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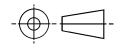
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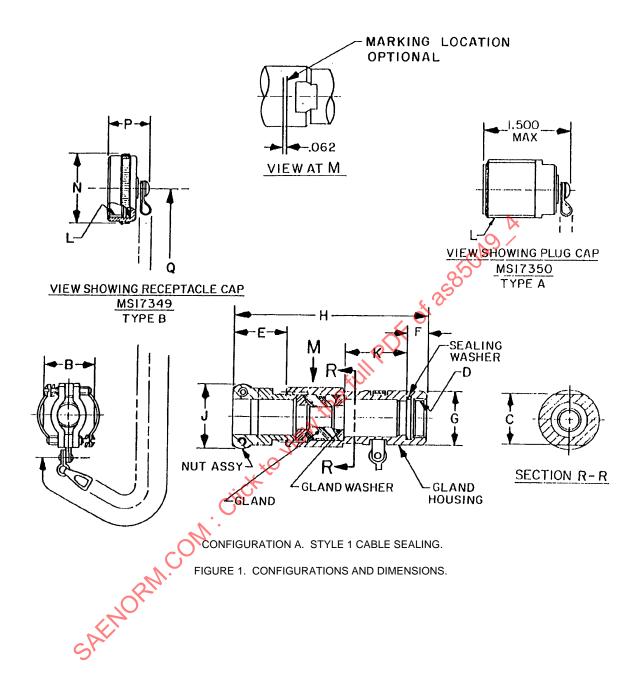
# **AEROSPACE STANDARD**

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, CABLE SEALING, STRAIGHT, STEP-UP, CATEGORY 1A (FOR MIL-C-22992 CONNECTORS, CLASSES C, J, AND R)

SAE WEB ADDRESS: http://www.sae.org

AS85049/4 SHEET 1 OF 15

THE REQUIREMENTS FOR ACQUIRING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF MIL-C-85049.



K	.8750-0.1P-0.2L-DS[1.094] .7651	871 .8750-0.1P-0.2L-DS 1.094  .765  5.00	.219  .8750-0.1P-0.2L-DS 1.094  .765  5.00	.121 1.0000-0.1P-0.2L-DS 1.219  .765  5.00	1.371 1.0000-0.1P-0.2L-DS 1.219  .765  5.U0	1.121 1.0000-0.1P-0.2L-DS 1.219  .765  5.00	121 1.0000-0.1P-0.2L-DS 1.219  .765  5.00	1.343 1.2500-0.1P-0.2L-DS 1.469  .980  5.00	371 1.3750-0.1P-0.2L-DS 1.562  .980  5.00	371 1.3750-0.1P-0.2L-DS 1.562  .580  5.00	371 1.3750-0.1P-U.2L-DS 1.562  .980  5.00	1.371 1.3750-0.1P-0.2L-DS 1.562  .980  5.00	11.371 1.5000-0.1P-0.2L-DS 1.688  .980  6.00	
H J Max   ±.031   +.	4.275 1.375 11.	3.678 1.125   .	4.275 1.375 11.	4.177 1.375 1.	4.489 1.562 1.	4.177 1.375 11.	  4.177 1.375  1.	  4.584 1.688 1.	  4.647 1.812  1.	4.896 2.125  1.3	D647 1.812 11.3	4.896 2.025   1.	  4.896 2.125 11. 	
F G L Dia   1+.010   1020		479   938	479   .938	479 1.062	479 1.062	479   1.062	479   1.062   4	479 11.312	479 1.438	479 19438	479   1.438	.479   1.438	479 1.562	
E     Free    Tength    max  +.(	<u> </u>	.   696.		1.062	UNEF 1.062   .		1.062	1.094	1.094	1.281	1.094	1.281	1.281	_
D Thread Class 2B-LH	.7500-20 UNEF	.7500-20 UNEF	.7500-20 UNEF 1.062	.8750-20 UNEF	128750-20 UNE	.8750-20 UNEF 1.062	. 8750-20 NEF	1.1250-18 NEF	1.1250-18 NEF	1.1250-18 NEF	11.2500-18 NEF	1.2500-18 NEF	  1.3750-18 NEF 	
	.812	. 938	.812	1,062	1.125	1.062	1.062	1.250	1.375	1.375	1.375	1.375	1.625	
	36 1.000	.875	11   1.000	11 1.000	31 1.062	1.000	11 1.000	1.188	37 1.312	1.546	1.312	1.546	1.546	
range Min dia	4.	900	L	.5	.5	. 436	_ <u>~</u> .	3  .715		1 1 .875	787	15 . 930	. 875	_
Cable Nax dia	O	. 500	.405	909.	.625	. 530	1 1.405	828	   .750 	1.000	.900	11.055	1.000	_
Shely	12	12	12	14	14	14	14	18	20	8	2	8	22	
Size			м 	4		9	7		6	음	=	12	13	

CONFIGURATION A. STYLE 1 CABLE SEALING - CONTINUED.

FIGURE 1. CONFIGURATIONS AND DIMENSIONS - CONTINUED.

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### **AEROSPACE STANDARD**

						I — — —	I	<del></del>	I— ——	L	I	J	
Q Within	1ink 6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
۳ × e	86.	. 980	1086.	. 980	. 980	. 980	980.	. 980	980	980	- 586.	086.	. 980
N Dia	1.938	1.938	1.938	1.938	2.219	2.219	2.219	2.469	2.469	2.469	2.469	2.719	2.719
Thread (plated)	-	1.372 1.7500-0.1P-0.2L-DS 1.938	1.7500-0.1P-0.2L-DS	1.309 1.7500-0.1P-G.2L-DS 1.938	1.371 2.0000-0.1P-0.2L-DS 2.	1.371 2.0000-0.1P-0.2L-DS [2.	1.371 2.0000-0.1P-0.2L-DS 2.219	  2.2500-0.1P-0.2L-DS 2.469	1.375 2.2500-0.1P-0.2L-DS 2.469	1.370 2.2500-0.1P-0.2L-08 2.	375 2.2500-0.1P-0.2L-DS 2.469	5.354 3.471cm, 344 2.2500-0.1P-0.2L-DS 2.719	1.344 2.2500-0.1P-u.2L-DS 2.719
× + 015	025	1.372	11.372	1.309	11.371	11.371	11.371	11.370	11.375	11.370	11.375	71.344	11.344
J. 031	2.469	2.469	2.469	2.625	2.625	2.625	5.021 2.625	2.953	5.385 3.171	2.953	385/3,171	3.X715	3.171
π Xe		4.959 2.469	4.959	4.959 2.625	5.021 2.	5.021	5.021	5.083	5.385	5 083 2.953	5.385	5.354	5.354
5 Dia +.010	1.812	1.812	1.812	1.812	2.062	2.062	2.062	2.312	<b>6</b> 312	2.3R	2.312	2.562	2.562
L.	479	.479	.479	479	479	.479	64.	624	479	.479	.479	.479	.479
E . Free		1.281	1.281	1.281	1.281	1.281	[] [] []	1.281	1.391	1.281	1.391	1.391	1.391
D Thread Class 28-LH	F	11.6250-18 UNEF 11.281	1.6250-18 UNEF	1.6250-18 UNEF 1.281	1.8750-16 UN	1.8750-16 UN	1.8750-16 UN	  2.0625-16 UNS	  2.0625-16 UNS	2.0625-16 UNS	2.0625-16 UNS	2.3125-16 UNS	  2.3125-16 UNS   
ooo.+	1.875	1.875	1,875	11.875	2.062	2.062	2.062	2.312	2.312	2.312	2.312	12.500	2.500
в .	1.780	1,780	1.780	0 2.000	0 2.000	6 2.000	0 2.000	2.250	2.438	7 2.250	5 2.438 	5 2.438  -	5 2.438
a)	1 10	100	1,105	1.25	1.32	1.40	1.25	1.531		1.43		1.775	1.605
Cable rang	dia dia	1.310 1.18	1.230	1.375	1.445	11.531	11.375	1.656	1.828 1.70	1.562	1.730 1.60	1.900 1.77	11.730 1.60
Shell	24	24	24	24	28	28	28	25	32	32	32	36	36
Size	15	16	17	18	19	8	12	8	8	24	52	56	72

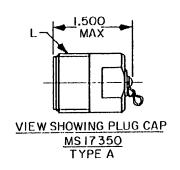
CONFIGURATION A. STYLE 1 CABLE SEALING - CONTINUED.

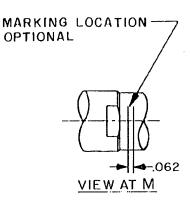
FIGURE 1. CONFIGURATIONS AND DIMENSIONS - CONTINUED.

### **AEROSPACE STANDARD**

-			<u> </u>						
	Within one link	6.00	6.00	6.00	6.00	6.00	6.00	9.00	6.00
	d Wax	. 980	980		- 980	. 980	980.	. 980	980.
	N Dia max		2.719	2.719			2.969	2.969	3.217
	L Thread (plated) Class 2 (A or B)	5.354 3.171  1.344 2.5000-0.1P-0.2L-DS 2.719	.479 [2.562 [5.354 3.171 [1.344 2.5000-0.1P-0.2L-DS 2.719] .980	.479 2.562 5.385 3.375 1.375 2.5000-0.1P-0.2L-DS 2.719 .980	.667  2.875  5.682 3.625  1.421 2.7500-0.1P-0.2L-DS 2.969	. 667  2.875  5.682 3.500  1.421 2.7500-0.1P-0.2L-DS 2.969	.667 2.875   5.620   3.375   1.422   2.7500-0.1P-0.2L-05   2.969	.667 2.875 5.620 3.375 1.422 2.7500-0.1P-0.2L-0S 2.969	183 2.875 2.750 2.8750-16 UN 1.382 667 3.125 6.471 3.531 2.218 3.0000-0.1P-0.2P-DS 3.217
	, 015  025	11.344	1.344	1.375	1.421	11.421	1.422	1.422	2.218
	J +.031	3.171	3,171	3.375	3.625	3.500	3.375	3.375	3.531
	т ж ж ж	5.354	5.354	5.385	5.682	5.682	5.620	5.620	65)
	G Dia 1+.010	.479 2.562	2.562	2.562	2.875	2.875	2.875	2.875	3.125
	F.016	.479	479	.479	.667	667	799:	799.	799.
	E     Free    length	1.391	1.391			1.391	11.391	1.391	1.382
	D Thread Class 2B-LH	700 2,438  2,500  2,3125-16 UNS  1,391	859 2.438  2.500  23125-16 UNS  1.391	917 2.750 2.500 2.3125 St. uns 1.391	230 3.000  2.812  2.6250-16 UN 11.391	105 2.875  2.625  2.6250-16 UN	000 2.750  2.625  2.6250-16 UN	917 2.750 2.625 2.6250-16 UN 1.391	2.8750-16 UN
	c    +.000  010	2.500	12.500	12.500	2.812	2.625	2.625	2.625	2.750
	+ 000 - 010	2.438	2.438	2.750	3.000	2.875	2.750	2.750	2.875
1	E 20	רי ו		l _;		1 .			
	Cable Max dia	1.825 1.	1.984	2.062	12.375   2.	12.25012.	2.145 2.	2.062 1	2.328 2
	Shell size	36	36	36	04	6	\$	6	44
	Size no.	788	53	e R	31	32	33	8	35

CONFIGURATION A. STYLE 1 CABLE SEALING - CONTINUED.





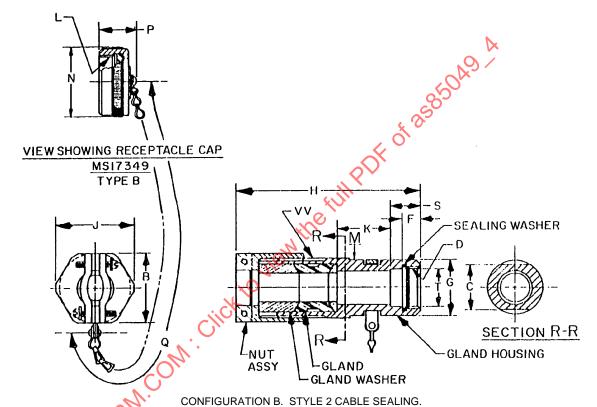


FIGURE 1. CONFIGURATIONS AND DIMENSIONS - CONTINUED.

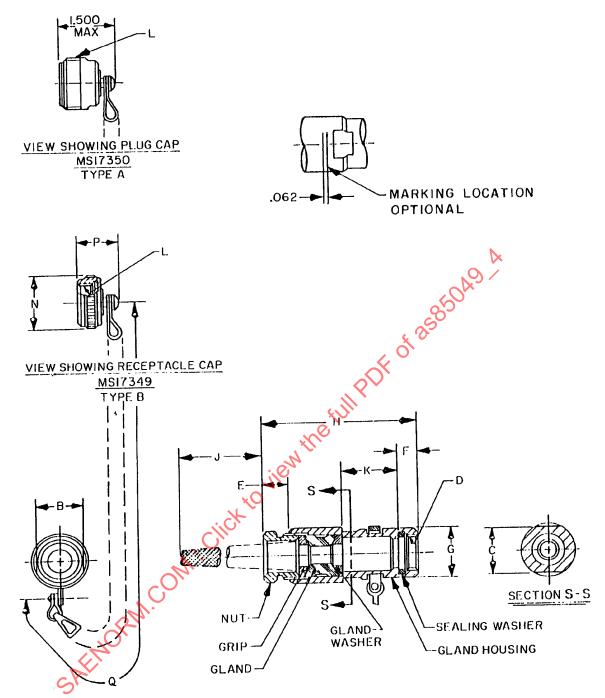
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AS85049/4

Size no.	Shell   size	Cal   ran	ble nge	B   *.005 	C ±.000	D   Thread   Class 2B - LH 	F   *.016	G DLA. ±.010	H   Max.	J   Max. 	K   ±.010
1	12	.521	.321	1.219	.938	0.7500-20 UNEF	   .479 	.938	4.000	1,320	.950
2	14	.646	.446	1.344	1.062	0.8750-20 UNEF	.479	1.062	4.100	1.420	1.075
3	16	.765	.565	1.469	1.188	1.0000-20 UNEF	.479	1.188	4.800	1.600	1.200
4	18	.890	,690	1.625	1.312	1.1250-18 NEF	.479	1.312	4.900	1.750	1.325
5	20	1.015	.815	1.750	1.438	1.2500-18 NEF	.479	1.438	4.900	1.900	1.325
6	22	1,180	.980	2.000	1.562	1.3750-18 NEF	.479	1.562	4.900	2.190	1.325
7	24	1.430	1.230	2.250	1,812	1.6250-18 NEF	.479	1.812	5.000	2.475	1.450
8	24	1.230	1.030	2.250	1.812	1.6250-18 NEF	.479	1.812	5.000	2.475	1.450
9	28	1.670	1.430	2,500	2.062	1.8750-18 UN	.479	2.062	5.300	2.715	1.700
10	32	1.860	1.660	2.750	2.312	2.0625-16 N	.479	2.312	5.600	2.900	1.950
11	36	2,110	1.860	3.062	2,562	2,3125-16 N	.479	2.562	5.725	3.250	1.950
12	40	2.400	2.200	3.437	2.875	2.6250-16 UN	.667	2.875	5.725	3,625	1.950
13	40	2.200	2.200	3,437	2.875	2.6250-16 UN	.667	2.875	5.725	3.625	1.950
·	SA	ENOR	( )	•		/LE 2 CABLE SEALII					

Size number	Shell size	L   Thread (plated)   Class 2 (A or B)	N   Dia   max	P   Max	Q Within one link	S    ±.010	T Dia ±.005	VV Gland threads class 2-LH
1	12	.8750-0.1P-0.2L-DS	1.094	.765	5.00	1.425	.600	1.0625-18 UNEF
2	14	  1.0000-0.1P-0.2L-DS 	1.219	.765	5.00	1.425	.726	1.1875-18 NEF
3	16	  1.1250-0.1P-0.2L-DS	1.344	. 980	5.00	1.605	.845	1.3125-18 NEF
4	18	1.2500-0.1P-0.2L-DS	1.469	. 980	5.00	1.605	.970	1.4375-18 NEF
5	20	1.3750-0.1P-0.2L-DS	1.562	.980	5.00	1.605	1.095	1.5625-18 NEF
6	22	  1.5000-0.1P-0.2L-DS	1.688	. 980	6.00	1.605	1.220	1-8125-16 N
7	24	  1.7500-0.1P-0.2L-DS	1.938	. 980	6.00	1.605	1.470	2.0625-16 N
8	28	2.0000-0.1P-0.2L-DS	2.219	. 980	6.00	1.605	2.713	2.0625-16 N
9	28	  2.0000-0.1P-0.2L-DS	  2.219	. 980	6.00	1.605	1.713	2.3125-16 N
10	32	  2.2500-0.1P-0.2L-DS	2.469	. 980	6.00	1.605	1.900	2.500-16 UN
11	36	12.5000-0.1P-0.2L-DS	2.719	980	6.00	1.605	2.150	2.8750-16 UN
12	40	  2.7500-0.1P-0.2L-DS	2.969	.980	6.00	1.605	2.460	3.1250-16 UN
13	40	2.7500-0.1P-0.2L-DS	2.969	.980	6.00	1.605	2.460	3.1250-16 UN
SAE	NORM!	CONFIGURATION B. S						



CONFIGURATION C. STYLE 3 CABLE SEALING AND GRIPPING.

}			·	- <del> </del>		·	·	<del> </del>		<del> </del>		<del> </del>		
	o	Within one link	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
		. Wax	.765	.765	.765	.765	.765	. 765	. 765	. 980	. 980	. 980	. 980	. 980
	z	Dia	1.094	1.094	1.094	1.219	1.219	1.219	1.219	1.469	1.562	1.562	1.562	1.562
		Thread (plated)	.8750-0.1P-0.2L-DS 1.094	.8750-0.1P-0.2L-DS	.8750-0.1P-0.2L-0S 1.094	1.371 1.0000-0.1P-0.2L-05 1.	1.121 1.0000-0.1P-0.2L-DS 1.219	1.121 1.0000-0.1P-0.2L-US 1.219	1.0000-0.1P-0.2L-DS 1.	1.343 1.2500-0.1P-0.2L-DS 1.469	1.3750-0.1P-0.2L-DS 1.	1.371 1.3750-0.1P-0.2L-DS 1.	1.371 1.3750-0.1P-0.2L-DS 1.562	1.371   1.3750-0.1P-∪.2L-DS   1.562
		+.015   025	1.219	.871	11.219	11.371	11.121	11.121	11.121		11.371			
	7	Approx- free length	4.688	4.344	3.688	6.188	5.188	4.688	3.688	6.688	7.688	7.188	8867	7.188
		Max	3.810	3.248	3,810	4.024	3.712	3.712	3.712	4.087	4.212	3	  4.150  	4.150
	ம	Dia  +.010  020	.938	.938	.938	1.062	1.062	1.062	1.062	479 1.312	O; ₹‱	1.438	1.438	11.438
	Ц.	+.016	.479	479	479	479	479	479	479	<b>67</b>	.479	.479	479	.479
		Free    Tength    max	. 597	. 539	. 597	. 597	. 597	.597	165.	. 597	.597	.597	.597	.597
	٥	Thread Class 2B-LH	.7500-20 UNEF	.7500-20 UNEF	.7500-20 UNEF	28750-20 UNEF	.8750(20 UNEF!	.8750-20 UNEF	.8750-20 UNEF	1.1250-18 UNEF	1.2500-18 UNEF	1.2500-18 UNEF	1.2500-18 UNEF	11.2500-18 UNEF
	ပ	+.000	.812	.938	) 22(C)	1.125	1.062	1.062	1.062	1.250	1.375	1.375	  1.375 	11.375
		+.000	61.000	878	6 1.000	0 1.062	1 1.000	.430 1.000	6 1.000	5 1.125	.930 1.500	5 1.500	.787 1.250	.637 1.250
	range	F. b	436	. 406	.316	. 560	511]	. 430	.316	.715	.930	875]	.787	.637
	Cable	Max dia	. 530	. 500	405	625	. 605	. 530	405	.828	1.055	1.000	. 900	. 750
		Shell size	12	12	12	14	14	14	14	18	50	50	50	50
	:	S12e  number		2	ლ ———	4	ιο 	9	7	ω	6		====	12

CONFIGURATION C. STYLE 3 CABLE SEALING - CONTINUED.

FIGURE 1. CONFIGURATIONS AND DIMENSIONS - CONTINUED.

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## **AEROSPACE STANDARD**

1		احد ـــ ـــا،	L	I				1	J			
	Within	6.00	6. u0	6.00	6.00	6.60	6.00	6.00	6.00	9.00	6.00	6.00
	d X	980.	980.	. 580	. 580	1086.	980.	. 980	.980	.980	. 980	1086.
-	N Dia Hax	1.688	1.688	1.938	1.938	1.938	1.938	2.219	2.219	2.219	2.469	2.469
	L Thread (plated)     Class 2 (A or B)	1.371 1.5000-0.1P-0.2L-DS 1.688	  1.371 1.5030-0.1P-0.2L-DS 1.688 	  1.309 1.7500-0.1P-0.2L-0S 1.938	(1.372 1.7500-0.1P-0.2L-05 1.938	  1.372 1.7500-0.1P-0.2L-DS <sub> </sub> 1.938	  1.372 1.7500-0.1P-0.2L-uS 1.938 	1.371 2.0000-0.1P-0.2L-05 2.219	9.688  1.371  2.0000-0.1P-0.2L-05 2.219	1.371 2.0000-0.1P-0.2L-DS 2.219	1.371   2.2500-0.1P-0.2L-DS   2.469	4.704 13.688 1.371 2.2500-0.1P-0.2L-DS 2.469
	K   K     K	11.371	11.371	1.309	  1.372 		1.372	1.371	1.37	1.37		1.37
	J Approx- free Jenoth		7.188	9.688	8.688	8.188	8.188	  4.337 10.688 	9.688	9.688	14.704/13.688	113,688
	ж Ж	4.212	4.212	4.275	4.275	  4.275  	  4.275  	14.337	  4.337 	4.337	14.70 <del>4</del>	14.704
ļ	G +.010	1.562	.479 1.562	11.812	11.812	1.812	1.812		.479 2 062 4.337	12.062 4.337	2.312	  2.312 
	F F		479	.479	479	. 479	479	379  2.062	. 479	.479	. 479	479
	E   Free   Jength		. 597	.597	.597	. 597	265	.597	. 597	. 597	.710	017.
	D Thread Class 2B-LH	1.3750-18 UNEF	1.3750-18 UNEF	1.875 1.6250-18 UNEF	1.6250-18 UNEF	  1.6250-184NEF	11.6250-18 UNEF	1.3750-16 UN	1.8750-16 UN	  1.8750-16 UN	2.0625-16 UNS	  2.0625-16 UNS 
	3 .000.	1.625	1,625	1.875	1.875	1.875	1.875	12.062	12.062	12.062	12.312	2.312
	B - 000.+		1.500	0 2.000	5 1.750	5 1.750	5 1.750	612.000	012.000		2.438	15 2.438
	range Min		.875	1.25	1.185	1.105	1.055	1.40	1.320	1.375 1.250 2.000	1.825 1.700 2.438	11.605
	Cable Max	1.109	1.000	1.375	11.310 11.18	1.230 1.10	1.180 1.05	11.531	11.445 1.32	11.375	11.825	11.730 1.60
	Shell	22	22	24	24	24	54	78	78	88	32	32
	   Size   number	13	14	15	16	17	18	61	22	212	22	8

CONFIGURATION C. STYLE 3 CABLE SEALING AND GRIPPING - CONTINUED.

		5					İ					f				
3		Cable	e range	<b>c</b> a	ن -			L		: =	~~·	<b>~</b>	 : : :		<b>-</b>	~
Inumper	size	Max	Min gia	n +.000	+.000	I Class 28-LH	length	+.016	ard  +.010  020	Max	Approx-  free   length	  +.015  025	ihread (plated)   Class 2 (A or B)	Dia     max   	Max IN	Within one   link
24	32	1.656	1.656 1.531 2.250		2.312	2.0625-16 UNS	.597	479	2.312	4.399 12.688		1.370	1.370 2.2500-0.1P-0.2L-ius 2.469	2.469	980	6.00
25	36	2.062	1.917	. 917 2. 750	2:500	  2.3125-16 UNS	.710	.479	2.562	4.704	14.188	1.375	4.704   14.188   1.375   2.5000-0.1P-0.2L-05   2.719	2.719	-086.	6.00
76	36	1.984	1.984 1.859 2.438		12.500	23125-16 UNS	.710	479	.479 2.562 4.673 13.688	4.673	13.688	1.344	1.344 2.5000-0.1P-0.2L-DS 2.719		-08e.	6.00
27	36	1.900 1.	-	2.438	12.500	75 2.438  2.500  2.3125(16 UNS	710	479	2.562	4.673	13.688	1.344	.479  2.562  4.673 13.688  1.344 2.5000-0.1P-0.2L-0S 2.719	2.719	- 086.	6.00
88	36	1.825 1.	1.700	2.438	  2.500 	700 2.438  2.500  2.3125-16 UNS	710	.479	2.562	4.673	13.688	1.344	.479   2.562   4.673   13.688   1.344   2.5000-0.1P-0.2L-DS   2.719	2.719	- 086.	6.00
59	36	1.730	1.605	1.730 1.605 2.438	12.500	2.3125-16 UNS	74	.479	12.562	4.673	13.688	11.344		2.719	- 086	6.00
30	40	2.375 2.2	2.230	30 2.875	2.812	2.6250-16 UN	607.	(3)	12.875	5.000	18.188	1.421	5.000 18.188  1.421 2.7500-0.1P-0.2L-US 2.969		. 580	6.00
31	40	2.250 2.		05 2.750	12.625	2.6250-16 UN	. 709	. 667	20,875	5.000	17.188	11.421	2.875   5.000   17.188   1.421   2.7500-0.1P-0.2L-DS   2.969	2.969	- 986.	6.00
32	40	2.145	2.000	2.145 2.000 2.750	  2.625 	2.6250-16 UN	.710	.667	  2.875   	80	14.188	1.422	4393114.188  1.422 2.7500-0.1P-0.2L-DS 2.969	12.969	086.	6.00
£.	40	12.062	1.917	12.750	2.062 1.917 2.750  2.625	2.6250-16 UN	.710	.667	12.875	4.939	14,088	1.422	.667  2.875  4.939 14(1)88  1.422 2.7500-0.1P-0.2L-DS 2.969	2.969	980.	6.00

CONFIGURATION C. STYLE 3 CABLE SEALING AND GRIPPING - CONTINUED.