INTRODUCTION

Amphenol is a leading designer, manufacture and marketer of interconnection solutions since 1972. Amphenol is the first Company in India who started manufacturing high performance connectors. These expertise and capabilities enables us to turn your interconnection problems to solutions

Amphenol Back Shells and Accessories are developed for environmental protection needs of circular connectors. These are designed to meet the requirements of military standards. The Military numbers indicated in this catalogue are for reference only.

This catalogue describes the standard and special purpose designs used in Military and industrial circular connectors meeting the following specifications.

MIL-C-5015
MIL-C-26482
MIL-C-38999
MIL-C-55116

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SERIES 62IN

These are the accessories compatible with miniature circular bayonet-coupled connectors according to MIL-C-26482 Series 1. The standard finishes of these accessories are Cadmium with olive drab chromate. Other alternate finishes are also available on request.

62IN-584 **Grommet seal & nut**

62IN-585 **Grommet seal & nut with Strain Relief Clamp**

62IN-720 **Clamp for Unscreened jacketed cable**

62IN-776 **General duty shell**

62IN-736 **Cap with chain for single hole mounting Receptacle**

62IN-737 **Cap with chain for cable Receptacle**

62IN-738 **Cap with chain for flange mounting Receptacle**

62IN-742 **Cap with chain for plug**

62IN-810 **Cap with Chord for plug**

62IN-812 **Cap with Chord fo flange Receptacle**

62IN-813 **Cap with Chord for single hole mount Receptacle**

62IN-814 **Cap with Chord for cable Receptacle**

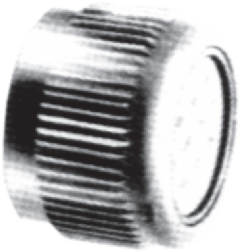
62IN-760 **Flange mounting gasket**

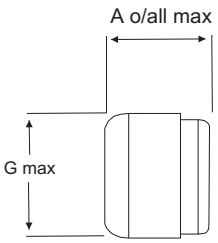
62IN-pg **PG Adapter**

62IN - 584 - XX - XXS or P

Grommet seal and nut provides an environmental for the exposed solder buckets in the open back class T shells.

584





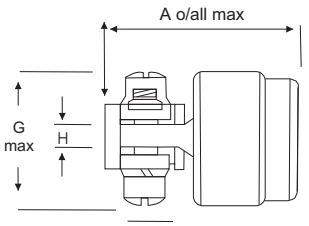
Suffix XX - XXS or P enables grommet to be matched to the insert arrangement.

Shell Size	A	G max
08	13.84	14.25
10	13.84	17.43
12	13.84	20.60
14	13.84	23.78
16	13.84	26.95
18	13.84	30.13
20	13.84	33.30
22	13.84	36.75
24	12.73	39.65

62IN - 585 XX- XXS or P

Grommet and nut with strain relief clamp. The clamp prevents the flexing of the wires in The immediate vicinity of the risers, so avoiding the risk of leaks.

585

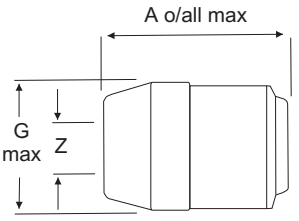


Suffix XX - xxS or P enables Grommet to be matched to the jnsert arrangement.

Shell Size	A max	G max	H max
08	25.17	21.03	4.09
10	25.17	22.63	4.90
12	25.17	25.81	8.05
14	24.51	28.98	9.65
16	28.07	36.22	16.00
18	28.07	36.22	16.00
20	32.64	36.22	16.00
22	32.64	39.80	19.18
24	34.88	44.07	20.45

62IN - 720 - XX

Clamp for unscreened jacketed cable
No grommet is supplied, for use with
50T, 51T and 56T styles.

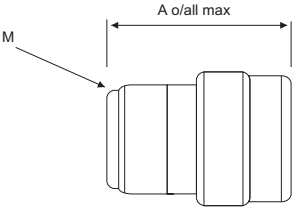


Suffix XX specifies shell size

Shell Size	A max	G max	Z closed	Z free
08	27.56	14.25	4.28	5.84
10	26.92	17.43	5.21	7.93
12	29.46	20.60	8.59	11.23
14	34.54	23.78	10.57	13.69
16	40.26	26.95	13.97	15.65
18	45.34	30.13	15.24	17.57
20	50.32	33.30	16.13	18.98
22	55.39	36.75	17.02	21.49
24	56.28	39.65	18.80	22.71

62IN -776

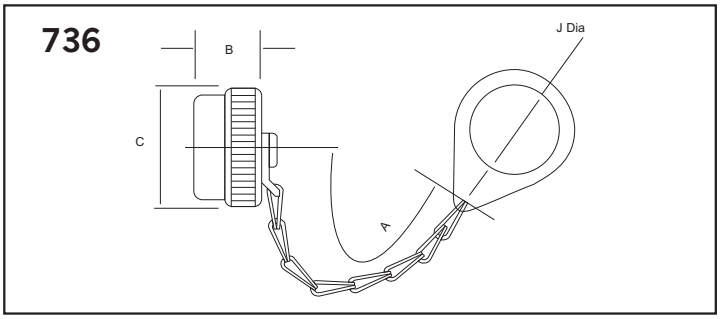
General duty shell to accept conduit,
AN 3057 or
MS 3057 A cable clamps and heat
shrink sleeves.



Shell Size	A Max	M Thred
08	23.80	1/2 - 28 UNEF
10	23.80	5/8 - 24 NEF
12	23.8	3/4 - 20 UNEF
14	23.80	7/8 - 20 UNEF
16	23.8	1 -20 UNEF
18	23.80	1.3/16 -18 NEF
20	23.8	1.3/16 - 18 NEF
22	23.80	1.7/16 - 18 NEF
24	23.8	1.7/16 - 18 NEF

62IN - 736

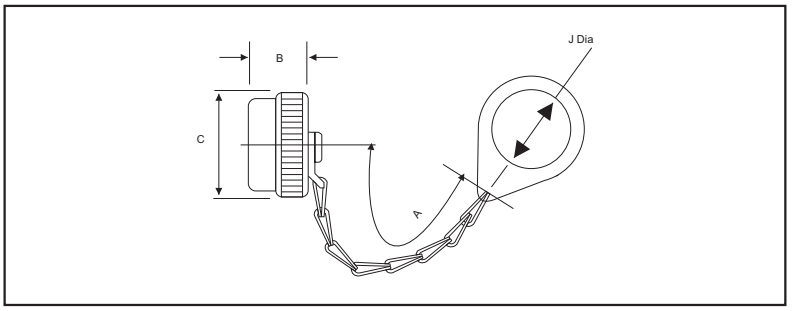
Cap and chains for single hole mounting receptacles



Shell Size	A -6.35	B -0.13	C DIA MAX	J + 0.127
08	76.2	13.23	18.64	14.68
10	76.2	13.23	21.82	17.86
12	88.9	13,23	25.4	22.63
14	88.9	13.23	28.57	25.81
16	88.9	13.23	31.75	29.39
18	88.9	13.23	34.92	32.16
20	101.6	13.23	38.1	35.33
22	101.6	13.23	41.27	38.51
24	101.6	14.12	44.45	41.68

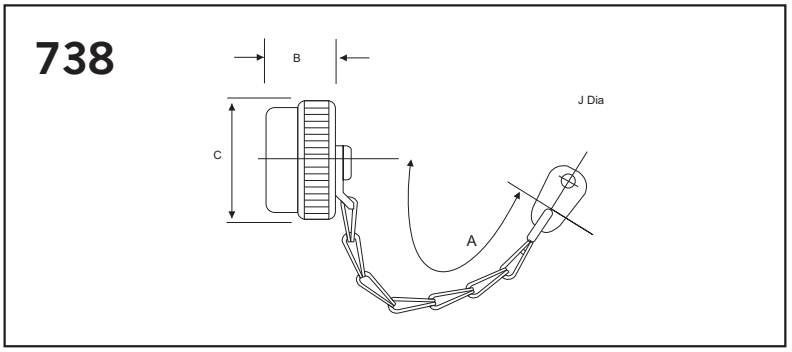
62IN - 737

Caps and chains for cable mounting receptacles



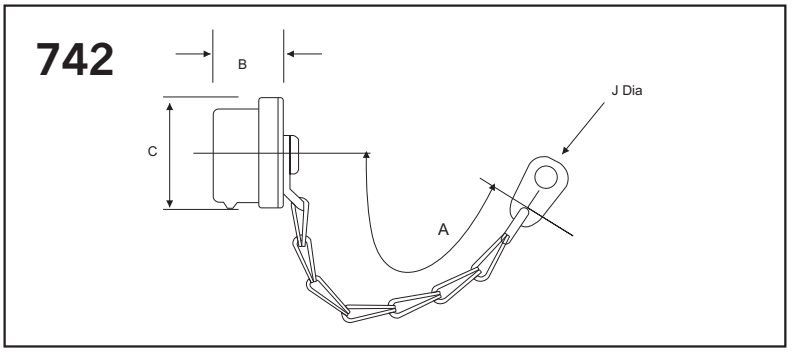
Shell Size	A -6.35	B -0.13	C DIA MAX	J - 0.127
08	76.2	15.21	18.64	11.63
10	76.2	15.21	21.82	14.81
12	88.9	15.21	25.4	17.98
14	88.9	15.21	28.57	22.76
16	88,9	15.21	31.75	25.93
18	88.9	15.21	34.92	29.11
20	101,6	15.21	38.1	32.28
22	101.6	15.21	41.27	35.46
24	101.6	15.21	44.45	38.63

62IN - 736
Caps and chains for flange mounting receptacles.



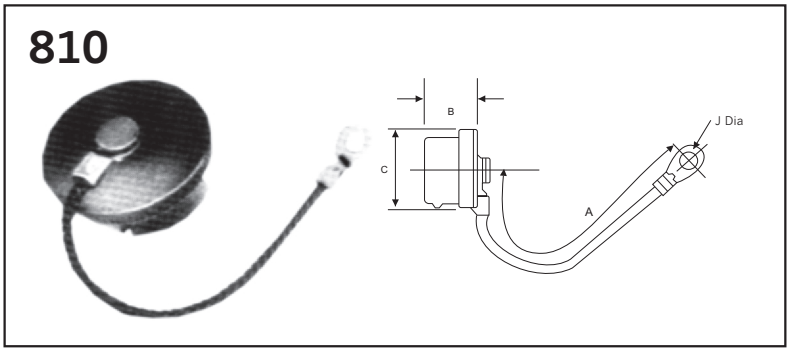
Shell Size	A - 6.35	B - 0.13	C dia max	J -0.127
08	76.2	13.23	18.64	3.18
10	76.2	13.23	21.82	3.18
12	88.9	13.23	25.4	3.18
14	88.9	13.23	28.57	3.18
16	88.9	13.23	31.75	3.18
18	88.9	13.23	34.92	3.18
20	101.6	13.23	38.1	3.18
22	101.6	13.23	41.27	3.18
24	101.6	14.12	44.45	3.86

62IN - 742
Caps and chains for plugs.



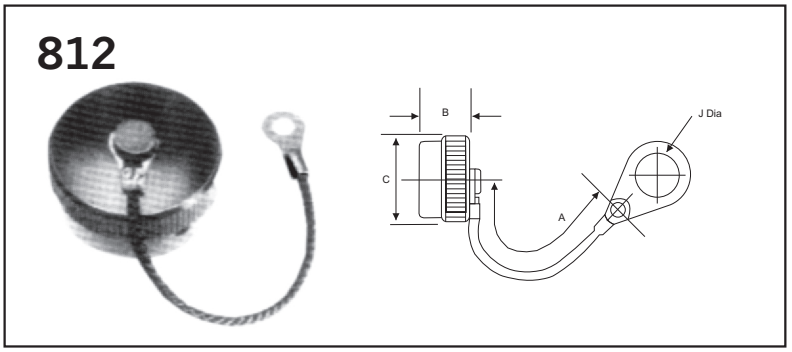
Shell Size	A - 6.35	B - 0.13	C dia max	J -0.127
08	76.2	13.25	18.26	3.18
10	76.2	13.25	21.43	3.18
12	88.9	13.25	25.4	3.18
14	88.9	13.25	28.57	3.18
16	88.9	13.25	31.75	3.18
18	88.9	13.25	34.92	3.18
20	101.6	14.83	38.1	3.18
22	101.6	14.83	41.27	3.18
24	101.6	15.67	44.45	3.86

62IN - 810
Caps and cords for plugs



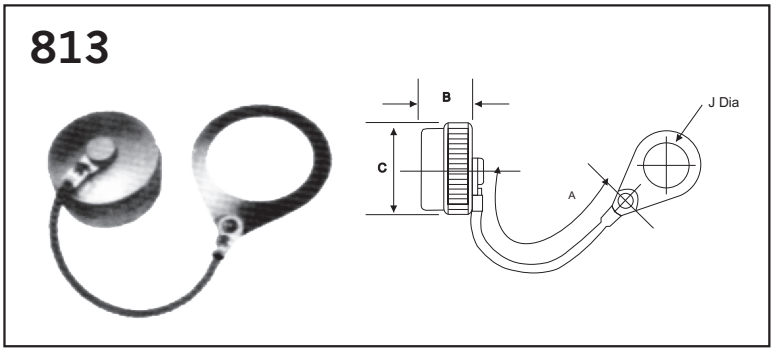
Shell Size	A - 6.35	B - 0.13	C dia max	J -0.8
08	76.2	13.25	18.26	3.68
10	76.2	13.25	21.43	3.68
12	88.9	13.25	25.4	3.68
14	88.9	13.25	28.57	3.68
16	88.9	13.25	31.75	3.68
20	101.6	14.83	38.1	3.68
22	101.6	14.83	41.27	3.68
24	101.6	15.67	44.45	4.34

62IN - 812
Caps and cords for flange mounting receptacles.



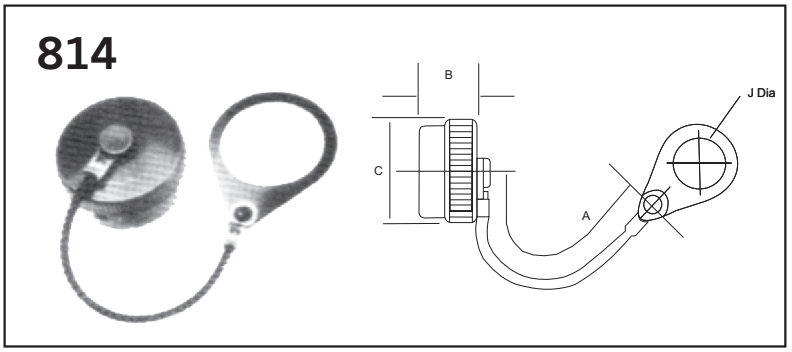
Shell Size	A - 6.35	B - 0.13	C dia max	J -0.08
08	76.2	13.23	18.64	3.68
10	76.2	13.23	21.82	3.68
12	88.9	13.23	25.4	3.68
14	88.9	13.23	28.57	3.68
16	88.9	13.23	31.75	3.68
18	88.9	13.23	34.92	3.68
20	101.6	13.23	38.1	3.68
22	101.6	13.23	41.27	3.68
24	101.6	14.12	44.45	4.34

62IN - 813
Caps and cords for single hole mounting receptacles.



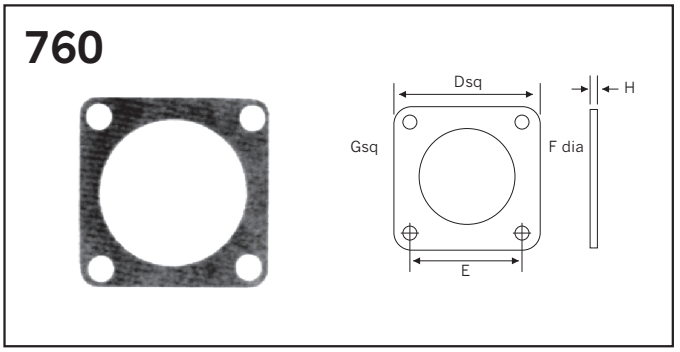
Shell Size	A - 6.35	B - 0.13	C dia max	J -0.25
08	76.2	13.23	18.64	14.68
10	76.2	13.23	21.82	17.86
12	88.9	13.23	25.4	22.63
14	88.9	13.23	28.57	25.81
16	88.9	13.23	31.75	29.39
18	88.9	13.23	34.92	32.15
20	101.6	13.23	38.1	35.33
22	101.6	13.23	41.27	38.51
24	101.6	14.12	44.45	41.68

62IN - 814
Caps and cords for cable mounting receptacles.



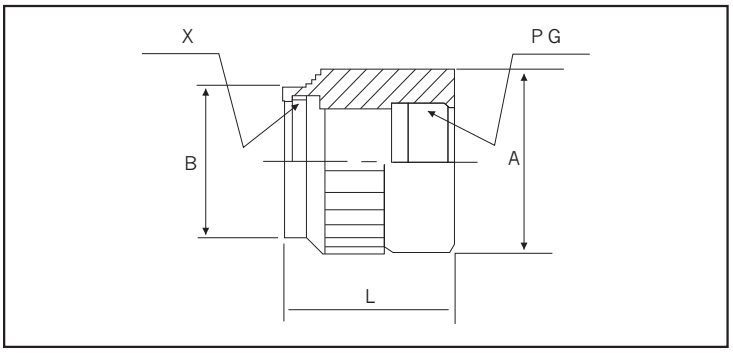
Shell Size	A - 6.35	B - 0.13	C dia max	J -0.25
08	76.2	13.23	18.26	11.50
10	76.2	13.23	21.43	14.64
12	88.9	13.23	25.4	17.85
14	88.9	13.23	28.57	22.63
16	88.9	13.23	31.75	25.80
18	88.9	13.23	34.92	28.98
20	101.6	13.23	38.1	32.15
22	101.6	13.23	41.27	35.33
24	101.6	14.12	44.45	38.50

62IN - 760
Flange mounting gasket for box mounting and hermetic receptacles.



Shell Size	D ±0.254	E ±0.254	F ±0.20	G +0.254	H
08	20.62	15.08	12.90	3.30	1.06/0.40
10	23.82	18.26	16.07	3.30	1.06/0.40
12	26.18	20.65	19.25	3.30	1.06/0.40
14	28.57	23.01	22.42	3.30	1.06/0.40
16	30.96	24.61	25.60	3.30	1.06/0.40
18	33.32	27.00	28.77	3.30	1.06/0.40
20	36.52	29.36	31.95	3.30	1.06/0.40
22	39.70	31.75	35.13	3.30	1.06/0.40
24	42.87	34.92	38.30	3.96	1.06/0.40

PG Adapter



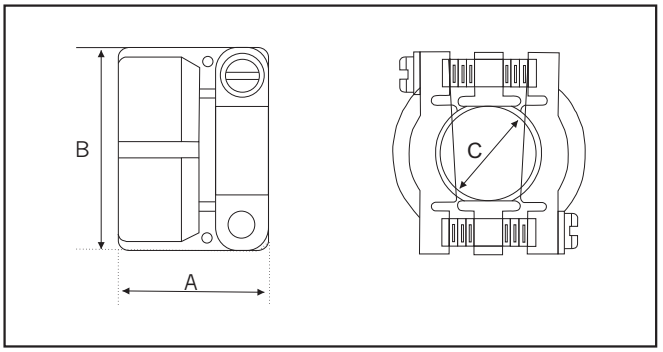
Part No.	For Shell Size	X Thread in inches	A	B	L	PG Thread
62IN08-PG7	8	13.23	16.50	14.50	20.00	PG7
62IN10-PG9	10	13.23	22.00	17.70	20.00	PG9
62IN12-PG9	12	13.23	22.00	21.00	20.00	PG9
62IN14-PG13.5	14	13.23	28.00	23.50	25.00	PG13.5
62IN16-PG9	16	13.23	29.00	27.80	30.00	PG9
62IN20-PG21	20	13.23	35.00	34.00	40.00	PG21

SERIES MS/97/97B

These are the accessories compatible with Threaded-coupled connectors according to MIL-C-5015. The standard finishes of these accessories are Black anodic. Other alternate finishes are also available on request.

MS-3057	Cable Clamp
MS-3420	Telescopic Bush - Neoprene
MS-25042	Cap for Plug
MS-25043	Cap for Receptacle
97B-25042	Cap for Plug
97B-25043	Cap for Receptacle
MS-PG	Pg Adapter
MS-52000	Flange Gasket
MS-3105	Dummy Receptacle
MS	Strain Relief Backshell
MS	Right Angle Backshell

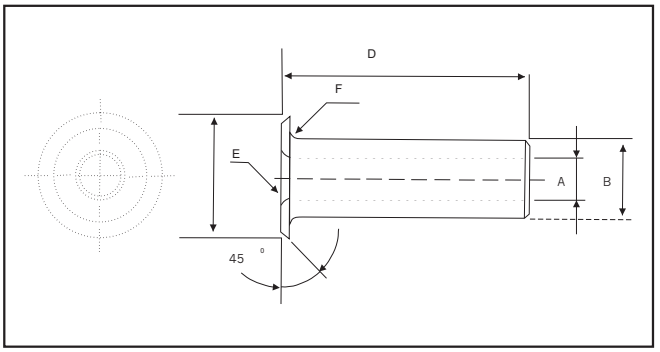
Cable clamp
MS-3057
Use MS-3420 sleeves



All Dimensions are in mm

Part number	Shell Size	Max OD of cable	A	B	C	Thread in inches
MS-3057-4A	10SL,12S	7.94	20.90	21.39	7.94	5/8-24
MS-3057-6A	14,14S	11.11	21.27	25.27	11.11	3/4-20
MS-3057-8A	16,16S	14.29	23.37	28.45	14.29	7/8-20
MS-3057-10A	18	15.87	23.37	30.89	15.87	1-20
MS-3057-12A	20.22	19.05	23.54	35.64	19.05	1 3/16-18
MS-3057-16A	24.28	23.81	25.78	42.75	23.81	1 7/16-18
MS-3057-20A	32	31.70	28.00	51.00	31.70	1 3/4-18
MS-3057-24A	36	34.92	29.36	57.02	34.92	2-18

Neoprene sleeve
MS-3420
Rubber bushing Protects wire bundles and unjacketed cable from possible damage by cable clamp.



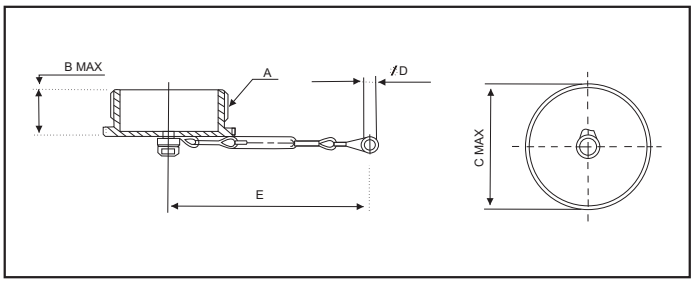
All Dimensions are in mm

Part number	A	B	c	D	E Rad in inches	F Rad in inches
MS-3420-3	3.30	5.33	9.50	73.02	1/32	1/32
MS-3420-4	5.59	7.67	12.70	69.85	1/32	1/32
MS-3420-6	7.92	10.84	15.59	66.67	1/32	1/16
MS-3420-8	11.10	14.02	18.77	63.50	1/16	1/16
MS-3420-10	14.27	15.62	21.94	60.32	1/16	1/16
MS-3420-12	15.87	18.80	26.90	57.15	1/16	1/16
MS-3420-16	19.05	23.54	26.36	53.97	1/16	1/16
MS-3420-20	23.80	31.50	40.41	50.80	1/16	1/16
MS-3420-24	31.75	34.67	46.79	47.62	1/16	1/16

Protective cap for MS and 97 series MS-25042

For Plugs

Has external threads and used on all plugs where a coupling ring is provided

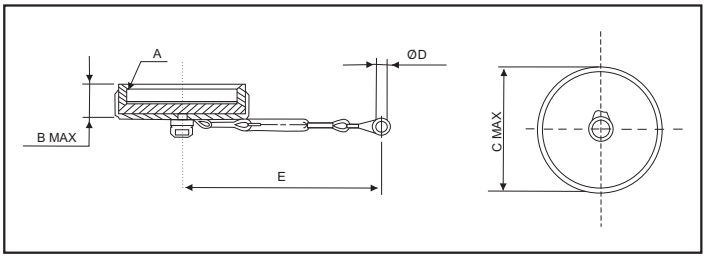


All Dimensions are in mm

MS Part number	For connector size	A Thread in inches	B	C	D	E
MS 25042-10-1	MS 10S-1-SL	5/8-24	16.67	17.4	4	102
MS 25042-12-1	MS 12-12S	3/4-20	21.4	20.6	4	115
MS 25042-14-1	MS 14-14S	7/8-20	21.4	23.7	4	115
MS 25042-16-1	MS 16-16S	1-20	21.4	26.9	4	115
MS 25042-18-1	MS 18	1 1/8-18	21.4	30	4	115
MS 25042-20-1	MS 20	1 1/4-18	21.4	33	4.8	127
MS 25042-22-1	MS 22	1 3/8-18	21.4	36.4	4.8	127
MS 25042-24-1	MS 24	1 1/2-18	21.4	39.6	4.8	140
MS 25042-28-1	MS 28	1 3/4-18	21.4	46	4.8	197
MS 25042-32-1	MS 32	2 1/4-18	21.4	52	5.6	197
MS 25042-36-1	MS 36	2 1/4-186	21.4	58.7	5.6	197
MS 25042-40-1	MS 40	2 1/2-16	21.4	65	5.6	-SLS-197

Protective cap for MS & 97 series MS-25043 For receptacles

Has internal threads & is used on all receptacles. Gasket is provided in the dust cap forming a watertight seal.



All Dimensions are in mm

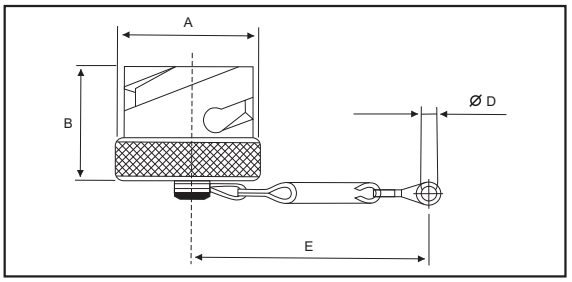
MS Part number	For connector size	A Thread in inches	B	C	D	E
MS 25043-10-1	MS 10S-1-SL	5/8-24	11-11	20.7	3.6	102
MS 25043-12-1	MS 12-12S	3/4-20	11-11	25.4	3.6	115
MS 25043-14-1	MS 14-14S	7/8-20	11-11	28.6	3.6	115
MS 25043-16-1	MS 16-16S	1-20	11-11	30.2	3.6	115
MS 25043-18-1	MS 18	1 1/8-18	11-11	34.1	3.6	115
MS 25043-20-1	MS 20	1 1/4-18	11-11	37.3	4.4	127
MS 25043-22-1	MS 22	1 3/8-18	11-11	40.4	4.4	127
MS 25043-24-1	MS 24	1 1/2-18	11-11	43.6	4.4	140
MS 25043-28-1	MS 28	1 3/4-18	12-7	50	4.4	197
MS 25043-32-1	MS 32	2 -18	12-7	56.3	4.8	197
MS 25043-36-1	MS 36	2 1/4-18	12-7	62.7	4.8	197
MS 25043-40-1	MS 40	2 1/2-16	12-7	69	4.8	197

Notes : 1. For protective caps without chain or with nylon cord, contact factory
2. Standard - black anodised finish. For alternatives, contact factory.
3. Standard - straight For diamond knurling on caps, contact factory.

Protective cap for 97B series 97B-25042

For Plugs

Has external grooves and is used on all plugs

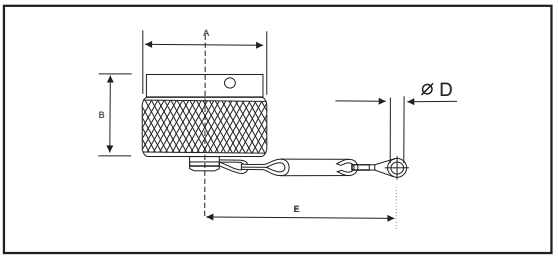


All Dimensions are in mm

Part number	For connector size	A Max	B	D	E
97B 25042-10SL	10SL	23.00	24.00	4.20	102
97B 25042-14S	14S	30.00	24.00	4.20	115
97B 25042-16S	16S	32.50	24.00	4.20	115
97B 25042-16	16	32.50	33.00	4.70	115
97B 25042-18	18	36.40	39.00	4.70	115
97B 25042-20	20	40.50	33.00	4.70	127
97B 25042-22	22	43.50	33.00	4.70	127
97B 25042-24	24	46.50	44.00	4.70	140
97B 25042-28	28	54.00	33.00	5.60	197
97B 25042-32	32	60.00	46.00	5.60	197
97B 25042-36	36	66.20	46.00	5.60	197
97B 25042-40	40	73.00	33.00	5.60	197

Protective cap for 97B series 97B-25043 For receptalces

Has internal bayonet pins
and is used on all receptacles.

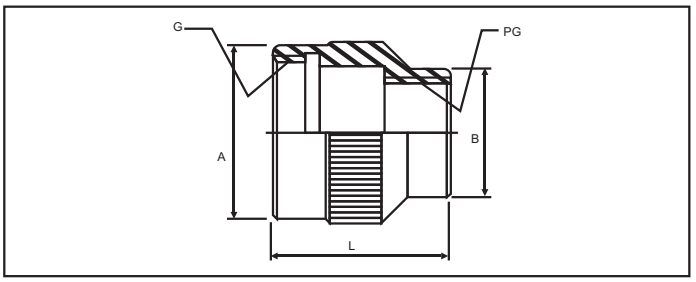


All Dimensions are in mm

Part number	For connector size	A Max	B	D	E
97B 25043-10SL	10SL	23.00	15.50	4.20	102
97B 25043-14S	14S	30.00	15.50	4.20	115
97B 25043-16S	16S	32.50	15.50	4.20	115
97B 2503-16	16	32.50	21.20	4.20	115
97B 25032-18	18	37.00	21.20	4.20	115
97B 25043-20	20	40.50	21.20	4.70	127
97B 25043-22	22	43.50	21.20	4.70	127
97B 25043-24	24	47.50	21.20	4.70	140
97B 25043-28	28	54.00	21.20	5.60	197
97B 25043-32	32	60.50	21.20	5.60	197
97B 25043-36	36	67.00	21.20	5.60	197
97B 25043-40	40	73.00	21.20	5.60	197

Notes : 1. For protective caps without chain or with nylon cord, contact factory
2. Standard - black anodised finish. For alternatives, contact factory.
3. Standard - straight For diamond knurling on caps, contact factory.

PG Adapter

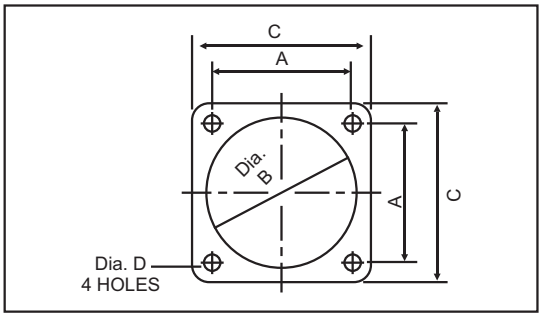


All Dimensions are in mm

Shell Size	G Thread in inches	PG 9			PG 11			PG13			PG16			PG21			PG29			PG36		
		A	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A	B	L
10SL	5/8-24																					
12S	11/16-24																					
14	3/4-20				23	23	30	23	23	30												
16	7/8-20				25	25	30				25	25	30									
18	1-20	30	21	26	30	26	37				30	28	37									
20	1 1/8-18				35	26	40				35	28	40	35	35	40						
22	1 1/4-18										35	28	40	35	35	40						
24	1 3/8-18													38	35	40	40	40	40			
28	1 5/8-18													45	37	45	45	45	45			
36	2 1/8-18																57	44	55	57	57	55

Notes : For ordering information on flat gaskets and PG adaptors,contact factory.

Flange Gasket MS-52000

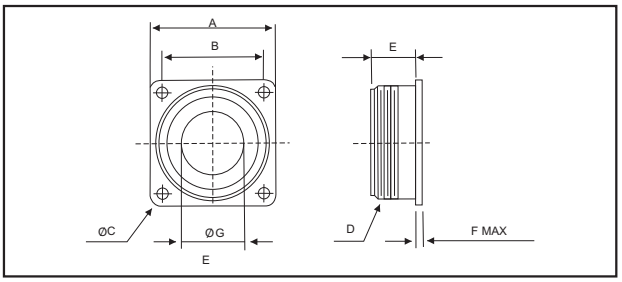


All Dimensions are in mm

Part number	For connector Size	A Max	B	D	E
MS-101000	10SL	18.26	15.90	25.40	4.35
MS-108686	12S & 12	20.62	19.05	27.80	4.35
MS-101001	14S & 14	23.01	22.20	30.15	4.35
MS-101002	16S & 16	24.61	25.40	32.50	4.35
MS-101003	18	27.00	28.57	34.90	5.15
MS-101004	20	29.36	31.75	38.10	5.15
MS-101005	22	31.75	34.90	41.20	5.15
MS-108687	24	34.90	38.10	44.45	5.15
MS-101006	28	39.70	44.45	50.80	5.15
MS-108688	32	44.45	50.80	57.15	5.55
MS-101007	36	49.22	55.57	63.50	5.55

Notes : The dash number also indicates shell size.

Dummy receptacle
MS-3105

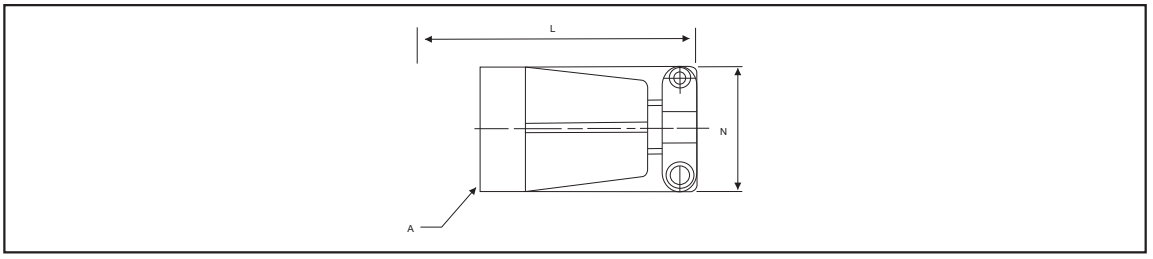


All Dimensions are in mm

Part number (see note)	A	B	C	D Thread in inches	E	F	G
MS-3105-10S	25-4	18.26	3.05	5/8-24	14-27	3.96	8.20
MS-3105-12S	27.79	20.62	3.05	3/4-20	14-27	3.96	11.43
MS-3105-12	27.789	20.62	3.05	3/4-20	19-05	3.96	11.43
MS-3105-14S	30.17	23.01	3.05	7/8-20	14-27	3.96	13.36
MS-3105-14	30.17	23.01	3.05	7/8-20	19.05	3.96	13.36
MS-3105-16S	32.54	24.61	3.05	1-20	14.27	3.96	16.41
MS-3105-16	32.54	24.61	3.05	1-20	19.05	3.96	16.41
MS-3105-18	34.92	26.97	3.05	1 1/8-18	19.05	5.16	18.03
MS-3105-20	38.10	29.36	3.05	1 1/4-18	19.05	5.16	23.54
MS-3105-22	41.27	31.75	3.05	1 3/8-18	19.05	5.16	25.93
MS-3105-24	44.45	34.92	3.73	1 1/2-18	20.62	5.16	29.21
MS-3105-28	50.8	39.67	3.73	1 3/4-18	20.62	5.16	34.67
MS-3105-36	63.5	49.22	4.39	2 1/4-16	22.22	9.11	46.56

Notes : The dash number also indicates shell size.

Strain Relief Backshell Class E and F

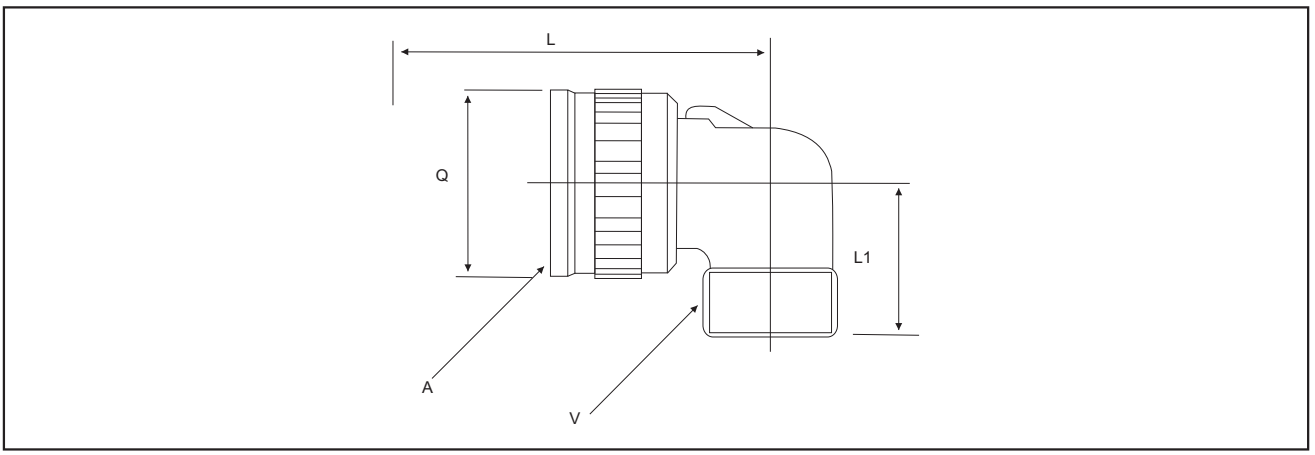


All Dimensions are in mm

Part number	A	A Thread Class 2B in inches	L max for MS/97	L max for 97B	N max
MS-108155	10SL	5/8-24 NEF	54.07	59.10	21.97
MS-108156	12S	11/16-24NEF	54.07	---	21.97
MS-108157	14S	3/4-20 UNEF	55.90	61.34	25.15
MS-108158	16S	7/8-20 UNEF	55.90	62.86	28.45
MS-108158	16	7/8-20UNEF	64.41		28.45
MS-108159	18	1-20 UNEF	65.94	71.10	30.76
MS-108160	20	1 1/8-24 NS	67.41	72.55	37.29
MS-108161	22	1 1/4-18 NEF	67.41	72.55	37.29
MS-108162	24	1 3/8-18NEF	73.28	76.82	44.45
MS-108163	28	1 5/8-18 NEF	73.28	77.82	44.45
MS-108164	32	1 29/32-18 NS	74.75		52.22
MS-108165	36	2 1/16-20 UNS	74.75	77.64	57.15

Standard finish is cadmium Olive drab

Right Angle Backshell



All Dimensions are in mm

Part number	Connector Size	A Thread Class 2B in inches	L max for MS/97	L max for 97B	L 1 max	L 1 max	V Thread in inches
MS-108917	10SL	5/8-24 NEF	37.60	45.00	25.00	22.22	5/8-24 UNEF
MS-108918	12S	11/16-24 NEF	37.80	---	25.00	25.40	5/8-24 UNEF
MS-108918	12	11/16-24 NEF	47.30	---	25.00	25.40	5/8-24 UNEF
MS-108919	14S	3/4-20NEF	39.40	47.00	27.00	28.57	3/4-20UNEF
MS-108919	14	3/4-20 UNEF	48.90	---	27.00	28.57	3/4-20 UNEF
MS-108920	16S	7/8-20 UNEF	42.60	48.00	28.00	31.75	7/8-20 UNEF
MS-108920	16	7/8-20UNEF	52.10	57.00	28.00	31.75	7/8-20UNEF
MS-108921	18	1-20 UNEF	53.70	58.00	31.00	34.13	1-20 UNEF
MS-108922	20	1 1/8-24 NS	58.80	61.00	34.00	37.30	1 3/16-18 NS
MS-108923	22	1 1/4-18 NEF	58.80	61.00	34.00	40.48	1 3/16-18 UNEF
MS-108924	24	1 3/8-18NEF	63.60	66.00	37.00	43.66	1 7/16-18 UNEF
MS-108925	28	1 5/8-18 NEF	63.60	66.00	39.00	50.00	1 7/16-18 UNEF
MS-108926	32	1 29/32-18 NS	69.60	72.00	45.00	56.50	1 3/4-18 UNS
MS-108927	36	2 1/16-20 UNS	72.80	75.00	48.00	62.71	2-18 UNS

Standard finish is cadmium Olive drab
Note : Both versions, straight and diamond knurling available on back accessories. For details, contact factory.

SERIES MS347 & MS CRIMP

These are the accessories compatible with connectors according to MIL-C-26482 Series 2 & MIL-C-5015 Crimp type. The standard finishes of these accessories are Cadmium with olive drab chromate. Other alternate finishes are also available on request.

M85049/26-1 Straight Shield Termination

M85049/26-2 Shielding Ring

M85049/31 Straight Back Shell

M85049/34 Straight Adapter

M85049/52-1 Straight SR Clamp

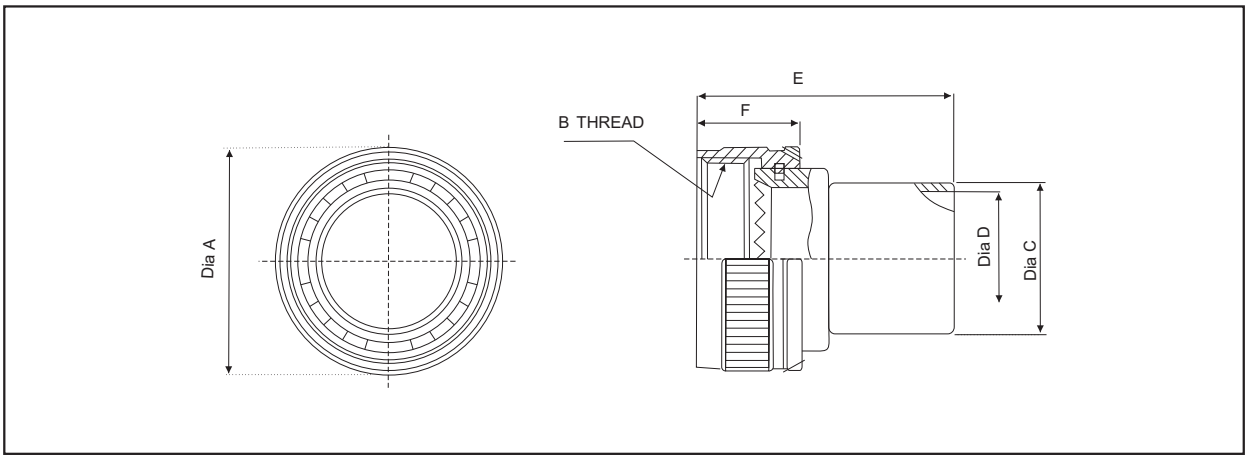
M85049/60-1 Shrink Boot Adapter

Straight Shield Termination
M85049/26-1

M85049/26-1 — MIL SPEC

20 — SIZE CODE
See Dimension Table Below

N — FINISH
N - ELECTROLESS NICKEL
W - CADMIUM, OLIVE DRAB
A - BLACK ANODIZE



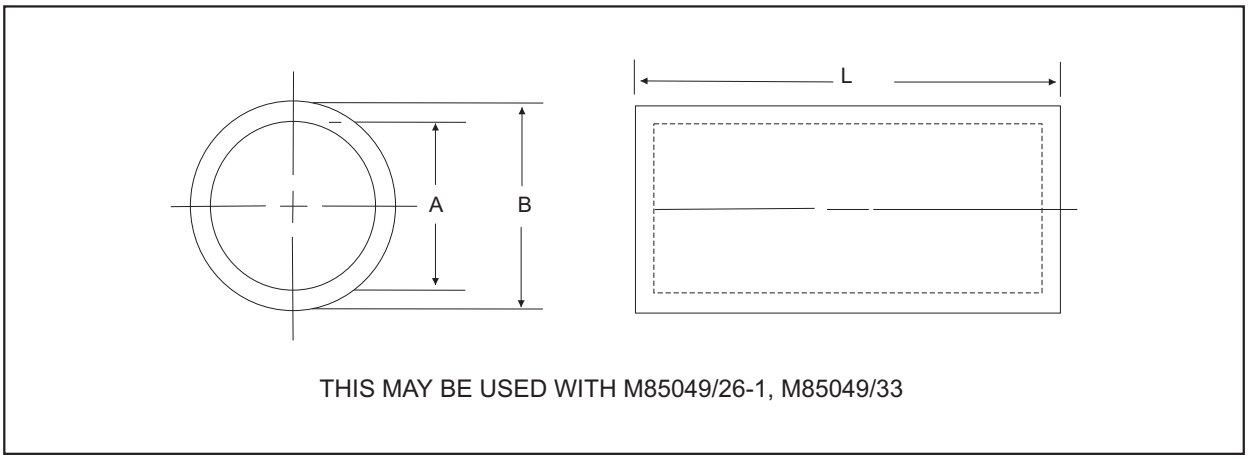
Size Code	MIL-C-26482 Series 2	MIL-C-5015 Crimp	A dia	B Thread Class 28	C dia	D dia	E	F
8	8	85	15.68	1/2-20UNE	8.56	6.35	32.44	13.72
10	10	10S,10SL	18.65	5/8-24UNEF	12.40	8.26	32.44	13.72
12	12	12S & 12	21.80	3/4-20UNEF	12.70	10.67	32.44	13.72
14	14	14S & 14	25.00	7/8-20UNEF	15.75	13.72	32.44	13.72
16	16	16S & 16	28.25	1-20UNEF	19.05	17.02	32.44	13.72
18	18	18	30.94	1-1/16-18UNEF	22.36	20.05	32.44	13.72
20	20	20	34.17	1-3/16-18UNEF	25.44	23.22	32.44	13.72
22	22	22	37.29	1-5/16-18UNEF	28.45	26.40	32.44	13.72
24	24	24	40.47	1-7/16-18UNEF	30.28	28.25	32.44	13.72
28		28	50.10	1-3/4-18UNS	39.25	35.29	36.66	17.84
32		32	56.37	2-18UNS	45.60	41.53	36.66	17.84
36		36	62.72	2.1/46UN	51.95	47.00	36.66	17.84

Shielding Ring
M85049/26-2

M85049/26-2 -10

MIL SPEC

SHELL SIZE
See Dimension Table Below



THIS MAY BE USED WITH M85049/26-1, M85049/33

Size Code	Colour Code	A dia		B dia		L -0.20
		min	Max	Min	Max	
8	GREEN	10.16	10.42	12.40	11.64	6.35
10	RED	14.86	15.12	16.77	17.28	11.18
12						
14	BLUE	17.91	18.17	19.82	20.32	
16	GRAY	21.21	21.47	23.12	23.63	
18	BROWN	25.53	25.79	27.44	27.94	
20	GREEN	28.58	28.83	30.48	30.99	
22	PINK	31.63	31.88	33.53	34.04	
24						
28	RED	42.30	42.55	44.20	44.71	
32	GRAY	48.65	48.90	50.55	51.05	
36	GREEN	55.00	55.25	56.90	57.41	

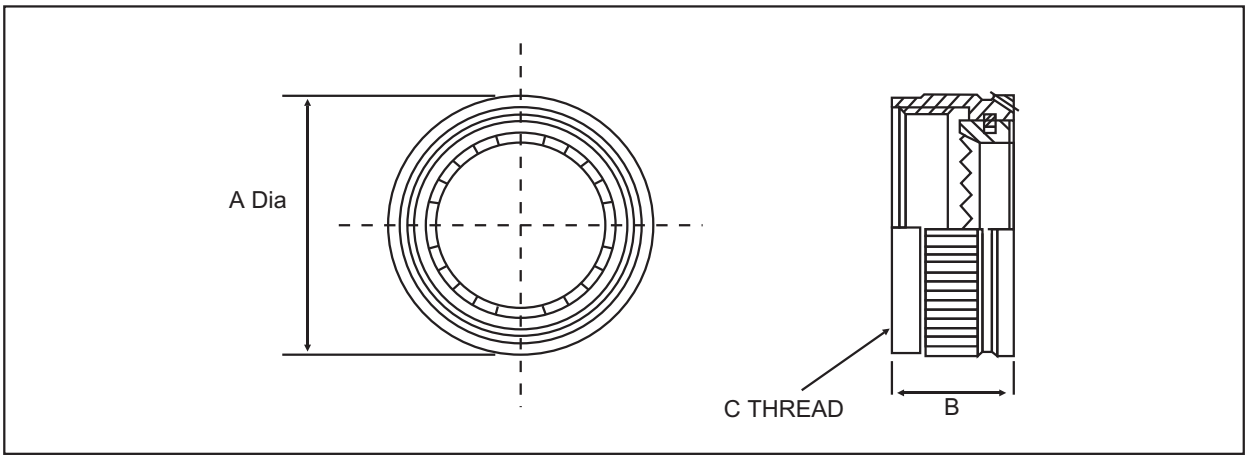
STANDARD MATERIAL IS COPPER AND FINISH TIN PLATING CONSULT FACTORY FOR ANY VARIATIONS

Straight Back Shell
M85049/31

M85049/31 — MIL SPEC

10 — SIZE CODE
See Dimension Table Below

W — FINISH
W - Cadium, Olive Drab
N - Electroless Nickel
A - Black Anodize

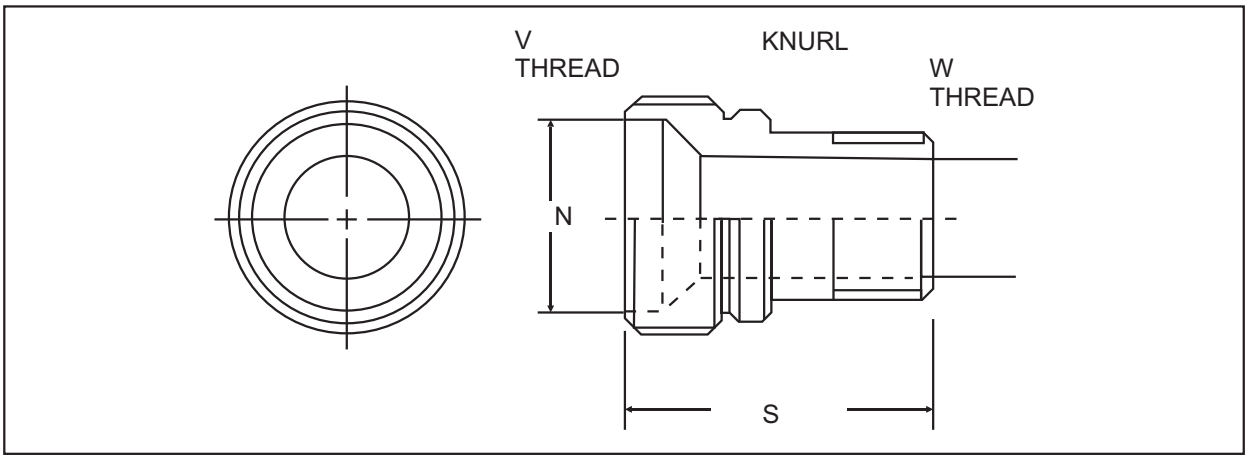


Size Code	Connector Shell Size		A	B	C Thread Class 2B
	MIL-C-26482 Series 2	MIL-C-5015 Series 2			
8	8	8S	15.67	13.72	1/2-20 UNF
10	10	10S,10SL	18.64	13.72	5/8-24 UNEF
12	12	12S & 12	21.79	13.72	3/4-20 UNEF
14	14	14S & 14	24.99	13.72	7/8-20 UNEF
16	16	16S & 16	28.24	13.72	1-20 UNEF
18	18	18	30.94	13.72	1-1/16-18 UNEF
20	20	20	34.16	13.72	1-3/16-18 UNEF
22	22	22	37.29	13.72	1-5/16-18 UNEF
24	24	24	40.46	13.72	1-7/16-18 UNEF
28		28	50.01	17.83	1-3/4-18 UNS
32		32	56.36	17.83	2-18 UNS
36		36	62.71	17.83	2-1/4-16 UN

Straight Adapter
For MS3114, MS3124 & MS 3474 Receptacles

M85049/34 — MIL SPEC

-10 — SHELL SIZE
See Dimension Table Below



Size Code	F dia + 0.13 -0.02	N dia + 0.25 - 0.27	S max	Thread UNEF Class2 A	
				V	W
8	8.18	12.7	20.63	5/8/-24	7/16-28
10	11.16	15.47	20.63	3/4-20	9/16-24
12	14.33	18.65	20.63	7/8-20	13/16-24
14	16.97	21.82	20.63	1-20	13/16-20
16	20.15	24.62	20.63	1-1/8-18	15/16-20
18	23.12	28.16	20.63	1-1/4-18	1-1/16-18
20	26.04	30.97	23.02	1-3/8-18	1-3/16-18
22	29.22	34.14	23.02	1-1/2-18	1-5/16-18
24	32.39	37.32	23.79	1-5/8-18	1-7/16-18

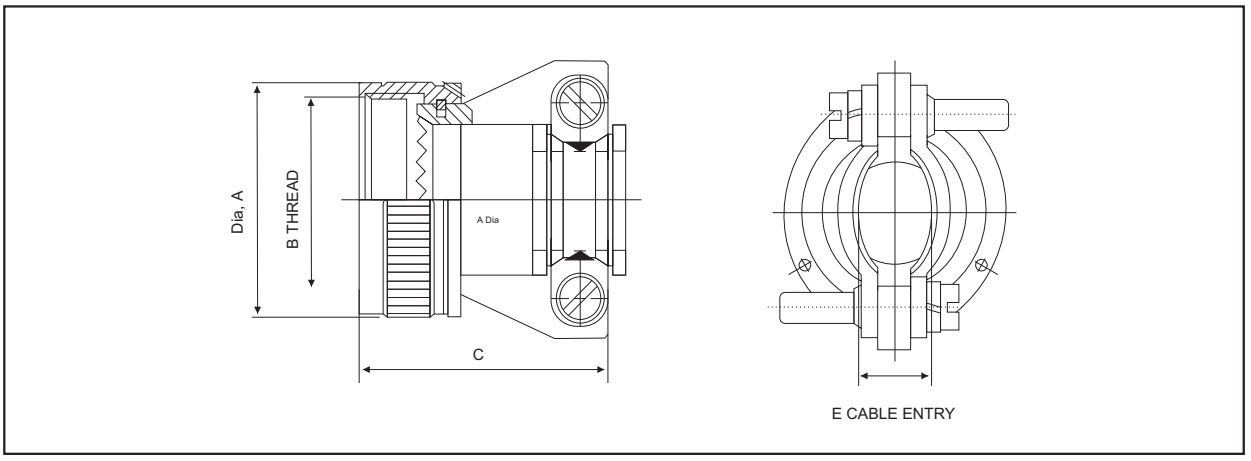
STANDARD FINISH IS CADMIUM OLIVE DRAB FOR OTHER FINISHES CONSULT FACTORY

Straight Strain Relief
M85049/52-1

M85049/60-1 — MIL SPEC

20 — SIZE CODE
See Dimension Table Below

N — FINISH
W - Cadium, Olive Drab
N - Electroless Nickel
A - Black Anodize



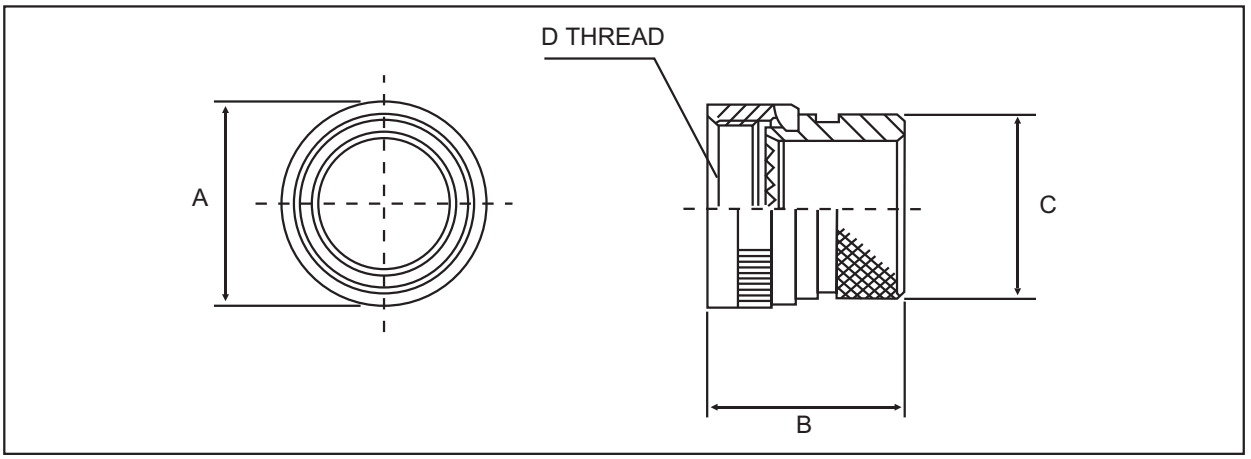
Size Code	For Connector Shell Size (REF)		A max	B Thread Class 2 B	C	E Cable Entry	
	MIL-C-26482 Series	MIL-C-5015 Crimp				Max	Min
8	8	8 S	15.67	½-20 UNF	22.61	5.18	3.17
10	10	10S, 10SL	18.64	5/8-24 UNEF	25.40	7.26	4.74
12	12	12S & 12	21.79	3/4-20 UNEF	28.57	10.56	7.39
14	14	14S & 14	24.99	7/8-20 UNEF	28.57	12.09	8.91
16	16	16S & 16	28.24	1-20UNEF	31.75	15.90	12.72
18	18	18	30.93	1-1/16 -18UNEF	38.10	17.93	13.15
20	20	20	34.16	1-3/16 -18UNEF	41.27	21.10	14.75
22	22	22	37.29	1-5/16 -18UNEF	44.45	24.28	16.35
24	24	24	40.46	1-7/16 -18UNEF	47.62	27.47	17.93
28		28	50.01	1-3/4 -18UNS	55.54	30.10	19.05
32		32	56.36	2 -18UNS	60.32	31.75	22.22
36		36	62.71	2-1/4 -16UNS	69.85	34.92	23.82

Shrink Boot Adapter
For MS3114,MS3124 & MS3474 Receptacles

M85049/60-1 — MIL SPEC

20 — SIZE CODE
See Dimension Table Below

N — FINISH
W - Cadium, Olive Drab
N - Electroless Nickel
A - Black Anodize



Size Code	Connector Shell Size		A Dia	B	C Dia	D Thread Class2 B
	MIL-C-26482 Series 2 M83723 SR I & III	MIL-C-5015 Crimp				
-8	8	8 S	15.67	28.57	13.53	1/2-20UNF
-10	10	10S, 10SL	18.64	28.57	15.36	5/8-24 UNEF
-12	12	12S & 12	21.79	28.57	19.65	3/4-20 UNEF
-14	14	14S & 14	24.99	28.57	21.28	7/8-20 UNEF
-16	16	16S & 16	28.24	28.57	24.46	1-20 UNEF
-18	18	18	30.93	28.57	26.46	1-1/16-18 UNEF
-20	20	20	34.16	28.57	30.91	1-3/16-18 UNEF
-22	22	22	34-28	28.57	34.41	1-5/16-18 UNEF
-24	24	24	40.46	28.57	36.65	1-7/16-18 UNEF
-28		28	50.01	32.68	43.40	1-3/4-18 UNEF
-32		32	56.36	36.80	48.74	2-18 UNEF
-36		36	62.7	36.80	55.09	21/4-16 UNEF

STANDARD FINISH IS CADMIUM OLIVE DRAB FOR OTHER FINISHES CONSULT FACTORY

SERIES - D38999

These are the accessories compatible with connectors according to MIL-C-38999 Series 3. The standard finishes of these accessories are Cadmium with olive drab chromate. Other alternate finishes are also available on request.

M85049/14	**Back Shell**
M85049/33-2	**Straight Shield Termination**
M85049/35	**Straight Adapter**
M85049/38	**Straight Strain Relief**
M85049/58	**Plotting Boot Ring**
M85049/69	**Shrink Boot Adapter**

Back Shell
M85049/14

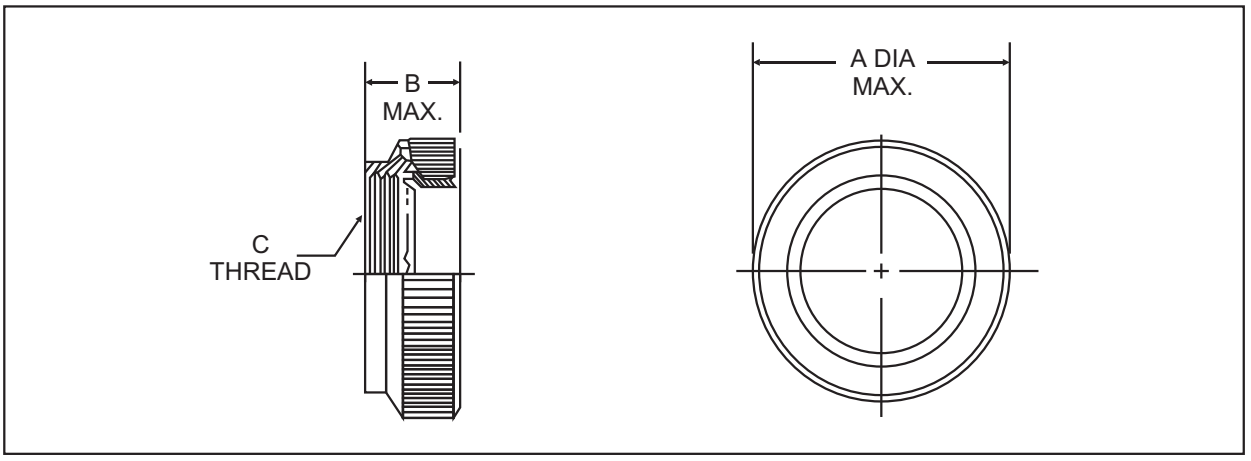
M85049/14 — 1 — 17 — W

MIL SPEC

CONFIGURATION
1 - Rotating coupling nut.

FINISH
W - Cadium, Olive Drab
N - Electroless Nickel
A - Black Anodize

SIZE CODE
See Dimension Table Below.



Size Code	M85049 Self Locking Only		C Thread Metric RH Class 6H
	A max	B max	
9	21.79	16.76	M12 x 1.0-0.10R
11	24.99	16.76	M15 x 1.0-0.10R
13	29.38	16.76	M18 x 1.0-0.10R
15	32.48	16.76	M22 x 1.0-0.10R
17	35.71	16.76	M25 x 1.0-0.10R
19	38.50	16.76	M28 x 1.0-0.10R
21	41.70	16.76	M31 x 1.0-0.10R
23	44.90	16.76	M34 x 1.0-0.10R
25	47.98	16.76	M37 x 1.0-0.10R

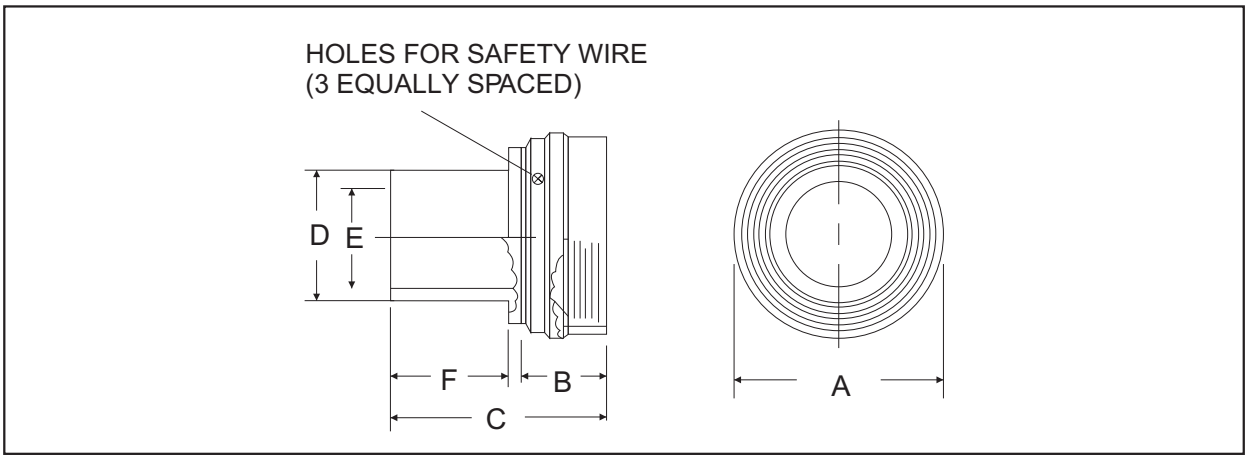
Straight Shield Termination
M85049/33

M85049/33 - 2 - 10 W

FINISH
W - CADMIUM, OLIVE DRAB
N - ELECTROLESS NICKEL
A - BLACK ANODIZE

CONFIGURATION
1) Straight adapter.
2) Straight shield termination
3) Straight Shield termination
Supplied with M85049/26.2 shield ring

SIZE CODE
See Dimension Table Below.



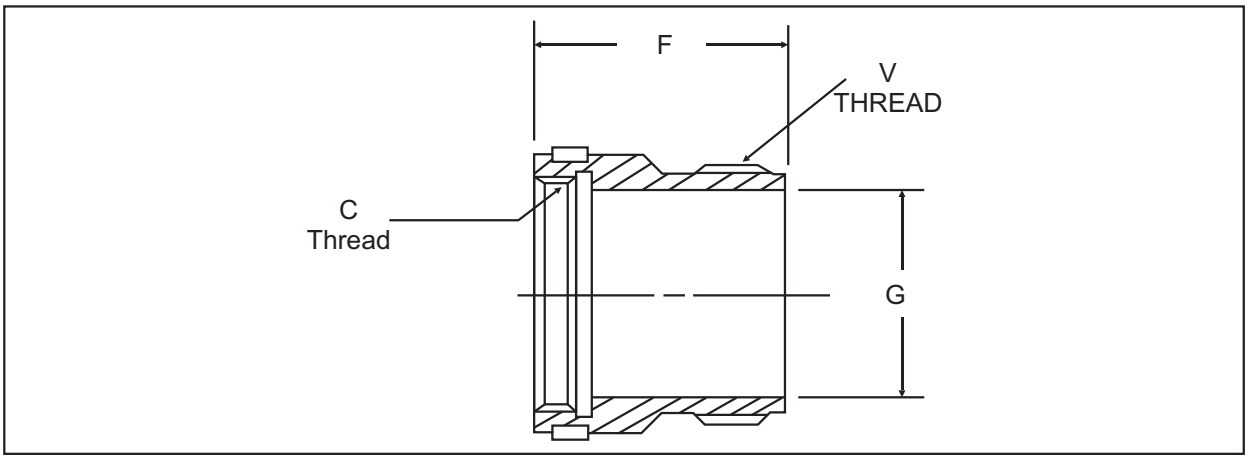
Size Code	MIL-C-3899 Shell Size		A dia max	B max	C max	D dia max	F min	USE M85049/26-2 Crimp Ring
	Series I	Series II						
8	9	8	19.05	13.72	28.88	8.82	6.74	8
10	11	10	21.59	13.72	28.88	12.65	8.72	10
12	13	12	25.40	13.72	28.88	12.83	11.10	12
14	15	14	27.94	13.72	28.88	16.00	14.28	14
16	17	16	31.75	13.72	28.88	19.31	17.45	16
18	19	18	35.56	13.72	28.88	22.61	20.63	18
20	21	20	38.10	13.72	28.88	25.66	23.80	20
22	23	22	41.91	13.72	28.88	28.71	26.57	12
24	25	24	43.18	13.72	28.88	30.54	28.58	24

Straight Adapter
M 85049/35

M85049/35 - 14

MIL SPEC

SIZE CODE
See dimension Table below



Size code	MIL-C-38999 Shell Size		C Thread Class 2B UNEF	F max	G min dia	V Thread Class 2A UNEF
	Series 11	Series 1				
8	8	9	7/16-28	17.48	7.14	1/2-28
10	10	11	9/16-24		10.32	5/8-24
12	12	13	11/16-20		13.49	3/4-20
14	14	15	13/16-20		16.67	7/8-20
16	16	17	15/16-20		19.83	1-20
18	18	19	1 1/16-18		22,23	1 3/16-18
20	20	21	1 3/16-18	19.05	25.40	
22	22	23	1 5/16-18		28.58	1 7/16-18
24	24	25	1 7/16-18		31.57	

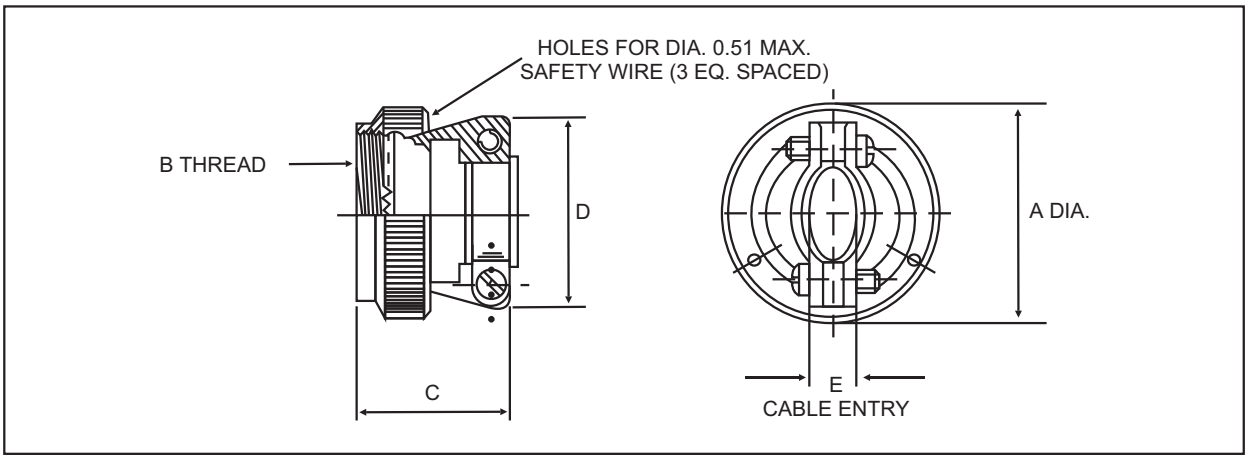
Straight Strain Relief
M 85049/38

M 85049/38 - 17 A

MIL SPEC

SIZE CODE
See dimension Table Below

FINISH
W- CADMIUM,OLIVE DRAB
A- BLACK ANODIZE
N- ELECTROLESS NICKEL



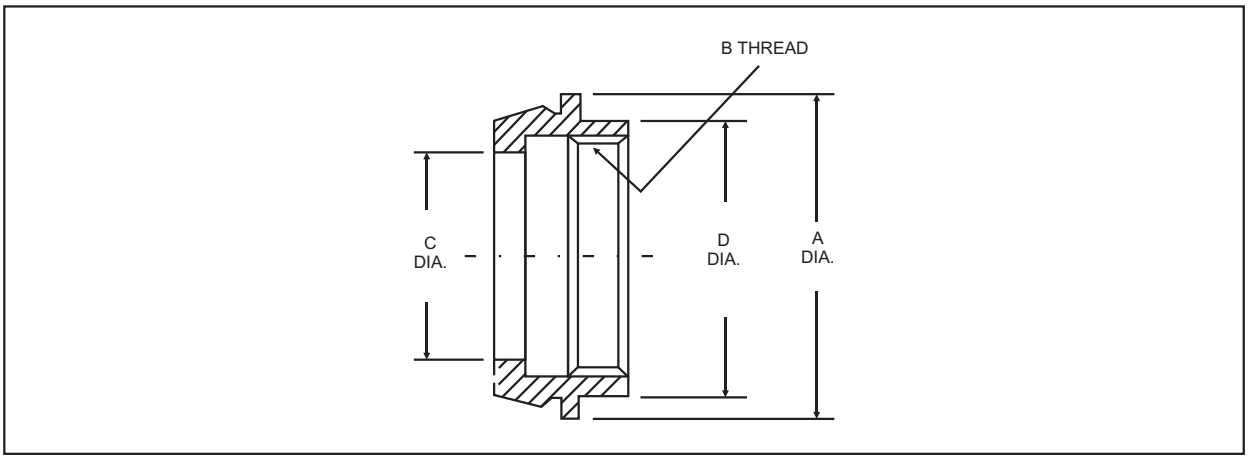
Shell Size	A max	B Metric R. H. Thread Class 6H	C max	D max	E Cable Clamp	
					max	min
9	21.79	M12-1.0-0 100R	27.9	21.6	5.94	2.49
11	24.99	M15-1.0-0.100R	27.9	22.9	5.94	3.89
13	29.39	M18-1.0-0.100R	30.5	27.9	8.83	4.83
15	32.49	M22-1.0-0.100R	31.8	29.2	11.61	6.60
17	35.71	M25-1.0-0.100R	34.3	33.0	16.10	7.19
19	38.50	M28-1.0-0.100R	40.6	38.1	15.60	8.26
21	41.70	M31-1.0-0.100R	43.2	40.6	17.73	8.71
23	44.91	M34-1.0-0.100R	47.0	43.2	20.90	9.68
25	47.98	M37-1.0-0.100R	49.5	45.7	21.67	10.62

Potting Boot Ring
M85049/58

M85049/58 -20

MIL SPEC

SIZE CODE
See dimension Table BELOW



Size Code	MIL - C-38999 Shell Size		A max dia	B Thread UNEF Class 2B	C +.005 dia	D +.005 dia
	Series I	Series II				
8	9	8	15.24	7/16-28	8.74	12.70
10	11	10	18.54	9/16024	11,99	15.88
12	13	12	21.59	11/16-24	14.89	19.05
14	15	14	24.80	13/16-20	18.06	22.23
16	17	16	28.00	15/16-20	21.24	25.40
18	19	18	31.15	1-1/16-18	23.93	28.58
20	21	20	34.35	1-3/16-18	27.11	31.75
22	23	22	37.50	1-5/16-18	30.28	34.93
24	25	24	40.70	1-7/16-18	33.46	38.10

STANDARD FINISH IS CADMIUM OLIVE DRAB FOR OTHER FINISHES CONSULT FACTORY

Shrink Boot Adapter
M85049/69

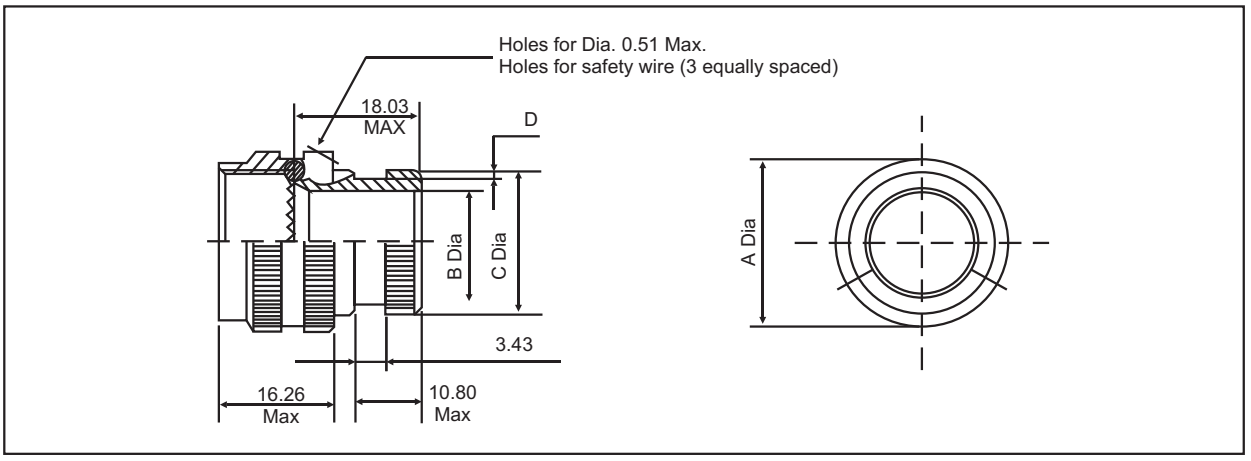
M85049/69 - 17 A D

MIL SPEC

SIZE CODE
See Dimension Table Below

DRAIN HOLE
Omit if not required

FINISH
A - Black Anodize
w - Cadmium Olive Drab
N - Electroless Nickel



Size Code	A Dia max	B max	C dia max	D +.00 -0.20
9	19.1	6.35	13.54	1.12
11	21.6	9.52	15.37	1.12
13	25.4	12.70	19.66	1.12
15	29.20	15.88	21.29	1.12
17	31.8	19.05	24.46	1.12
19	35.6	20.62	26.47	1.12
21	39.40	23.80	30.91	1.75
23	41.9	26.97	34.42	1.75
25	47.00	30.18	36.65	1.75

SERIES 164

These are accessaries compatible with connectors to MIL-C-55116. The standard finishes of these accessories are Cadmium with olive drab chromate. Other alternate finishes are also available on request.

164-895 Cap for receptacles

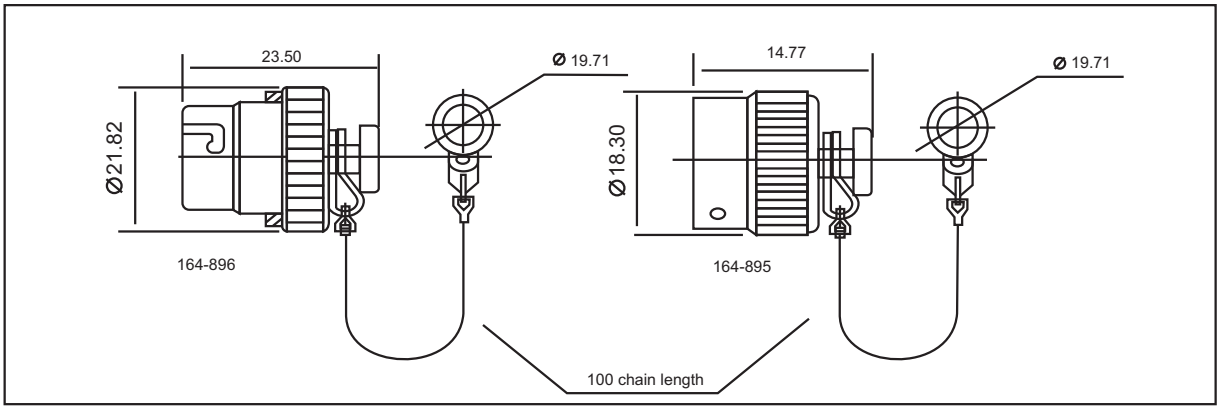
164-896 Cap for plug

164-377 Cap for 10 pin Receptacle

Accessories

Cap and chain

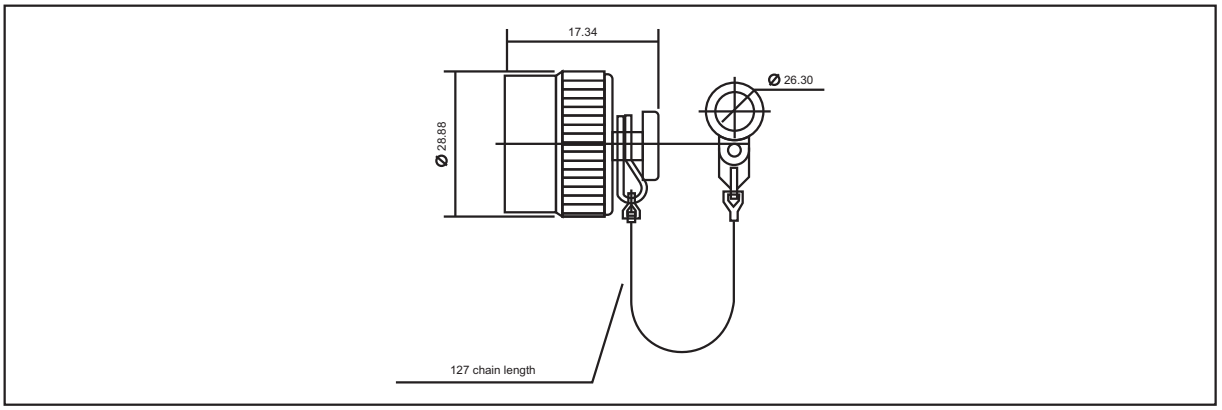
These cap and chain assemblies are used with 5 and 6 pin connectors as protective covers giving additional protection against moisture, dust and sand. The caps are manufactured from aluminum and black anodized The chain is manufactured from. stainless steel and is passivated



All Dimensions are in mm

Part Number	For Connector
164-895	164-183
164-896	164-229

Cap and chain for ten pin waterproof audio receptacles (U-79 / U) Part No. 164-377



Special accessories
Please contact factory with specifications and drawings. Amphetronix has in-house capability to meet and custom build your special accessories requirements for circular connectors.

Notice :
All information, including illustrations given herein is believed to be accurate at the time printing. In Lieu of design advances. Amphenol reserves the right to change specifications without notice. This publication ACR 91/00-01 supersedes all existing Amphenol literature on backshells & accessories for circular connectors.

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