.625	.125	1.203	.541	1.188-18
16	.938	.625	.812	.875	1.719	1.031	.938	1.562	1.938	1.812	1.375	1.750	.156	1.453	.666	1.438-18
20	1.250	.875	.812	.938	2.062	1.094	1.250	1.875	2.250	2.125	1.562	2.000	.156	1.765	.822	1.750-18
24	1.375	1.000	.875	1.000	2.312	1.156	1.375	2.125	2.500	2.375	1.750	2.250	.188	2.015	.948	2.000-18
28	1.625	1.250	.875	1.000	2.719	1.688	1.625	2.375	2.750	2.625	1.938	2.500	.188	2.265	1.072	2.250-16
32	1.875	1.500	.875	1.062	2.969	1.750	1.875	2.625	3.000	2.875	2.188	2.750	.188	2.515	1.198	2.500-16
9△ 40	2.375	1.469	1.000	1.188	3.531	1.750	2.375	3.125	3.500	3.375	2.625	3.250	.188	3.015	1.448	3.000-16



PANEL CUTOUT STYLE 'A'

PANEL CUTOUT STYLE 'B'

PANEL CUTOUT STYLE 'C'

EXAMPLE PART NUMBER

SE93-16 3 A - 4 S C

- BASIC PART NUMBER (SE93)
- ORDER NUMBER (16)
- 5△ FITTING TYPE (3)
- FITTING STYLE 4△ (A)
- PLATING CODE 2△ (4)
- SILICONE 7△ (S)
- NUT OPTION 8△ (C)

9△ ORDER NUMBER 40 NOT AVAILABLE TYPE 1 & 3.

8△ ADD LETTER 'C' FOR NUT (NO STRAIN RELIEF).
ADD LETTER 'N' FOR NO NUT OR CLAMP.
(OMIT LETTER FOR STANDARD MS3057-**A CLAMP).

7△ ADD LETTER 'S' TO PART NUMBER FOR SILICONE GLAND AND O'RINGS (STYLES 1 & 3 ONLY).

6△ TYPE '3' ASSEMBLIES; THE GLAND AND RFI RINGS MAY BE INTERCHANGED FOR ENVIRONMENTAL ARMOR SHIELD TERMINATION.

5△ INSERT THE FOLLOWING NUMBER FOR FITTING TYPE:
1 - ENVIRONMENTAL ONLY.
2 - RFI ONLY.
3 - RFI AND ENVIRONMENTAL.
4 - NON-RFI, NON-ENVIRONMENTAL.

4△ INSERT THE FOLLOWING LETTER FOR FITTING STYLE:
A - THRU BULKHEAD MOUNTING.
B - FLANGE MOUNTING.
C - JAM NUT 'D' HOLE MOUNTING.

3. MATERIAL: ADAPTER COMPONENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, ELASTOMERS STD. NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 7) PER ZZ-R-765.

2△ SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC.5).

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED:

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ±1/32 DECIMALS X ±.03 XX ±.010 XXX ±.005 ANGLES ±2°

TITLE	SIGNATURE	DATE
DFTSM	Oakes	3-10-75
CHECK	John	4-22-75
DESIGN		
PR ENG	Oakes	3-10-75
CH ENG	T.F. Young	3-10-75

APPROVAL
RELEASE DATE 3-10-75

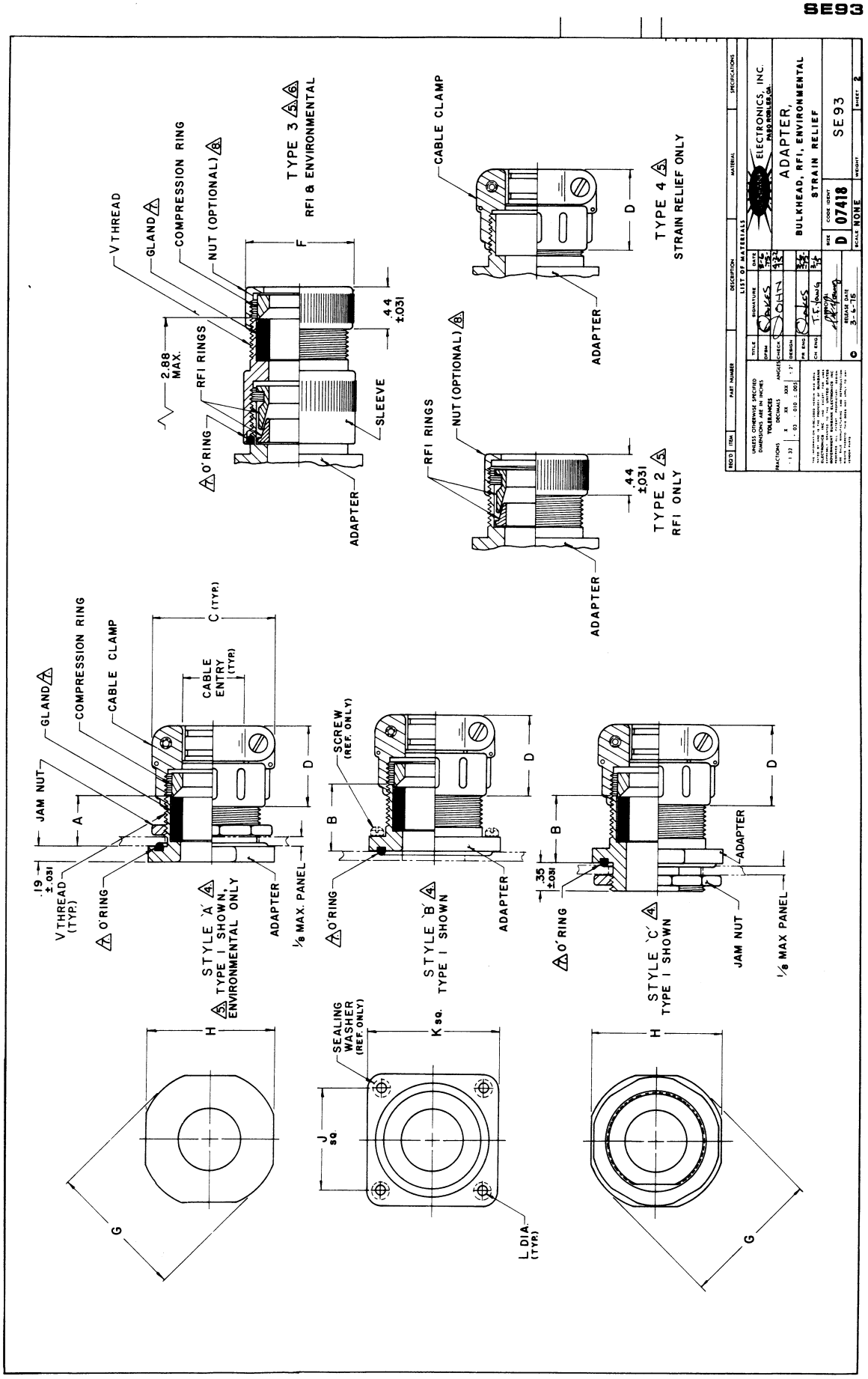
SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

ADAPTER, BULKHEAD, RFI, ENVIRONMENTAL STRAIN RELIEF

SIZE D | CODE IDENT. 07418 | SE93

SCALE NONE | WEIGHT: | SHEET 1 of 2

SE93


V THREAD
GLAND
COMPRESSION RING
NUT (OPTIONAL)
TYPE 3
RFI & ENVIRONMENTAL
F
2.88 MAX.
RFI RINGS
.44 ±.031
O'RING
SLEEVE
ADAPTER
CABLE CLAMP
D
TYPE 4
STRAIN RELIEF ONLY
ADAPTER
RFI RINGS
NUT (OPTIONAL)
.44 ±.031
TYPE 2
RFI ONLY
ADAPTER
ELECTRONICS, INC.
ADAPTER,
BULKHEAD, RFI, ENVIRONMENTAL
STRAIN RELIEF
SIZE D
CODE IDENT 07418
SE93
SCALE NONE
WEIGHT
SHEET 2
JAM NUT
GLAND
COMPRESSION RING
CABLE CLAMP
C (TYP.)
CABLE ENTRY (TYP.)
A
D
.19 ±.031
V THREAD (TYP.)
O'RING
ADAPTER
⅛ MAX. PANEL
STYLE 'A'
TYPE I SHOWN,
ENVIRONMENTAL ONLY
SCREW (REF. ONLY)
B
D
O'RING
ADAPTER
STYLE 'B'
TYPE I SHOWN
.35 ±.031
B
D
O'RING
ADAPTER
JAM NUT
⅛ MAX PANEL
STYLE 'C'
TYPE I SHOWN
H
G
SEALING WASHER (REF. ONLY)
K SQ.
J SQ.
L DIA. (TYP.)
H
G

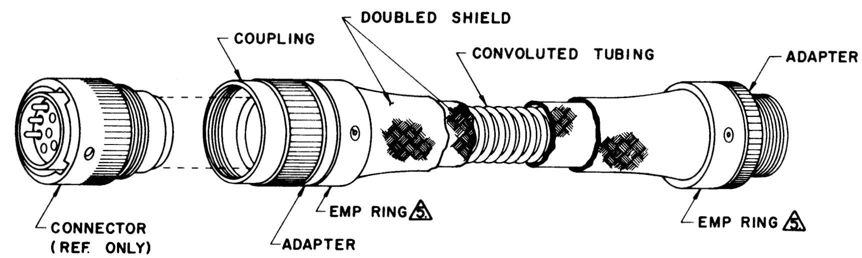
SE94

ENTRY SIZE	D UNIFIED 2A THREAD	E MIN. DIA.	TUBE SIZE (REF)	AVAILABLE ORDER NUMBER
28	.500-28	.218	.281	01-05, 64
37	.625-24	.312	.375	06-08,51,52,65
50	.750-20	.406	.500	09-11,53,54,67
62	.875-20	.500	.625	12-14,55,56,69
75	1.000-20	.625	.750	15-17,57,58,70
100	1.188-18	.812	1.000	18-22,59,60,71,72
125	1.438-18	1.000	1.250	23-28,61,62,74,77
163	1.750-18	1.312	1.625	29-40,49,50 & 63
	7			41-48

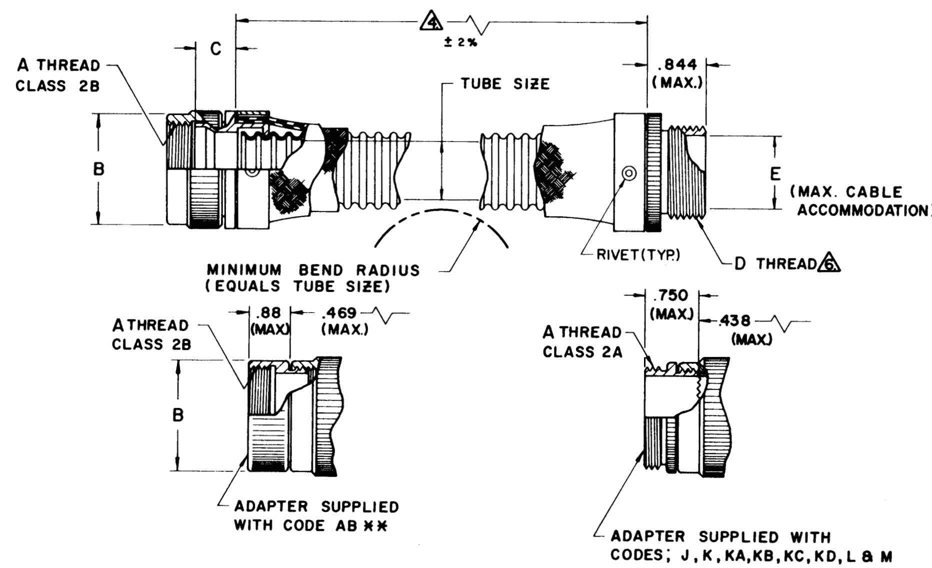
EXAMPLE PART NUMBER

SE94 E 22 100-9-4

- BASIC PART NUMBER (SE94)
- SERIES CODE (E)
- ORDER NUMBER (22)
- ENTRY SIZE (100)
- LENGTH IN INCHES 4 (9)
- PLATING CODE 2 (4)



SERIES CODE	C MAX. DIM.
A	.469
B	.750
C	.438
D	.438
E	.438
F, FM	.438
G	.750
H	1.125
J	.438
K	.438
KA	.438
KB	.438
KC	.438
KD	.438
L	.438
M	.438
N	.438
P	.625
R	.438
T	.375
W	.688
X	.344
U	.875



7. CONSULT FACTORY FOR AVAILABILITY OF ORDER NUMBERS 41 THRU 48.
6. MATES TO MS 'V' THREAD AND SUNBANK SE UNI-ADAPTER, SERIES CODE 'R'.
5. EMP RING IS IRIDITE OR BRONZE, TIN PLATED ON ALL ASSEMBLES.
4. LENGTH TO BE SPECIFIED BY CUSTOMER. (1 INCH INCREMENTS, 6 INCH MINIMUM ORDER LENGTH).
3. MATERIAL; ADAPTER COMPONMENTS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591. SHIELD; 36 GAGE Sn Cu (QQ-B-575) TUBING; POLY (VINYLIDENE FLORIDE) MODIFIED.
2. SEE PLATING INDEX FOR FINISHES AVAILABLE (SEC. 5).
1. IDENTIFIED PER MIL-STD-130.

NOTES; UNLESS OTHERWISE SPECIFIED:

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS 1/32 · DECIMALS .X .03 · .XX .010 · .XXX .005 · ANGLES ± 2

SUNBANK ELECTRONICS, INC.
PASO ROBLES, CA.

UNI-ADAPTER
FLEXIBLE EMI ASSEMBLY

SIZE D · CODE IDENT 07418 · SE94
SCALE NONE · WEIGHT · SHEET 2

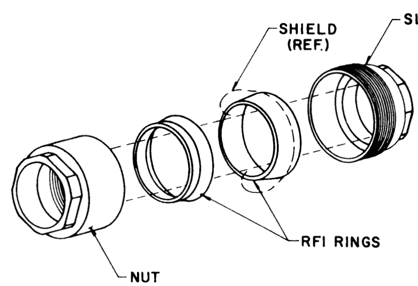
SE95

ORDER NUMBER	MAX WIRE BUNDLE	A ±.031 DIA.	B ACROSS FLATS
0 4	.188	.622	.375
0 6	.314	.748	.500
0 8	.438	.872	.625
1 0	.562	.997	.750
1 2	.688	1.122	.875
1 6	.814	1.247	1.000
2 0	.938	1.372	1.125
2 4	1.188	1.622	1.375
2 8	1.438	1.872	1.625
3 0	1.625	2.188	1.875
3 2	1.875	2.438	2.125
3 6	2.125	2.688	2.375
4 0	2.375	2.938	2.625

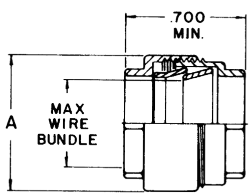
EXAMPLE PART NUMBER

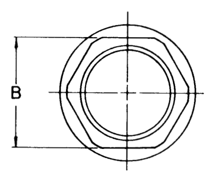
SE95-20-3 T

EXAMPLE PART NUMBER
ORDER NUMBER
SHRINK TUBING ⚠5
TERMINATION STYLE ⚠6

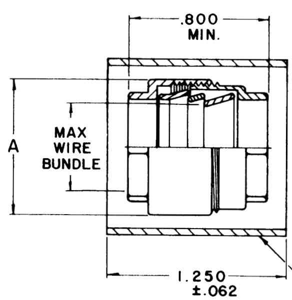


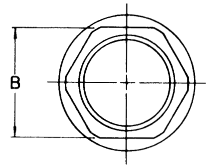
2 RING ⚠6 TERMINATION





3 RING ⚠6 TERMINATION





7. MATERIAL; ADAPTER COMPONENTS: ALUMINUM ALLOY PER QQ-A-225.

⚠6 INSERT NUMBER '2' IN PART NUMBER FOR 2 RING CONFIGURATION FOR TERMINATING INDIVIDUAL *OR* OVERALL SHIELD, INSERT NUMBER '3' IN PART NUMBER FOR 3 RING CONFIGURATION FOR TERMINATING INDIVIDUAL *AND* OVERALL SHIELD.

⚠5 INSERT LETTER 'T' IN PART NUMBER IF SHRINK TUBING IS REQUIRED.

4. TORQUE REQUIRED FOR ASSEMBLY; 40 INCH LBS. MIN.
60 INCH LBS. MAX.

3. EXTERNAL THREADS TO BE LUBRICATED WITH DCIII TEFLON OR SILICONE LUBRICANT (MFR. OPTION).

2. FINISH IS IRIDITE NO. 14-2 PER MIL-C-5541.

1. IDENTIFIED PER MIL-STD-130.

NOTES; UNLESS OTHERWISE SPECIFIED.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ±1/32 DECIMALS .X ±.03 .XX ±.010 .XXX ±.005 ANGLES ±2°

SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

NON-CRIMP GROUND RING
FOR TERMINATING INDIVIDUAL AND/OR OVERALL SHIELDS

SIZE D CODE IDENT 07418 SE95
SCALE NONE WEIGHT SHEET 1 OF 1
RELEASE DATE 3-26-75

SE96

CLAMP SIZE	C UNIFIED 2B THREAD	D MAX. DIM.	E MAX. DIA.	F MAX. DIM.	G MAX. DIA.	H MAX. DIM.	J MAX. DIA.	K MAX. DIM.	L MAX. DIM.	M MAX. DIA.	N MAX. DIM.	CABLE ENTRY TYPE 'A&C' MAX.	CABLE ENTRY TYPE 'A&C' MIN.	CABLE ENTRY TYPE 'B,E&G' MAX.	CABLE ENTRY TYPE 'B,E&G' MIN.	CABLE ENTRY TYPE 'D' MAX.	CABLE ENTRY TYPE 'D' MIN.	CABLE ENTRY TYPE 'F' MAX.	CABLE ENTRY TYPE 'F' MIN.
03	.500-28	.844	.844	1.031	.812	1.344	.656	.734	.781	.958	1.301	.250	.156	.219	.157	N/A	N/A	N/A	N/A
04	.625-24	.906	.844	1.031	1.031	1.344	.906	.734	.781	1.145	1.301	.312	.188	.312	.182	.438	.250	.312	.125
06	.750-20	1.094	.906	1.031	1.062	1.344	.906	.734	.781	1.145	1.301	.438	.281	.438	.282	.438	.250	.438	.250
08	.875-20	1.188	.969	1.031	1.188	1.344	1.031	.734	.750	1.332	1.301	.562	.344	.562	.312	.438	.250	.562	.312
10	1.000-20	1.281	.969	1.094	1.312	1.425	1.156	.750	.750	1.332	1.301	.625	.375	.614	.375	.500	.281	.625	.350
12	1.188-18	1.500	.969	1.219	1.562	1.433	1.344	.812	.750	1.551	1.332	.750	.438	.738	.500	.750	.375	.750	.500
16	1.438-18	1.719	1.062	1.219	1.750	1.545	1.594	.812	.875	1.770	1.426	.938	.562	.938	.750	.938	.438	.938	.625
20	1.750-18	2.062	1.125	1.344	2.250	1.793	1.906	.890	.875	2.113	1.613	1.250	.750	1.250	.926	1.219	.750	1.250	.875
24	2.000-18	2.312	1.188	1.547	2.375	2.063	2.156	1.109	1.000	2.363	1.645	1.375	.781	1.363	1.125	1.375	.969	1.375	1.000
28	2.250-16	2.719	1.719	1.547	2.625	2.068	2.406	1.109	1.000	2.770	1.920	1.625	.969	1.611	1.312	1.656	1.219	1.625	1.250
32	2.500-16	2.969	1.781	1.734	2.844	2.255	2.656	1.281	N/A	3.020	1.920	1.875	1.125	1.865	1.500	N/A	N/A	1.875	1.438
40	3.000-16	3.531	1.781	1.781	3.344	2.302	3.156	1.344	N/A	N/A	N/A	2.375	1.469	2.365	1.875	N/A	N/A	N/A	N/A

EXAMPLE PART NUMBER
SE96-24E4S
BASIC PART NUMBER — CLAMP SIZE — SILICONE ⑥ — PLATING CODE ④ — CLAMP TYPE ④

⑥ MATES TO ALL STANDARD ACCESSORIES WITH MIL-C-5015, MIL-C-26482 TYPE MS V (CLASS 2A) THREAD, CONSULT FACTORY FOR APPLICATION.

⑤ INSERT LETTER 'S' IN PART NUMBER FOR SILICONE GLAND (OMIT FOR STANDARD NEOPRENE). (AVAILABLE ON CLAMP SIZES 04 THRU 40, CLAMP TYPES B,E & G ONLY)

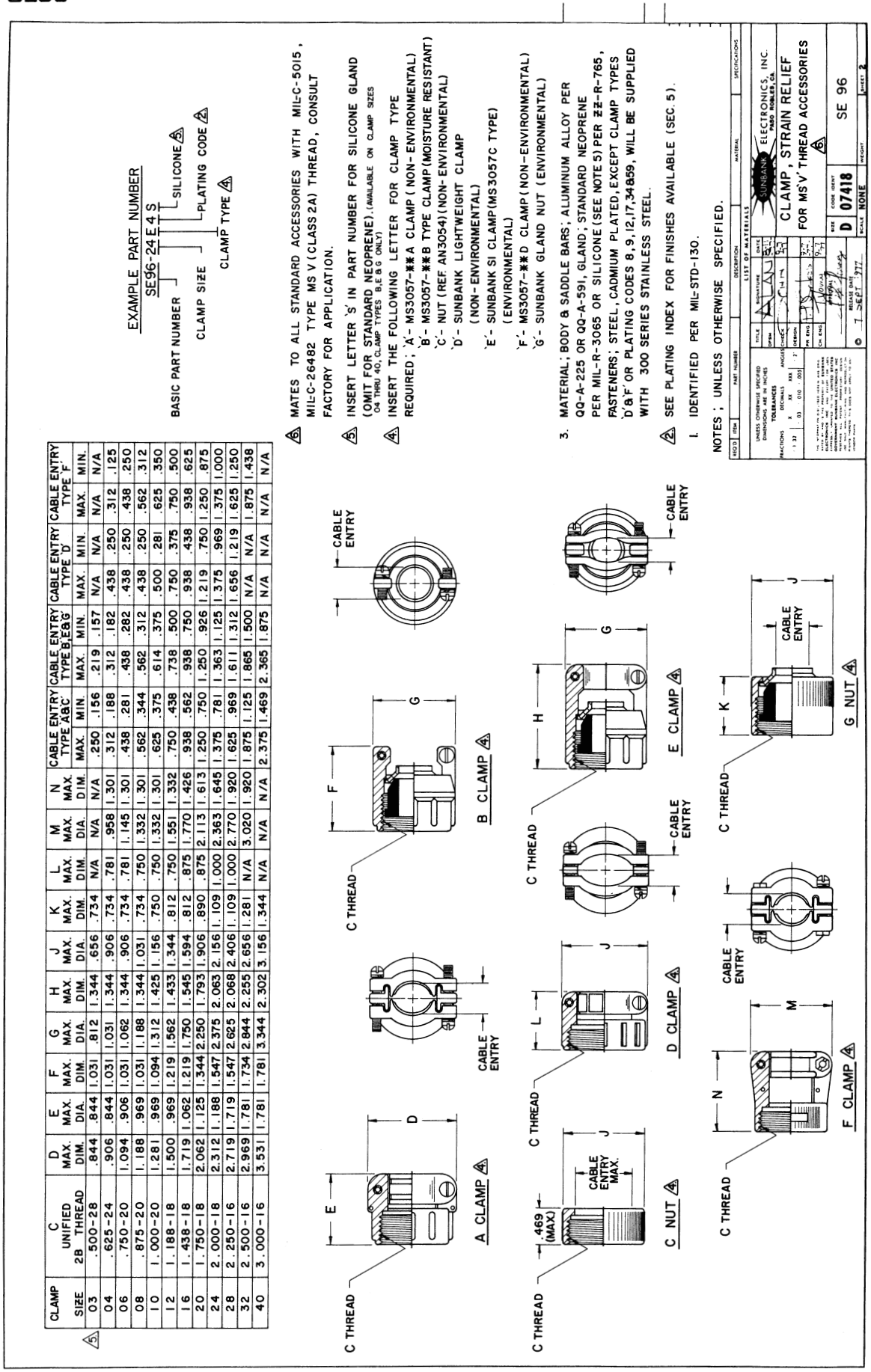
④ INSERT THE FOLLOWING LETTER FOR CLAMP TYPE REQUIRED: 'A'- MS3057-**A CLAMP (NON-ENVIRONMENTAL)
'B'- MS3057-**B TYPE CLAMP (MOISTURE RESISTANT)
'C'- NUT (REF. AN3054) (NON-ENVIRONMENTAL)
'D'- SUNBANK LIGHTWEIGHT CLAMP (NON-ENVIRONMENTAL)
'E'- SUNBANK SI CLAMP (MS3057C TYPE) (ENVIRONMENTAL)
'F'- MS3057-**D CLAMP (NON-ENVIRONMENTAL)
'G'- SUNBANK GLAND NUT (ENVIRONMENTAL)

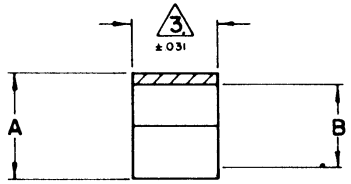
3. MATERIAL; BODY & SADDLE BARS; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, GLAND; STANDARD NEOPRENE PER MIL-R-3065 OR SILICONE (SEE NOTE 5) PER ZZ-R-765, FASTENERS; STEEL, CADMIUM PLATED, EXCEPT CLAMP TYPES 'D' & 'F' OR PLATING CODES 8, 9, 12, 17, 34 859, WILL BE SUPPLIED WITH 300 SERIES STAINLESS STEEL.

② SEE PLATING INDEX FOR FINISHES AVAILABLE (SEC. 5).

① IDENTIFIED PER MIL-STD-130.

NOTES; UNLESS OTHERWISE SPECIFIED.





DASH NO.	A ±.010 DIA.	B ±.010 DIA.
000	.196	.156
001	.227	.187
002	.258	.218
003	.290	.250
004	.321	.281
005	.352	.312
006	.383	.343
007	.415	.375
008	.446	.406
009	.478	.438
010	.508	.468
011	.540	.500
012	.571	.531
013	.602	.562
014	.633	.593
015	.665	.625
016	.696	.656
017	.727	.687
018	.758	.718
019	.790	.750
020	.821	.781
021	.852	.812
022	.883	.843
023	.915	.875
024	.946	.906
025	.977	.937
026	1.008	.968
027	1.040	1.000

DASH NO.	A ±.010 DIA.	B ±.010 DIA.
028	1.071	1.031
029	1.102	1.062
030	1.133	1.093
031	1.165	1.125
032	1.196	1.156
033	1.227	1.187
034	1.258	1.218
035	1.290	1.250
036	1.321	1.281
037	1.352	1.312
038	1.383	1.343
039	1.415	1.375
040	1.446	1.406
041	1.477	1.437
042	1.508	1.468
043	1.540	1.500
044	1.571	1.531
045	1.602	1.562
046	1.633	1.593
047	1.665	1.625
048	1.696	1.656
049	1.727	1.687
050	1.758	1.718
051	1.790	1.750
052	1.821	1.781
053	1.852	1.812
054	1.883	1.843

EXAMPLE PART NUMBER

SE97-015-6-34

- SE97 — BASIC PART NUMBER
- 015 — DASH NUMBER
- 6 — LENGTH 3.
  - 4 - .500
  - 6 - .750
  - 8 - 1.000
- 34 — OPTIONAL PLATING CODE 2.

4. MATERIAL: ALUMINUM ALLOY PER QQ-A-225.

3. CONSULT FACTORY FOR OPTIONAL LENGTHS.

2. STANDARD FINISHES; IRIDITE, NO.14-2, GOLD MIL-C-5541, CLASS 3. SEE PLATING INDEX FOR OPTIONAL FINISHES. (SEC. 5) (OMIT IF NOT REQUIRED).

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS 1/32 DECIMALS X .03 XX .010 XXX .005 ANGLES 2°

	TITLE	SIGNATURE	DATE
	DFSM	T. CARRUTHERS	4-18-95
	CHECK	JOHN REED	4-22-95
	DESIGN		
	PR ENG		
	CH ENG		

APPROVAL
RELEASE DATE
© 1995

SUNBANK ELECTRONICS, INC.
PASO ROBLES, CA

SHIELD SUPPORT RING

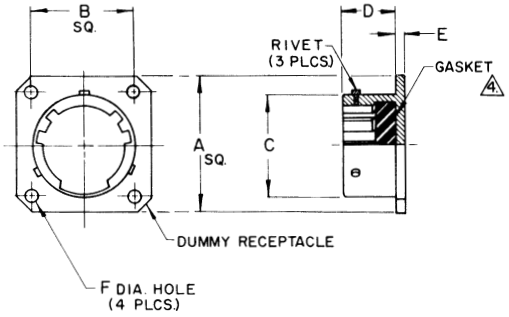
SIZE	CODE IDENT	
C	07418	SE97
SCALE NONE	WEIGHT	SHEET 1 OF 1

ORDER NUMBER	SHELL SIZE (REFERENCE) CODE D	CODE E	CODE F	CODE FA	CODE G & H	A MAX. DIM.	B DIM.	C MAX. DIA.	D ±.010 DIM.	E ±.015 DIM.	F ±.010 DIA.
01	8					.817	.594	.536	.718	.063	.125
02		8				.828	.594	.474	.478	.063	.125
03			8			.823	.594	.474	.451	.063	.125
04					8	.820	.594	.553	.645	.065	.125
05	10					.942	.719	.659	.718	.063	.125
06		10				.954	.719	.591	.478	.063	.125
07			10			.949	.719	.591	.451	.063	.125
08				9		.949	.719	.678	.727	.092	.125
09					10	.945	.719	.678	.645	.065	.125
10	12					1.036	.812	.829	.718	.063	.125
11		12				1.047	.812	.751	.478	.063	.125
12			12			1.042	.812	.751	.451	.063	.125
13				11		1.042	.812	.701	.727	.092	.125
14	14					1.130	.906	.898	.718	.063	.125
15		14				1.141	.906	.876	.478	.063	.125
16			14			1.136	.906	.876	.451	.063	.125
17				13		1.136	.906	.851	.727	.092	.125
18					14	1.133	.906	.928	.645	.065	.125
19	16					1.255	.969	1.025	.718	.063	.125
20		16				1.234	.969	1.001	.478	.063	.125
21			16			1.230	.969	1.001	.451	.063	.125
22				15		1.230	.969	.976	.727	.092	.125
23					16	1.258	.969	1.054	.645	.065	.125
24	18					1.348	1.062	1.131	.718	.063	.125
25		18				1.328	1.062	1.126	.478	.063	.125
26			18			1.323	1.062	1.126	.451	.063	.125
27				17		1.323	1.062	1.101	.727	.092	.125
28					18	1.351	1.062	1.178	.645	.065	.125
29	20					1.442	1.156	1.256	.718	.063	.125
30		20				1.453	1.156	1.251	.572	.094	.125
31			20			1.449	1.156	1.251	.451	.063	.125
32				19		1.449	1.156	1.208	.727	.092	.125
33					20	1.475	1.156	1.303	.645	.065	.125
34	22					1.567	1.250	1.381	.718	.063	.125
35		22				1.578	1.250	1.376	.572	.094	.125
36			22			1.573	1.250	1.376	.451	.063	.125
37				21		1.573	1.250	1.303	.697	.115	.125
38					22	1.570	1.250	1.428	.645	.065	.125
39	24					1.708	1.375	1.506	.718	.063	.156
40		24				1.703	1.375	1.501	.605	.094	.156
41			24			1.699	1.375	1.501	.451	.063	.156
42				23		1.699	1.375	1.458	.697	.115	.156
43					24	1.711	1.375	1.553	.645	.065	.156
44				25		1.823	1.500	1.583	.697	.115	.156

EXAMPLE PART NUMBER

SE98 E 20 S - 4

- SE98: BASIC PART NUMBER
- E: SERIES CODE
- 20: ORDER NUMBER
- S: GASKET OPTION (4)
- 4: PLATING CODE (2)



SERIES CODE	CONNECTOR SERIES DESCRIPTION
D	MIL-C-26500, MIL-C-38300 MS24266, MIL-C-83723, SERIES 3.
E	MIL-C-26482, SERIES 2, MS3116, MS3126 MIL-C-83723, SERIES I.
F	MIL-C-38999, SERIES II, MS27473, MS27480 MS27484, MS2736, MS27500.
FA	MIL-C-38999, SERIES I, MS27467, MS20028.
G	MIL-C-81511, 100% SCOOP, AMPHENOL & CINCH 'ASTRO' 348 SERIES, DEUTSCH A815 SERIES.
H	MIL-C-81511, 50% SCOOP, AMPHENOL & CINCH 'ASTRO' 348 SERIES, DEUTSCH B815 SERIES.

(4) INSERT LETTER FOR GASKET OPTION:
'S'- SILICONE GASKET PER ZZ-R-765, (STANDARD CODES G & H.)
'R'- RFI (CONDUCTIVE) GASKET, SILICONE, COM'L.
'F'- FLUOROSILICONE.
(OMIT FOR STANDARD NEOPRENE.)

3. MATERIAL: RECEPTACLE; ALUMINUM ALLOY PER QQ-A-225 OR QQ-A-591, GASKET; NEOPRENE PER MIL-R-3065 (SEE NOTE 4.), RIVETS; SST.

(2) SEE PLATING INDEX FOR FINISHES AVAILABLE. (SEC. 5)

1. IDENTIFIED PER MIL-STD-130.

NOTES: UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ±1/32 | DECIMALS X ±.03, XX ±.010, XXX ±.005 | ANGLES ±2°

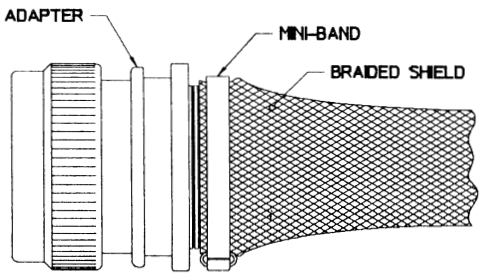
TITLE	SIGNATURE	DATE
DRWN	Frank A. Wagner	8-21-84
CHECK		8-22-84
DESIGN		8-22-84
MFR ENG		8-22-84
APPROVAL		
RELEASE DATE	9-22-84	

SUNBANK ELECTRONICS, INC. PASO ROBLES, CALIFORNIA

RECEPTACLE, DUMMY STOWAGE

SIZE	CODE IDENT	
D	07418	SE98

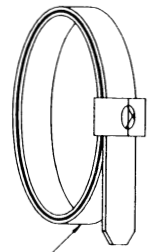
SCALE NONE WEIGHT: SHEET 1 OF 1



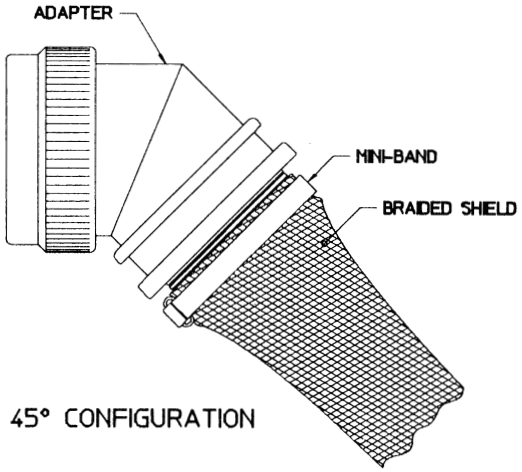
STRAIGHT CONFIGURATION

The Sunband mini-band is directly interchangeable with the Raychem Tinel-Lock system. Sunbank offers a complete line of straight, 45° and 90° adapters for mini-band shield termination. Typical adapter configurations are shown on this page. Consult factory for adapter part number designed for your application. The Sunband mini-band is 1/8" wide and comes in 9.5" or 14.25" length.

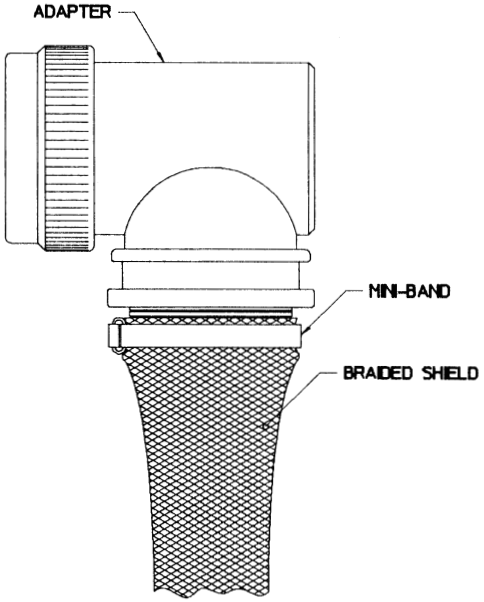
Mini-band part numbers are: S3175-3, 9.5" length
S3175-4, 14.25" length



S3175-* SUNBAND
(U.S. PATENT #4,751,769)



45° CONFIGURATION



90° CONFIGURATION

SUNBANK ELECTRONICS, INC. Paso Robles, California

TINEL EQUIVALENT BACKSHELLS

SIZE	CODE IDENT.	
C	07418	CONSULT FACTORY

SCALE: N.T.S WEIGHT: SHEET 1 OF 1

SECTION 5

Support Data

PRODUCT INDEX
SECTION 5 — SUPPORT DATA

* PLATING INDEX

Plating Code Number	Finish Description	Standard for SE UNI-ADAPTER	Corrosion Resistance (Salt Spray Hours)	Conductive RFI/EMI Applications	Non-Conductive Applications
1	IRIDITE, NO. 14-2, YELLOW MIL-C-5541, CLASS 3		Good (96)	Excellent	N.A.
2	CADMIUM PLATE, CLEAR QQ-P-416, TYPE II, CLASS 3	KA, KB, KC, W	Good (96)	Good	N.A.
3	CADMIUM PLATE, YELLOW QQ-P-416, TYPE II, CLASS 3		Good (96)	Good	N.A.
4	CADMIUM PLATE, OLIVE DRAB QQ-P-416, TYPE II, CLASS 3	A thru G K, KD, M, R	Good (96)	Good	N.A.
5	ANODIZE, GREY MIL-A-8625, TYPE II		Very Good (336)	N.A.	Good
6	ANODIZE, RED MIL-A-8625, TYPE II		Very Good (336)	N.A.	Good
7	ANODIZE, GREEN MIL-A-8625, TYPE II		Very Good (336)	N.A.	Good
8	ANODIZE, BLACK MIL-A-8625, TYPE II	D, J	Very Good (336)	N.A.	Good
9	HARD ANODIZE, MIL-A-8625, TYPE III	H	Excellent (1000)	N.A.	Excellent
10	CADMIUM PLATE, BLACK QQ-P-416, TYPE II, CLASS 3	T	Good (96)	Good	N.A.
** 10S	STAINLESS STEEL, CADMIUM PLATE, BLACK, QQ-P-416, TYPE II, CLASS 3	U	Excellent (1000)	Excellent	N.A.
11	HARD ANODIZE, BLACK MIL-A-8625, TYPE III		Excellent (1000)	N.A.	Excellent
12	ELECTROLESS NICKEL MIL-C-26074, CLASS 3 or 4 GRADE B	C, F, FM, G, J, P	Fair (48)	Excellent	N.A.
17	CADMIUM PLATE, LEACHED YELLOW OVER ELECTROLESS NICKEL	L	Good (96)	Very Good	N.A.
17A	CADMIUM PLATE, YELLOW OVER ELECTROLESS NICKEL	F	Good (96)	Very Good	N.A.
18	ANODIZE, OLIVE DRAB MIL-A-8625, TYPE II		Very Good (336)	N.A.	Good
23	CHROME PER QQ-P-320 OVER ELECTROLESS NICKEL		Fair (48)	Excellent	N.A.
25	ELECTRO TIN PLATE PER MIL-T-10727 OVER ELECTROLESS NICKEL	F	Fair (48)	Good (Solderable)	N.A.
29	CADMIUM PLATE, CLEAR OVER ELECTROLESS NICKEL		Good (96)	Very Good	N.A.
30	NO FINISH – BARE METAL (6061-T6 ALUMINUM)		Good (96)	Very Good	N.A.
**30S	300 SERIES STAINLESS STEEL PASSIVATED, QQ-P-35	C,D,F,FM,U	Excellent (1000)	Excellent	N.A.
34	CADMIUM PLATE, OLIVE DRAB OVER ELECTROLESS NICKEL	C,F,FM,G,H,P,T,U	Very Good (500)	Very Good	N.A.

CAUTION: Conductive finish should be selected when used on RFI/EMI, EMP accessories. Avoid combinations of silver to: tin, cadmium, or bare aluminum and stainless steel. Severe galvanic reaction may result, see MIL-STD-889 Dissimilar Metals.

*Consult factory for availability of platings not shown.

**Consult factory for availability of accessories made in stainless steel.

SUGGESTED TORQUE VALUES FOR SE UNI-ADAPTER

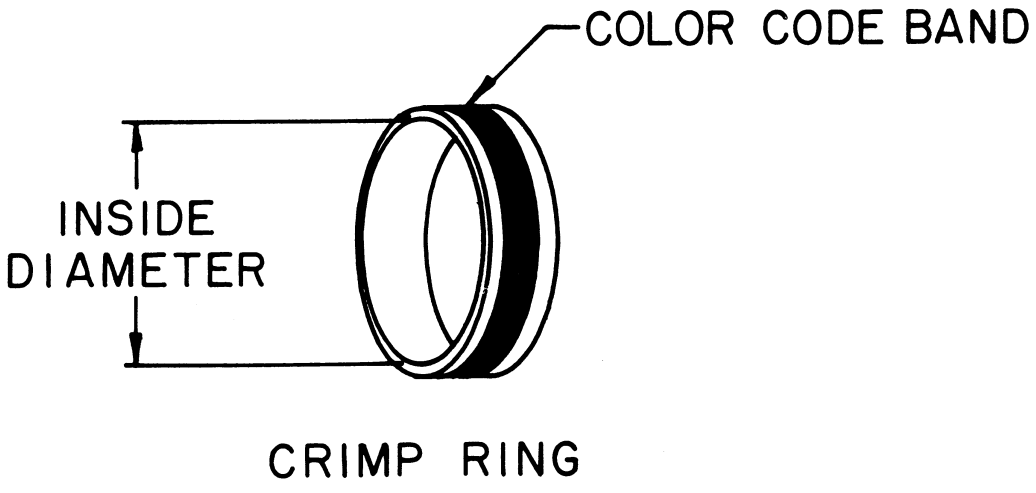
SHELL SIZE	ACCESSORY THREAD TORQUE ± 5 INCH POUNDS	
	SE CODES A, B, C, D, H, K, L, M, P, R, T, KD	SE CODES E, F, G, J, KA, KB, KC, N, W, X, U
8,9	75	50
3, 10, 10SL, 11	100	50
7, 12, 12S, 13	140	50
14, 14S, 15	150	50
16, 16S, 17	150	50
18, 19, 27	150	50
20, 21, 37	175	100
22, 23	175	100
24, 25, 61	175	100
28	190	N/A
32	190	N/A
36	190	N/A
40	210	N/A
44	210	N/A
48	210	N/A

NOTE: ABOVE VALUES APPLY TO LUBRICATED THREADS TIGHTENED PROPERLY WITHOUT EXCESSIVE PRESSURE TO SQUEEZE THEM OUT OF ROUND. CONSULT FACTORY FOR SPECIFIC METHODS.

SE 3 & SE12 CRIMP RING DATA CHART

SE Entry Code	Crimp Ring Inside Dia. (GSC-Number)	Crimp Ring Color Code	MIL-C-85049/26-2 Dash Number	INSTALLATION TOOL DATA					
				Hand Tools*		Military Tool M22520/50-01	Power Tools *		
				WT Fixed Die	WT440 WT540 Die Inserts		11901A	21017	13640P
06	.175	Blue		403	4403	-41B	11973	21503	
11	.205	Yellow		408	4408	-19B	11978	21508	
14	.232	Orange		410	4410	-45A	11980	21510	
17	.261	Yellow		411	4411	-19A	11981	21511	
20	.281	Purple		414	4414	-41A	11984	21514	
23	.327	Tan		416	4416	-37A	11986	21516	
27	.375	Yellow		222	5451	-47		21522	
30	.405	Red		218	5452	-23	11988	21518	
31	.460	Tan		220	5456	-53	11990	21499	
32	.590	Red	-10, -12						GS 590
33	.710	Blue	-14						GS 710
34	.840	Gray	-16						GS 840
35	1.010	Brown	-18						GS1010
36	1.130	Green	-20						GS1130
37	1.250	Pink	-22, -24						GS1250
38	1.250	Pink	-22, -24						GS1250
39	1.332	Orange							GS1332
40	1.440	Purple	-61						GS1440
41	1.563	Yellow							GS1563
42	1.670	Red	-28						GS1670
43	1.795	Blue							GS1795
44	1.920	Gray	-32						GS1920
45	2.045	Brown							GS2045
46	2.170	Green	-36						GS2170
47	2.295	Pink							GS2295
48	2.420	Orange	-40						GS2420
49	2.545	Purple							GS2545
51	2.795	Red							GS2795
53	3.045	Gray							GS3045
54	3.170	Brown							GS3170

* Thomas & Betts



CRIMP RING

'SE' UNI-ADAPTER CROSS REFERENCE: MILITARY TO EQUIVALENT COMMERCIAL PART NUMBERS

SE CODE	MILITARY PART NO.	MILITARY SPECIFICATION	AMPHENOL	BENDIX	BURNDY	ITT CANNON	TRW	DEUTSCH	FLIGHT
A	MS3100A MS3101A MS3106A MS3100 E & R MS3101 E & R MS3106 E & R	MIL-C-5015 "D" Class A, E, & R	97-3100A 97-3101A 97-3106A 69-3100 69-3101 69-3106	10-1680 10-1681 10-1686		CA3100A CA3101A CA3106A CA3100E&R CA3101E&R CA3106E&R			
B	MS3100R MS3101R MS3106R		67-3100R 67-3101R 67-3106R	10-1900 10-1901 10-1906					
C	MS3400 MS3401 MS3404 MS3406 MS3412 MS3450 MS3451 MS3454 MS3456	MIL-C-5015 "G" Class D,K,L,U,& W				CV3450 CV3451 CV3454 CV3456			FF00 FF01 FF04 FF06 FF50 FF51 FF54 FF56
	MS3424 MS3446 MS3464 MS3467 MS3468	MIL-C-81703 Series 3							
	MS3470 MS3471 MS3472 MS3474 MS3475 MS3476	MIL-C-26482 Series 2 Class E & L	118-20 118-21 118-23 118-28 118-26	PTS00DR PTS07DR PTS06DR		PV70 PV71 PV72 PV74 PV75 PV76		AFD50 AFD51 AFD54 AFD57 AFD56	
	M83723/1 & 2 M83723/3 & 4 M83723/5 & 6 M83723/7 & 8 M83723/13 &14 M83723/42 & 43	MIL-C-83723 Series 1	118-20 118-23 118-21 118-26			PVAO PVA4 PVA7 PVA1 PVA6 PVA6G		AFD50 AFD54 AFD51 AFD56	
	M83723/71 & 72 M83723/73 & 74 M83723/75 & 76 M83723/77 & 78 M83723/82 & 83 M83723/84 & 85 M83723/86 & 87 M83723/97 & 98	MIL-C-83723 Series 3	518-10 518-13 518-16 518-18 518-00 518-03 518-06			MFO MF7 MF6	CN0930S*10 CN0930S*13 CN0930S*16	DL60 DL64 DL66 DL68 DBA30 DBA34 DBA36	
	NAS1641 NAS1642 NAS1643 NAS1650 NAS1651 NAS1652 NAS1653	NAS1599						DBA30 DBA34 DBA36 DBA50 DBA58 DBA54 DBA56	
D	MS24264 MS24265 MS24266	MIL-C-26500 MIL-C-38300 Class F, G, & R	48-00 48-03 48-06				48-00 48-03 48-06		
E	MS3110 MS3111 MS3116 MS3120 MS3121 MS3126	MIL-C-26482 Series 1 Class E, F, & P		PT00 PT01 PT06 PT00SE PT01SE PT06SE	BT00 BT01 BT06 L*T**0 L*T**1 L*T**6	KPT00 KPT01 KPT06 KPTSE00 KPTSE01 KPTSE06			
F	MS27466 MS27467 MS27468 MS27656	MIL-C-38999 Series I Class E & T	418-10 418-8 418-13	LJT00R LJT06R LJT07R LJTPQ00		KJL0 KJL6 KJL7 KJL3			
	MS27472 MS27473 MS27474 MS27479 MS27480 MS27481 MS27484 MS27497	MIL-C-38999 Series II Class E & T	418-20 418-26 418-23 418-28	JT00R JT06R JT07R JTS00R JTS06R JTS07R JTG06R JTP00RE		KJO KJ6 KJ7 KJ0-C KJ6-C KJ7-C KJG6 KJ3			

'SE' UNI-ADAPTER CROSS REFERENCE: MILITARY TO EQUIVALENT COMMERCIAL PART NUMBERS

SE CODE	MILITARY PART NO.	MILITARY SPECIFICATION	PYLE NATIONAL	MATRIX	G & H	HUGHES CDC	SAE	SOURIAU	AERO ELECTRIC
A	MS3100A MS3101A MS3106A MS3100 E & R MS3101 E & R MS3106 E & R	MIL-C-5015 "D" Class A, E, & R							
B	MS3100R MS3101R MS3106R								
C	MS3400 MS3401 MS3404 MS3406 MS3412 MS3450 MS3451 MS3454 MS3456	MIL-C-5015 "G" Class D,K,L,U,& W		9440 9441 9444 9446			SA3400 SA3401 SA3404 SA3406 SA3412 SA3450 SA3451 SA3454 SA3456		AE550 AE551 AE554 AE556
	MS3424 MS3446 MS3464 MS3467 MS3468	MIL-C-81703 Series 3							
	MS3470 MS3471 MS3472 MS3474 MS3475 MS3476	MIL-C-26482 Series 2 Class E & L							AE770 AE771 AE772 AE774 AE775 AE776
	M83723/1 & 2 M83723/3 & 4 M83723/5 & 6 M83723/7 & 8 M83723/13 &14 M83723/42 & 43	MIL-C-83723 Series 1		MB10 MB11 MB14 MB13 MB16 MB18					
	M83723/71 & 72 M83723/73 & 74 M83723/75 & 76 M83723/77 & 78 M83723/82 & 83 M83723/84 & 85 M83723/86 & 87 M83723/97 & 98	MIL-C-83723 Series 3	B*-17 B*-19 B*-11	MB30* MB34* MB36* MB38* MT30* MT34* MT36*				837230* 837237* 837236*	
	NAS1641 NAS1642 NAS1643 NAS1650 NAS1651 NAS1652 NAS1653	NAS1599	ET-17 ET-19 ET-11 EB-16 EB-19 EB-11						
D	MS24264 MS24265 MS24266	MIL-C-26500 MIL-C-38300 Class F, G, & R	ZZW/Y-A-17 ZZW/Y-A-15 ZZW/Y-A-10						
E	MS3110 MS3111 MS3116 MS3120 MS3121 MS3126	MIL-C-26482 Series 1 Class E, F, & P						851-00* 851-01* 851-06* 851-00R 851-01R 851-06R	
F	MS27466 MS27467 MS27468 MS27656	MIL-C-38999 Series I Class E & T		MB920 MB918 MB914 MB911					
	MS27472 MS27473 MS27474 MS27479 MS27480 MS27481 MS27484 MS27497	MIL-C-38999 Series II Class E & T		MB920 MB926 MB924 MB928 MB921					

'SE' UNI-ADAPTER CROSS REFERENCE: MILITARY TO EQUIVALENT COMMERCIAL PART NUMBERS

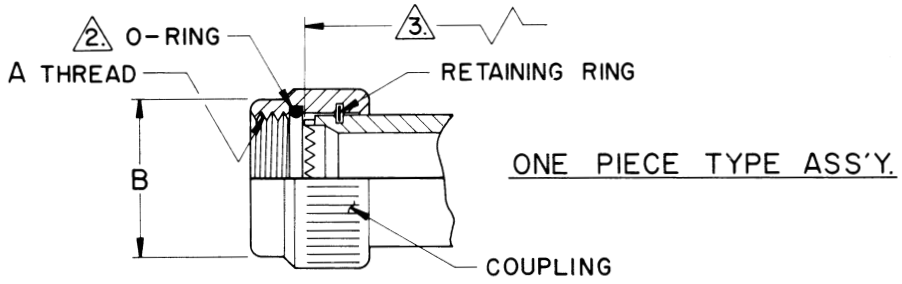
SE CODE	MILITARY PART NO.	MILITARY SPECIFICATION	AMPHENOL	BENDIX	BURNDY	ITT CANNON	TRW	DEUTSCH	FLIGHT
FM	D38999/20 D38999/24 D38999/26	MIL-C-38999 Series III Class C,F,K,& W		TVP*00 TV*07 TV*06		KJA0T KJA7T KJA6T			
	D38999/40 D38999/44 D38999/45 D38999/47	MIL-C-38999 Series IV Class C,F,K,& W							PL00 PL07 PL06
G	M81511/01 M81511/05 M81511/03 M81511/06	MIL-C-81511 Series 2 50% No Scoop	348-40 348-41 348-43 348-46						
	M81511/21 M81511/23 M81511/25 M81511/26	MIL-C-81511 Series 1 100% No Scoop	348-30 348-31 348-33 348-36						
	M81511/41 M81511/44 M81511/45 M81511/46 M81511/49	MIL-C-81511 Series 3 100% No Scoop						B81510 B81514 B81513 B81516	
	M81511/51 M81511/53 M81511/55 M81511/56	MIL-C-81511 Series 4 50% No Scoop						A81510 A81514 A81513 A81516	
H	MS17343 MS17344 MS17345 MS17346 MS17347 MS17348	MIL-C-22992 Class J & R		10-2560 10-2566 10-2561 10-2562 10-2563		CWLD00 CWLD01 CWLD06 CWLD09			
K	MS3132 MS3134 MS3137 MS3138	MIL-C-81703 SERIES I						DM9606 DM9601 DM9703 14946	
KB	MS3140 MS3144 MS3147 MS3148	MIL-C-81703 SERIES II						DD00 DD04 DD07 12942	
L	MS0027497	MIL-C-38999 Class "V"							
M	MS3124 MS3114	MIL-C-26482 Class F, P		PT07SE PT07E	L*T**4 BT07	KP707 KPSE07			
N	MS24264 MS24265 MS24266 MS27613 MS27614 MS27615	MIL-C-26500 MIL-C-38300 Class "E"							
P	M83723/17, 18 M83723/19, 20 M83723/23, 24	MIL-C-83723 Series 2				CVA1R CVA0R CVA6R			
T	MS3400 MS3401 MS3406	MIL-C-005015 Revision "E"				FRF1 FRF6			FC3400 FC3406
U	M28840/10 M28840/11 M28840/14 M28840/16	MIL-C-28840 Class A,B,C,E				KFS10 KFS11 KFS14 KFS16			RDNOA RDN1A RDN4A RDN6A

'SE' UNI-ADAPTER CROSS REFERENCE: MILITARY TO EQUIVALENT COMMERCIAL PART NUMBERS

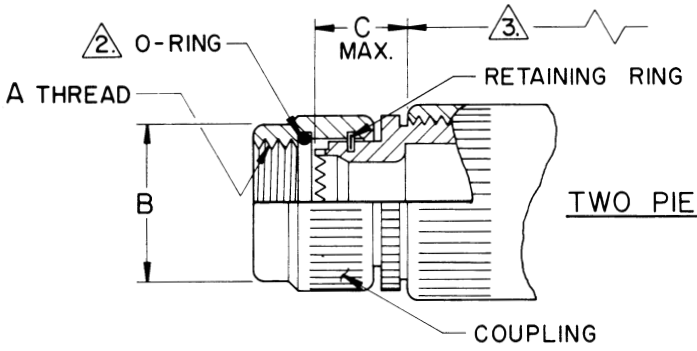
SE CODE	MILITARY PART NO.	MILITARY SPECIFICATION	PYLE NATIONAL	MATRIX	G & H	HUGHES CDC	SAE	SOURIAU	AERO ELECTRIC
FM	D38999/20 D38999/24 D38999/26	MIL-C-38999 Series III Class C,F,K,& W	T3*-17 T3*-19 T3*-12	MT930 MT934 MT938					
	D38999/40 D38999/44 D38999/45 D38999/47	MIL-C-38999 Series IV Class C,F,K,& W			BL00* BL07* BLG6* BL06*				
G	M81511/01 M81511/05 M81511/03 M81511/06	MIL-C-81511 Series 2 50% No Scoop							
	M81511/21 M81511/23 M81511/25 M81511/26	MIL-C-81511 Series 1 100% No Scoop							
	M81511/41 M81511/44 M81511/45 M81511/46 M81511/49	MIL-C-81511 Series 3 100% No Scoop							
	M81511/51 M81511/53 M81511/55 M81511/56	MIL-C-81511 Series 4 50% No Scoop							
H	MS17343 MS17344 MS17345 MS17346 MS17347 MS17348	MIL-C-22992 Class J & R							
K	MS3132 MS3134 MS3137 MS3138	MIL-C-81703 SERIES I							
KB	MS3140 MS3144 MS3147 MS3148	MIL-C-81703 SERIES II							
L	MS0027497	MIL-C-38999 Class "V"							
M	MS3124 MS3114	MIL-C-26482 Class F, P						851/07R 851-07*	
N	MS24264 MS24265 MS24266 MS27613 MS27614 MS27615	MIL-C-26500 MIL-C-38300 Class "E"	ZZW/Y-R-17 ZZW/Y-R-15 ZZW/Y-R-10						
P	M83723/17, 18 M83723/19, 20 M83723/23, 24	MIL-C-83723 Series 2		M72301 M72300 M72306					
T	MS3400 MS3401 MS3406	MIL-C-005015 Revision "E"							
U	M28840/10 M28840/11 M28840/14 M28840/16	MIL-C-28840 Class A,B,C,E				GT0 GT1 GT4 GT6	HD/10 HD/11 HD/14 HD/16		

SPIN COUPLING DATA

SERIES CODE	C MAX. DIM.
C	1.625
F	1.188
FM	1.188
G	1.375
U	1.500



ONE PIECE TYPE ASS'Y.



TWO PIECE TYPE ASS'Y.

NOTES:

1. REFER TO EACH SE ACCESSORY FOR AVAILABILITY OF SPIN COUPLING FEATURE.

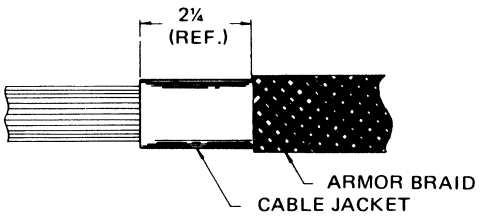
2. O-RING SUPPLIED ON ENVIRONMENTAL ACCESSORIES ONLY. (NOT SUPPLIED WITH CODE C & U).

3. REFER TO EACH SE ACCESSORY FOR DIMENSION INDICATED. (I.E. SE 57, DIMENSION WOULD BE 'D').

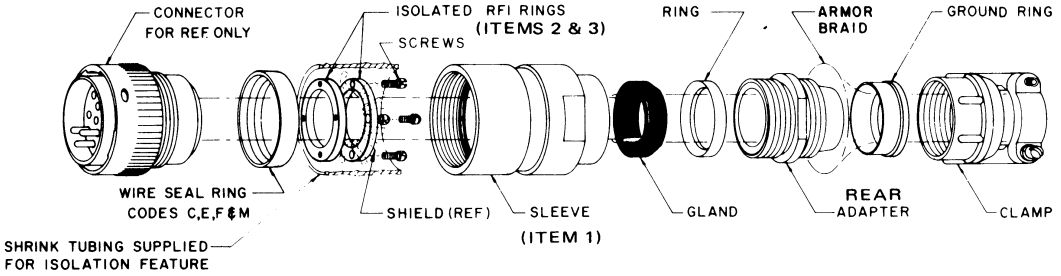
The following is a suggested procedure for individual shield & armor braid termination with environmental seal. (It is recommended that actual samples of appropriate cable be used to determine exact dimensions).

A. Temporarily assemble item 1* to connector.
B. Insert cable into item 1* & bottom on connector. Mark armor braid 3/4 inch behind item 1*.
C. Disassemble item 1* from connector. Slide all items up cable in sequence shown excepting items 2 & 3 (RFI rings).
D. Cut armor braid at mark. Cut cable jacket 2-1/4 inches forward of armor shield (see detail).
E. Prepare individual shields in accordance with Sunbank assembly procedure AP95.
F. Slide item 3 on cable. Flare out individual shields, slide item 2 on cable & capture shields between items 2 & 3 secure with screws trim shields if necessary.
G. Terminate conductors in normal practice. Individual shield termination should be no more than 1 inch behind connector insert. (Shrink sleeving may be placed over RFI rings for isolation feature).
H. Slide item 1* down cable & tighten securely to connector. Slide gland and ring into item 1*.
I. Force armor braid back 3/4 inch. Tape to secure if needed.
J. Engage rear adapter to item 1* & tighten securely. Slide armor forward & flare over adapter cone. Slide ground ring into place over braid & trim excess braid strands if necessary.
K. Engage cable clamp tighten securely to rear adapter. Tighten clamp saddle bars around armor braid.

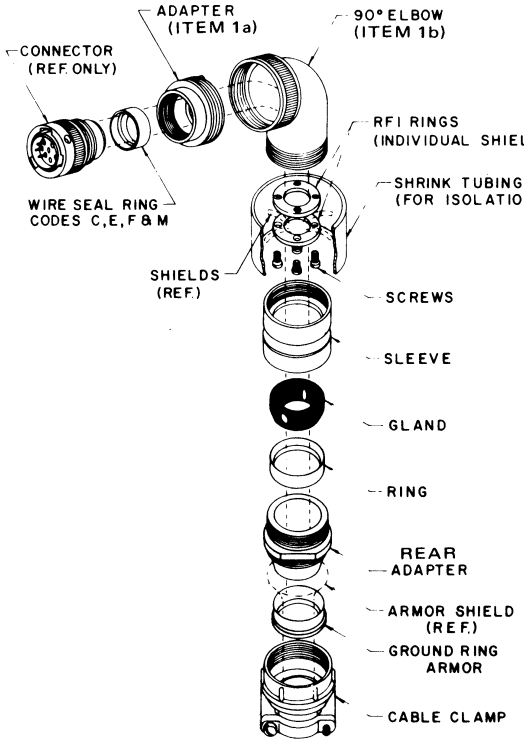
* 45° & 90° assembly, item 1 includes adapter (item 1a) and elbow (item 1b) sub assembled. (90° shown).



DETAIL
(STEP D)



STRAIGHT ASSEMBLY



90° ASSEMBLY

SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.
UNI-ADAPTER
ASSEMBLY PROCEDURE, ARMOR BRAID, ENVIRONMENTAL
SIZE D | CODE IDENT 07418 | AP2
SCALE NONE | WEIGHT | SHEET 2

SUGGESTED ASSEMBLY PROCEDURE

(a) Temporarily assemble sleeve to connector.

(b) Place crimp ring on cable or harness, and keep it at a convenient distance from end of cable so it will not interfere with subsequent assembly steps.

(c) Insert cable into sleeve and bottom against connector. Hold cable in position and mark outer shield (or jacket) at rear end of sleeve.

(d) Remove sleeve from connector and place on cable with crimp ring.

(e) Trim outer shield (and jacket if necessary) at mark made in step (c) above.

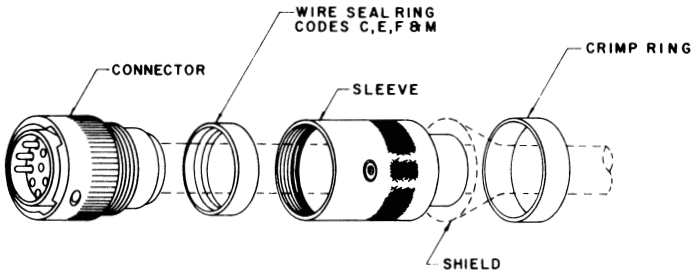
(f) Prepare and terminate individual conductors in accordance with established practices.

(g) Assemble sleeve to connector and tighten securely.

(h) Flare shield over rear crimping area of sleeve and slide crimp ring into place over shield.

(i) Hold crimp ring and shield in position as in step (h) and crimp with proper tool, making sure accepted crimping practices are observed. Trim any exposed shield strands at forward end of crimp ring.

(j) Depending on the particular application, subsequent molding, potting or shrink boot installation may be accomplished at this point, using the knurled surface or molding grooves provided on the adapter body.



ELECTRONICS, INC.
PASO ROBLES, CA.

UNI-ADAPTER

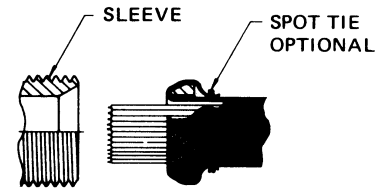
ASSEMBLY PROCEDURE
NON REPAIRABLE CRIMP TERMINATION

SIZE	CODE IDENT	
D	07418	AP 3
SCALE NONE	WEIGHT	SHEET 2

SUGGESTED PROCEDURE

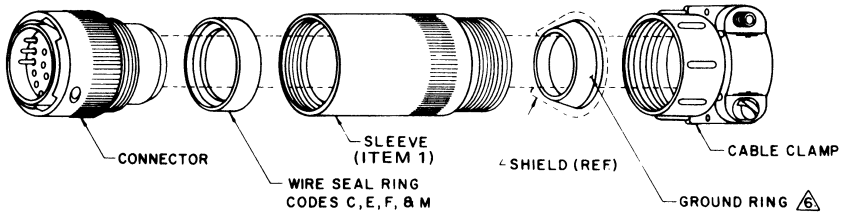
A. Slide cable clamp and ground ring up cable. Temporarily assemble item #1* (compression ring, if applicable) to connector.
B. Insert cable into item 1* and bottom on connector. Mark and trim cable jacket approx. 1/2 inch behind sleeve.
C. Disassemble item 1* from connector and slide up cable with other components.
D. Prepare individual or overall shield by flaring out or flatten and secure against the outer periphery of the cable or harness.
E. Slide item 1* (compression ring if applicable) forward and thread onto connector. Tighten securely.
F. Flare or comb shielding out over and around ground ring and secure with spot tie, as shown, see detail.
G. Slide ground ring into place in tapered bore, at rear of sleeve.
H. Slide clamp down and tighten on sleeve with approx. 35 inch lbs. This will insure a positive 360° grounding of the shielding and also provide a strain relief for cable or harness.

* Item 1, 90° assembly includes: elbow (item 1a) cap (item 1b) and sleeve (item 1c) sub-assembled.

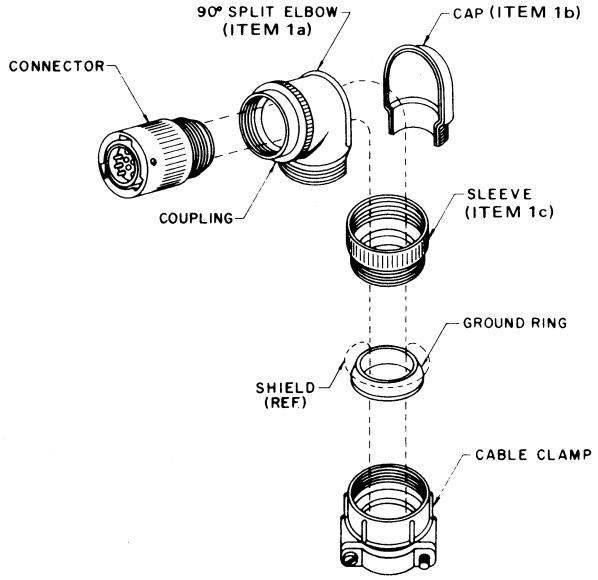


DETAIL
(STEP F)

TERMINATION FOR INDIVIDUAL
OR OVERALL SHIELDING



STRAIGHT ASSEMBLY



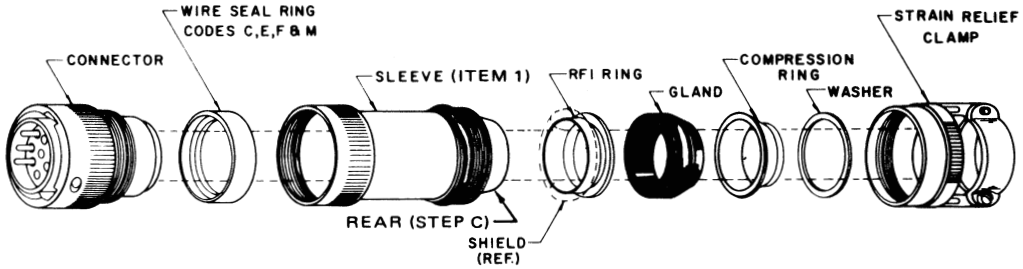
90° ASSEMBLY

SUNBANK ELECTRONICS, INC.
PASO ROBLES, CA.

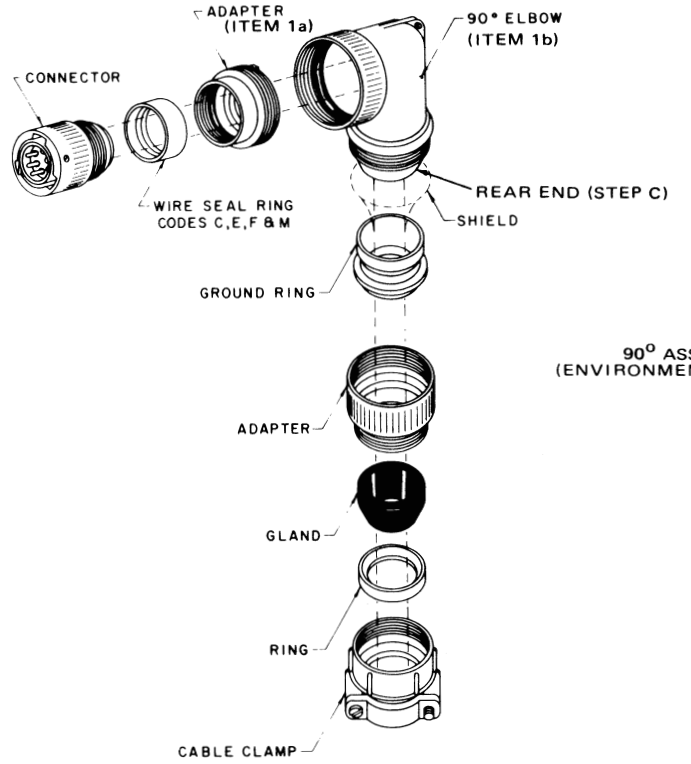
UNI-ADAPTER

ASSEMBLY PROCEDURE
SINGLE RING RFI/EMI TERMINATION

SIZE	CODE IDENT	AP 6
D	07418	
SCALE NONE	WEIGHT	SHEET 2



STRAIGHT ASSEMBLY
(ENVIRONMENTAL SHOWN)



90° ASSEMBLY
(ENVIRONMENTAL SHOWN)

SUGGESTED ASSEMBLY PROCEDURE

A. Temporarily assemble item 1* to connector.
B. Place remaining adapter components on cable in sequence shown. Keep these components away from termination so they will not interfere with subsequent assembly steps.
C. Insert cable into item 1* and bottom on connector. Mark cable at rear of item 1*.
D. Disassemble item 1* from connector & slide up cable with the other components.
E. Trim jacket (if applicable) approx. 1/2 inch in back of mark, be sure cable jacket will be under gland for proper seal) for individual shielding, prepare in accordance with Sunbank assembly procedure AP95. Fold back up cable & tie. For overall shield, comb out & fold back up cable & spot tie or tape.
F. Prepare & terminate conductors in normal practice.
G. Assemble item 1* to connector, & tighten securely.
H. Untie shielding & arrange evenly about cone at rear of item 1*.
I. Slide ground ring into place over shield. Fold shield back over ground ring spot tie. Trim excess shield.
J. Engage cable clamp or rear adapter to item 1*, tighten securely. Tighten clamp saddle bars around cable.

* Item 1, 90° assembly includes adapter (item 1a) and elbow (item 1b) sub-assembled.

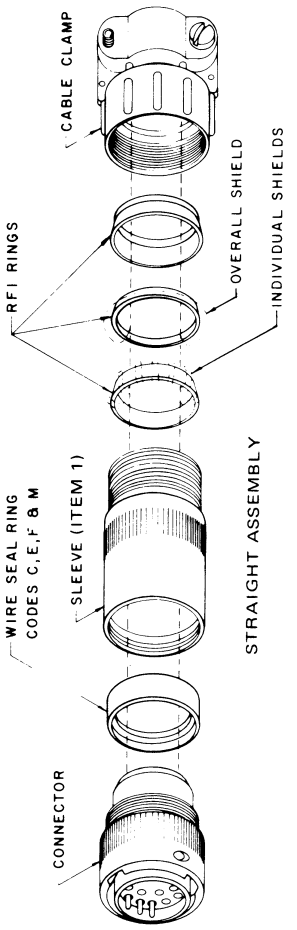
SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

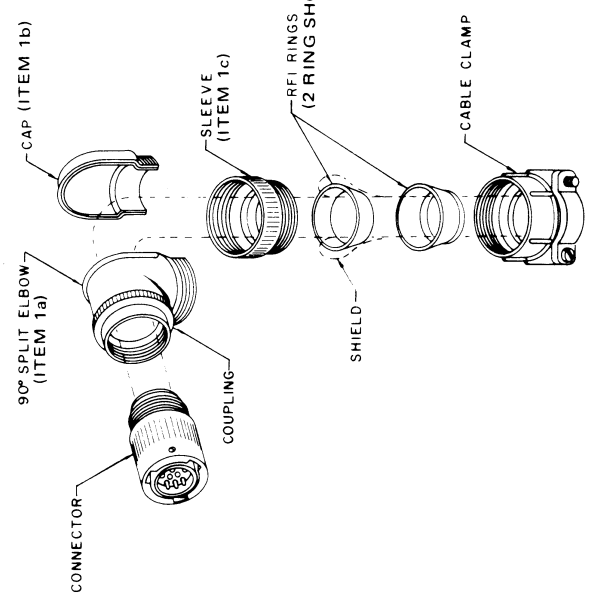
NON-CRIMP GROUND RING

ASSEMBLY PROCEDURE
EXTERNAL CONE/RING TERMINATION

SIZE	CODE IDENT	
D	07418	AP7
SCALE NONE	WEIGHT	SHEET 1 OF 1

AP9

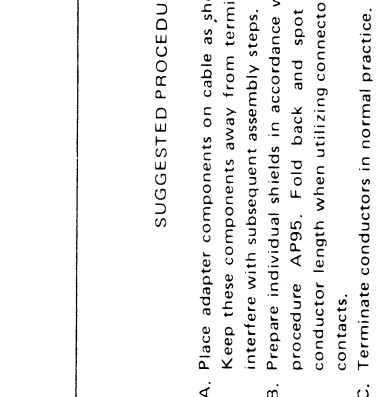




SUGGESTED PROCEDURE

A. Place adapter components on cable as shown in exploded view. Keep these components away from termination so they will not interfere with subsequent assembly steps.
B. Prepare individual shields in accordance with Sunbank assembly procedure AP95. Fold back and spot tie. Allow additional conductor length when utilizing connectors with front-insertable contacts.
C. Terminate conductors in normal practice.
D. Assemble item 1* to connector and tighten securely. Slide first RFI ring into bore at rear of item1*.
E. Untie individual shields and place evenly over second ring, push second ring forward until shields are captured between first & second rings. Engage cable clamp holding item 1*. Tighten 35 in. lbs. to 55 in. lbs. Spot tie and trim excess shielding. For 3 ring dual termination types, having tied back both individual and overall shields and completed steps A thru D.
E_1 Untie individual shields and place evenly over second RFI ring. Push second ring forward until shields are captured between first and second rings. Spot tie & trim excess shielding. Untie overall shielding & place evenly about third ring. Push third ring forward, until shielding is captured between second and third rings. Engage cable clamp, holding item 1* tighten 35 in. lbs. to 55 in. lbs. Spot tie & trim excess shielding. See detail.

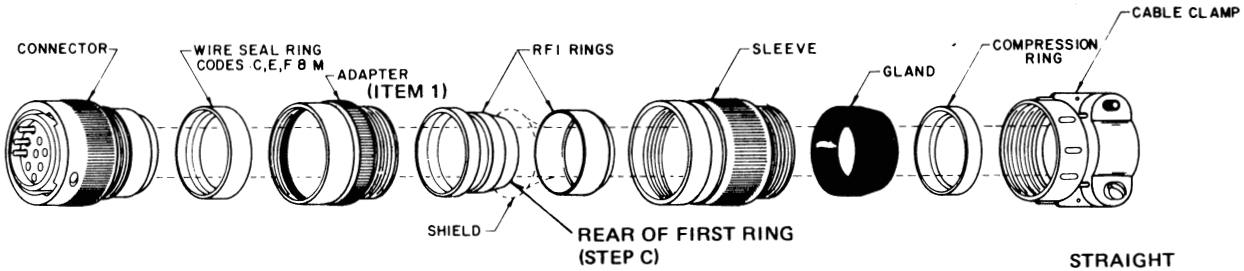
* Item 1, 90° assembly includes: elbow (item 1a), cap (item 1b) and sleeve (item 1c) sub-assembled.



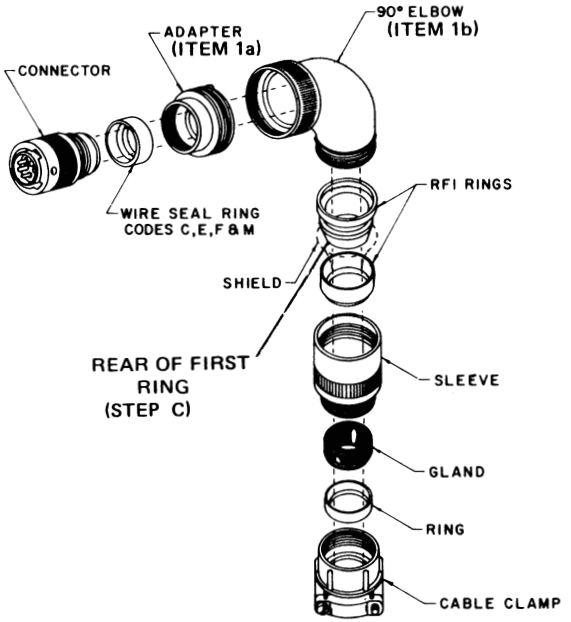
OPTIONAL SPOT TIE FOR
3 RING DUAL TERMINATION TYPES

DETAIL
(STEP E_1)

SUNBANK ELECTRONICS, INC.
PASO ROBLES, CA.
UNI-ADAPTER
ASSEMBLY PROCEDURE
2 AND 3 RING TERMINATION
SIZE D | CODE IDENT 07418 | AP 9
SCALE NONE | SHEET 1



STRAIGHT ASSEMBLY



90° ASSEMBLY

SUGGESTED PROCEDURE

A. Temporarily assemble items 1* and first RFI ring to connector.
B. Place remaining adapter components on cable in sequence shown. Keep these components away from termination, so they will not interfere with subsequent assembly steps.
C. Insert cable into item 1* and first ring bottom on connector insert)or inside shoulder of item 1*). Mark cable at rear of first ring held in place against rear of item 1*.
D. LOOSEN ITEM 1* from connector and slide first ring up cable with the other components. Item 1, adapter may remain assembled to some connectors, as it may not interfere with contact insertion.
E. Trim cable jacket)if applicable), approx. 1 to 1-1/2 inches in back of mark made (step C). Be sure trim length allows clamp gland to make full contact with cable jacket, to insure proper environmental seal.
F. Prepare shielding by either combing or flaring out. Extract individual shield pig tails (if applicable), and flatten out. Fold back and spot tie or tape prepared shields on cable temporarily.
G. Prepare and terminate conductors in accordance with normal practices.
H. Tighten item 1* securely to connector. Slide first RFI ring into place, untie shielding and arrange evenly about cone at rear of first ring. Spot tie shielding and trim excess.
I. Slide second RFI ring and rear sleeve into place and tighten securely. Slide gland & ring into place, (if applicable) and tighten cable clamp. Place saddle bars around cable and tighten being careful not to damage cable.
J. Inspect final assembly for proper installation. Note: elastomer's should always be lubricated prior to assembly, to avoid damage and insure proper sealing (if applicable).

* 45° and 90° assembly includes adapter (item 1a) and elbow (item 1b) sub-assembled (90° shown)

SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

UNI – ADAPTER

ASSEMBLY PROCEDURE
INTERNAL CONE/RING TERMINATION

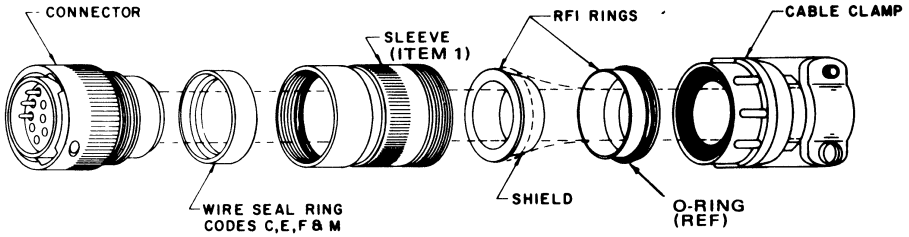
SIZE	CODE IDENT	
D	07418	AP 10
SCALE NONE	WEIGHT:	SHEET:

SELF-SEATING PATENT NO. 5,435,760

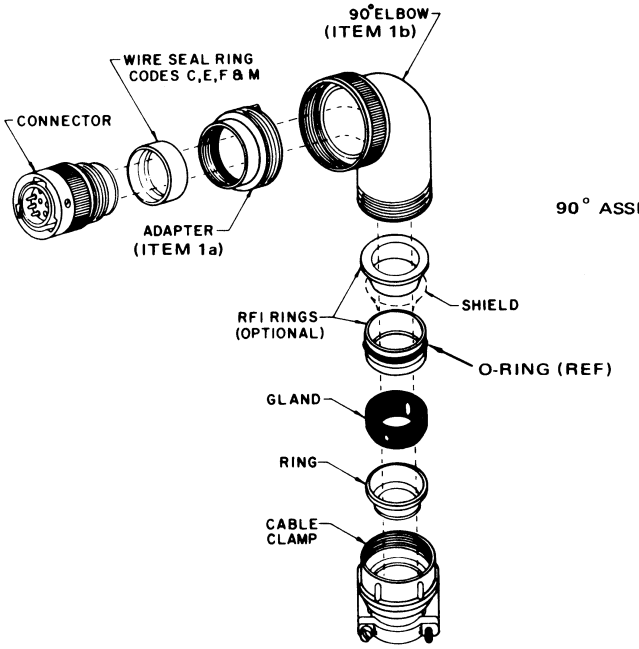
SUGGESTED PROCEDURE

A. Temporarily assemble item 1* to connector.
B. Insert cable into item 1* and bottom on connector. Mark jacket at rear of item 1 or 1b.
C. Disassemble connector from item 1* slide adapter components up cable away from termination area so as not to interfere with subsequent assembly steps.
D. Trim cable jacket at mark (ref. step B) being careful not to cut overall shield.
E. Terminate conductors in accordance with normal practices.
F. Slide item 1* down cable and thread securely to connector.
G. Slide first RFI ring down cable and seat into bore at rear of item 1.
H. Flair shielding out over the periphery of first RFI ring and trim off excess.
J. Slide second RFI ring down cable and press into place over first RFI ring, securing shield and seating o'ring (if applicable).
K. Slide cable clamp down cable and thread securely to rear of item 1*. This will seat RFI rings in grounding position and seal the cable jacket (if applicable).
L. Additional tightening of the assembly may be obtained by the use of a trap wrench or by using the wrench flats or knurls afforded.

NOTE: Elastomers should be lubricated prior to assembly to avoid damage and insure proper sealing.
* 45° & 90° assembly, item 1 includes adapter (item 1a) and elbow (item 1b) sub-assembled. (90° shown)



STRAIGHT ASSEMBLY



90° ASSEMBLY

SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.

UNI – ADAPTER

ASSEMBLY PROCEDURE
DUAL RECESSED EMI/RFI RINGS

SIZE	CODE IDENT	
D	07418	AP 16
SCALE NONE	WEIGHT	SHEET

SUGGESTED PROCEDURE

A. Temporarily assemble Item 1 to connector.

B. Slide remaining components on cable in sequence shown. Keep these components away from termination, so they will not interefere with subsequent assembly steps.

C. Insert cable thru Item 1 and bottom on connector. Mark cable while in position at the rear end of sleeve.

D. Remove Item 1 from connector and slide up cable along with other components.

E. Trim cable (jacket if applicable) approx. 3/4 to 1/2 inches behind mark made in Step C.*

*Note: Slide SE97 support ring (if applicable) under shield to end of cable jacket.

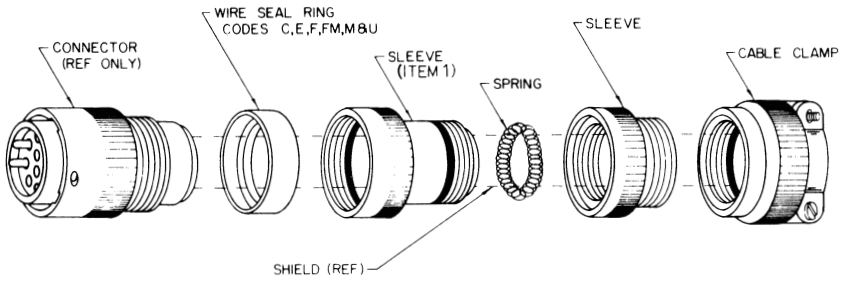
F. Prepare and terminate conductors in accordance with normal practices.

G. Slide Item 1 and tighten securely to connector. Slide the spring into place along with second sleeve and tighten securely. This will insure a positive 360° grounding of the shield.

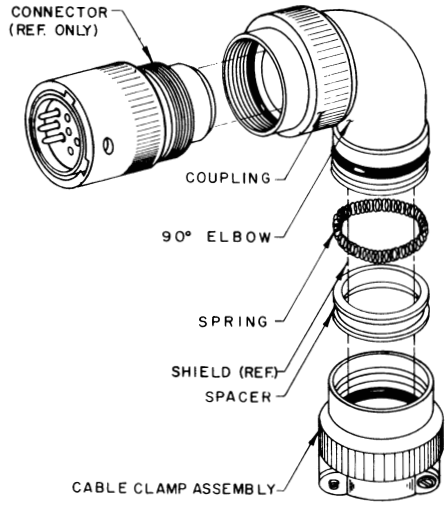
H. Slide down and tighten cable clamp. Place saddle bars around cable and tighten, being careful not to damage cable.

I. Inspect final assembly for proper installation. Note: Elastomers should always be lubricated prior to assembly to avoid damage and insure proper sealing (if applicable).

STRAIGHT ASSEMBLY



90° ASSEMBLY



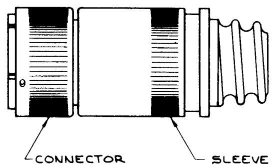
MATERIAL	SPECIFICATIONS
TERIALS	

SUNBANK ELECTRONICS, INC.
PASO ROBLES, CA.

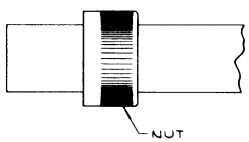
UNI-ADAPTER
ASSEMBLY PROCEDURE
OVERALL RFI TERMINATION

SIZE	CODE IDENT	AP27
D	07418	
SCALE NONE	WEIGHT	SHEET

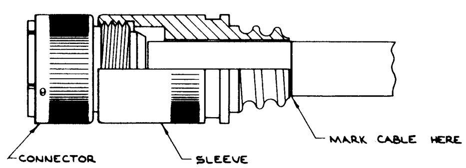
OVERALL SHIELD TERMINATION



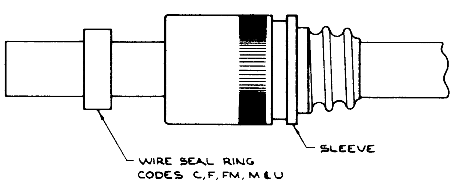
STEP 1. TEMPORARILY ASSEMBLE SLEEVE TO CONNECTOR.



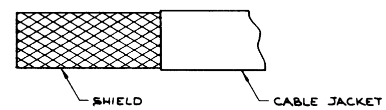
STEP 2. SLIDE NUT UP CABLE AWAY FROM TERMINATION AREA SO AS NOT TO INTERFERE WITH SUBSEQUENT ASSEMBLY STEPS.



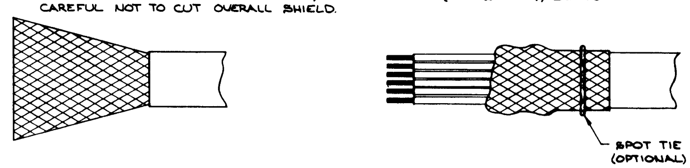
STEP 3. INSERT CABLE INTO SLEEVE AND BOTTOM AGAINST CONNECTOR. HOLD CABLE IN POSITION AND MARK JACKET AT END OF SLEEVE.



STEP 4. DISASSEMBLE SLEEVE FROM CONNECTOR AND SLIDE SLEEVE UP THE CABLE WITH NUT. (SLIDE WIRE SEAL RING UP CABLE AFTER SLEEVE IF APPLICABLE).



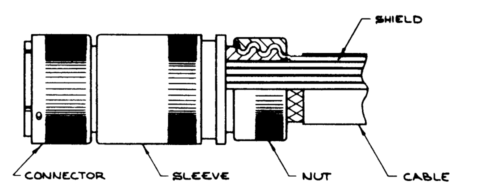
STEP 5. TRIM CABLE JACKET, 1/2 INCH PLUS LENGTH OF WIRE THAT WILL PROTRUDE INSIDE OF CONNECTOR, BEHIND MARK (REF. STEP 3), BEING CAREFUL NOT TO CUT OVERALL SHIELD.



STEP 6. PREPARE OVERALL SHIELD BY FLARING OUT AND SECURING AGAINST OUTER PERIPHERY OF CABLE AND SPOT TIE (TEMPORARILY).

STEP 7. TERMINATE CONDUCTORS IN ACCORDANCE WITH NORMAL PRACTICES.

STEP 8. ASSEMBLE SLEEVE TO CONNECTOR, AND TIGHTEN.



STEP 9. FLARE SHIELD OVER REAR OF SLEEVE. SLIDE DOWN NUT AND THREAD ONTO SLEEVE SECURLY AND TORQUE TO 75 INCH POUNDS, AND TRIM ANY EXPOSED SHIELD STRANDS AT FOWARD END OF NUT.

STEP 10. SHRINK BOOT MAY BE INSTALLED AT THIS TIME.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS
LIST OF MATERIALS					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ± 1/32 — DECIMALS .X ± .03, .XX ± .010, .XXX ± .005 — ANGLES ± 2°

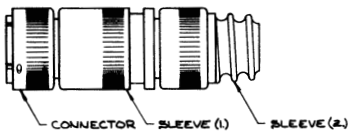
TITLE	SIGNATURE	DATE
DFTM	T. CARRUTHERS	11-19-82
CHECK	[signature]	11-20
DESIGN	[signature]	11-21
PR. ENG.		
CH. ENG.		

APPROVAL [signature]
RELEASE DATE 12-1-82

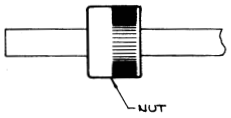
ELECTRONICS, INC.
PASO ROBLES, CALIFORNIA
UNI-ADAPTER
ASSEMBLY PROCEDURE
EMI/RFI TERMINATION

SIZE D | CODE IDENT. 07418 | AP 28
SCALE: NONE | WEIGHT: ~ | SHEET 1 OF 2

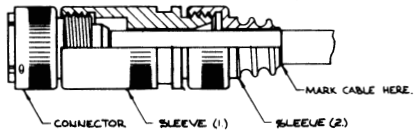
INDIVIDUAL AND OVERALL SHIELD TERMINATION



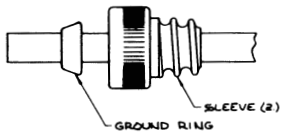
STEP 1. TEMPORARILY ASSEMBLE SLEEVES (1) & (2) TOGETHER AND ASSEMBLE SLEEVES TO CONNECTOR.



STEP 2. SLIDE NUT UP CABLE AWAY FROM TERMINATION AREA SO AS NOT TO INTERFERE WITH SUBSEQUENT ASSEMBLE STEPS.



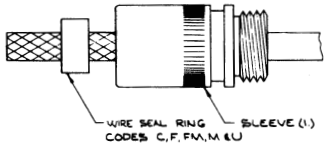
STEP 3. INSERT CABLE INTO SLEEVES AND BOTTOM AGAINST CONNECTOR. HOLD CABLE IN POSITION AND MARK JACKET AT END OF SLEEVE (2).



STEP 4. REMOVE CABLE FROM SLEEVES, REMOVE SLEEVE(2) FROM SLEEVE (1) AND SLIDE SLEEVE (2) AND GROUND RING UP CABLE WITH NUT.

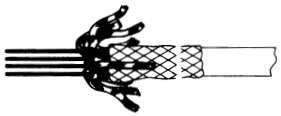
STEP 5. TRIM CABLE JACKET 1/2 INCH, PLUS LENGTH OF WIRE THAT WILL PROTRUDE INSIDE OF CONNECTOR, BEHIND MARK. BEING CAREFUL NOT TO CUT OVERALL SHIELD.

STEP 6. INSERT CABLE INTO SLEEVE (1) AND BOTTOM AGAINST CONNECTOR, HOLDING CABLE IN PLACE, MARK OVERALL SHIELD AT END OF SLEEVE.



STEP 7. DISCONNECT SLEEVE (1) FROM CONNECTOR AND SLIDE SLEEVE UP CABLE WITH OTHER COMPONENTS. (SLIDE WIRE SEAL RING UP CABLE AFTER SLEEVE IF APPLICABLE).

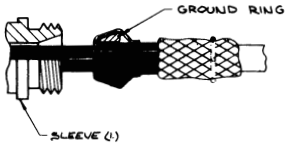
STEP 8. TRIM OVERALL SHIELD 1/2 INCH FROM MARK TOWARDS END OF CABLE, BEING CAREFUL NOT TO CUT INDIVIDUAL SHIELDS, FOLD BACK AND SPOT TIE.



STEP 9. EXTRACT WIRES FROM INDIVIDUAL SHIELDS 1 INCH BACK FROM CABLE JACKET (REF. AP93) FOLD BACK INDIVIDUAL SHIELDS AND SPOT TIE.

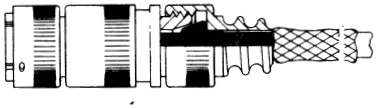
STEP 10. TERMINATE CONDUCTORS IN ACCORDANCE WITH NORMAL PRACTICES.

STEP 11. SLIDE DOWN SLEEVE (1) AND ASSEMBLE TO CONNECTOR AND TIGHTEN.

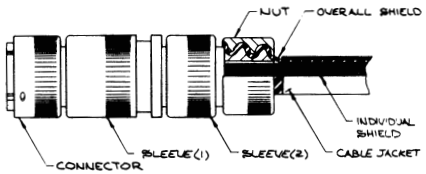


STEP 12. UNTIE INDIVIDUAL SHIELDS, SLIDE GROUND RING DOWN, FLARE SHIELDING OUT, OVER AND AROUND GROUND RING.

STEP 13. SLIDE GROUND RING INTO PLACE IN TAPERED BORE AT REAR OF SLEEVE (1), TRIM EXCESS SHIELD AND SPOT TIE IF NECESSARY.



STEP 14. SLIDE SLEEVE (2) AND THREAD ONTO SLEEVE (1) AND TIGHTEN.



STEP 15. FLARE OVERALL SHIELD OVER REAR OF SLEEVE (2). SLIDE DOWN NUT AND THREAD ONTO SLEEVE SECURELY AND TORQUE TO 75 INCH-POUNDS. TRIM ANY EXPOSED SHIELD STRANDS AT FORWARD END OF NUT.

STEP 16. SHRINK BOOT MAY BE INSTALLED AT THIS TIME.

LIST OF MATERIALS

REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ± 1/32 | DECIMALS X ± .03, XX ± .010, XXX ± .005 | ANGLES ± 2°

THE INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF SUNBANK ELECTRONICS, INC. AND, EXCEPT FOR USES EXPRESSLY GRANTED BY WRITTEN AGREEMENT WITH SUNBANK ELECTRONICS, INC., RESERVED ALL PATENT, PROPRIETARY, DESIGN, USE, SALE, MANUFACTURING AND REPRODUCTION RIGHTS THEREIN. THIS DOES NOT APPLY TO ANY VENDOR PARTS.

	TITLE	SIGNATURE	DATE
DRWN	T. CARRUTHERS		11-30-82
CHECK			12-1-82
DESIGN			12-1-82
PR. ENG.			
CH. ENG.			

APPROVAL
RELEASE DATE 12-1-82

SUNBANK ELECTRONICS, INC.
PALO ROBLES, CALIF.

UNI-ADAPTER
ASSEMBLY PROCEDURE
EMI/RFI TERMINATION

SIZE	CODE IDENT.	
D	07418	AP28

SCALE: NONE WEIGHT: ~ SHEET: 2 OF 2

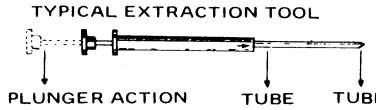
SELF-SEATING PATENT NO. 5,435,760

469

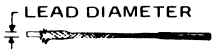
109

SUGGESTED INDIVIDUAL SHIELD PREPARATION.

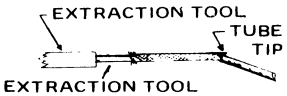
STANDARD METHOD UTILIZING COMMERCIAL TYPE SHIELD EXTRACTION TOOL (SEE SKETCH BELOW)



Step 1. Remove outer wire jacket, to expose shield, if applicable, trim to length. See appropriate assembly procedure.



Step 2. Insert wire lead into tool and slide tube tip under shield.

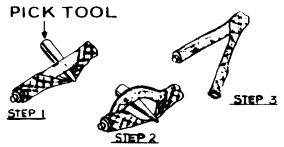


Step 3. Slide tube under shield to desired depth* (trim length) and break-out tube tip by bending wire.
(* 1.00 minimum depth)

Step 4. After tube tip has been exposed depress plunger to activate wire extraction.

Step 5. Pull wire out of shield and straighten. Fold back shield pigtail and flatten by hand.

ALTERNATE METHOD USING TYPICAL PICK TOOL (ANY POINTED BLUNT INSTRUMENT)



SUGGESTED ASSEMBLY PROCEDURE

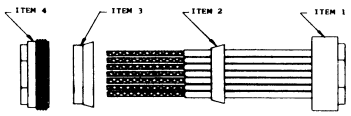


FIG. 2

STEP 1: Install items 1 & 2 on cable bundle prior to "prepping" shields. Insure that all hardware orientation is as shown in Fig. 2. Check rings to insure that the larger of the two rings is closest to item 4. Push items 1 & 2 up the cable bundle out of the way.

Step 2: Prepare individual shields.

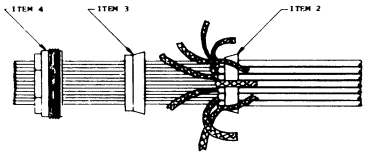


FIG. 3

STEP 3: Bring item 2 down the cable bundle to a position relative to the point at which the leads break out of the shield. Dress the shield pigtails evenly around the preiphery of item 2 as shown in Fig. 3 & 4, using spot tie or tape to maintain the shield organization as shown in Fig. 4.

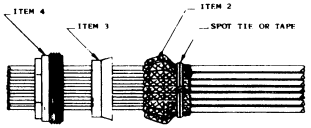


FIG 4

STEP 4: Bring item 3 up the cable bundle to the point at which it seats on the shield as dressed over item 2 see Fig. 5. At this point of assembly the shield pigtails may be left intact as dressed back of the cable bundle shown in Fig. 5.

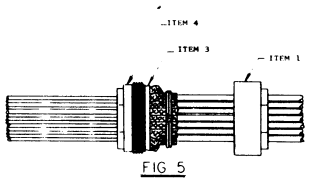


FIG 5

STEP 5: Install item 4 on the cable bundle and move it up the bundle until it is seated over item 3 as shown in Fig. 5. Move item 1 down the bundle until it engages with item 4. Thread item 4 into item 1 hand tight. Using the wrench flats, hold item 1 and tighten item 4 to 30 inch pounds min. to 60 inch pounds max. The completed assembly will be as shown in cut away view, Fig. 6.

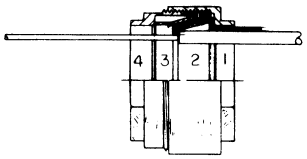
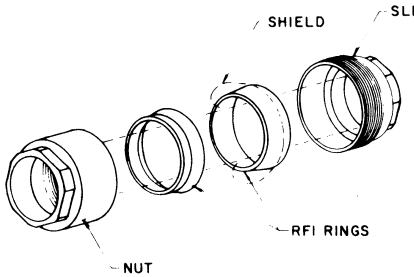
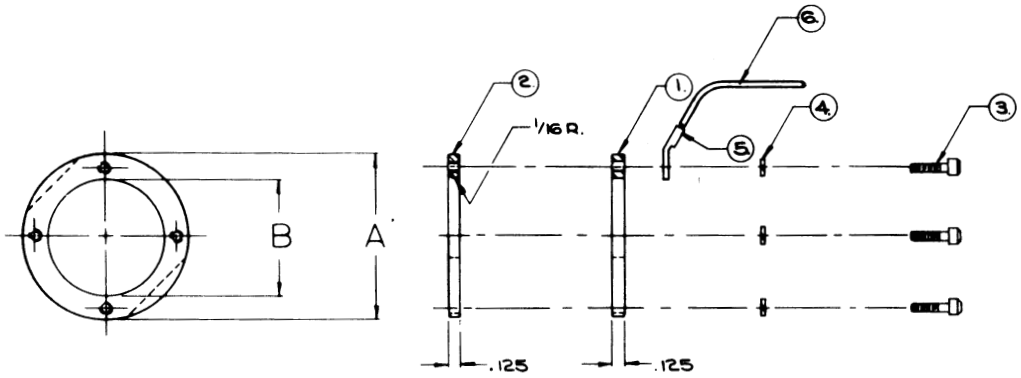


FIG. 6



SUNBANK ELECTRONICS, INC. PASO ROBLES, CA.	
UNI-ADAPTER ASSEMBLY PROCEDURE NON CRIMP GROUND RINGS	
SIZE D / CODE IDENT 07418	AP 95
SCALE NONE / WEIGHT / SHEET	

DASH NUMBER	A O.D DIA.	B I.D DIA
04	1.562	.750
05	1.562	1.062
06	1.906	1.375
08	1.093	.688
09	1.906	1.375
10	1.438	.948
11	1.781	1.250



NOTES:

⚠1 MIL-W-16878 OR EQUIVALENT.

⚠	REQ'D	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATIONS
⚠1	1	6.	043-AP46300-0040	20 AWG		⚠
	1	5.	MS25036-106	LUG		
	4	4.	MS35338-136	WASHER	SST	COM'L
	4	3.	MS16997-19	SCREW	STEEL	COM'L
	1	2.	030-003**-0463	GROUND RING	302 SST	QQ-S-766
	1	1.	016-003**-0463	RING	302 SST	QQ-S-766

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS ± 1/32 | DECIMALS X ± .03, XX ± .010, XXX ± .005 | ANGLES ± 2°

	TITLE	SIGNATURE	DATE
	DFSM	Pat Oakes	6-3-70
	CHECK	C. Fowler	6-3-70
	DESIGN		
	PR ENG		
	CH ENG		

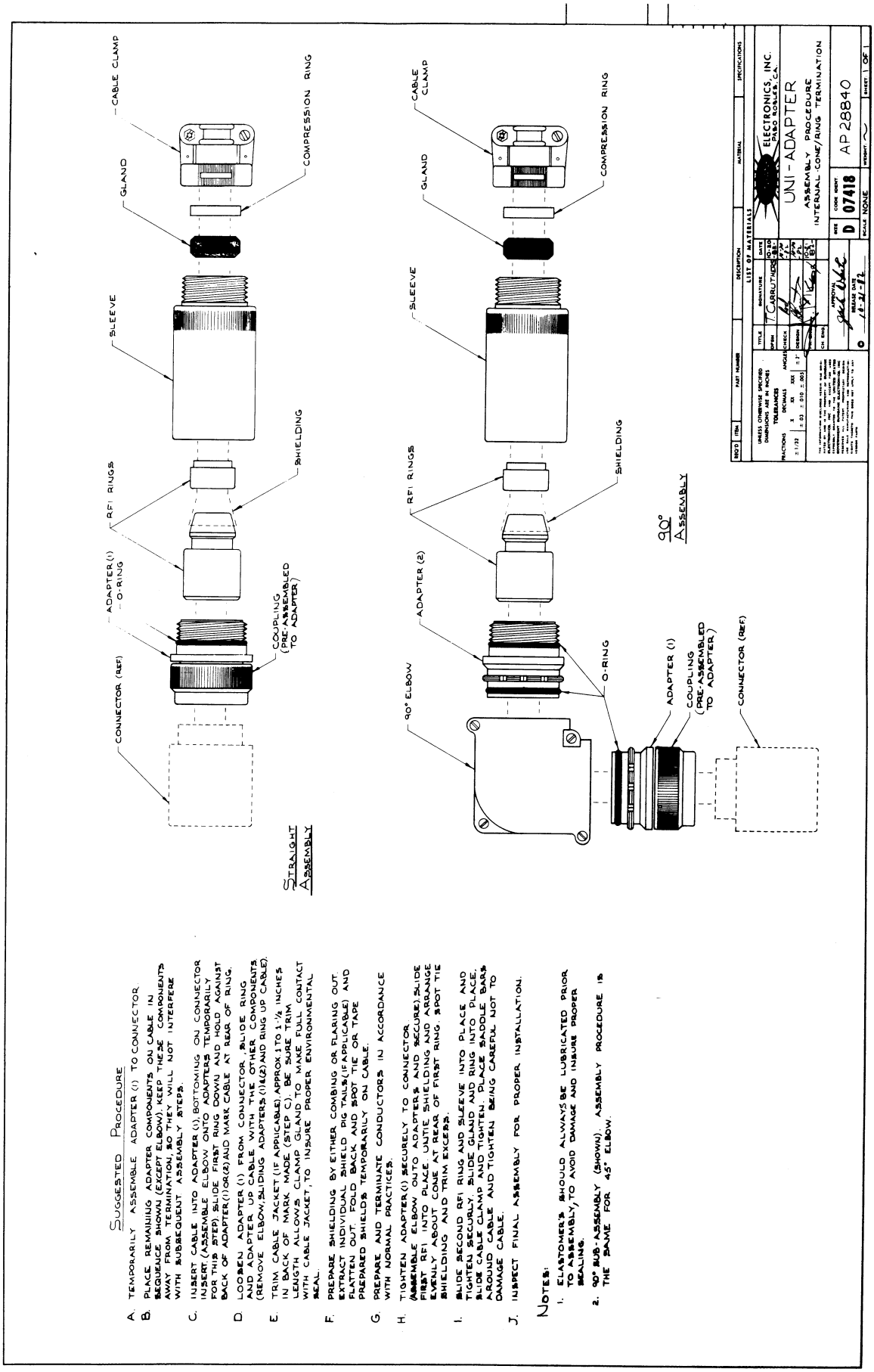
APPROVAL: Jack White
RELEASE DATE: © 6-3-70

SUNBANK ELECTRONICS, INC. PASO ROBLES CALIFORNIA

ASSEMBLY PROCEDURE-GROUND RINGS.
(REF. SA468, SA465, SA466 & SA467 SA517 & SA521)

SIZE	CODE IDENT.	
C	07418	AP463
SCALE: NONE	WEIGHT:	SHEET: 1 of 1

AP28840



Suggested Procedure

A. Temporarily assemble adapter (1) to connector.

B. Place remaining adapter components on cable in sequence shown (except elbow). Keep these components away from termination, so they will not interfere with subsequent assembly steps.

C. Insert cable into adapter (1) bottoming on connector insert (assemble elbow onto adapter as shown for this step). Slide first ring down and hold against back of adapter (1) or (2) and mark cable at rear of ring.

D. Loosen adapter (1) from connector. Slide ring and adapter up cable with the other components (remove elbow, sliding adapters (1)(2) and ring up cable).

E. Trim cable jacket (if applicable) approx 1 to 1-½ inches in back of mark made (step C). Be sure trim length allows clamp gland to make full contact with cable jacket, to insure proper environmental seal.

F. Prepare shielding by either combing or flaring out. Extract individual shield pig tails (if applicable) and flatten out. Fold back and spot tie or tape prepared shields temporarily on cable.

G. Prepare and terminate conductors in accordance with normal practices.

H. Tighten adapter (1) securely to connector. Assemble elbow onto adapters and secure. Slide first RFI into place. Untie shielding and arrange evenly about cone at rear of first ring. Spot tie shielding and trim excess.

I. Slide second RFI ring and sleeve into place and tighten securely. Slide gland and ring into place. Slide cable clamp and tighten. Place saddle bars around cable and tighten being careful not to damage cable.

J. Inspect final assembly for proper installation.

Notes:

1. Elastomers should always be lubricated prior to assembly, to avoid damage and insure proper sealing.
2. 90° sub-assembly (shown). Assembly procedure is the same for 45° elbow.

SELF-SEATING PATENT NO. 4,525,760

CONNECTOR SHELL SIZE REFERENCE

ORDER NUMBER	THREAD UNIFIED CLASS 2*	B MAX. DIA.	CODE A	CODE B	CODE 5015, 26482 83723 NAS 1599	C 81703	CODE D	CODE E	CODE F SERIES 1	CODE F SERIES 2	CODE FM	CODE G COM.	CODE G MIL	CODE H	CODE J	CODE K	CODE KA	CODE KB	CODE KC	CODE KD	CODE L	CODE M	CODE N	CODE P	CODE R	CODE T	CODE U	CODE W	CODE X	ORDER NUMBER
01	.375 - 32	.531	8S																8							8S				01
02	.438 - 27	.594	8S	8S																										02
03	.438 - 28	.594	8S				8	8	9	8														8S					8	03
04	.500 - 20	.656			8										9															04
05	.500 - 28	.656	10S	10S								8	A			3	3	3	10		8			10S	8S, 10S	10S				05*
06	.562 - 24	.719	10S, 10SL			3	10	10	11	10														10SL				10	10	06
07	.625 - 24	.781	10SL,12,12S	10SL	10											7	7	7			10	8		12, 12S	10SL,12,12S	10SL,12,12S				07
08	.625 - 28	.688										10	B																	08
09	.688 - 24	.844	12, 12S	12, 12S				12	13	12					12													12	12	09
10	.750 - 20	.906	14, 14S	14, 14S	12	7	12							12		12	12	12	14		12	10		14, 14S	14, 14S	14, 14S	11 (A)			10
11	.750 - 28	.812																												11
12	.812 - 20	.969					14	14	15	14					15													14	14	12
13	.875 - 20	1.031	16, 16S	16, 16S	14	12								14		19	19	19	16		14	12		16, 16S	16, 16S	16, 16S	13 (B)			13
14	.875 - 28	.938										14	D																	14
15	.938 - 20	1.094					16	16	17	16																		16	16	15
16	1.000 - 20	1.156	18	18	16	19								16		27	27	27	18	18	16	14		18	18	18	15 (C)			16
17	1.000 - 28	1.062										16	E		18															17
18	1.062 - 18	1.219			18	27	18	18	19	18																		18	18	18
19	1.125 - 18	1.281	20											18						20	18	16		20		20	17 (D)			19
20	1.125 - 24	1.281	20	20																										20
21	1.125 - 28	1.188										18	F																	21
22	1.188 - 18	1.344			20	37	20	20	21	20						37		37							20, 22			20	20	22
23	1.250 - 18	1.406	22	22										20						22	20	18		22		22	19 (E)			23
24	1.250 - 28	1.312										20	G																	24
25	1.312 - 18	1.469			22		22	22	23	22																		22	22	25
26	1.375 - 18	1.531	24	24										22						24	22	20		24		24				26
27	1.375 - 28	1.438										22	H																	27
28	1.438 - 18	1.594			24		24	24	25	24															24, 28		23 (F)	24	24	28
29	1.500 - 28	1.562										24	J																	29
30	1.625 - 18	1.781	28	28										24								24		28		28				30
31	1.750 - 18	1.969			28																				32					31
32	1.875 - 16	2.031	32											28										32		32	29 (H)			32
33	1.906 - 18	2.062	32	32																										33
34	2.000 - 18	2.219			32																				36					34
35	2.062 - 16	2.219	36											32													33 (J)			35
36	2.125 - 18	2.281	36																											36
37	2.125 - 16	2.281	36																					36		36				37
38	2.062 - 20	2.219		36																										38
39	2.250 - 16	2.469			36																				40					39
40	2.312 - 16	2.469	40											36																40
41	2.375 - 16	2.531	40																					40		40				41
42	2.500 - 16	2.719			40																				44					42
43	2.625 - 16	2.781	44											40																43
44	2.750 - 16	2.969			44																									44
45	2.812 - 18	2.969	48																											45
46	3.000 - 16	3.219			48																				48					46
47	3.125 - 16	3.312												48																47
48	2.875 - 16	3.031	48											44																48
49	1.500 - 18	1.688				61										61		61			24	22								49
50	1.562 - 18	1.719																									25 (G)			50
51	.530 - 24	N / A																		10										51
52	.563 - 36	.718																					10							52
53	.650 - 24	N / A																		12										53
54	.733 - 36	.889																					12							54
55	.781 - 24	N / A																		14										55
56	.803 - 36	.968																					14							56
57	.906 - 24	N / A																		16										57
58	.930 - 36	1.094																					16							58
59	1.036 - 36	1.188																					18							59
60	1.161 - 36	1.312																					20							60
61	1.286 - 36	1.438																					22							61
62	1.411 - 36	1.562																					24							62
63	1.661 - 36	1.812																					28							63
64	M12 X 1.0-6H	.656									9/A																			64
65	M15 X 1.0-6H	.781									11/B																			65
67	M18 X 1.0-6H	.897									13/C																			67
69	M22 X 1.0-6H	1.054									15/D																			69
70	M25 X 1.0-6H	1.172									17/E																			70
71	M28 X 1.0-6H	1.290									19/F																			71
72	M31 X 1.0-6H	1.406									21/G																			72
74	M34 X 1.0-6H	1.531									23/H																			74
77	M37 X 1.0-6H	1.645									25/J																			77

SERIES CODE	CONNECTOR SERIES DESCRIPTION
	SEE CROSS REFERENCE CHART, SECTION 5. FOR ADDITIONAL INFORMATION CONSULT FACTORY FOR CONNECTORS NOT LISTED
**A	MIL-C-5015 'D', MS 3100, MS 3101, MS 3106, CLASS A , E & R RESILIENT INSERT, SOLDER TYPE & BENDIX 10-214, CANNON CA-RX COMMERCIAL CRIMP TYPE
B	AMPHENOL '69' SERIES, 246-3100, 01, 06 CRIMP TYPE
C	MIL-C-5015 'G', MIL-C-26482 SERIES 2, MS 3400, MS 3401, MS 3404, MS 3406, MS 3450, MS 3451, MS 3454, MS 3456, MS 3470, MS 3471, MS 3472, MS 3474, MS 3475, MS 3476, CLASS D, E, K, L, U & W, MIL-C-83723 SERIES 1 & 3, MIL-C-81703 & NAS 1599
D	MIL-C-26500, MIL-C-38300 ALUMINUM SHELL, MS 24264, MS 24265, MS 24266, CLASS F, G & R
E	MIL-C- 26482 SERIES 1, MS 3110, MS 3116, MS 3120, MS3126, CLASS E, F & P
F	MIL-C-38999 SERIES 1 & 2, MS 27466, MS 27468, MS 27472, MS 27473, MS 27474, MS 27479, MS 27480, MS 27481, MS 27484, MS 27656, CLASS E & T
FM	MIL-C-38999, SERIES 3 & 4, DOD-C-38999 / 20, 24, 26, 40, 44, 46 & 47 CLASS C, F, K & W ('A' THREAD IS METRIC) (/44 N/A ON SPIN COUPLING)
G	MIL-C-81511 SEREIS 1, 2, 3 & 4, AMPHENOL OR CINCH 348 & DEUTSCH *815, CLASS F & W
H	MIL-C-22992, MS 17343, MS 17344, MS 17345, MS 17346, MS17347, MS 17348, CLASS J & R ('A' THREAD IS LEFT HAND)
J	MICRODOT, MARC 43, 53 & 63 SEREIS
K	DEUTSCH DM(14000) MS 3132, MS 3134, MS 3137 & MS 3138
KA	DEUTSCH DSM(120, 32000), RSM(UR20, 23000), RMK & SMK
KB	DEUTSCH DA(19000, DS(17000), DD(12000), MS 3140, MS 3144, MS 3147, MS 3148, MDR(13000), MDS(750, 17000)
KC	DEUTSCH RTK(UR40, 74000), STK(340, 4200)
KD	DEUTSCH DTK
L	BENDIX JT00RE, MS 0027497 CLASS V
M	BENDIX PC-PT 07, MS 3124, MS 3114
N	MIL-C-26500 STAINLESS STEEL, MIL-C-38300, MS 24264, MS 24265, MS 24266, MS 27613, MS 27614, MS 27615, CLASS E
P	MIL-C-83723 SERIES 2, M83723 / 17, 18, 19, 20, 23 & 24
R	MIL-C-5015, MS 3107, MS 3108, MIL-C-26482, MS 'V' THREAD GENERAL DUTY 'A' ENDBELL
T	MIL-C-5015 REV. 'E'
U	MIL-C-28840, M28840 / 10, 11, 14 & 16 CLASS A, B, C & E
W	BURNDY 'G' SERIES, TRIM TRIO, G0, G1, G6, G8 & G9
X	BENDIX SJT00RT, SJT06RT, SJTG06RT

**NOTE, ON SERIES CODE 'A' SOME SHELL SIZE TO ORDER NUMBERS ARE DUPLICATED. USE THE FOLLOWING ORDER NUMBER TO SHELL SIZE WHEN CONNECTOR MANUFACTURER IS KNOWN;
AMPHENOL; 02 FOR 8S, 07-10SL, 09-12 & 12S, 19-20 CLASS A, 20-20 CLASS E & R, 33-32, 36-36 (38-36 CODE 'B') & 48-48.
BENDIX; 01 FOR 8S, 07-10SL, 12 & 12S, 19-20, 32-32, 35-36 & 40-40.
CANNON; 03 FOR 8S, 06-10SL, 07-12 & 12S, 19-20, 32-32, 37-36, 41-40 & 45-48.

USE SERIES CODE 'AB' WHEN MANUFACTURER IS UNKNOWN. ADDITIONAL ADAPTERS WILL BE SUPPLIED. DESIGNATE ORDER NUMBER; 03 FOR SHELL SIZE 8S, 05-10S, 07-10SL, 09-12 & 12S, 19-20, 32-32, 37-36 & 40-40 (IE; SE**AB07 . . . PART TO FIT ANY MANUFACTURER OF SHELL SIZE 10SL FOR CODE 'A')

* THREAD CLASS 2B (INTERNAL), CODES A, B, C, D, E, F, FM, G, H, N, P, R, T, W, X & U
THREAD CLASS 2A (EXTERNAL), CODES J, K, KA, KB, KC, KD, L & M (B MAX. DIA. IS NOT APPLICABLE)
CAUTION: CLASS 2A TYPE ADAPTERS REQUIRE ADDITIONAL SUPPORT WHEN ENVELOPE EXCEEDS 2 INCHES IN LENGTH OR DIAMETER.
O'RINGS SUPPLIED WITH ENVIRONMENTAL ASSEMBLIES ONLY.

ECO 10-01-15452 REVISED: JANUARY 1994

Three Decades of Service

Joslyn Sunbank Corporation is a totally integrated manufacturer of connector accessories and flexible conduit assemblies. Fully self-contained, the 75,000 square foot Mil-I-45208 approved Sunbank facility includes its own CAD/CAM-supported engineering department, die-casting, machining, plating, and assembly operations. This capability allows us to maintain the highest standards at competitive prices.

Staying abreast of the latest interconnect industry technology, the Sunbank Sales and Engineering staff stand ready to support new and existing customer requirements. Accessories purchased from Sunbank are guaranteed to be designed right, produced right, and function as intended.

For over three decades, **Joslyn Sunbank Corporation** has been dedicated to serving the needs of the electronic interconnect industry. Engineering and Manufacturing expertise, along with commitment to quality and customer satisfaction, have truly made Sunbank an industry leader. Our staff is eager to solve your connector accessory problems and we look forward to your inquiries.

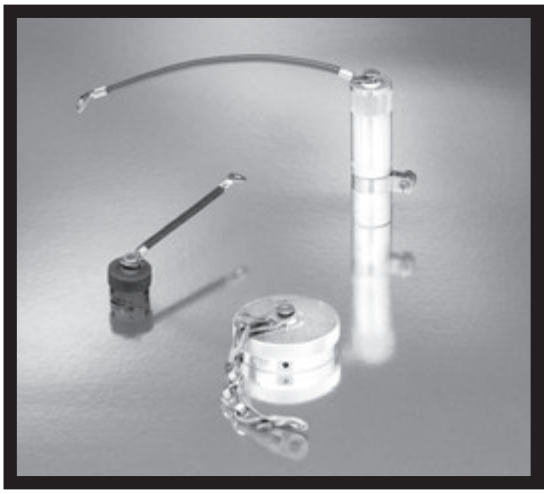
4 TABS TO A BANK: Each tab is 2-1/2" long.

Binder Tabs
Proof version 2
10-20-14
3-Ring Binder

Sunbank

Joslyn Sunbank Company, LLC

MIL-C-85049 Connector Accessories



SELF-SEATING™

PATENT NO. 5,435,760

SUNBANK QPL CONNECTOR ACCESSORIES

MIL-C-85049 CONNECTOR ACCESSORIES Slash Sheet Number	Ref. Spec.	Product Description
M85049/6	MS3189A	RFI, Env. 45 degree
M85049/7	MS3189B	Env., 45 degree
M85049/8	MS3188A	RFI, Env., 90 degree
M85049/9	MS3188B	Env., 90 degree
M85049/10	MS3437A	RFI, Env., straight
M85049/11	MS3437B	Env., straight
M85049/14S	N/A	Wire Sealing, str.
M85049/15G	N/A	Qwik-Ty w/ ground lug, 45 deg
M85049/15S	N/A	Qwik-Ty self-locking, 45 deg
M85049/16G	N/A	Qwik-Ty w/ ground lug, 90 deg
M85049/16S	N/A	Qwik-Ty self-locking, 90 deg
M85049/17	M38999/5	RFI, Env., straight (SE7 type)
M85049/18	N/A	RFI, Env., straight (SE7 type)
M85049/19	N/A	RFI, Straight (SE7 type)
M85049/20	N/A	RFI crimp ring, straight
M85049/21	N/A	Non-RFI, str. w/clamp
M85049/23	MS3189C	RFI, 45 degree
M85049/24	MS3188C	RFI, 90 degree
M85049/25	MS3437C	RFI, straight
M85049/26-1-	MS3419	RFI crimp ring accomm., str.
M85049/26-2-	MS3419	Crimp ring only
M85049/26-3-	MS3419	RFI w/ crimp ring, straight
M85049/27	M38999/1	Wire Sealing, str.
M85049/27S	N/A	Wire sealing, self-locking, str.
M85049/29	M38999/6	Non-RFI, str., w/clamp
M85049/31	MS3416E	Wire Sealing, str.
M85049/31S	N/A	Wire sealing, self-locking, str.
M85049/33-2-	M38999/3	RFI crimp ring accomm., str.
M85049/36	M38999/7	RFI, str., w/clamp
M85049/37	M38999/8	RFI, 90 deg., w/clamp
M85049/38	N/A	Straight strain relief
M85049/38S	N/A	Str. strain relief, self-locking
M85049/39	N/A	90 degree strain relief
M85049/39S	N/A	90 deg strain relief, self-locking
M85049/42	MS3057D	Strain relief clamp
M85049/43	MS3415	45 degree open strain relief
M85049/45	MS27663	Straight strain relief, plastic
M85049/46	MS27663	90 degree strain relief, plastic
M85049/47	MS27507	90 degree strain relief
M85049/47S	N/A	90 deg strain relief, self-locking
M85049/49-2-	MS27506	Straight strain relief
M85049/49-2S	N/A	Str strain relief, self-locking
M85049/51-1-	MS3418	90 degree open frame
M85049/51S	N/A	90 deg open frame, self-locking
M85049/52-1-	MS3417	Straight open frame
M85049/52S	N/A	Str open frame, self-locking
M85049/53	MS3152	Qwik-Ty straight

MIL-C-85049 CONNECTOR ACCESSORIES Slash Sheet Number	Ref. Spec.	Product Description
M85049/54	MS3153	Qwik-Ty 45 degree
M85049/55	MS3154	Qwik-Ty 90 degree
M85049/58	N/A	Potting adapter, straight
M85049/57S	N/A	Qwik-Ty 45 deg, self-locking
M85049/57G	N/A	Qwik-Ty 45 deg, S/L w/lug
M85049/61	N/A	Potting adapter, straight
M85049/60-1-	MS3158	Straight, shrink boot accomm.
M85049/60-2G	MS3416G	Wire sealing, str, shrink boot
M85049/62	M38999/2	Straight, shrink boot accomm.
M85049/63G	N/A	Qwik-Ty 90 deg., S/L w/lug
M85049/69	N/A	Straight, shrink boot accomm.
M85049/76	N/A	RFI, Env., 90 deg (SE7 type)
M85049/77	N/A	RFI, Env., 45 deg(SE7 type)
M85049/78	N/A	RFI, Env., 45 deg (SE7 type)
M85049/79	N/A	RFI, Env., 90 deg (SE7 type)
M85049/82	N/A	Banding, str. RFI, self-locking
M85049/83	N/A	Banding, 45 deg, RFI, S/L
M85049/84	N/A	Banding, 90 deg, RFI, S/L
M85049/85	N/A	Banding, straight, RFI, S/L
M85049/86	N/A	Banding, 45 deg., RFI, S/L
M85049/87	N/A	Banding, 90 deg, RFI, S/L
M85049/88	N/A	Banding, str., RFI, S/L
M85049/89	N/A	Banding, 45 deg, RFI, S/L
M85049/90	N/A	Banding, 90 deg, RFI, S/L
M85049/93	N/A	Shield support ring, composite

MIL-SPEC MISCELLANEOUS Slash Sheet Number		Product Description
MS27291		Clamp, Strain Relief
M83723/16M		Shrink Boot Adapter
M83723/70		Push-Pull Adapter

MIL-SPEC PROTECTIVE COVERS Slash Sheet Number	Ref. Spec.	Product Description
MS27510	N/A	Protective Cover, Plug
MS27511	N/A	Protective Cover, Receptacle
MS27501	N/A	Protective Cover, Plug
MS27502	N/A	Protective Cover, Receptacle
D38999/32	N/A	Protective Cover, Plug
D38999/33	N/A	Protective Cover, Receptacle
MS3180	N/A	Protective Cover, Plug
MS3181	N/A	Protective Cover, Receptacle
MS25042	N/A	Protective Cover, Plug
MS25043	N/A	Protective Cover, Receptacle

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TABLE 1

NOTE:
THE FOLLOWING CONNECTORS MEET THE MIL-C-85049 INTERFACE SPECIFICATION: MIL-C-5015G; MIL-C-26482 SERIES 2; MS3400; MS3401; MS3404; MS3406; MS3450; MS3451; MS3454; MS3456; MS3470; MS3471; MS3474; MS3475; CLASS D, E, K, L, U AND W; MIL-C-83723 SERIES 1 AND 3; MIL-C-81703 AND NAS1599.

TABLE 2

NOTE:
MIL-C-38999 I AND II CONNECTOR SERIES USED ON MS27466, 67, 68, 72, 73, 74, 79, 80, 81, 84, MS27656, MS0027497 CLASS E AND T.

TABLE 3

NOTE:
MIL-C-38999 III AND IV CONNECTOR SERIES USED ON DOD-C-38999/20, 24, 26, 40, 46, 47 CLASS C, F, K AND W.

Interface Accessories For:

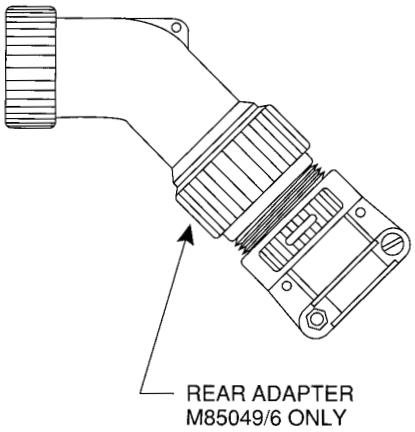
MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3 AND MIL-C-83723 SERIES III

M85049/6
45° BACKSHELL, CABLE SEALING, SHIELD TERMINATION.

M85049/6-10 W
- W — FINISH DESIGNATOR (AVAILABLE IN B, N, S & W; REFER TO TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 4)

M85049/7 (PART NO. AS PER M85049/6)
45° BACKSHELL, CABLE SEALING.

M85049/23 (PART NO. AS PER M85049/6)
45° BACKSHELL, NONENVIRONMENTAL, SHIELD TERMINATION.



M85049/8
90° BACKSHELL, CABLE SEALING, SHIELD TERMINATION.

M85049/8-10 W
- W — FINISH DESIGNATOR (AVAILABLE IN B, N, S & W; REFER TO TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 4)

M85049/9 (PART NO. AS PER M85049/8)
90° BACKSHELL, CABLE SEALING.

M85049/24 (PART NO. AS PER M85049/8)
90° BACKSHELL, NONENVIRONMENTAL, SHIELD TERMINATION.

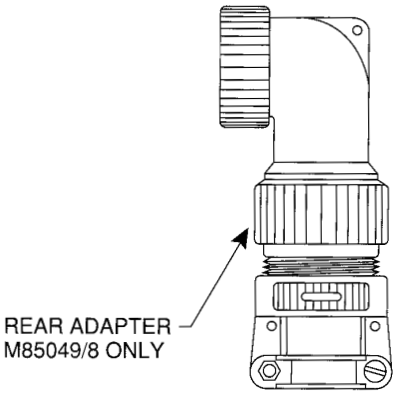


TABLE 4

DASH NO.	SHELL SIZE	CONNECTOR INTERFACE THREAD SIZE	CABLE RANGE MIN	CABLE RANGE MAX
1	03	.562-24	.125 (3.18)	.250 (6.35)
2			.250 (6.35)	.437 (11.10)
3	08	.500-20	.125 (3.18)	.250 (6.35)
4	10	.625-24	.125 (3.18)	.312 (7.92)
5			.250 (6.35)	.375 (9.53)
6	7, 12	.750-20	.125 (3.18)	.312 (7.92)
7			.250 (6.35)	.437 (11.10)
8			.350 (8.89)	.500 (12.70)
9	12, 14	.875-20	.250 (6.35)	.437 (11.10)
10			.350 (8.89)	.575 (14.61)
11	16, 19	1.000-20	.250 (6.35)	.437 (11.10)
12			.500 (12.70)	.700 (17.78)
13	18, 27	1.062-18	.350 (8.89)	.625 (15.88)
14			.625 (15.88)	.779 (19.79)
15	20, 37	1.188-18	.350 (8.89)	.625 (15.88)
16			.625 (15.88)	.904 (22.96)
17	22	1.312-18	.500 (12.70)	.750 (19.05)
18			.875 (22.23)	1.029 (26.14)
19	24	1.438-18	.500 (12.70)	.750 (19.05)
20			.875 (22.23)	1.144 (29.06)
21	28	1.750-18	.625 (15.88)	.937 (23.80)
22			1.000 (25.40)	1.375 (34.93)
23	32	2.000-18	.625 (15.88)	.937 (23.80)
24			.875 (22.23)	1.250 (31.75)
25			1.250 (31.75)	1.625 (41.28)
26	36	2.250-16	.625 (15.88)	.937 (23.80)
27			1.000 (25.40)	1.375 (34.93)
28			1.437 (36.50)	1.840 (46.74)
29	40	2.500-16	.625 (15.88)	.937 (23.80)
30			1.000 (25.40)	1.375 (34.93)
31			1.437 (36.50)	1.875 (47.63))
32	44	2.750-16	.625 (15.88)	.937 (23.80)
33			1.000 (25.40)	1.375 (34.93)
34			1.437 (36.50)	1.875 (47.63)
35	48	3.000-16	.625 (15.88)	.937 (23.80)
36			1.000 (25.40)	1.375 (34.93)
37			1.437 (36.50)	1.875 (47.63)
38	61	1.500-18	.500 (12.70)	.750 (19.05)
39			.875 (22.23)	1.184 (30.07)
40	16, 19	1.000-20	.350 (8.89)	.625 (15.88)
41	18, 27	1.062-18	.125 (3.18)	.312 (7.92)
42			.250 (6.35)	.437 (11.10)
43	20, 37	1.188-18	.250 (6.35)	.437 (11.10)
44	22	1.312-18	.125 (3.18)	.312 (7.92)
45			.250 (6.35)	.437 (11.10)
46	24	1.438-18	.350 (8.89)	.625 (15.88)
47	36	2.250-16	.500 (12.70)	.750 (19.05)
48	40	2.500-16	.500 (12.70)	.750 (19.05)
49	10	.625-24	.250 (6.35)	.437 (11.10)
50	12, 14	.875-20	.500 (12.70)	.750 (19.05)
51	16, 19	1.000-20	.625 (15.88)	.937 (23.80)
52	18, 27	1.062-18	.500 (12.70)	.750 (19.05)
53	61	1.500-18	.625 (15.88)	.937 (23.80)
54	20, 37	1.188-18	.500 (12.70)	.750 (19.05)
55			.875 (22.23)	1.250 (31.75)
56	22	1.312-18	.350 (8.89)	.625 (15.88)
57			.625 (15.88)	.937 (23.80)
58			.875 (22.23)	1.250 (31.75)
59	24	1.438-18	.625 (15.88)	.937 (23.80)
60	28	1.750-18	.500 (12.70)	.750 (19.05)
61			.875 (22.23)	1.250 (31.75)
62	32	2.000-18	1.000 (25.40)	1.375 (34.93)
63	36	2.250-16	.875 (22.23)	1.250 (31.75)
64			1.250 (31.75)	1.625 (41.28)
65	40	2.500-16	.875 (22.23)	1.250 (31.75)
66			1.250 (31.75)	1.625 (41.28)
67	44	2.750-16	.875 (22.23)	1.250 (31.75)
68			1.250 (31.75)	1.625 (41.28)
69	48	3.000-16	.875 (22.23)	1.250 (31.75)
70			1.250 (31.75)	1.625 (41.28)
71	7, 12	.750-20	.350 (8.89)	.625 (15.88)
72	18, 27	1.062-18	.625 (15.88)	.937 (23.80)
73	24	1.438-18	.875 (22.23)	1.250 (31.75)
74	12, 14	.875-20	.125 (3.18)	.312 (7.92)
75	16, 19	1.000-20	.125 (3.18)	.312 (7.92)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

Interface Accessories For:

MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3 AND MIL-C-83723 SERIES III

M85049/10
STRAIGHT BACKSHELL, CABLE SEALING, SHIELD TERMINATION.

M85049/10-10 W
- W — FINISH DESIGNATOR (AVAILABLE IN B, N, S & W; REFER TO TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 5)

M85049/11 (PART NO. AS PER M85049/10)
STRAIGHT BACKSHELL, CABLE SEALING.

M85049/25 (PART NO. AS PER M85049/10)
STRAIGHT BACKSHELL, NONENVIRONMENTAL, SHIELD TERMINATION.

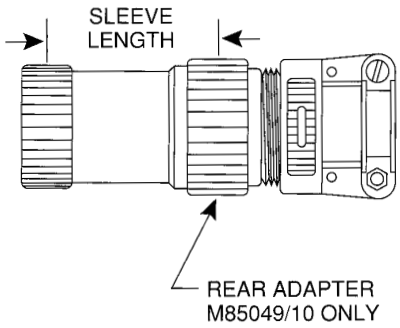


TABLE 5

DASH NO.	SHELL SIZE	CONNECTOR INTERFACE THREAD SIZE	CABLE RANGE MIN	CABLE RANGE MAX	SLEEVE LENGTH
01	03	.562-24	.125 (3.18)	.250 (6.35)	2.00 (50.80)
02					3.00 (76.20)
03			.250 (6.35)	.437 (11.10)	2.75 (69.85)
04					3.75 (95.25)
05	08	.500-20	.125 (3.18)	.250 (6.35)	2.00 (50.80)
06					3.00 (76.20)
07			.250 (6.35)	.437 (11.10)	2.75 (69.85)
08					3.75 (95.25)
09	10	.625-24	.125 (3.18)	.312 (7.92)	2.00 (50.80)
10					3.00 (76.20)
11			.250 (6.35)	.437 (11.10)	2.75 (69.85)
12					3.75 (95.25)
13	07, 12	.750-20	.250 (6.35)	.437 (11.10)	2.00 (50.80)
14					3.00 (76.20)
15			.350 (8.89)	.625 (15.88)	2.75 (69.85)
16					3.75 (95.25)
17	12, 14	.875-20	.350 (8.89)	.575 (14.61)	2.00 (50.80)
18					3.00 (76.20)
19			.500 (12.70)	.750 (19.05)	2.75 (69.85)
20					3.75 (95.25)
21	16, 19	1.000-20	.500 (12.70)	.700 (17.78)	2.00 (50.80)
22					3.00 (76.20)
23			.625 (15.88)	.937 (23.80)	2.75 (69.86)
24					3.75 (95.25)
25	18, 27	1.062-18	.350 (8.89)	.625 (15.88)	2.00 (50.80)
26					3.00 (76.20)
27			.500 (12.70)	.750 (19.05)	2.00 (50.80)
28					3.00 (76.20)
29			.625 (15.88)	.937 (23.80)	2.75 (69.85)
30					3.75 (95.25)
31	20, 37	1.188-18	.350 (8.89)	.625 (15.88)	3.00 (76.20)
32					4.00 (101.60)
33			.500 (12.70)	.750 (19.05)	3.00 (76.20)
34					4.00 (101.60)
35			.625 (15.88)	.937 (23.80)	3.75 (95.25)
36					4.75 (120.65)
37			.875 (22.23)	1.250(31.75)	3.75 (95.25)
38					4.75 (120.65)
39	22	1.312-18	.350 (8.89)	.625 (15.88)	3.00 (76.20)
40					4.00 (101.60)
41			.500 (12.70)	.750 (19.05)	3.00 (76.20)
42					4.00 (101.60)
43			.625 (15.88)	.937 (23.80)	3.00 (76.20)
44					4.00 (101.60)
45			.875 (22.23)	1.250(31.75)	3.75 (95.25)
46					4.75 (120.65)
47	24	1.438-18	.500 (12.70)	.750 (19.05)	3.00 (76.20)
48					4.00 (101.60)
49			.625 (15.88)	.812 (20.62)	3.00 (76.20)
50					4.00 (101.60)
51			.625 (15.88)	.937 (23.80)	3.00 (76.20)
52					4.00 (101.60)
53			.875 (22.23)	1.250(31.75)	3.75 (95.25)
54					4.75 (120.65)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

TABLE 5 (CONTINUED)

DASH NO.	SHELL SIZE	CONNECTOR INTERFACE THREAD SIZE	CABLE RANGE MIN	CABLE RANGE MAX	SLEEVE LENGTH
55	28	1.750-18	.500 (12.70)	.750 (19.05)	3.00 (76.20)
56					4.00 (101.60)
57			.625 (15.88)	.937 (23.80)	3.00 (76.20)
58					4.00 (101.60)
59			.875 (22.23)	1.250(31.75)	3.00 (76.20)
60					4.00 (101.60)
61			1.000(25.40)	1.375(34.93)	3.00 (76.20)
62					4.00 (101.60)
63	32	2.000-18	.625 (15.88)	.937 (23.80)	3.00 (76.20)
64					4.00 (101.60)
65			.875 (22.23)	1.250(31.75)	3.00 (76.20)
66					4.00 (101.60)
67			1.000(25.40)	1.375(34.93)	3.00 (76.20)
68					4.00 (101.60)
69			1.250(31.75)	1.625(41.28)	3.00 (76.20)
70					4.00 (101.60)
71	36	2.250-16	.875 (22.23)	1.250(31.75)	4.00 (101.60)
72					5.00 (127.00)
73			1.000(25.40)	1.375(34.93)	4.00 (101.60)
74					5.00 (127.00)
75			1.250(31.75)	1.625(41.28)	4.00 (101.60)
76					5.00 (127.00)
77			1.437(36.50)	1.875(47.63)	4.88 (123.95)
78					5.88 (149.35)
79	40	2.500-16	.875 (22.23)	1.250(31.75)	4.00 (101.60)
80					5.00 (127.00)
81			1.000(25.40)	1.375(34.93)	4.00 (101.60)
82					5.00 (127.00)
83			1.250(31.75)	1.625(41.28)	4.00 (101.60)
84					5.00 (127.00)
85			1.437(36.50)	1.875(47.63)	4.00 (101.60)
86					5.00 (127.00)
87	44	2.750-16	.875 (22.23)	1.250(31.75)	4.00 (101.60)
88					5.00 (127.00)
89			1.000(25.40)	1.375(34.93)	4.00 (101.60)
90					5.00 (127.00)
91			1.250(31.75)	1.625(41.28)	4.00 (101.60)
92					5.00 (127.00)
93			1.437(36.50)	1.875(47.63)	4.00 (101.60)
94					5.00 (127.00)
95	48	3.000-16	.875 (22.23)	1.250(31.75)	4.00 (101.60)
96					5.00 (127.00)
97			1.000(25.40)	1.375(34.93)	4.00 (101.60)
98					5.00 (127.00)
99			1.250(31.75)	1.625(41.28)	4.00 (101.60)
100					5.00 (127.00)
101			1.437(36.50)	1.875(47.63)	4.00 (101.60)
102					5.00 (127.00)
103	61	1.500-18	.500 (12.70)	.750 (19.05)	3.00 (76.20)
104					4.00 (101.60)
105			.625 (15.88)	.937 (23.80)	3.00 (76.20)
106					4.00 (101.60)
107			.875 (22.23)	1.250(31.75)	3.75 (95.25)
108					4.75 (120.65)
109			1.000(25.40)	1.375(34.93)	3.75 (95.25)
110					4.75 (120.65)

DASH NO.	SHELL SIZE	CONNECTOR INTERFACE THREAD SIZE	CABLE RANGE MIN	CABLE RANGE MAX	SLEEVE LENGTH
111	7, 12	.750-20	.350 (8.89)	.500 (12.70)	2.00 (50.80)
112	16,19	1.000-20	.250 (6.35)	.437 (11.10)	2.00 (50.80)
113					3.00 (76.20)
114	7, 12	.750-20	.125 (3.18)	.312 (7.92)	2.00 (50.80)
115					3.00 (76.20)
116	12,14	.875-20	.250 (6.35)	.437 (11.10)	2.00 (50.80)
117					3.00 (76.20)
118	16,19	1.000-20	.350 (8.89)	.625 (15.88)	2.00 (50.80)
119					3.00 (76.20)
120	18,27	1.062-18	.125 (3.18)	.312 (7.92)	2.00 (50.80)
121					3.00 (76.20)
122			.250 (6.35)	.437 (11.10)	2.00 (50.80)
123					3.00 (76.20)
124	20,37	1.188-18	.250 (6.35)	.437 (11.10)	3.00 (76.20)
125					4.00 (101.60)
126	22	1.312-18	.125 (3.18)	.312 (7.92)	3.00 (76.20)
127					4.00 (101.60)
128			.250 (6.35)	.437 (11.10)	3.00 (76.20)
129					4.00 (101.60)
130	24	1.438-18	.350 (8.89)	.625 (15.88)	3.00 (76.20)
131					4.00 (101.60)
132	36	2.250-16	.500 (12.70)	.750 (19.05)	4.00 (101.60)
133					5.00 (127.00)
134	40	2.500-16	.500 (12.70)	.750 (19.05)	4.00 (101.60)
135					5.00 (127.00)
136	10	.625-24	.250 (6.35)	.375 (9.53)	2.00 (50.80)
137					3.00 (76.20)
138	7,12	.750-20	.350 (8.89)	.500 (12.70)	2.00 (50.80)
139					3.00 (76.20)
140	20,37	1.188-18	.625 (15.88)	.904 (22.96)	3.00 (76.20)
141					4.00 (101.60)
142	22	1.312-18	.875 (22.23)	1.029(26.14)	3.00 (76.20)
143					4.00 (101.60)
144	24	1.438-18	.875 (22.23)	1.144(29.06)	3.00 (76.20)
145					4.00 (101.60)
146	36	2.250-16	1.437(36.50)	1.840(46.74)	4.00 (101.60)
147					5.00 (127.00)
148			.625 (15.88)	.937 (23.80)	4.00 (101.60)
149					5.00 (127.00)
150	12,14	.875-20	.125 (3.18)	.312 (7.92)	2.00 (50.80)
151					3.00 (76.20)
152	16,19	1.000-20	.125 (3.18)	.312 (7.92)	2.00 (50.80)
153					3.00 (76.20)
154	44	2.750-16	.625 (15.88)	.937 (23.80)	4.00 (101.60)
155					5.00 (127.00)
156	40	2.500-16	.625 (15.88)	.937 (23.80)	4.00 (101.60)
157					5.00 (127.00)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

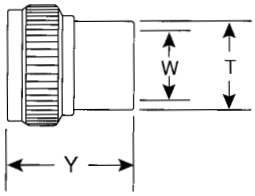
Interface Accessories For:

MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3 AND MIL-C-83723 SERIES III

M85049/26-1

STRAIGHT BACKSHELL, NONENVIRONMENTAL, SHIELD TERMINATION.

M85049/26-1-10 W
- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 6 & 7)



M85049/31

STRAIGHT BACKSHELL, SELF-LOCKING, NONSELF-LOCKING.

M85049/31 _ 10 W
- W — FINISH DESIGNATOR (AVAILABLE IN A, N & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 7)
- _ — 'S' FOR SELF-LOCKING
- _ — '–' FOR NONSELF-LOCKING

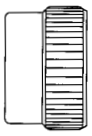


TABLE 6

DASH NUMBER	'T' DIA ± .010 (± .25)	'W' CABLE ENTRY ± .015 (± .38)	'Y' ° MAX
3	.337 (8.56)	.250 (6.35)	1.277 (32.44)
8	.337 (8.56)	.250 (6.35)	1.277 (32.44)
10	.488 (12.40)	.325 (8.26)	1.277 (32.44)
12	.500 (12.70)	.420 (10.67)	1.277 (32.44)
14	.620 (15.75)	.540 (13.72)	1.277 (32.44)
16	.750 (19.05)	.670 (17.02)	1.277 (32.44)
18	.880 (22.35)	.789 (20.04)	1.277 (32.44)
20	1.000 (25.40)	.914 (23.22)	1.277 (32.44)
22	1.120 (28.45)	1.039 (26.39)	1.277 (32.44)
24	1.192 (30.28)	1.112 (28.24)	1.277 (32.44)
28	1.545 (39.24)	1.389 (35.28)	1.439 (36.55)
32	1.795 (45.59)	1.635 (41.53)	1.439 (36.55)
36	2.045 (51.94)	1.850 (46.99)	1.439 (36.55)
40	2.295 (58.29)	2.065 (52.45)	1.439 (36.55)
44	2.545 (64.64)	2.320 (58.93)	1.439 (36.55)
48	2.795 (70.99)	2.570 (65.28)	1.439 (36.55)
61	1.359 (34.52)	1.210 (30.73)	1.277 (32.44)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

TABLE 7

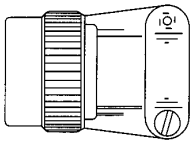
DASH NUMBER	CONNECTOR INTERFACE THREAD SIZE
3	.562-24
8	.500-20
10	.625-24
12	.750-20
14	.875-20
16	1.000-20
18	1.062-18
20	1.188-18
22	1.312-18
24	1.438-18
28	1.750-18
32	2.000-18
36	2.250-16
40	2.500-16
44	2.750-16
48	3.000-16
61	1.500-18

Interface Accessories For:

MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3 AND MIL-C-83723 SERIES III

M85049/52

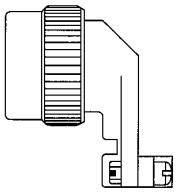
STRAIGHT STRAIN RELIEF, SELF-LOCKING, NONSELF-LOCKING.



M85049/52 __ 10 W
- W — FINISH DESIGNATOR (AVAILABLE IN A, N & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 8)
- __ — 'S' FOR SELF-LOCKING
- __ — '-1-' FOR NONSELF-LOCKING

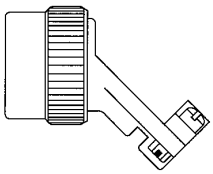
M85049/51 (PART NO. AS PER M85049/52)

90° STRAIN RELIEF, SELF-LOCKING, NONSELF-LOCKING.



M85049/43

45° STRAIN RELIEF.



M85049/43-10 W
- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 8)

TABLE 8

DASH NUMBER	CONNECTOR INTERFACE THREAD SIZE	CABLE ENTRY	
		MAX	MIN
3	.562-24	.204 (5.18)	.125 (3.18)
8	.500-20	.204 (5.18)	.125 (3.18)
10	.625-24	.286 (7.26)	.187 (4.75)
12	.750-20	.416 (10.57)	.291 (7.39)
14	.875-20	.476 (12.09)	.351 (8.92)
16	1.000-20	.626 (15.90)	.501 (12.73)
18	1.062-18	.706 (17.93)	.518 (13.16)
20	1.188-18	.831 (21.11)	.581 (14.76)
22	1.312-18	.956 (24.28)	.644 (16.36)
24	1.438-18	1.081 (27.46)	.706 (17.93)
28	1.750-18	1.187 (30.15)	.750 (19.05)
32	2.000-18	1.250 (31.75)	.875 (22.23)
36	2.250-16	1.375 (34.93)	.938 (23.83)
40	2.500-16	1.500 (38.10)	.938 (23.83)
44	2.750-16	1.750 (44.45)	1.188 (30.18)
48	3.000-16	1.875 (47.63)	1.312 (33.32)
61	1.500-18	1.081 (27.46)	.706 (17.93)

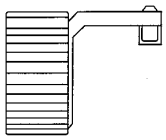
NOTE:
METRIC CONVERSIONS IN PARENTHESES.

SELF-SEATING PATENT NO. 5,435,760

Interface Accessories For:

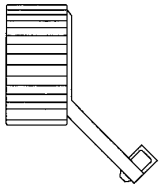
MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3 AND MIL-C-83723 SERIES III

M85049/53
STRAIGHT STRAIN RELIEF.

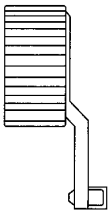


M85049/53-10 A
- A — FINISH DESIGNATOR (AVAILABLE IN A & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 9)

M85049/54 (PART NO. AS PER 85049/53)
45° STRAIN RELIEF.



M85049/55
90° STRAIN RELIEF, SELF-LOCKING, NONSELF-LOCKING, SELF-LOCKING WITH GROUNDING LUG.



M85049/55 __ 10 A
- A — FINISH DESIGNATOR (AVAILABLE IN A & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 9)
- '–' FOR NONSELF-LOCKING
- 'S' FOR SELF-LOCKING
- 'G' FOR SELF-LOCKING WITH GROUNDING LUG

TABLE 9

DASH NUMBER	CONNECTOR INTERFACE THREAD SIZE	CABLE ENTRY MAX
03	.562-24	.260 (6.60)
08	.500-20	.260 (6.60)
10	.625-24	.365 (9.27)
12	.750-20	.501 (12.73)
14	.875-20	.575 (14.61)
16	1.000-20	.700 (17.78)
18	1.062-18	.779 (19.79)
20	1.188-18	.904 (22.96)
22	1.312-18	1.029 (26.14)
24	1.438-18	1.144 (29.06)
28	1.750-18	1.379 (35.03)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

Interface Accessories For:

MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3 AND MIL-C-83723 SERIES III

M85049/60-1

SHRINK BOOT ADAPTER.

M85049/60-1 W-10
- DASH NUMBER (TABLE 10)
- FINISH DESIGNATOR (AVAILABLE IN A, N & W; TABLE 31, PAGE 21)
- FIGURE 1

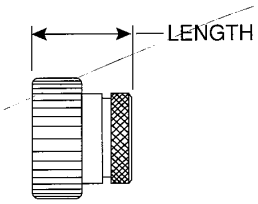


FIGURE 1

M85049/60-2

SHRINK BOOT ADAPTER.

M85049/60-2 G-10 W
- FINISH DESIGNATOR (AVAILABLE IN A, N & W; TABLE 31, PAGE 21)
- DASH NUMBER (TABLE 10)
- STYLE
- FIGURE 2

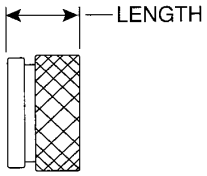


FIGURE 2

TABLE 10: DASH NUMBER

DASH NUMBER	CONNECTOR INTERFACE THREAD SIZE	MAX LENGTH	
		FIGURE 1	FIGURE 2
3	.562-24	1.188 (30.18)	.540 (13.72)
8	.500-20	1.188 (30.18)	.540 (13.72)
10	.625-24	1.188 (30.18)	.540 (13.72)
12	.750-20	1.188 (30.18)	.540 (13.72)
14	.875-20	1.188 (30.18)	.540 (13.72)
16	1.000-20	1.188 (30.18)	.540 (13.72)
18	1.062-18	1.188 (30.18)	.540 (13.72)
20	1.188-18	1.188 (30.18)	.540 (13.72)
22	1.312-18	1.188 (30.18)	.540 (13.72)
24	1.438-18	1.188 (30.18)	.540 (13.72)
28	1.750-18	1.574 (39.99)	.702 (17.83)
32	2.000-18	1.574 (39.99)	.702 (17.83)
36	2.250-16	1.574 (39.99)	.702 (17.83)
40	2.500-16	1.574 (39.99)	.702 (17.83)
44	2.750-16	1.574 (39.99)	.702 (17.83)
48	3.000-16	1.574 (39.99)	.702 (17.83)
61	1.500-18	1.188 (30.18)	.540 (13.72)

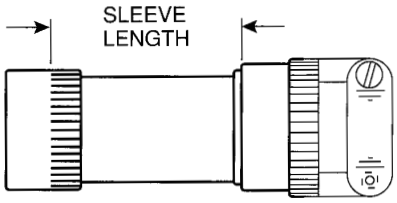
NOTE:
METRIC CONVERSIONS IN PARENTHESES.

Interface Accessories For:

MIL-C-38999 SERIES I AND II

M85049/17

STRAIGHT BACKSHELL, ENVIRONMENTAL, SHIELD TERMINATION.



M85049/17 24 W 10 A

- A — LENGTH CODE (TABLE 13)
- 10 — CLAMP SIZE (TABLE 12)
- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 24 — SHELL SIZE (TABLES 11 & 14)

M85049/36 (PART NO. AS PER M85049/17)

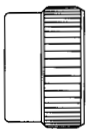
STRAIGHT BACKSHELL, NONENVIRONMENTAL, SHIELD TERMINATION.

M85049/29 (PART NO. AS PER M85049/17)

STRAIGHT BACKSHELL, NONENVIRONMENTAL, STRAIN RELIEF.
(AVAILABLE IN A, N & W FINISH. SEE TABLE 31, PAGE 21)

M85049/27

STRAIGHT BACKSHELL, NONENVIRONMENTAL, SELF-LOCKING AND NONSELF-LOCKING.

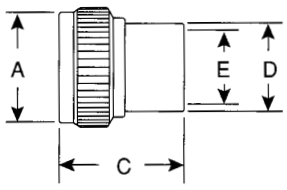


M85049/27 — 10 N

- N — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLE 14)
- — — '–' FOR NONSELF-LOCKING
- — — 'S' FOR SELF-LOCKING

M85049/33-2

STRAIGHT BACKSHELL, NONENVIRONMENTAL, SHIELD TERMINATION.



M85049/33-2 -10 W

- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLES 14 & 15)

TABLE 11: DASH NUMBER

ACCESSORY SHELL SIZE	CONNECTOR SHELL SIZE		CLAMP SIZE	
	SERIES I	SERIES II	MIN	MAX
08	9	8	01	02
10	11	10	01	03
12	13	12	02	04
14	15	14	02	05
16	17	16	02	06
18	19	18	03	07
20	21	20	03	08
22	23	22	03	09
24	25	24	04	10

TABLE 12: CLAMP SIZE

CLAMP SIZE	CABLE RANGE	
	MIN	MAX
01	.062 (1.57)	.125 (3.18)
02	.125 (3.18)	.250 (6.35)
03	.250 (6.35)	.375 (9.53)
04	.375 (9.53)	.500 (12.70)
05	.500 (12.70)	.625 (15.88)
06	.625 (15.88)	.750 (19.05)
07	.750 (19.05)	.875 (22.23)
08	.875 (22.23)	1.000 (25.40)
09	1.000 (25.40)	1.125 (28.58)
10	1.125 (28.58)	1.250 (31.75)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

TABLE 13: SLEEVE LENGTH

SLEEVE LENGTH		
SHELL SIZE	CODE	LENGTH
8-24	STANDARD	1.5 (38.1)
8-24	A	2.5 (63.5)
14-24	B	3.5 (88.9)
20-24	C	4.5 (114.3)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

TABLE 14: DASH NUMBER

ACCESSORY SHELL SIZE	DASH NUMBER	CONNECTOR INTERFACE THREAD SIZE
08	8	.438-28
10	10	.562-24
12	12	.687-24
14	14	.812-20
16	16	.937-20
18	18	1.062-18
20	20	1.187-18
22	22	1.312-18
24	24	1.437-18

TABLE 15: DASH NUMBER

DASH NUMBER	CONNECTOR SHELL SIZE		'A' DIA MAX	'C' MAX	'D' DIA ± .010	'E' ± .015 CABLE ENTRY
	SERIES I	SERIES II				
08	9	8	.75 (19.05)	1.14 (28.96)	.337 (8.56)	.250 (6.35)
10	11	10	.85 (21.59)	1.14 (28.96)	.488 (12.40)	.325 (8.26)
12	13	12	1.00 (25.40)	1.14 (28.96)	.500 (12.70)	.420 (10.67)
14	15	14	1.10 (27.94)	1.14 (28.96)	.620 (15.75)	.540 (13.72)
16	17	16	1.25 (31.75)	1.14 (28.96)	.750 (19.05)	.670 (17.02)
18	19	18	1.40 (35.56)	1.14 (28.96)	.880 (22.35)	.789 (20.04)
20	21	20	1.50 (38.10)	1.14 (28.96)	1.000 (25.40)	.914 (23.22)
22	23	22	1.65 (41.91)	1.14 (28.96)	1.120 (28.45)	1.039 (26.39)
24	25	24	1.75 (44.95)	1.14 (28.96)	1.192 (30.28)	1.112 (28.24)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

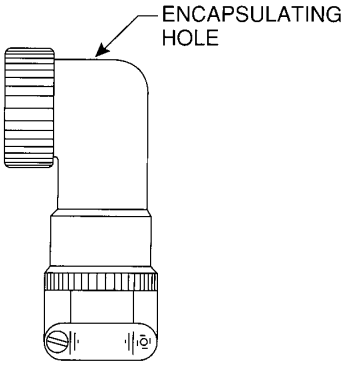
Interface Accessories For:

MIL-C-38999 SERIES I AND II

M85049/37

90° SPLIT BACKSHELL, NONENVIRONMENTAL, EMI/RFI, SHIELD TERMINATION.

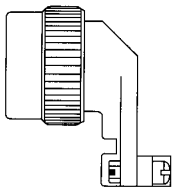
M85049/37 24 W 09 L
- L — HOLE OPTION: L-ENCAPSULATING HOLE, D-3 DRAIN HOLES
- 09 — CLAMP SIZE (TABLE 17)
- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 24 — SHELL SIZE (TABLES 16 & 19)



M85049/47

90° STRAIN RELIEF, SELF-LOCKING, NONSELF-LOCKING.

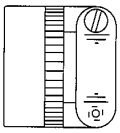
M85049/47 __ W 12
- 12 — DASH NUMBER (TABLES 18 & 19)
- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- __ — 'S' FOR SELF-LOCKING



M85049/49-2

STRAIGHT STRAIN RELIEF, SELF-LOCKING, NONSELF-LOCKING.

M85049/49-2 __ 10 W
- W — FINISH DESIGNATOR (AVAILABLE IN A, N, S & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLES 18 & 19)
- __ — '–' FOR NONSELF-LOCKING
- __ — 'S' FOR SELF-LOCKING



M85049/62

SHRINK BOOT ADAPTER.

M85049/62 -10 W D
- D — DRAIN HOLE OPTION (IF REQUIRED)
- W — FINISH DESIGNATOR (AVAILABLE IN A, N & W; TABLE 31, PAGE 21)
- 10 — DASH NUMBER (TABLES 19 & 20)

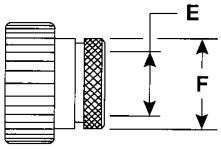


TABLE 16: SHELL SIZE

SHELL SIZE	CONNECTOR SHELL SIZE		CLAMP SIZE	
	SERIES I	SERIES II	MIN	MAX
8	9	8	01	02
10	11	10	01	03
12	13	12	02	04
14	15	14	02	05
16	17	16	02	06
18	19	18	03	06
20	21	20	03	07
22	23	22	03	08
24	25	24	04	09

TABLE 17: CLAMP SIZE

CLAMP SIZE	CABLE RANGE	
	MIN	MAX
01	.062 (1.57)	.125 (3.18)
02	.125 (3.18)	.250 (6.35)
03	.250 (6.35)	.375 (9.53)
04	.312 (7.92)	.500 (12.70)
05	.437 (11.10)	.625 (15.88)
06	.562 (14.27)	.750 (19.05)
07	.687 (17.45)	.875 (22.23)
08	.812 (20.62)	1.000 (25.40)
09	.937 (23.80)	1.125 (28.58)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

TABLE 18: DASH NUMBER

DASH NUMBER	SHELL SIZE		CABLE ENTRY	
	SERIES I	SERIES II	MIN	MAX
8	9	8	.098 (2.49)	.234 (5.94)
10	11	10	.153 (3.89)	.234 (5.94)
12	13	12	.190 (4.83)	.328 (8.33)
14	15	14	.260 (6.60)	.457 (11.61)
16	17	16	.283 (7.19)	.634 (16.10)
18	19	18	.325 (8.26)	.614 (15.60)
20	21	20	.343 (8.71)	.698 (17.73)
22	23	22	.381 (9.68)	.823 (20.90)
24	25	24	.418 (10.62)	.853 (21.67)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.TABLE 24: SHELL SIZE

TABLE 19

SHELL SIZE/ DASH NO.	CONNECTOR INTERFACE THREAD SIZE
8	.437-28
10	.562-24
12	.688-24
14	.812-20
16	.937-20
18	1.062-18
20	1.187-18
22	1.312-18
24	1.437-18

TABLE 20

DASH NUMBER	CONNECTOR SHELL SIZE		'E' MIN	'F' MAX
	SERIES I	SERIES II		
08	9	8	.250 (6.35)	.533 (13.54)
10	11	10	.375 (9.53)	.605 (15.37)
12	13	12	.500 (12.70)	.774 (19.66)
14	15	14	.625 (15.88)	.838 (21.29)
16	17	16	.750 (19.05)	.963 (24.46)
18	19	18	.812 (20.63)	1.042 (26.47)
20	21	20	.937 (23.80)	1.217 (30.91)
22	23	22	1.062 (26.98)	1.355 (34.42)
24	25	24	1.188 (30.18)	1.443 (36.65)

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

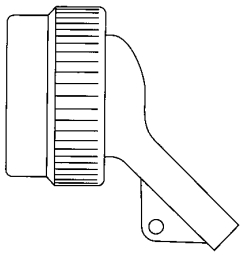
Interface Accessories For:

MIL-C-38999 SERIES I AND II

M85049/57

45° TIE MOUNT STRAIN RELIEF, SELF LOCKING.

M85049/57 __ 10 W
- W — FINISH DESIGNATION (AVAILABLE IN A, N & W; TABLE 31, PAGE 21)
- 10 — SHELL SIZE (TABLE 21)
- __ — 'S' FOR SELF-LOCKING
- __ — 'G' FOR SELF-LOCKING WITH GROUNDING LUG



M85049/63

90° TIE MOUNT STRAIN RELIEF, SELF-LOCKING WITH GROUNDING LUG.

M85049/63 G 10 W
- W — FINISH DESIGNATION (AVAILABLE IN A, N & W; TABLE 31, PAGE 21)
- 10 — SHELL SIZE (TABLE 21)
- G — SELF-LOCKING WITH GROUNDING LUG

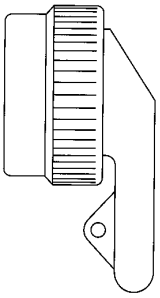


TABLE 21

DASH NUMBER	CONNECTOR SHELL SIZE		MAX CABLE ENTRY	CONNECTOR INTERFACE THREAD SIZE
	SERIES I	SERIES II		
8	9	8	.264 (6.71)	.437-28
10	11	10	.392 (9.96)	.562-24
12	13	12	.506 (12.85)	.687-24
14	15	14	.631 (16.03)	.812-20
16	17	16	.756 (19.20)	.937-20
18	19	18	.845 (21.46)	1.062-18
20	21	20	.970 (24.64)	1.187-18
22	23	22	1.095 (27.81)	1.312-18
24	25	24	1.220 (30.99)	1.437-18

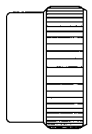
NOTE:
METRIC CONVERSIONS IN PARENTHESES.

Interface Accessories For:

MIL-C-38999 SERIES III AND IV

M85049/14

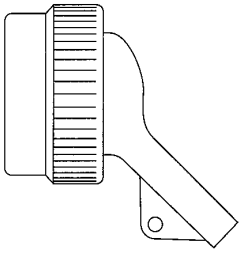
STRAIGHT BACKSHELL, SELF LOCKING.



M85049/14 S 11 W
- W — FINISH DESIGNATION (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 11 — SHELL SIZE (TABLE 22)
- S — SELF-LOCKING

M85049/15

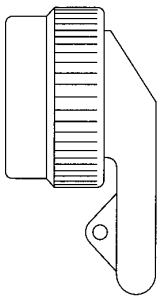
45° TIE MOUNT STRAIN RELIEF, SELF-LOCKING.



M85049/15 __ 11 W
- W — FINISH DESIGNATION (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 11 — SHELL SIZE (TABLE 22)
- S — 'S' FOR SELF-LOCKING
- G — 'G' FOR SELF-LOCKING WITH GROUNDING LUG

M85049/16

90° TIE MOUNT STRAIN RELIEF, SELF LOCKING WITH GROUNDING LUG.



M85049/16 G 11 W
- W — FINISH DESIGNATION (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 11 — SHELL SIZE (TABLE 22)
- G — SELF-LOCKING WITH GROUNDING LUG

TABLE 22

SHELL SIZE	MAX CABLE ENTRY	CONNECTOR INTERFACE THREAD SIZE
9	.264 (6.71)	M12 x 1.0-6H
11	.392 (9.96)	M15 x 1.0-6H
13	.506 (12.85)	M18 x 1.0-6H
15	.631 (16.03)	M22 x 1.0-6H
17	.756 (19.20)	M25 x 1.0-6H
19	.845 (21.46)	M28 x 1.0-6H
21	.970 (24.64)	M31 x 1.0-6H
23	1.095 (27.81)	M34 x 1.0-6H
25	1.220 (30.99)	M37 x 1.0-6H

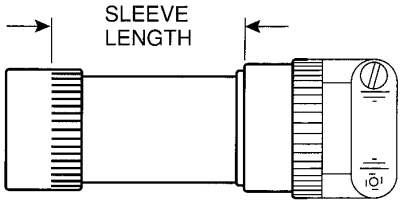
NOTE:
METRIC CONVERSIONS IN PARENTHESES.

Interface Accessories For:

MIL-C-38999 SERIES III AND IV

M85049/18
STRAIGHT BACKSHELL, ENVIRONMENTAL, RFI/EMI.

M85049/18 9 W 02 A
- A — LENGTH CODE (TABLE 26)
- 02 — CLAMP SIZE (TABLE 25)
- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 9 — SHELL SIZE (TABLES 23 &27)



M85049/19 (PART NO. AS PER M85049/18)
STRAIGHT BACKSHELL, NONENVIRONMENTAL, RFI/EMI.

M85049/21 (PART NO. AS PER M85049/18, FINISH CODE 'A' ONLY)
STRAIGHT BACKSHELL, NONENVIRONMENTAL.

M85049/20
STRAIGHT BACKSHELL, RFI/EMI.

M85049/20 - 11 W
- W — FINISH DESIGNATOR (AVAILABLE IN N & W; TABLE 31, PAGE 21)
- 11 — SHELL SIZE (TABLES 24 & 27)

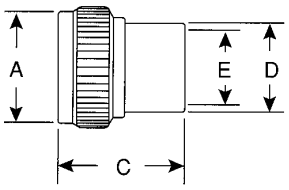


TABLE 23

SHELL SIZE	CLAMP SIZE	
	MIN	MAX
9	01	02
11	01	03
13	02	04
15	02	05
17	02	06
19	03	07
21	03	08
23	03	09
25	04	10

TABLE 24

SHELL SIZE	'A' DIA MAX	'C' MAX	'D' DIA MAX	'E' MAX CABLE ENTRY
9	.75 (19.05)	1.3 (33.02)	.347 (8.81)	.265 (6.73)
11	.85 (21.59)	1.3 (33.02)	.498 (12.65)	.343 (8.71)
13	1.00 (25.40)	1.3 (33.02)	.510 (12.95)	.437 (11.10)
15	1.10 (27.94)	1.3 (33.02)	.630 (16.00)	.562 (14.27)
17	1.25 (31.75)	1.3 (33.02)	.760 (19.30)	.687 (17.45)
19	1.40 (35.56)	1.3 (33.02)	.890 (22.61)	.812 (20.62)
21	1.50 (38.10)	1.3 (33.02	1.010 (25.65)	.937 (23.80)
23	1.65 (41.91)	1.3 (33.02)	1.130 (28.70)	1.046 (26.57)
25	1.75 (44.45)	1.3 (33.02)	1.202 (30.53)	1.125 (28.58)

TABLE 25

CLAMP SIZE	CABLE RANGE	
	MIN	MAX
01	.062 (1.58)	.125 (3.18)
02	.125 (3.18)	.250 (6.35)
03	.250 (6.35)	.375 (9.53)
04	.312 (7.92)	.500 (12.70)
05	.437 (11.10)	.625 (15.88)
06	.562 (14.27)	.750 (19.05)
07	.687 (17.45)	.875 (22.23)
08	.812 (20.62)	1.000 (25.40)
09	.937 (23.80)	1.125 (28.58)
10	1.062 (26.97)	1.250 (31.75)

TABLE 26

SLEEVE LENGTH		
SHELL SIZE	CODE	LENGTH
9-25	STANDARD	1.5 (38.1)
9-25	A	2.5 (63.5)
15-25	B	3.5 (88.9)
21-25	C	4.5 (114.3)

TABLE 27

SHELL SIZE	CONNECTOR INTERFACE THREAD SIZE
9	M12 x 1.0-6H
11	M15 x 1.0-6H
13	M18 x 1.0-6H
15	M22 x 1.0-6H
17	M25 x 1.0-6H
19	M28 x 1.0-6H
21	M31 x 1.0-6H
23	M34 x 1.0-6H
25	M37 x 1.0-6H

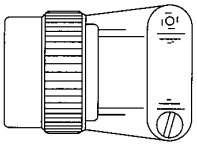
NOTE:
METRIC CONVERSIONS IN PARENTHESES.

Interface Accessories For:

MIL-C-38999 SERIES III AND IV

M85049/38

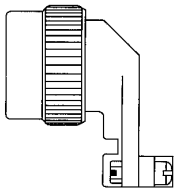
STRAIGHT STRAIN RELIEF, SELF-LOCKING, NONSELF-LOCKING.



M85049/38 — 11 A
- A — FINISH DESIGNATOR (AVAILABLE IN A, W & S; TABLE 31, PAGE 21)
- 11 — SHELL SIZE (TABLES 29 & 30)
- '–' FOR NONSELF-LOCKING
- 'S' FOR SELF-LOCKING

M85049/39

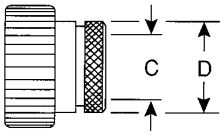
90° STRAIN RELIEF, SELF-LOCKING, NONSELF-LOCKING.



M85049/39 — 11 A
- A — FINISH DESIGNATOR (AVAILABLE IN A, W & S; TABLE 31, PAGE 21)
- 11 — SHELL SIZE (TABLES 29 & 30)
- '–' FOR NONSELF-LOCKING
- 'S' FOR SELF-LOCKING

M85049/69

SHRINK BOOT ADAPTER.



M85049/69- 11 A D
- D — DRAIN HOLE OPTION
- A — FINISH DESIGNATOR (AVAILABLE IN A ONLY, TABLE 31, PAGE 21)
- 11 — SHELL SIZE (TABLES 28 & 30)

TABLE 28

SHELL SIZE	'C' DIA MIN	'D' DIA MAX
9	.250 (6.35)	.533 (13.54)
11	.375 (9.53)	.605 (15.37)
13	.500 (12.70)	.774 (19.66)
15	.625 (15.88)	.838 (21.29)
17	.750 (19.05)	.963 (24.46)
19	.812 (20.62)	1.042 (26.47)
21	.937 (23.80)	1.217 (30.91)
23	1.062 (26.97)	1.355 (34.42)
25	1.188 (30.18)	1.443 (36.65)

TABLE 29

SHELL SIZE	CABLE RANGE	
	MIN	MAX
9	.098 (2.49)	.234 (5.94)
11	.153 (3.89)	.234 (5.94)
13	.190 (4.83)	.328 (8.33)
15	.260 (6.60)	.457 (11.61)
17	.283 (7.19)	.634 (16.10)
19	.325 (8.26)	.614 (15.60)
21	.343 (8.71)	.698 (17.73)
23	.381 (9.68)	.823 (20.90)
25	.418 (1.062)	.853 (21.67)

TABLE 30

SHELL SIZE	CONNECTOR INTERFACE THREAD SIZE
9	M12 x 1.0-6H
11	M15 x 1.0-6H
13	M18 x 1.0-6H
15	M22 x 1.0-6H
17	M25 x 1.0-6H
19	M28 x 1.0-6H
21	M31 x 1.0-6H
23	M34 x 1.0-6H
25	M37 x 1.0-6H

Finish Designators

TABLE 31: FINISH DESIGNATOR

DESIGNATOR	FINISH	DESCRIPTION
A	BLACK ANODIZE	MIL-A-8625, TYPE II
B	BLACK CADMIUM	QQ-P-416, TYPE II, CLASS 3
N	ELECTROLESS NICKEL	MIL-C-26074, CLASS 3 OR 4, GRADE B*
W	CADMIUM	OLIVE DRAB OVER SUITABLE UNDERPLATE
S	PASSIVATE	QQ-P-35

* RESTRICTED TO SPACE APPLICATIONS.

NOTE:
METRIC CONVERSIONS IN PARENTHESES.

Notes

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