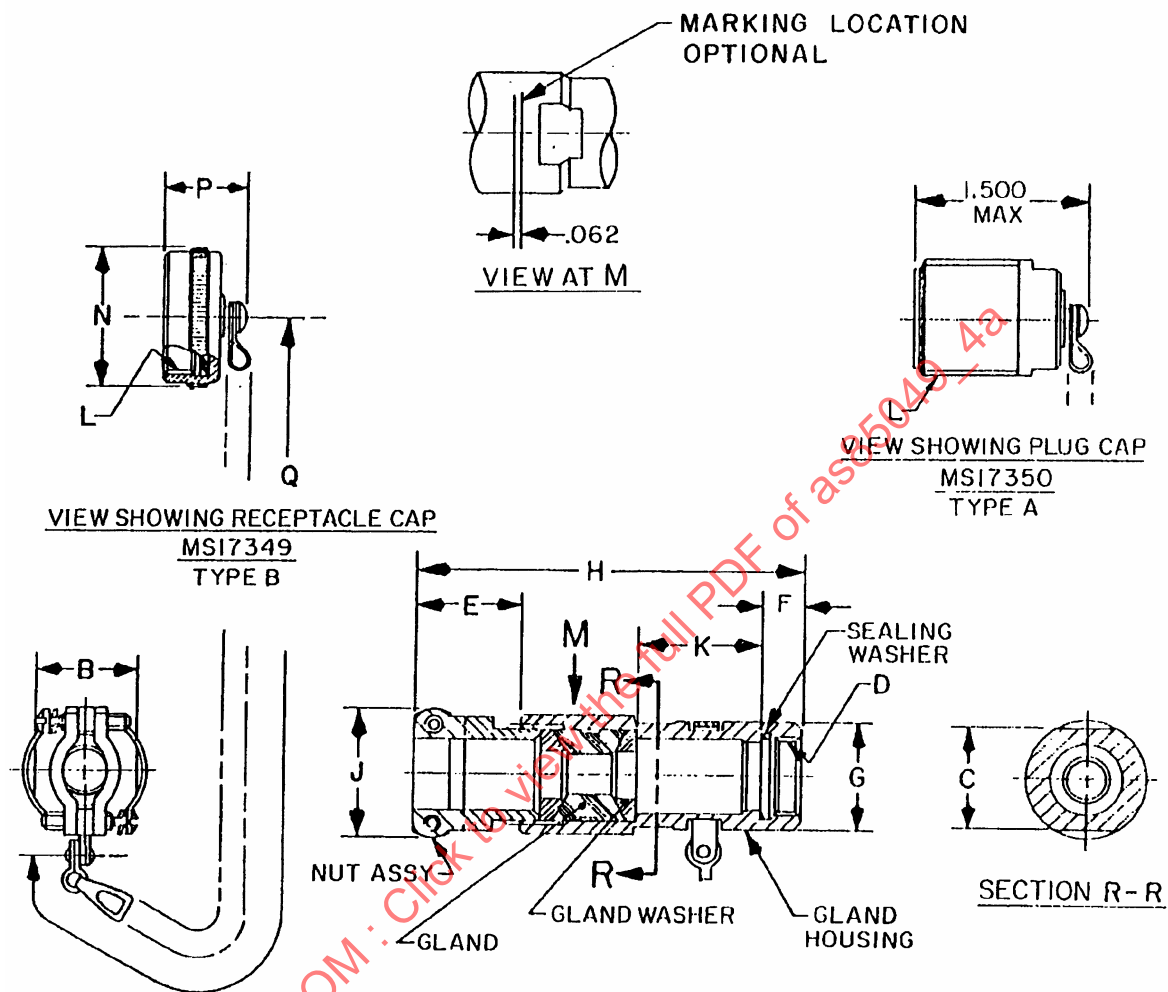


REV.
A

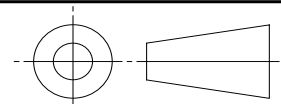
AS85049/4

FEDERAL SUPPLY CLASS
5935

THE REQUIREMENTS FOR ACQUIRING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS85049.



THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

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

AS85049/4
SHEET 1 OF 14**REV.**
A

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ISSUED 2000-04 REVISED 2004-05

Size Number	Shell Size	Cable range		B	C	D Thread Class 2B-LH	E Free Length max	F Dia +.010 -.020	G Dia +.010 -.020	H Max	J +.031 -.025	K +.015 -.025	L Thread (plated) Class 2 (A or B)	N Dia max	P Max	Q Within one link
		Max dia	Min dia													
1	12	.530	.436	1.000	.812	.7500-20 UNEF	1.062	.479	.938	4.275	1.375	1.219	.8750-0.1P-0.2L-DS	1.094	.765	5.00
2	12	.500	.406	.875	.938	.7500-20 UNEF	.969	.479	.938	3.678	1.125	.871	.8750-0.1P-0.2L-DS	1.094	.765	5.00
3	12	.405	.311	1.000	.812	.7500-20 UNEF	1.062	.479	.938	4.275	1.375	1.219	.8750-0.1P-0.2L-DS	1.094	.765	5.00
4	14	.605	.511	1.000	1.062	.8750-20 UNEF	1.062	.479	1.062	4.177	1.375	1.121	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
5	14	.625	.531	1.062	1.125	.8750-20 UNEF	1.062	.479	1.062	4.489	1.562	1.371	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
6	14	.530	.436	1.000	1.062	.8750-20 UNEF	1.062	.479	1.062	4.177	1.375	1.121	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
7	14	.405	.311	1.000	1.062	.8750-20 NEF	1.062	.479	1.062	4.177	1.375	1.121	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
8	18	.828	.715	1.188	1.250	1.1250-18 NEF	1.094	.479	1.312	4.584	1.688	1.343	1.2500-0.1P-0.2L-DS	1.469	.980	5.00
9	20	.750	.637	1.312	1.375	1.1250-18 NEF	1.094	.479	1.312	4.647	1.812	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00
10	20	1.000	.875	1.546	1.375	1.1250-18 NEF	1.281	.479	1.312	4.896	2.125	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00
11	20	.900	.787	1.312	1.375	1.2500-18 NEF	1.094	.479	1.438	4.647	1.812	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00
12	20	1.055	.930	1.546	1.375	1.2500-18 NEF	1.281	.479	1.438	4.896	2.125	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00
13	22	1.000	.875	1.546	1.625	1.3750-18 NEF	1.281	.479	1.562	4.896	2.125	1.371	1.5000-0.1P-0.2L-DS	1.688	.980	6.00
14	22	1.109	.984	1.546	1.625	1.3750-18 NEF	1.281	.479	1.562	4.896	2.125	1.371	1.5000-0.1P-0.2L-DS	1.688	.980	6.00

CONFIGURATION A - STYLE 1 CABLE SEALING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

Size number	Shell size	Cable range	B	C	D	E	F	G	H	J	K	L	N	P	Q
		Max dia	Min dia	+ .000 - .010	Thread Class 2B-LH	Free length max		Dia + .010 - .020	Max	+ .031 - .025		Thread (plated) Class 2 (A or B)	Dia max	Max	Within one link
15	24	1.180	1.055	1.780	1.6250-18 UNEF	1.281	.479	1.812	4.959	2.469	1.372	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
16	24	1.310	1.185	1.780	1.6250-18 UNEF	1.281	.479	1.812	4.959	2.469	1.372	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
17	24	1.230	1.105	1.780	1.6250-18 UNEF	1.281	.479	1.812	4.959	2.469	1.372	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
18	24	1.375	1.250	2.000	1.6250-18 UNEF	1.281	.479	1.812	4.959	2.625	1.309	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
19	28	1.445	1.320	2.000	1.8750-16 UN	1.281	.479	2.062	5.021	2.625	1.371	2.0000-0.1P-0.2L-DS	2.219	.980	6.00
20	28	1.531	1.406	2.000	1.8750-16 UN	1.281	.479	2.062	5.021	2.625	1.371	2.0000-0.1P-0.2L-DS	2.219	.980	6.00
21	28	1.375	1.250	2.000	1.8750-16 UN	1.281	.479	2.062	5.021	2.625	1.371	2.0000-0.1P-0.2L-DS	2.219	.980	6.00
22	32	1.656	1.531	2.250	2.0625-16 UNS	1.281	.479	2.312	5.083	2.953	1.370	2.2500-0.1P-0.2L-DS	2.469	.980	6.00
23	32	1.828	1.700	2.438	2.0625-16 UNS	1.391	.479	2.312	5.385	3.171	1.375	2.2500-0.1P-0.2L-DS	2.469	.980	6.00
24	32	1.562	1.437	2.250	2.0625-16 UNS	1.281	.479	2.312	5.083	2.953	1.370	2.2500-0.1P-0.2L-DS	2.469	.980	6.00
25	32	1.730	1.605	2.438	2.0625-16 UNS	1.391	.479	2.312	5.385	3.171	1.375	2.2500-0.1P-0.2L-DS	2.469	.980	6.00
26	36	1.900	1.775	2.438	2.3125-16 UNS	1.391	.479	2.562	5.354	3.171	1.344	2.2500-0.1P-0.2L-DS	2.719	.980	6.00
27	36	1.730	1.605	2.438	2.3125-16 UNS	1.391	.479	2.562	5.354	3.171	1.344	2.2500-0.1P-0.2L-DS	2.719	.980	6.00

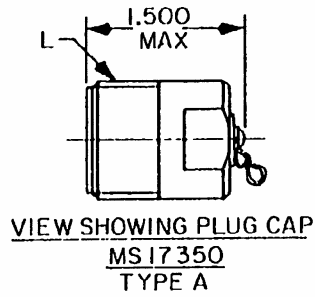
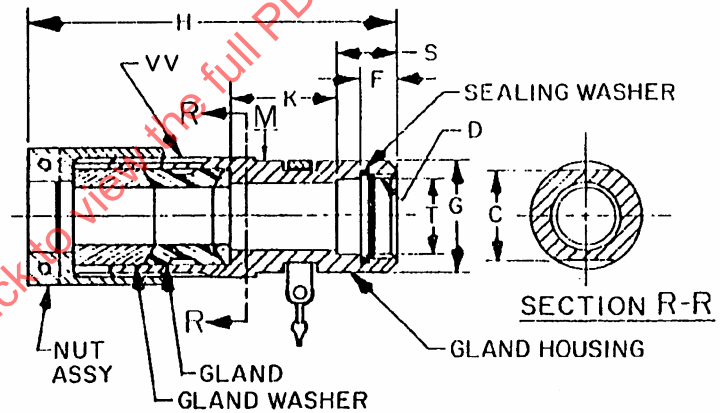
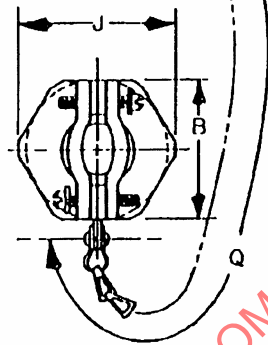
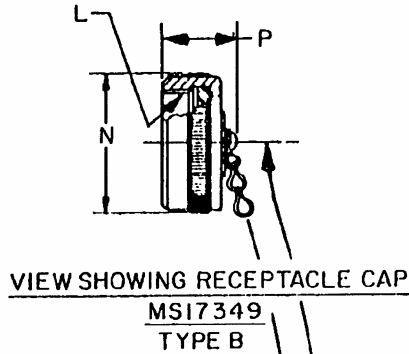
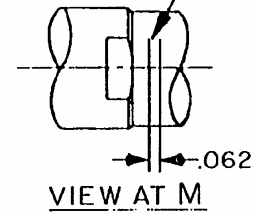
CONFIGURATION A - STYLE 1 CABLE SEALING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

Size no.	Shell size	(Cable range)		B	C	D Thread Class 2B-LH	E Free length max	F	G Dia +.010 -.020	H Max	J +.031	K +.015 -.025	L Thread (plated) Class 2 (A or B)	N Dia max	P Max	Q Within one link
		Max dia	Min dia													
28	36	1.825	1.700	2.438	2.500	2.3125-16 UNS	1.391	.479	2.562	5.354	3.171	1.344	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
29	36	1.984	1.859	2.438	2.500	2.3125-16 UNS	1.391	.479	2.562	5.354	3.171	1.344	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
30	36	2.062	1.917	2.750	2.500	2.3125-16 UNS	1.391	.479	2.562	5.385	3.375	1.375	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
31	40	2.375	2.230	3.000	2.812	2.6250-16 UN	1.391	.667	2.875	5.682	3.625	1.421	2.7500-0.1P-0.2L-DS	2.969	.980	6.00
32	40	2.250	2.105	2.875	2.625	2.6250-16 UN	1.391	.667	2.875	5.682	3.500	1.421	2.7500-0.1P-0.2L-DS	2.969	.980	6.00
33	40	2.145	2.000	2.750	2.625	2.6250-16 UN	1.391	.667	2.875	5.620	3.375	1.422	2.7500-0.1P-0.2L-DS	2.969	.980	6.00
34	40	2.062	1.917	2.750	2.625	2.6250-16 UN	1.391	.667	2.875	5.620	3.375	1.422	2.7500-0.1P-0.2L-DS	2.969	.980	6.00
35	44	2.328	2.183	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	.980	6.00

CONFIGURATION A - STYLE 1 CABLE SEALING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

MARKING LOCATION
OPTIONAL

CONFIGURATION B - STYLE 2 CABLE SEALING

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

Size no.	Shell size	Cable range		B ±.005	C ±.000 -.010	D Thread Class 2B - LH	F ±.016	G DLA. ±.010 -.020	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

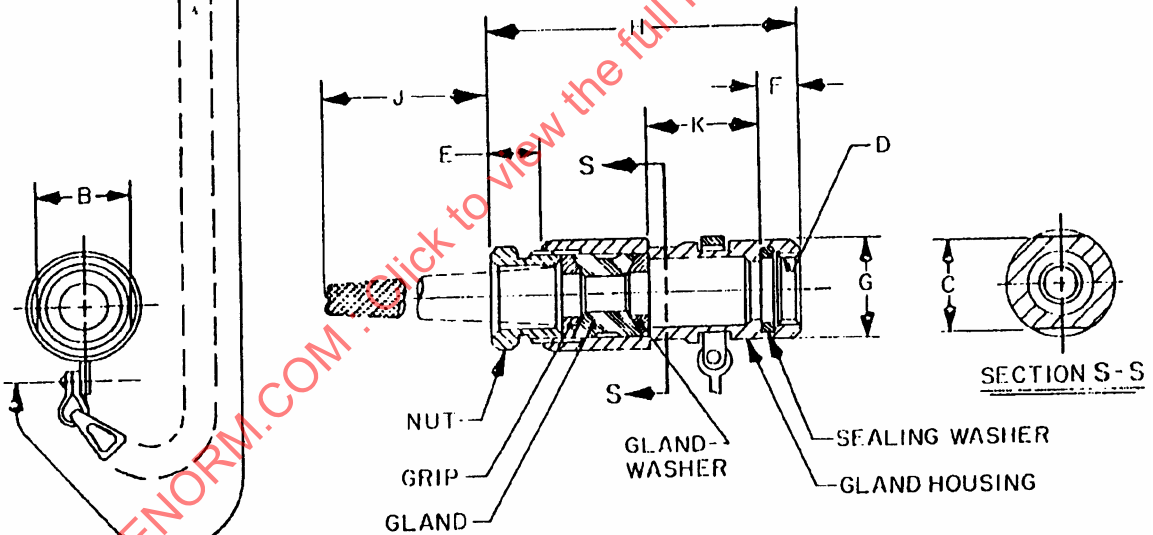
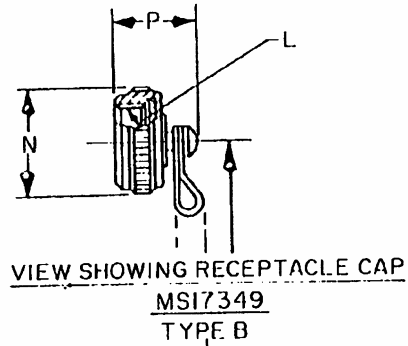
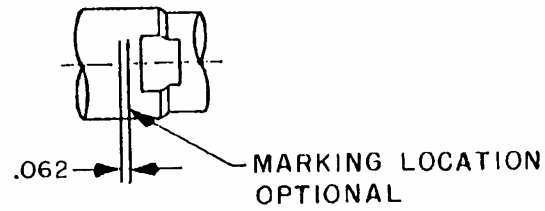
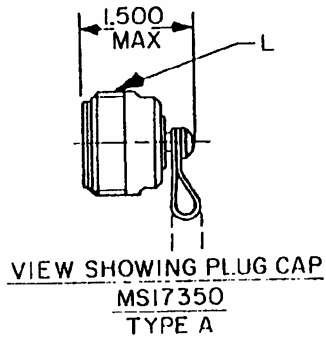
CONFIGURATION B - STYLE 2 CABLE SEALING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

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	1.713	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	2.5000-0.1P-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

CONFIGURATION B - STYLE 2 CABLE SEALING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED



CONFIGURATION C - STYLE 3 CABLE SEALING AND GRIPPING

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

Size number	Shell size	Cable range		B	C	D	E	F	G	H	J	K	L	N	P	Q
		Max dia	Min dia	+ .000 - .010	+ .000 - .010	Thread Class 2B-LH	Free length max	+ .015 - .020	Dia + .010 - .020	Max	Approx- Free length	+ .015 - .025	Thread (plated) Class 2 (A or B)	Dia max	Max	Within one link
1	12	.530	.436	1.000	.812	.7500-20 UNEF	.597	.479	.938	3.810	4.688	1.219	.8750-0.1P-0.2L-DS	1.094	.765	5.00
2	12	.500	.406	.875	.938	.7500-20 UNEF	.539	.479	.938	3.248	4.344	.871	.8750-0.1P-0.2L-DS	1.094	.765	5.00
3	12	.405	.316	1.000	.812	.7500-20 UNEF	.597	.479	.938	3.810	3.688	1.219	.8750-0.1P-0.2L-DS	1.094	.765	5.00
4	14	.625	.560	1.062	1.125	.8750-20 UNEF	.597	.479	1.062	4.024	6.188	1.371	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
5	14	.605	.511	1.000	1.062	.8750-20 UNEF	.597	.479	1.062	3.712	5.188	1.121	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
6	14	.530	.430	1.000	1.062	.8750-20 UNEF	.597	.479	1.062	3.712	4.688	1.121	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
7	14	.405	.316	1.000	1.062	.8750-20 UNEF	.597	.479	1.062	3.712	3.688	1.121	1.0000-0.1P-0.2L-DS	1.219	.765	5.00
8	18	.828	.715	1.125	1.250	1.1250-18 UNEF	.597	.479	1.312	4.087	6.688	1.343	1.2500-0.1P-0.2L-DS	1.469	.980	5.00
9	20	1.055	.930	1.500	1.375	1.2500-18 UNEF	.597	.479	1.438	4.212	7.688	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00
10	20	1.000	.875	1.500	1.375	1.2500-18 UNEF	.597	.479	1.438	4.212	7.188	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00
11	20	.900	.787	1.250	1.375	1.2500-18 UNEF	.597	.479	1.438	4.150	7.188	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00
12	20	.750	.637	1.250	1.375	1.2500-18 UNEF	.597	.479	1.438	4.150	7.188	1.371	1.3750-0.1P-0.2L-DS	1.562	.980	5.00

CONFIGURATION C - STYLE 3 CABLE SEALING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

Size number	Shell size	Cable range		B	C	D Thread Class 2B-LH	E Free length max	F	G Dia + .010 - .020	H Max	J Approx- free length	K	L Thread (plated) Class 2 (A or B)	N Dia max	P Max	Q Within one link
		Max dia	Min dia													
13	22	1.109	.984	1.500	1.625	1.3750-18 UNEF	.597	.479	1.562	4.212	7.688	1.371	1.5000-0.1P-0.2L-DS	1.688	.980	6.00
14	22	1.000	.875	1.500	1.625	1.3750-18 UNEF	.597	.479	1.562	4.212	7.168	1.371	1.5000-0.1P-0.2L-DS	1.688	.980	6.00
15	24	1.375	1.250	2.000	1.875	1.6250-18 UNEF	.597	.479	1.812	4.275	9.688	1.309	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
16	24	1.310	1.185	1.750	1.875	1.6250-18 UNEF	.597	.479	1.812	4.275	8.688	1.372	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
17	24	1.230	1.105	1.750	1.875	1.6250-18 UNEF	.597	.479	1.812	4.275	8.188	1.372	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
18	24	1.180	1.055	1.750	1.875	1.6250-18 UNEF	.597	.479	1.812	4.275	8.188	1.372	1.7500-0.1P-0.2L-DS	1.938	.980	6.00
19	28	1.531	1.406	2.000	2.062	1.3750-16 UN	.597	.479	2.062	4.337	10.688	1.371	2.0000-0.1P-0.2L-DS	2.219	.980	6.00
20	28	1.445	1.320	2.000	2.062	1.8750-16 UN	.597	.479	2.062	4.337	9.688	1.371	2.0000-0.1P-0.2L-DS	2.219	.980	6.00
21	28	1.375	1.250	2.000	2.062	1.8750-16 UN	.597	.479	2.062	4.337	9.688	1.371	2.0000-0.1P-0.2L-DS	2.219	.980	6.00
22	32	1.825	1.700	2.438	2.312	2.0625-16 UNS	.710	.479	2.312	4.704	13.688	1.371	2.2500-0.1P-0.2L-DS	2.469	.980	6.00
23	32	1.730	1.605	2.438	2.312	2.0625-16 UNS	.710	.479	2.312	4.704	13.688	1.371	2.2500-0.1P-0.2L-DS	2.469	.980	6.00

CONFIGURATION C - STYLE 3 CABLE SEALING AND GRIPPING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED

Size number	Shell size	Cable range		B	C	D	E	F	G	H	J	K	L	N	P	Q
		Max dia	Min dia	Max dia	Max dia	Thread Class 2B-LH	Free length max	Free length max	Dia +.010 - .020	Max	Approx free length	+ .015 - .025	Thread (plated) Class 2 (A or B)	Dia max	Max	Within one link
24	32	1.656	1.531	2.250	2.312	2.0625-16 UNS	.597	.479	2.312	4.399	12.688	1.370	2.2500-0.1P-0.2L-DS	2.469	.980	6.00
25	36	2.062	1.917	2.750	2.500	2.3125-16 UNS	.710	.479	2.562	4.704	14.188	1.375	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
26	36	1.984	1.859	2.438	2.500	2.3125-16 UNS	.710	.479	2.562	4.673	13.688	1.344	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
27	36	1.900	1.775	2.438	2.500	2.3125-16 UNS	.710	.479	2.562	4.673	13.688	1.344	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
28	36	1.825	1.700	2.438	2.500	2.3125-16 UNS	.710	.479	2.562	4.673	13.688	1.344	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
29	36	1.730	1.605	2.438	2.500	2.3125-16 UNS	.710	.479	2.562	4.673	13.688	1.344	2.5000-0.1P-0.2L-DS	2.719	.980	6.00
30	40	2.375	2.230	2.875	2.812	2.6250-16 UN	.709	.667	2.875	5.000	18.188	1.421	2.7500-0.1P-0.2L-DS	2.969	.980	6.00
31	40	2.250	2.105	2.750	2.625	2.6250-16 UN	.709	.667	2.875	5.000	17.188	1.421	2.7500-0.1P-0.2L-DS	2.969	.980	6.00
32	40	2.145	2.000	2.750	2.625	2.6250-16 UN	.710	.667	2.875	4.939	14.188	1.422	2.7500-0.1P-0.2L-DS	2.969	.980	6.00
33	40	2.062	1.917	2.750	2.625	2.6250-16 UN	.710	.667	2.875	4.939	14.188	1.422	2.7500-0.1P-0.2L-DS	2.969	.980	6.00

CONFIGURATION C - STYLE 3 CABLE SEALING AND GRIPPING - CONTINUED

FIGURE 1 - CONFIGURATIONS AND DIMENSIONS - CONTINUED