



MIL-SPEC CIRCULAR CONNECTORS
HIGH-PERFORMANCE INTERCONNECT SOLUTIONS

www.corsairelectricalconnectors.com

TABLE OF CONTENTS

MILITARY CIRCULAR CONNECTORS

MIL-DTL-38999

SERIES I

MS274xx

Utilizes Rear Release contact retention, in 9 shell sizes (9 to 25), in a variety of insert arrangements and contact sizes, (22D, 22M, 22, 16, 12, 8, 4 and 0 04 to 10 gage). Bayonet coupling mechanism, Scoop Proof: Polarization achieved by Shell rotation.

MIL-DTL-38999

SERIES II

MS274xx

Utilizes Rear Release contact retention, in 9 shell sizes (8 to 24), in a variety of insert arrangements and contact sizes, (22D, 22M, 22, 16, 12, 8, 4 and 0 11 to 21 gage). Bayonet coupling mechanism, Scoop Proof: Polarization achieved by Shell rotation.

MIL-DTL-38999

SERIES III

Utilizes Rear Release contact retention, in 9 shell sizes (A to J), in a variety of insert arrangements and contact sizes, (22D, 22M, 22, 16, 12, 8, 4 and 0 22 to 39 gage). Triple Start Threaded coupling mechanism, Polarization achieved by Shell rotation.

AS50151 (MIL-DTL-5015) II

MS3400

Utilizes Front Release contact retention, in 12 shell sizes (8 to 40), in a variety of insert arrangements and contact sizes, (16, 12, 8, and 4 gage). Threaded 40 to 61 coupling mechanism, Polarization achieved by Shell rotation.

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MILITARY CIRCULAR | RECTANGULAR CONNECTORS

AS50151 (MIL-DTL-5015) II

MS3450

Utilizes Front Release contact retention, in 12 shell sizes (8 to 40), in a variety of insert arrangements and contact sizes, (16, 12, 8, and 4 gage). Threaded coupling mechanism, Polarization achieved by Shell rotation. 62 to 84

MIL-DTL-26482

SERIES II

MS3470

Utilizes Rear Release contact retention, in 9 shell sizes (8 to 24), in a variety of insert arrangements and contact sizes, (20, 16 and 12 gage). Bayonet coupling mechanism, Polarization accomplished by insert rotation. 85 to 93

AIRCRAFT EXTERNAL POWER RECEPTACLES

MS 90362 Series Connector Receptacle, Aircraft, External power, Shield and Cover Included. 94 to 98
115 / 200 Volt, 400 Hertz, 6 pin
MS 3505 Cover for use with MS 90362-1 and MS 90362-4
MS 17845 Shield for use with MS 90362 Series
MS 3506-1 Connector Receptacle, Aircraft, External power, 28 Volt DC operating power, 3 pin

HERMETIC | BOX MOUNT | PCB

Custom connectors in a variety of shell sizes, in a variety of insert arrangements and contact sizes.
Air-tight (Hermetic), Box-Mounting, & PC Tail varieties. 99 to 103

SUPPORTING INFORMATION

CONTACT AND ASSEMBLY TOOLING INFORMATION 104 to 109
APPLICABLE MANUFACTURING PROCESS FINISHES 110 to 111

MIL-DTL-38999

SERIES I



MILITARY PREFIX	MS27	466	A	25	A	16	P	W
CORSAIR PREFIX	CJ08	66	A	25	A	16	P	W

CONNECTOR CONFIGURATION

27466 (66) RECEPTACLE, WALL MOUNT
27467 (67) PLUG, STANDARD
27468 (68) RECEPTACLE, JAM NUT MOUNT
27496 (96) RECEPTACLE, BOX MOUNT
27505 (05) RECEPTACLE, BACK PANEL BOX MTG
27656 (56) RECEPTACLE, BACK PANEL WALL MOUNT

CLASS

E ENVIRONMENTAL RESISTING-BOX AND THRU-BULKHEAD MOUNTING RECEPTACLE TYPES
T ENVIRONMENTAL RESISTING-BOX AND JAM NUT MOUNTING RECEPTACLE AND PLUG TYPES

SHELL SIZE

9, 11, 13, 15, 17, 19, 21, 23 AND 25

FINISHES

A SILVER/YELLOW CADMIUM OVER NICKEL (CONDUCTIVE)
B OLIVE DRAB CADMIUM OVER A SUITABLE UNDERPLATE (CONDUCTIVE)
C ANODIC (NON CONDUCTIVE)
F ELECTROLESS NICKEL (CONDUCTIVE)
T NICKEL FLOUROCARBON POLYMER (CONDUCTIVE)
Z ZINC NICKEL (CONDUCTIVE)

INSERT ARRANGEMENT

REFER TO LAYOUT PATTERNS PER MIL-DTL-1560

CONTACT TYPE

P PIN
S SOCKET
A CONNECTOR LESS PINS
B CONNECTOR LESS SOCKETS

POLARIZATION

N NORMAL (NOT INCLUDED IN PART NUMBER)

GENERAL SPECIFICATIONS NOTES

- REAR RELEASE CONTACT RETENTION SYSTEM.
- 9 SHELL SIZES (9 TO 25) IN OVER 150 INSERT ARRANGEMENTS UTILIZING CONTACT SIZES 22D, 20, 16, 12, 8, 4, AND 0 GAGE CRIMP CONTACTS PER AS39029.
- USES BAYONET COUPLING MECHANISM.
- ACCEPTS AS85049 BACKSHELLS

OPERATING TEMPERATURE RANGE:

ALUMINIUM: -65° C TO 175° C
STAINLESS STEEL: -65° C TO 200° C

USES HIGH RELIABILITY METAL
CONTACT RETENTION CLIPS

ENVIRONMENTAL FLOUROSILICONE
ELASTOMERS

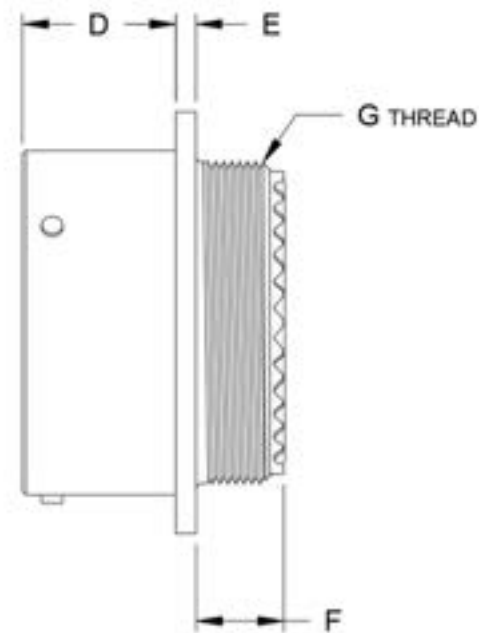
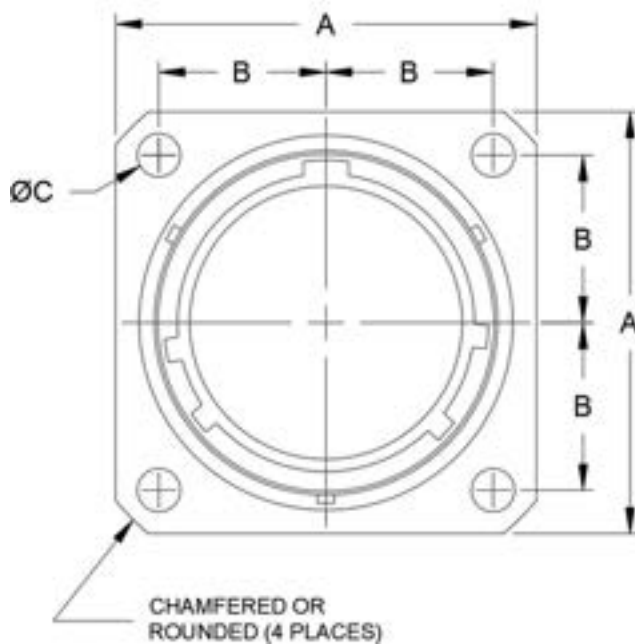
REFER TO ADDITIONAL CONTACT AND
TOOLING INFORMATION

MS27466

MIL-DTL-38999 SERIES I



MIL-DTL-38999
SERIES I



Shell Size	G Thread Class 2A	A Max.	B	C Dia. +.010 -.005	D +.000 -.005	E +.015 -.000	F (Class E) Max.	F (Class P) Max.	F (Class T) Max.
9	.4375-28 UNEF	.938	.3595	.128	.632	.085	.531	.953	.531
11	.5625-24 UNEF	1.031	.406	.128	.632	.085	.531	.953	.531
13	.6875-24 UNEF	1.125	.453	.128	.632	.085	.531	.953	.531
15	.8125-20 UNEF	1.219	.4845	.128	.632	.085	.531	.953	.531
17	.9375-20 UNEF	1.312	.531	.128	.632	.085	.531	.953	.531
19	1.0625-18 UNEF	1.438	.578	.128	.632	.085	.531	.953	.531
21	1.1875-18 UNEF	1.562	.625	.128	.602	.115	.531	1.047	.531
23	1.3125-18 UNEF	1.688	.6875	.147	.602	.115	.531	1.047	.531
25	1.4375-18 UNEF	1.812	.750	.147	.602	.115	.531	1.156	.531

CAGE Code: 1R6R9

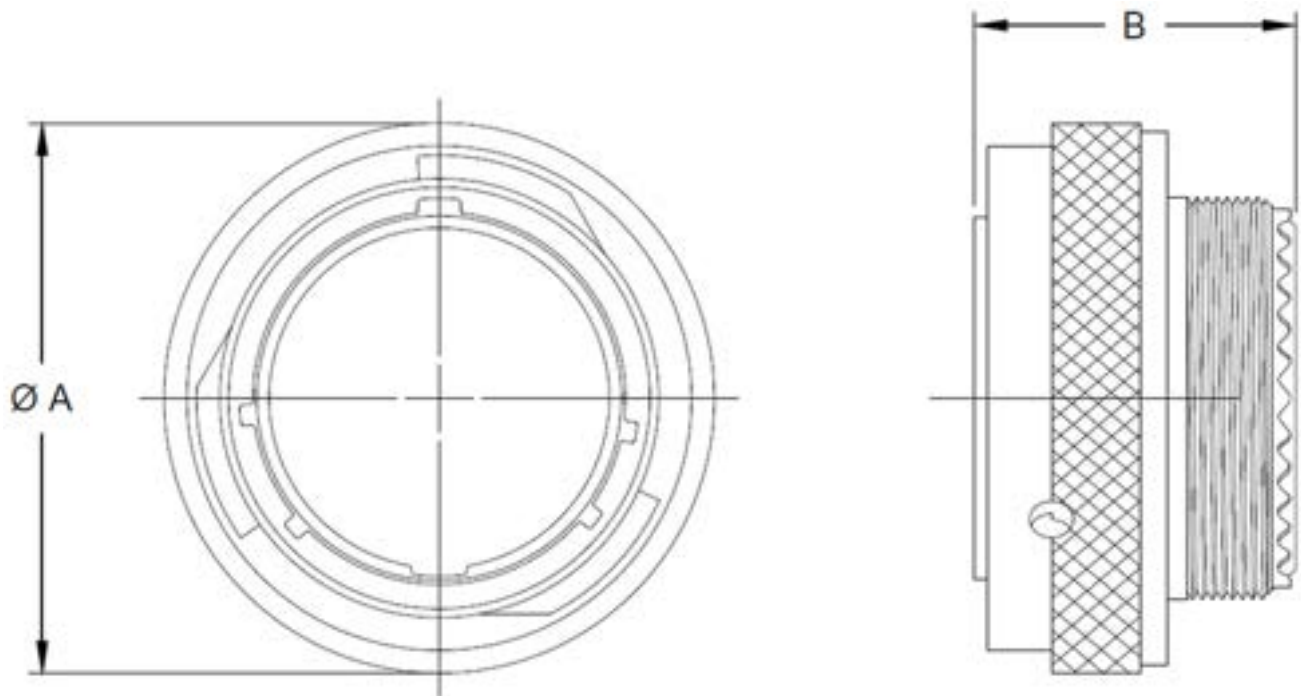
E-Mail: sales@corsairelectricalconnectors.com

MS27467

MIL-DTL-38999 SERIES I



MIL-DTL-38999
SERIES I



Shell Size	A Dia. Max.	B (Class E)	B (Class P)	B (Class T)
9	.859	1.234	1.671	1.234
11	.984	1.234	1.671	1.234
13	1.156	1.234	1.671	1.234
15	1.281	1.234	1.671	1.234
17	1.406	1.234	1.671	1.234
19	1.516	1.234	1.671	1.234
21	1.641	1.234	1.766	1.234
23	1.766	1.234	1.766	1.234
25	1.891	1.234	1.766	1.234

CAGE Code: 1R6R9

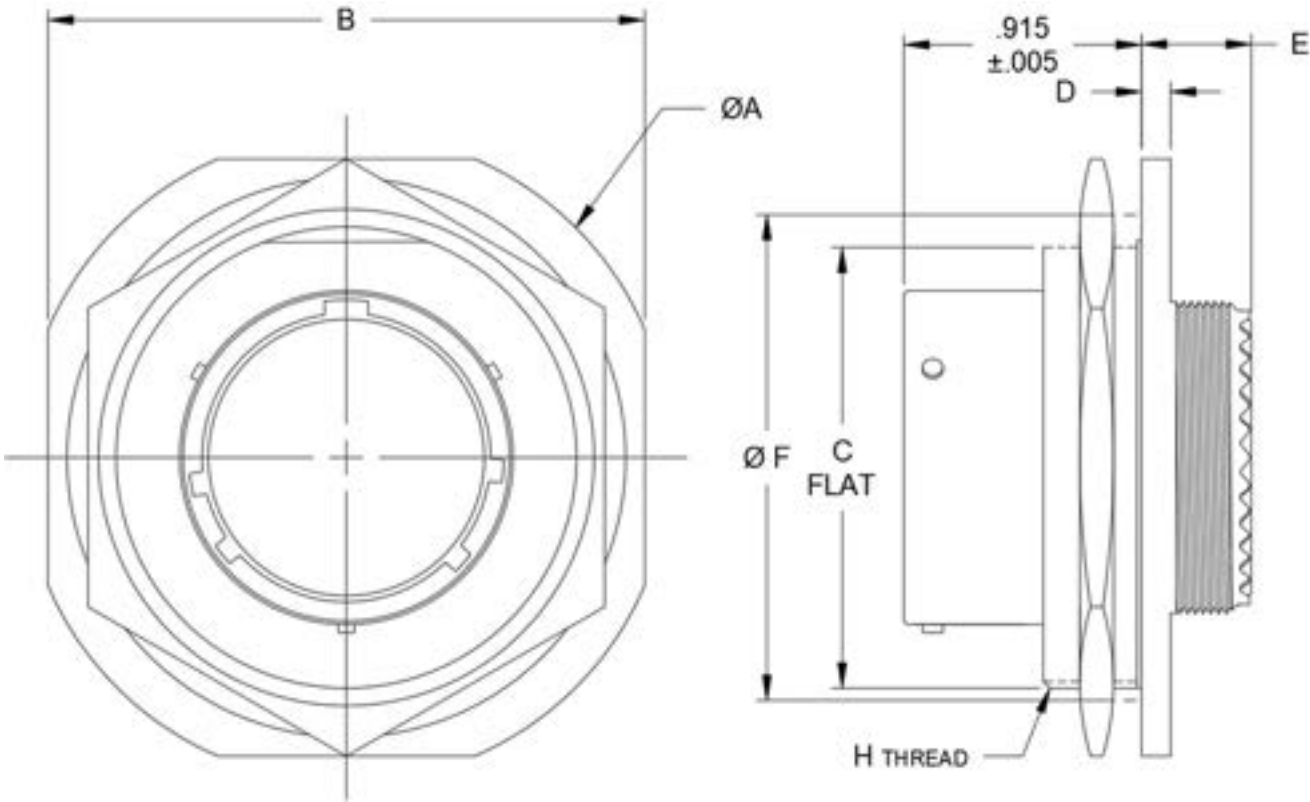
E-Mail: sales@corsairelectricalconnectors.com

MS27468

MIL-DTL-38999 SERIES I



MIL-DTL-38999
SERIES I



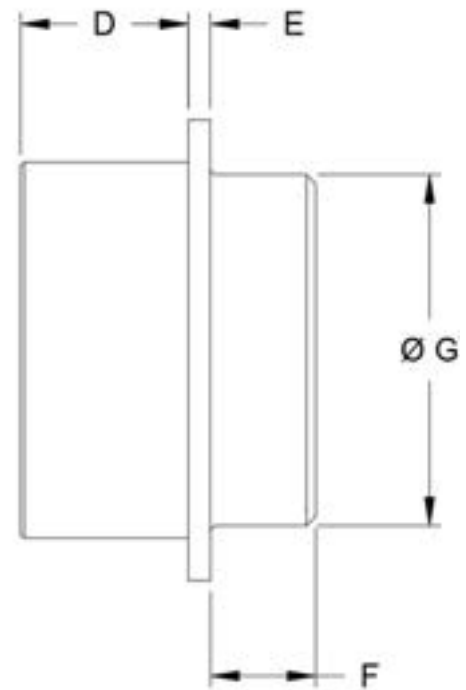
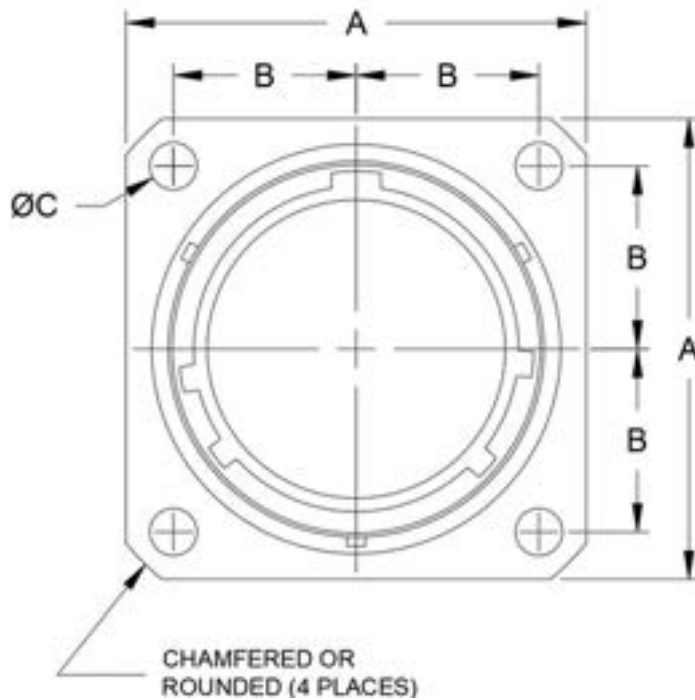
Shell Size	H Thread Class 2A Plated	A Dia. ±.016	B ±.016	C +.000 -.010	D +.011 -.010	E (Class E) Max.	E (Class P) Max.	E (Class T) Max.	F Dia. +.006 -.005
9	.6875-24 UNEF	1.188	1.062	.655	.109	.328	.438	.328	.777
11	.8125-20 UNEF	1.375	1.250	.755	.109	.328	.438	.328	.965
13	1.0000-18 UNEF	1.500	1.375	.942	.109	.328	.438	.328	1.090
15	1.1250-18 UNEF	1.625	1.500	1.066	.109	.328	.438	.328	1.215
17	1.2500-18 UNEF	1.750	1.625	1.191	.109	.328	.438	.328	1.340
19	1.3750-18 UNEF	1.938	1.812	1.316	.140	.328	.469	.328	1.449
21	1.5000-18 UNEF	2.062	1.938	1.441	.140	.328	.469	.328	1.574
23	1.6250-18 UNEF	2.188	2.062	1.566	.140	.328	.469	.328	1.699
25	1.7500-18 UNS	2.312	2.188	1.691	.140	.328	.469	.328	1.824

MS27496

MIL-DTL-38999 SERIES I



MIL-DTL-38999
SERIES I



Shell Size	A $\pm .020$	B	C Dia. $+.010$ -0.005	D $+.000$ $-.005$	E $+.015$ $-.000$	F Max.	G Dia. Max.
9	.938	.3595	.128	.632	.085	.312	.469
11	1.031	.406	.128	.632	.085	.312	.594
13	1.125	.453	.128	.632	.085	.312	.719
15	1.219	.4845	.128	.632	.085	.312	.844
17	1.312	.531	.128	.632	.085	.312	.969
19	1.438	.578	.128	.632	.085	.312	1.078
21	1.562	.625	.128	.602	.115	.312	1.203
23	1.688	.6875	.147	.602	.115	.312	1.328
25	1.812	.750	.147	.602	.115	.312	1.453

CAGE Code: 1R6R9

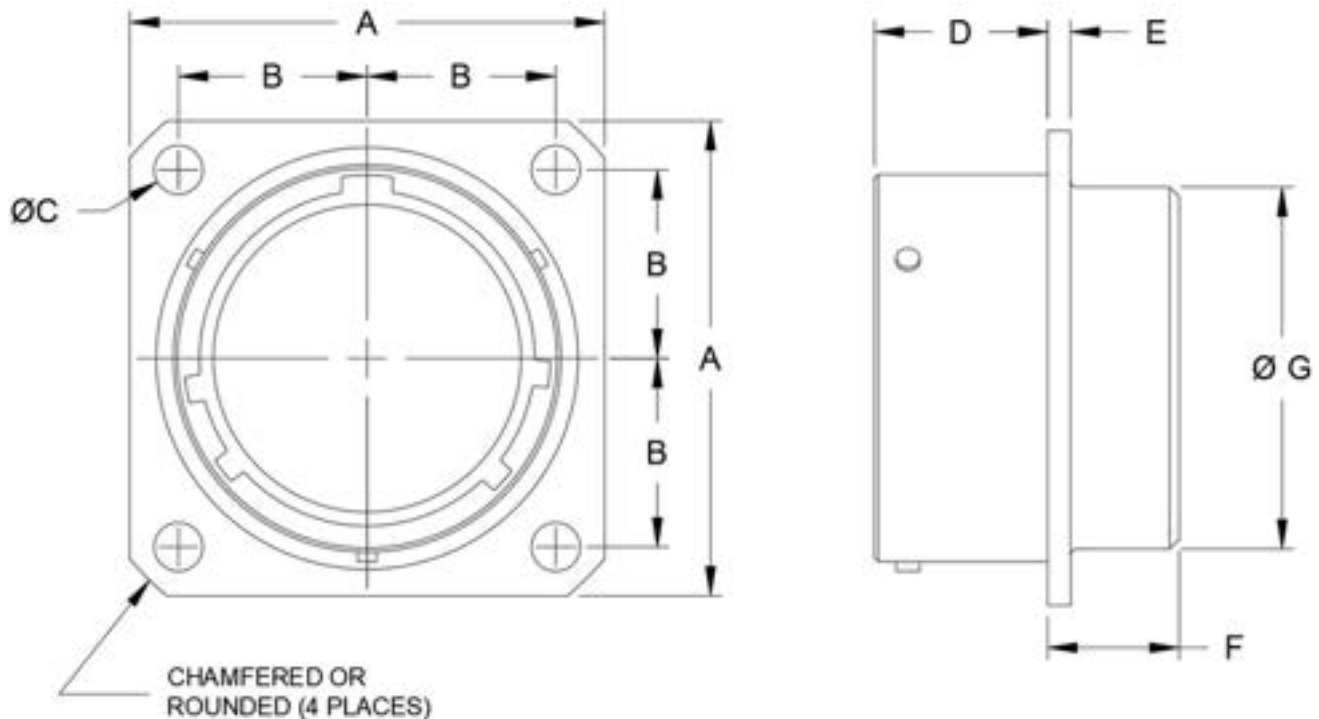
E-Mail: sales@corsairelectricalconnectors.com

MS27505

MIL-DTL-38999 SERIES I



MIL-DTL-38999
SERIES I



Shell Size	A ±.020	B	C Dia. +.010 -0.005	D +.000 -.005	E +.015 -.000	F Max.	G Dia. Max.
9	.938	.3595	.128	.820	.085	.219	.547
11	1.031	.406	.128	.820	.085	.219	.656
13	1.125	.453	.128	.820	.085	.219	.828
15	1.219	.4845	.128	.820	.085	.219	.953
17	1.312	.531	.128	.820	.085	.219	1.078
19	1.438	.578	.128	.820	.085	.219	1.203
21	1.562	.625	.128	.790	.115	.250	1.328
23	1.688	.6875	.128	.790	.115	.250	1.453
25	1.812	.750	.147	.790	.115	.250	1.578

CAGE Code: 1R6R9

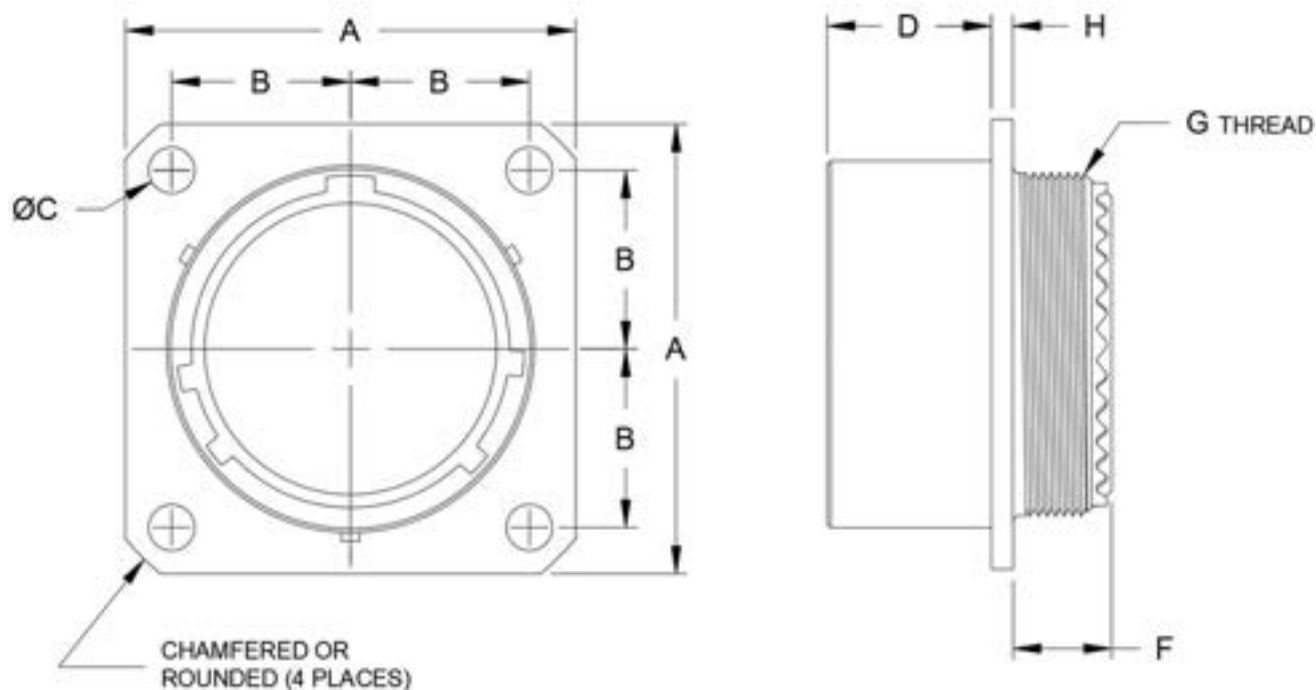
E-Mail: sales@corsairelectricalconnectors.com

MS27656

MIL-DTL-38999 SERIES I



MIL-DTL-38999
SERIES I



Shell Size	G Thread Class 2A	A +/- .020	B	C Dia. +.010 -.005	D +.000 -.005	F (Class E) Max.	F (Class P) Max.	F (Class T) Max.	H +.015 -.000
9	.4375-28 UNEF	.938	.3595	.128	.820	.469	.719	.469	.085
11	.5625-24 UNEF	1.031	.406	.128	.820	.469	.719	.469	.085
13	.6875-24 UNEF	1.125	.453	.128	.820	.469	.719	.469	.085
15	.8125-20 UNEF	1.219	.4845	.128	.820	.469	.719	.469	.085
17	.9375-20 UNEF	1.312	.531	.128	.820	.469	.719	.469	.085
19	1.0625-18 UNEF	1.438	.578	.128	.820	.469	.719	.469	.085
21	1.1875-18 UNEF	1.562	.625	.128	.790	.500	.750	.500	.115
23	1.3125-18 UNEF	1.688	.6875	.147	.790	.500	.750	.500	.115
25	1.4375-18 UNEF	1.812	.750	.147	.790	.500	.750	.500	.115

MIL-DTL-38999

SERIES II



MILITARY PREFIX	MS27	472	E	24	A	16	P	W
CORSAIR PREFIX	CJ13	72	E	24	A	16	P	W

CONNECTOR CONFIGURATION

27472 (72) RECEPTACLE, WALL MOUNT
27473 (73) PLUG, STANDARD
27474 (74) RECEPTACLE, JAM NUT MOUNT
27484 (84) PLUG, RFI, STANDARD
27497 (97) RECEPTACLE, WALL MOUNT
27499 (99) RECEPTACLE, BOX MOUNT
27508 (08) RECEPTACLE, BOX MOUNT, FLANGE
27513 (13) RECEPTACLE, BOX MOUNT, LONG GROMMET

CLASS

- E ENVIRONMENTAL RESISTING-BOX AND THRU-BULKHEAD MOUNTING RECEPTACLE TYPES
- T ENVIRONMENTAL RESISTING-BOX AND JAM NUT MOUNTING RECEPTACLE AND PLUG TYPES

SHELL SIZE

8, 10, 12, 14, 16, 18, 20, 22, AND 24

FINISHES

- A SILVER/YELLOW CADMIUM OVER NICKEL (CONDUCTIVE)
- B OLIVE DRAB CADMIUM OVER A SUITABLE UNDERPLATE (CONDUCTIVE)
- C ANODIC (NON CONDUCTIVE)
- F ELECTROLESS NICKEL (CONDUCTIVE)
- T NICKEL FLOUROCARBON POLYMER (CONDUCTIVE)
- Z ZINC NICKEL (CONDUCTIVE)

INSERT ARRANGEMENT

REFER TO LAYOUT PATTERNS PER MIL-DTL-1560

CONTACT TYPE

- P PIN
- S SOCKET
- A CONNECTOR LESS PINS
- B CONNECTOR LESS SOCKETS

POLARIZATION

N NORMAL (NOT INCLUDED IN PART NUMBER)

GENERAL SPECIFICATIONS NOTES

- REAR RELEASE CONTACT RETENTION SYSTEM.
- 9 SHELL SIZES (8 TO 24) IN OVER 150 INSERT ARRANGEMENTS UTILIZING CONTACT SIZES 22D, 20, 16, 12, 8, 4, AND 0 GAGE CRIMP CONTACTS PER AS39029.
- USES BAYONET COUPLING MECHANISM.
- ACCEPTS AS85049 BACKSHELLS

OPERATING TEMPERATURE RANGE:

ALUMINIUM: -65° C TO 175° C
STAINLESS STEEL: -65° C TO 200° C

USES HIGH RELIABILITY METAL
CONTACT RETENTION CLIPS

ENVIRONMENTAL FLOUROSILICONE
ELASTOMERS

REFER TO ADDITIONAL CONTACT AND
TOOLING INFORMATION

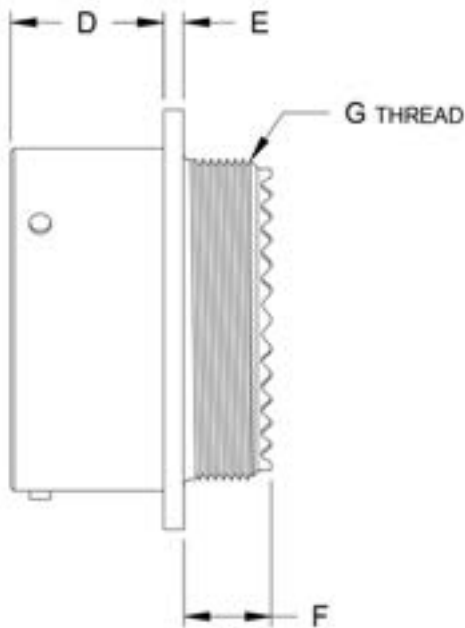
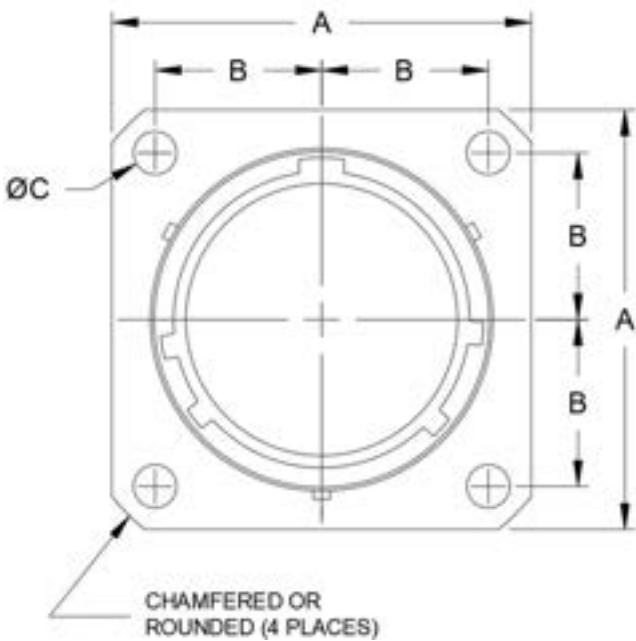
MS27472

MIL-DTL-38999 SERIES II



MIL-DTL-38999

SERIES II



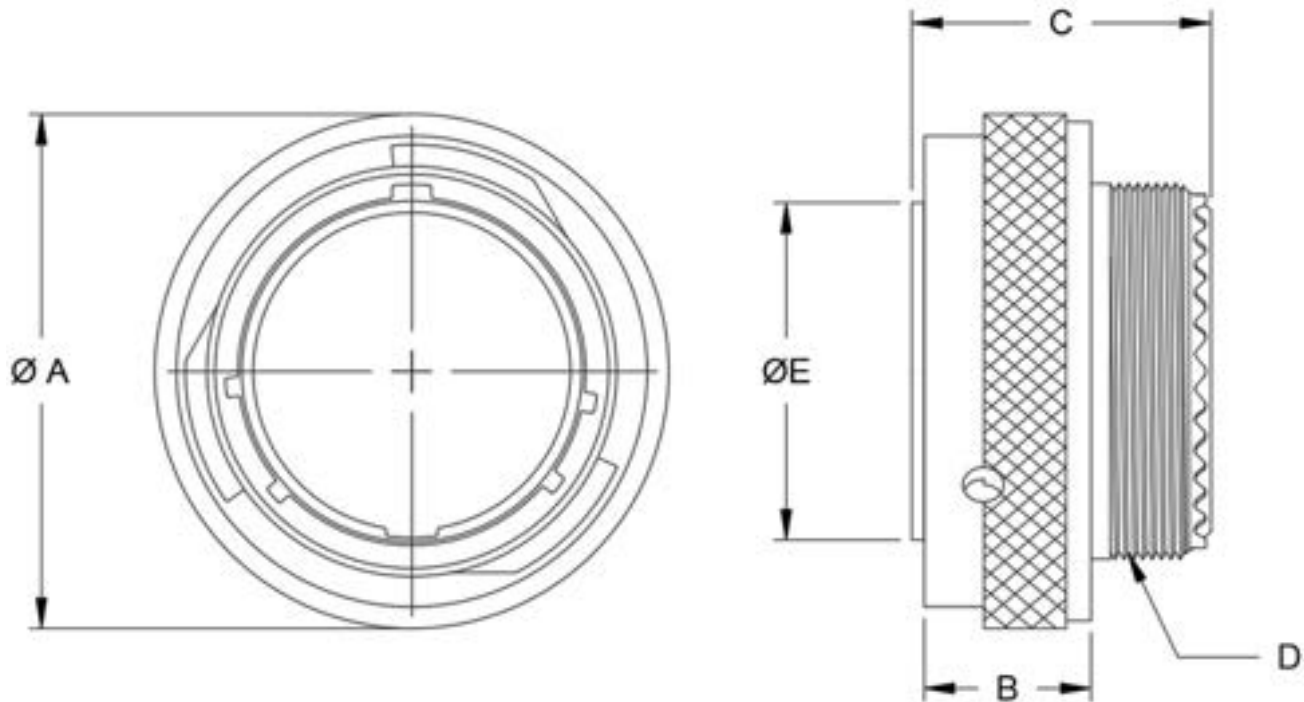
Shell Size	G Thread Class 2 A	A Max.	B	C Dia.	D +.000 -.005	E +.011 -.000	F (Class E) Max.	F (Class P) Max.	F (Class T) Max.
8	.4375-28 UNEF	.828	.297	.120	.322	.058	.562	.641	.391
10	.5625-24 UNEF	.954	.3595	.120	.322	.058	.562	.641	.391
12	.6875-24 UNEF	1.047	.406	.120	.322	.058	.562	.641	.391
14	.8125-20 UNEF	1.141	.453	.120	.322	.058	.562	.641	.391
16	.9375-20 UNEF	1.234	.4845	.120	.322	.058	.562	.641	.391
18	1.0625-18 UNEF	1.328	.531	.120	.322	.058	.562	.641	.391
20	1.1875-18 UNEF	1.453	.578	.120	.322	.058	.562	.641	.391
22	1.3125-18 UNEF	1.578	.625	.120	.322	.058	.562	.641	.391
24	1.4375-18 UNEF	1.703	.6875	.147	.322	.058	.562	.703	.469

MS27473

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



Shell Size	D thread Class 2A	A Dia. +.005 -.006	B $\pm .015$	C (Class E) Max.	C (Class P) Max.	C (Class T) Max.
8	.4375-28 UNEF	.750	.547	1.026	1.020	.766
10	.5625-24 UNEF	.859	.547	1.026	1.020	.766
12	.6875-24 UNEF	1.031	.547	1.026	1.020	.766
14	.8125-20 UNEF	1.156	.547	1.026	1.020	.766
16	.9375-20 UNEF	1.281	.547	1.026	1.020	.766
18	1.0625-18 UNEF	1.406	.547	1.026	1.020	.766
20	1.1875-18 UNEF	1.531	.524	1.026	1.020	.766
22	1.3125-18 UNEF	1.641	.524	1.026	1.020	.766
24	1.4375-18 UNEF	1.766	.575	1.104	1.080	.844

CAGE Code: 1R6R9

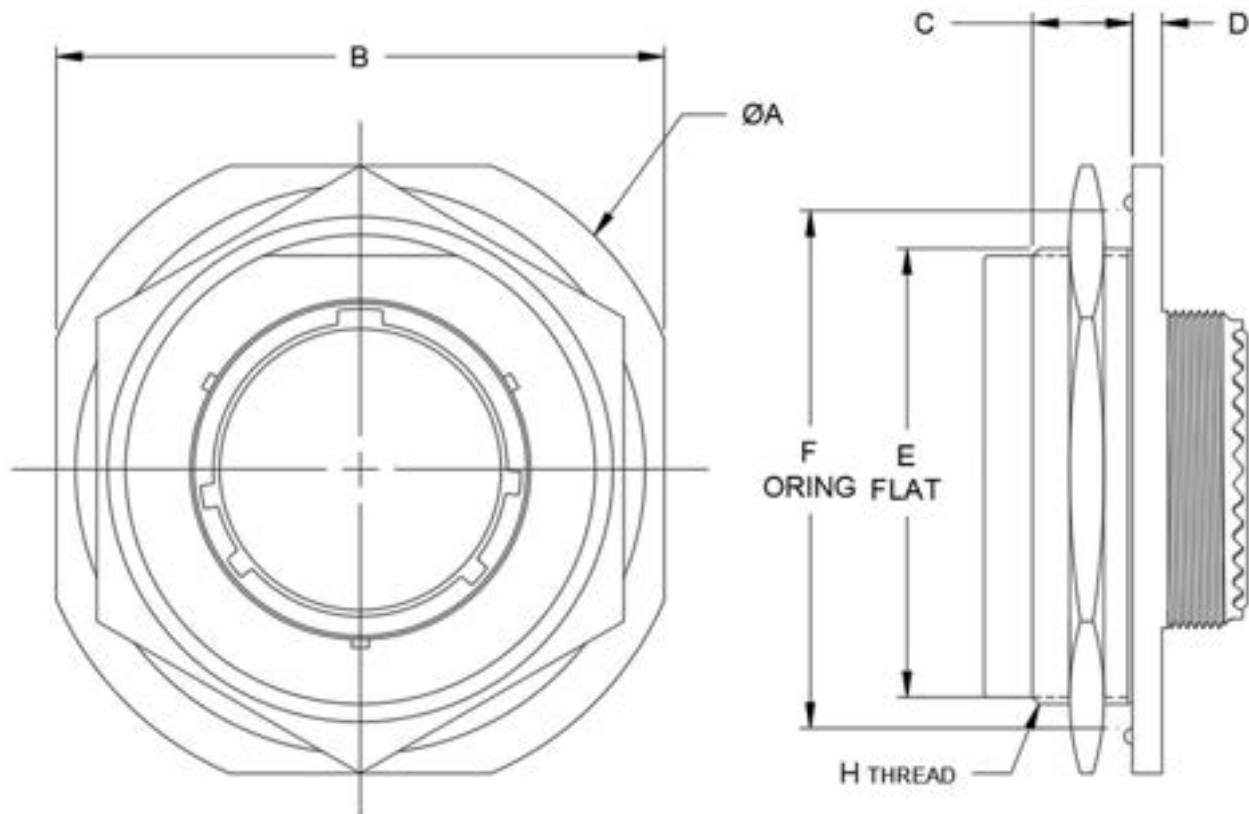
E-Mail: sales@corsairelectricalconnectors.com

MS27474

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



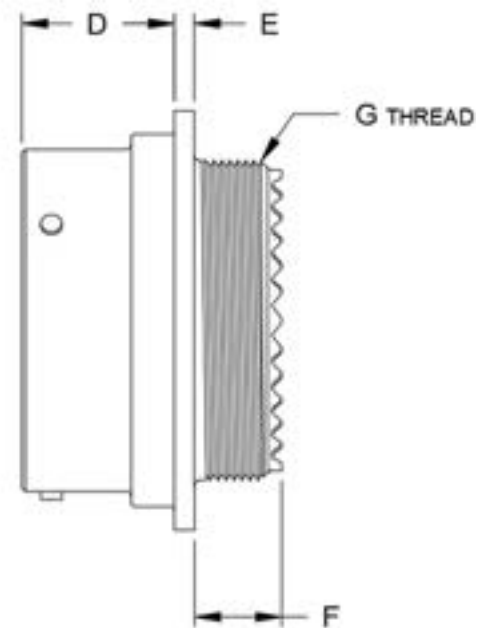
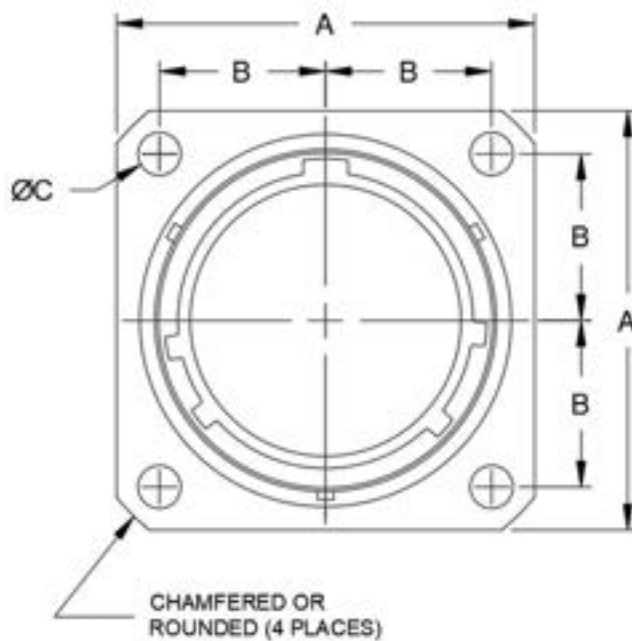
Shell Size	H Thread Class 2A Plated	A Dia. ±.016	B ±.016	C ±.005	D +.011 -.010	E +.001 -.006	F Dia. +.006 -.005
8	.875-20 UNEF	1.375	1.250	.438	.094	.817	.965
10	1.000-20 UNEF	1.500	1.375	.438	.094	.941	1.090
12	1.125-18 UNEF	1.625	1.500	.438	.094	1.065	1.215
14	1.250-18 UNEF	1.750	1.625	.438	.094	1.190	1.340
16	1.375-18 UNEF	1.938	1.781	.438	.094	1.320	1.477
18	1.500-18 UNEF	2.016	1.890	.438	.094	1.440	1.602
20	1.625-18 UNEF	2.141	2.016	.464	.094	1.565	1.727
22	1.750-18 UNS	2.265	2.140	.464	.094	1.690	1.852
24	1.875-18 UN	2.390	2.265	.464	.094	1.815	1.977

MS27479

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



Shell Size	G Thread Class 2 A	A Max.	B	C Dia. +.010 -.005	D +.000 -.005	E +.011 -.000	F (Class E) Max.	F (Class P) Max.	F (Class T) Max.
8	.4375-28 UNEF	.828	.297	.120	.322	.058	.562	.641	.391
10	.5625-24 UNEF	.954	.3595	.120	.322	.058	.562	.641	.391
12	.6875-24 UNEF	1.047	.406	.120	.322	.058	.562	.641	.391
14	.8125-20 UNEF	1.141	.453	.120	.322	.058	.562	.641	.391
16	.9375-20 UNEF	1.234	.4845	.120	.322	.058	.562	.641	.391
18	1.0625-18 UNEF	1.328	.531	.120	.322	.058	.562	.641	.391
20	1.1875-18 UNEF	1.453	.578	.120	.322	.058	.562	.641	.391
22	1.3125-18 UNEF	1.578	.625	.120	.322	.058	.562	.641	.391
24	1.4375-18 UNEF	1.703	.6875	.147	.322	.058	.562	.703	.469

CAGE Code: 1R6R9

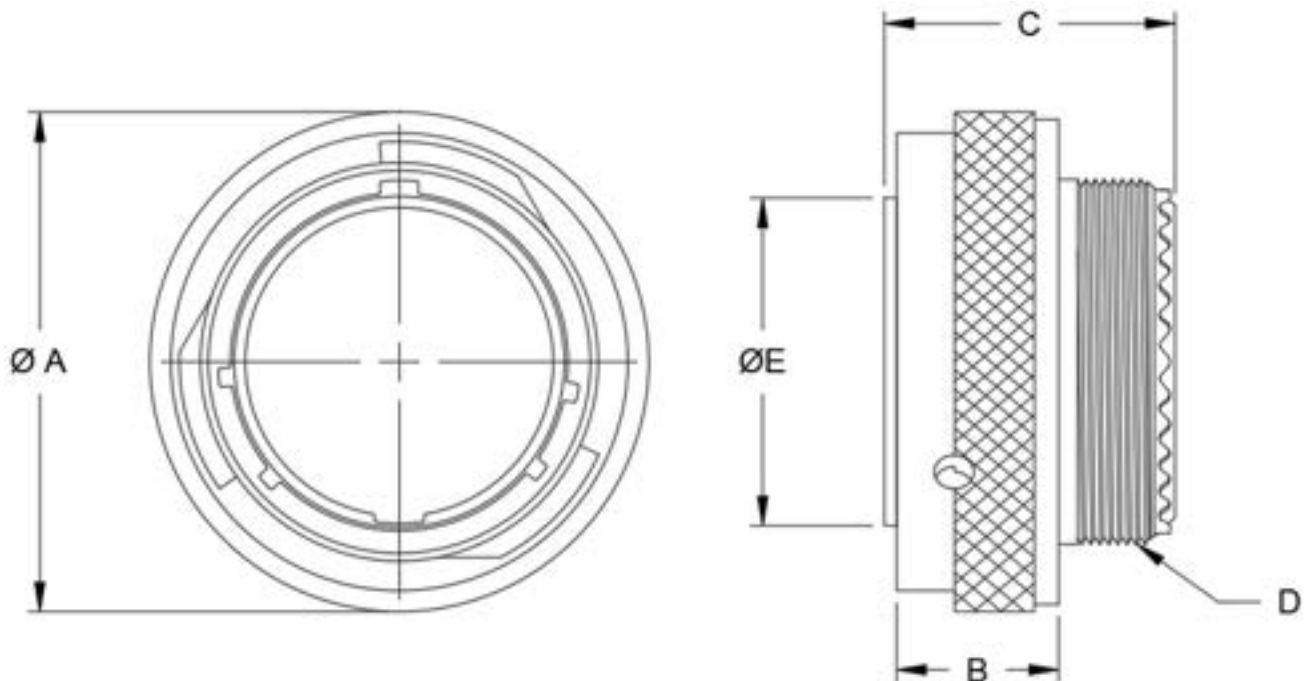
E-Mail: sales@corsairelectricalconnectors.com

MS27484

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



Shell Size	D thread Class 2A	A Dia. +.005 -.006	B $\pm .015$	C (Class E) Max.	C (Class P) Max.	C (Class T) Max.	E Dia. +.007 -.004
8	.4375-28 UNEF	.750	.547	1.016	1.020	.766	.456
10	.5625-24 UNEF	.859	.547	1.016	1.020	.766	.573
12	.6875-24 UNEF	1.031	.547	1.016	1.020	.766	.733
14	.8125-20 UNEF	1.156	.547	1.016	1.020	.766	.858
16	.9375-20 UNEF	1.281	.547	1.016	1.020	.766	.983
18	1.0625-18 UNEF	1.406	.547	1.016	1.020	.766	1.108
20	1.1875-18 UNEF	1.531	.524	1.016	1.020	.766	1.228
22	1.3125-18 UNEF	1.641	.524	1.016	1.020	.766	1.353
24	1.4375-18 UNEF	1.766	.575	1.094	1.080	.844	1.478

CAGE Code: 1R6R9

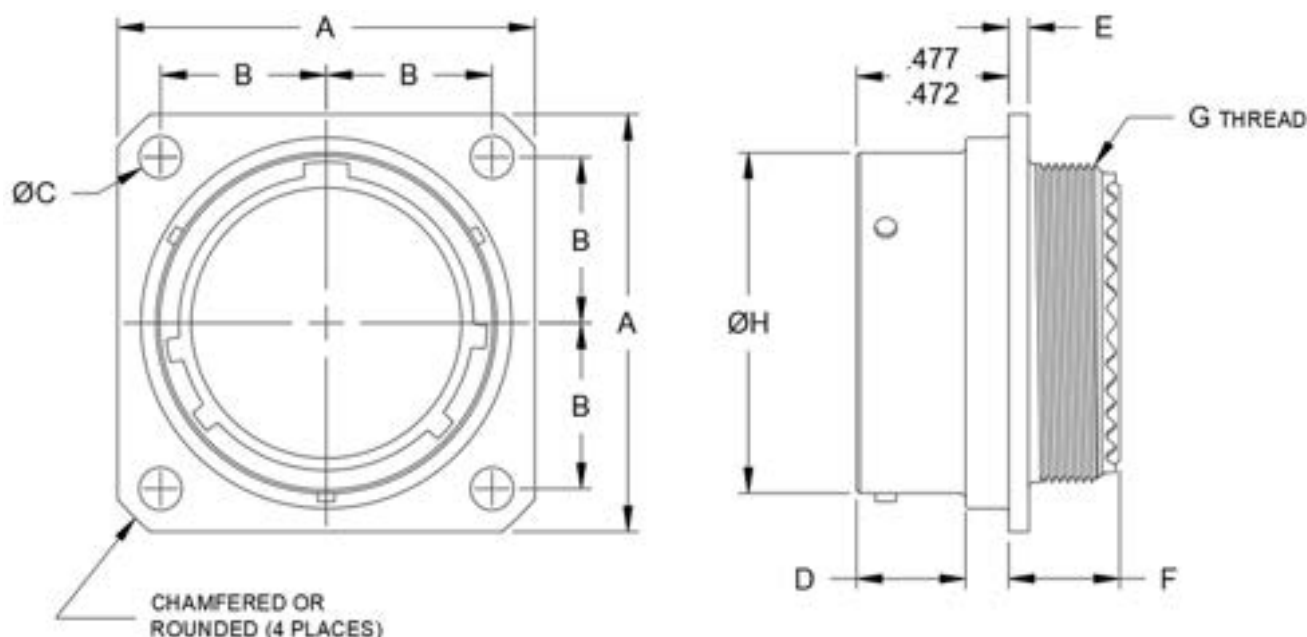
E-Mail: sales@corsairelectricalconnectors.com

MS27497

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



Shell Size	G Thread Class 2 A	A Max.	B	C Dia.	D +.000 -.005	E +.011 -.000	F (Class E) Max.	F (Class P) Max.	F (Class T) Max.	H Dia. Max.
8	.4375-28 UNEF	.828	.297	.120	.322	.058	.562	.641	.391	.547
10	.5625-24 UNEF	.954	.3595	.120	.322	.058	.562	.641	.391	.672
12	.6875-24 UNEF	1.047	.406	.120	.322	.058	.562	.641	.391	.844
14	.8125-20 UNEF	1.141	.453	.120	.322	.058	.562	.641	.391	.969
16	.9375-20 UNEF	1.234	.4845	.120	.322	.058	.562	.641	.391	1.094
18	1.0625-18 UNEF	1.328	.531	.120	.322	.058	.562	.641	.391	1.219
20	1.1875-18 UNEF	1.453	.578	.120	.322	.058	.562	.641	.391	1.344
22	1.3125-18 UNEF	1.578	.625	.120	.322	.058	.562	.641	.391	1.469
24	1.4375-18 UNEF	1.703	.6875	.147	.322	.058	.562	.703	.469	1.594

CAGE Code: 1R6R9

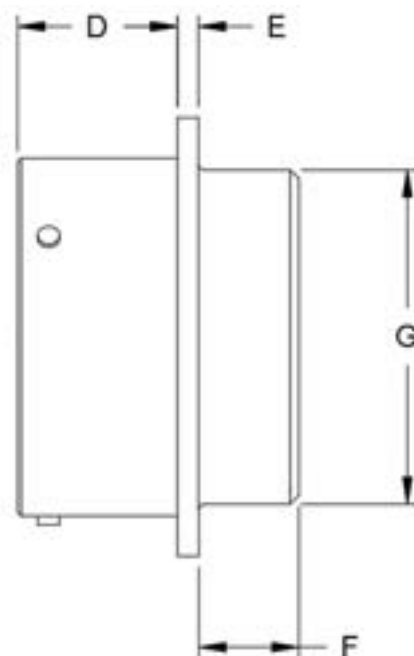
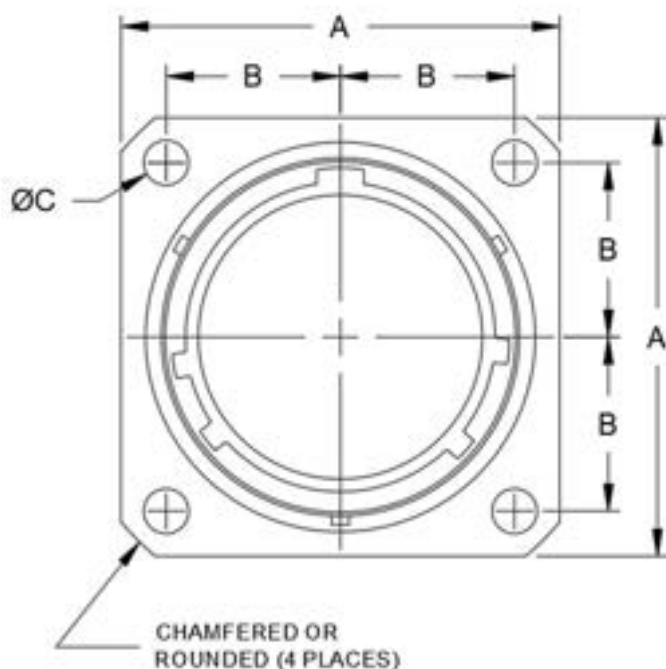
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MS27499

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



Shell Size	A Max.	B	C Dia. +.010 -0.005	D +.000 -.005	E +.011 -.000	F Max.	G Max.
8	.828	.297	.120	.322	.058	.312	.453
10	.954	.3595	.120	.322	.058	.312	.578
12	1.047	.406	.120	.322	.058	.312	.703
14	1.141	.453	.120	.322	.058	.312	.828
16	1.234	.4845	.120	.322	.058	.312	.953
18	1.328	.531	.120	.322	.058	.312	1.062
20	1.453	.578	.120	.322	.058	.312	1.188
22	1.578	.625	.120	.322	.058	.312	1.312
24	1.703	.6875	.147	.322	.058	.312	1.438

CAGE Code: 1R6R9

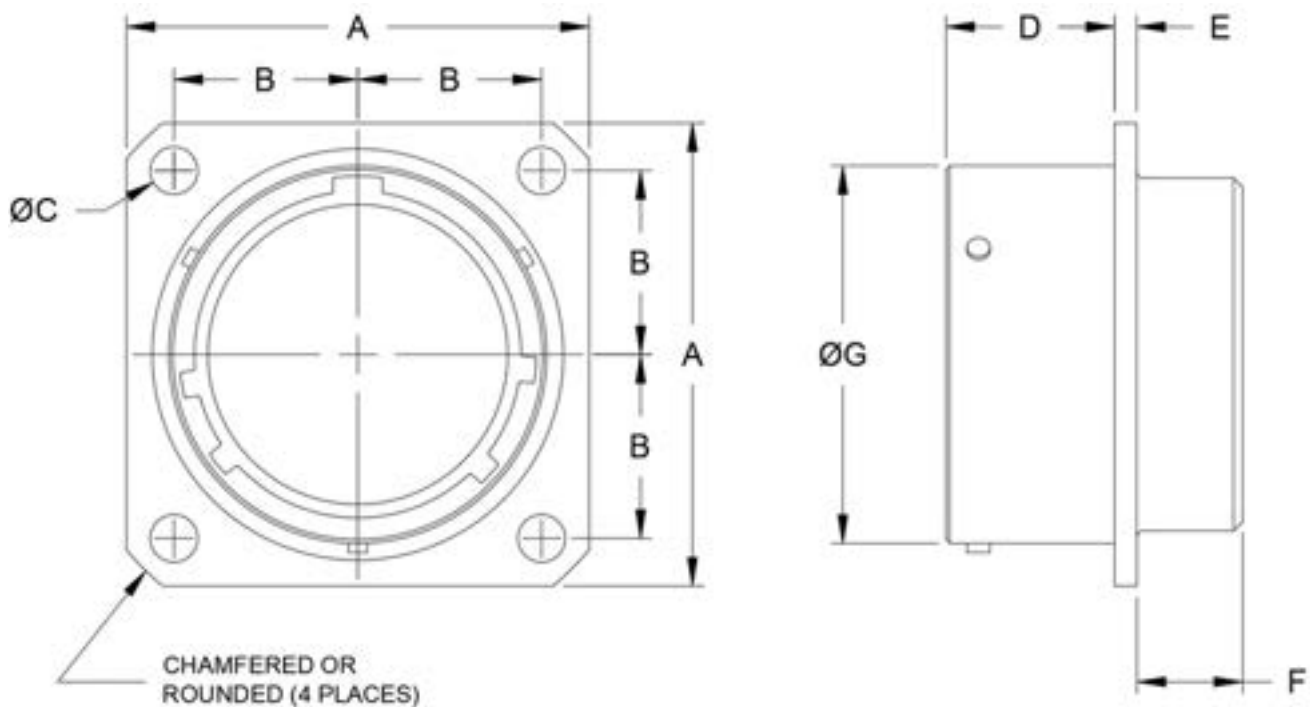
E-Mail: sales@corsairelectricalconnectors.com

MS27504

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



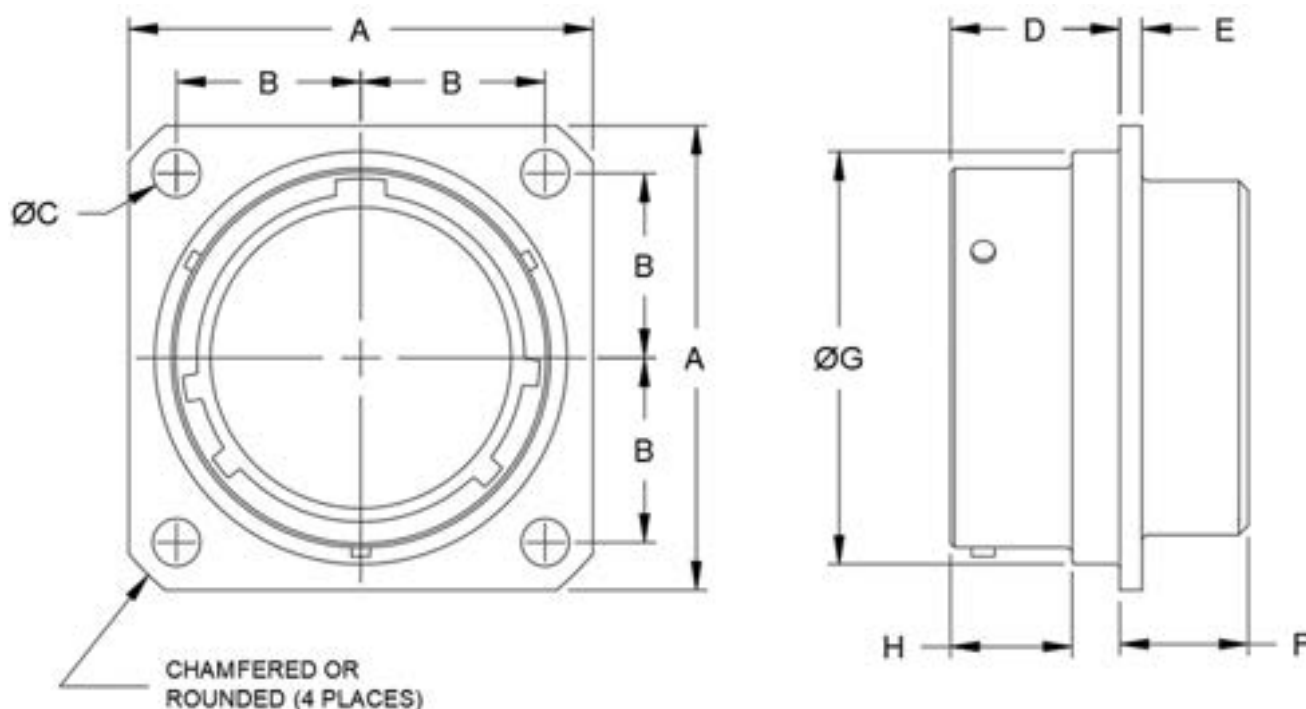
Shell Size	A Max.	B	C Dia. +.010 -0.005	D +.000 -.005	E +.011 -.000	F Max.	G +.001 -.005
8	.828	.297	.120	.322	.058	.312	.473
10	.954	.3595	.120	.322	.058	.312	.590
12	1.047	.406	.120	.322	.058	.312	.750
14	1.141	.453	.120	.322	.058	.312	.875
16	1.234	.4845	.120	.322	.058	.312	1.000
18	1.328	.531	.120	.322	.058	.312	1.125
20	1.453	.578	.120	.322	.058	.312	1.250
22	1.578	.625	.120	.322	.058	.312	1.375
24	1.703	.6875	.147	.322	.058	.312	1.500

MS27508

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



Shell Size	A Max.	B	C Dia. +.010 -0.005	D +.000 -.005	E +.011 -.000	F Max.	G Dia. Max.	H +.000 -.005
8	.828	.297	.120	.447	.058	.250	.547	.322
10	.954	.3595	.120	.447	.058	.250	.672	.322
12	1.047	.406	.120	.447	.058	.250	.844	.322
14	1.141	.453	.120	.447	.058	.250	.969	.322
16	1.234	.4845	.120	.447	.058	.250	1.094	.322
18	1.328	.531	.120	.447	.058	.250	1.219	.322
20	1.453	.578	.120	.447	.058	.250	1.344	.322
22	1.578	.625	.120	.447	.058	.250	1.469	.322
24	1.703	.6875	.147	.447	.058	.250	1.594	.322

CAGE Code: 1R6R9

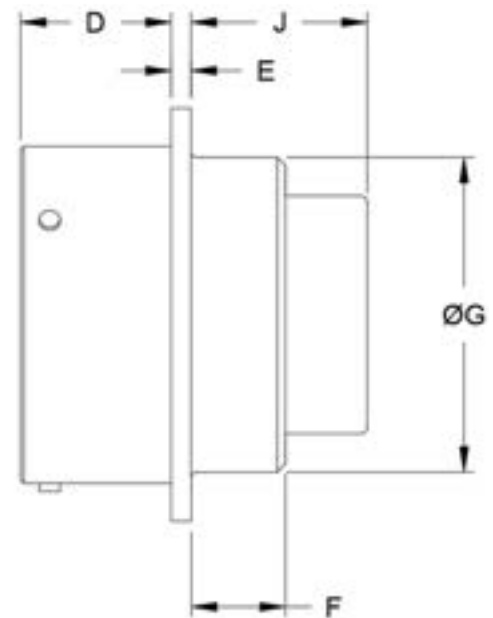
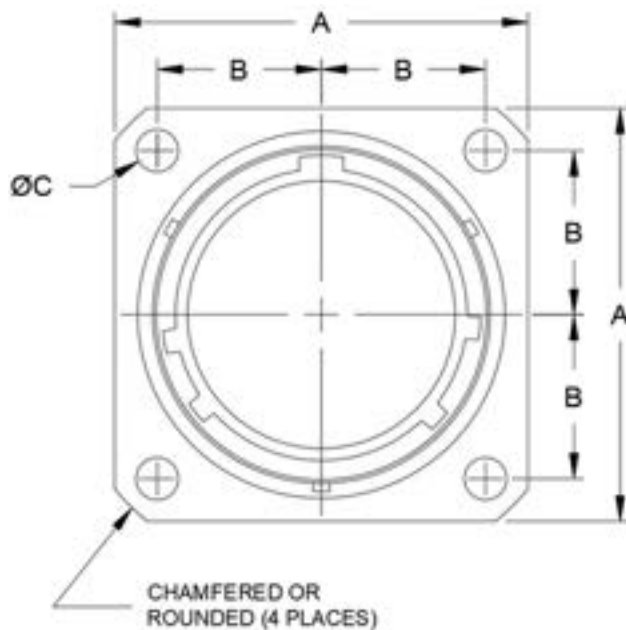
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MS27513

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



Shell Size	A Max.	B	C Dia. +.010 -.005	D +.000 -.005	E +.011 -.000	F Max.	G Dia. Max.	J Max.
8	.828	.297	.120	.322	.058	.312	.453	.516
10	.954	.3595	.120	.322	.058	.312	.578	.516
12	1.047	.406	.120	.322	.058	.312	.703	.516
14	1.141	.453	.120	.322	.058	.312	.828	.516
16	1.234	.4845	.120	.322	.058	.312	.953	.516
18	1.328	.531	.120	.322	.058	.312	1.062	.516
20	1.453	.578	.120	.322	.058	.312	1.188	.516
22	1.578	.625	.120	.322	.058	.312	1.312	.516
24	1.703	.6875	.147	.322	.058	.312	1.438	.516

CAGE Code: 1R6R9

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MIL-DTL-38999

SERIES III



MILITARY PREFIX	D38999/	20	W	B	16	P	A	P25	AD	T
CORSAIR PREFIX	CJ14	20	W	B	16	P	A	P25	AD	T

CONNECTOR CONFIGURATION

D38999/20 (20) RECEPTACLE, WALL MOUNT
D38999/24 (24) RECEPTACLE, JAM NUT MOUNT
D38999/26 (26) PLUG, RFI, STANDARD

CLASS

- C ENVIRONMENTAL RESISTING-NON CONDUCTIVE FINISH
ANODIC -65°C- +200°C(ROHS)
- F ENVIRONMENTAL RESISTING-CONDUCTIVE FINISH
ELECTROLESS NICKEL -65°C- +200°C(ROHS)
- G ENVIRONMENTAL RESISTING-CONDUCTIVE FINISH
ELECTROLESS NICKEL -65°C- +200°C(ROHS), SPACE GRADE
- K ENVIRONMENTAL RESISTING-CORROSION RESISTANT STEEL WITH
FIREWALL BARRIER, PASSIVATED -65°C- +200°C(ROHS)
- F ENVIRONMENTAL RESISTING-CORROSION RESISTANT STEEL WITH
ELECTRODEPOSITED NICKEL -65°C- +200°C(ROHS)
- S ENVIRONMENTAL RESISTING-CORROSION RESISTANT STEEL WITH
ELECTRODEPOSITED NICKEL & FIREWALL BARRIER(ROHS) -65°C- +200°C
- T ENVIRONMENTAL RESISTING-NICKEL FLOUROCARBON POLYMER,
CONDUCTIVE FINISH -65°C- +175°C(ROHS)
- V ENVIRONMENTAL RESISTING-CONDUCTIVE FINISH TIN-ZINC (SnZn)
-65°C +175°C
- W ENVIRONMENTAL RESISTING-CORROSION RESISTANT FINISH
OLIVE DRAB CADMIUM PLATE OVER UNDERPLATE -65°C- +175°C
- Z ENVIRONMENTAL RESISTING-ZINC NICKEL, CONDUCTIVE FINISH
-65°C- +175°C(ROHS)

SHELL SIZE

A(9), B(11), C(13), D(15), E(17), F(19), G(21), H(23), J(25)

INSERT ARRANGEMENT

REFER TO LAYOUT PATTERNS PER MIL-DTL-1560

CONTACT TYPE

P PIN H PIN 1500-CYCLE CONTACT
S SOCKET J SOCKET 1500-CYCLE CONTACT
A CONNECTOR LESS PINS
B CONNECTOR LESS SOCKETS

POLARIZATION

N NORMAL (NOT INCLUDED IN PART NUMBER)

PCB LENGTH

P15 (PIN W/.15 CONTACT PROTRUSION)	S15 (PIN W/.15 CONTACT PROTRUSION)
P25 (PIN W/.25 CONTACT PROTRUSION)	S25 (PIN W/.25 CONTACT PROTRUSION)
P35 (PIN W/.35 CONTACT PROTRUSION)	S35 (PIN W/.35 CONTACT PROTRUSION)

ALIGNMENT DISK OPTION

ADD "AD"

TIN OPTION

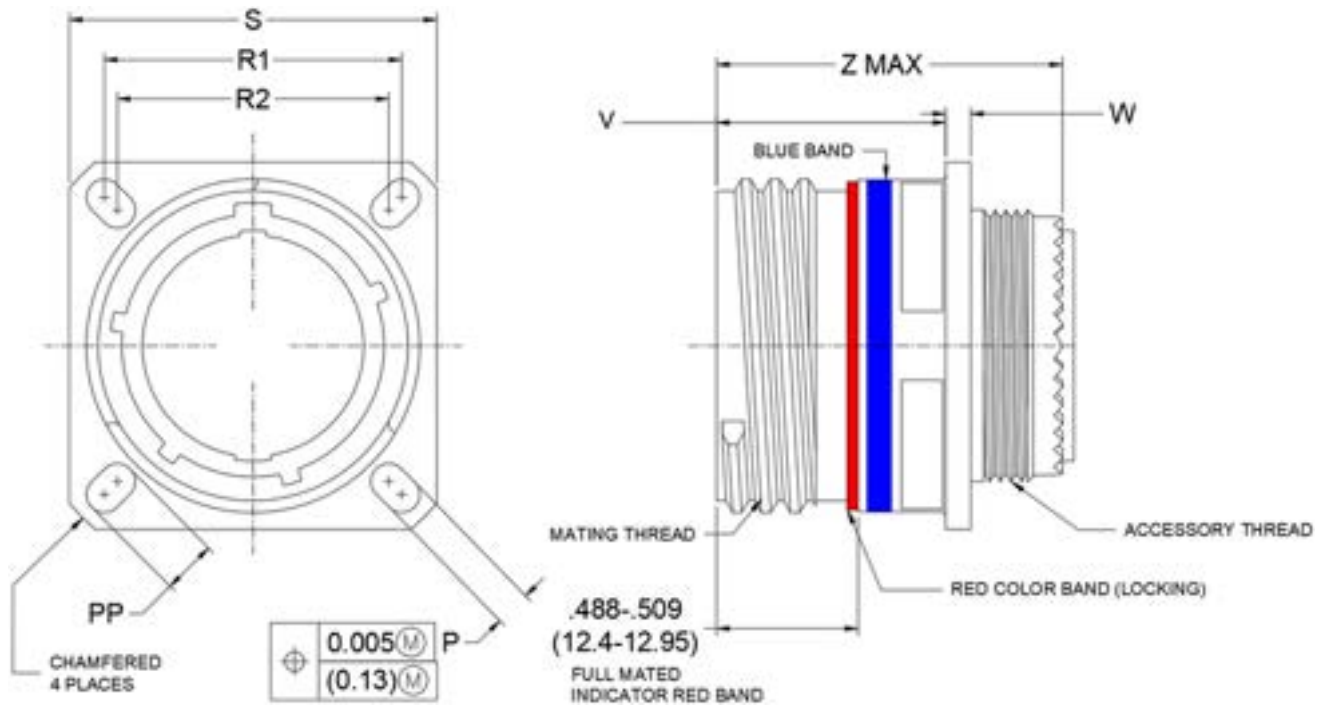
ADD "T" FOR SN62 SOLDER DIP

D38999/20

MIL-DTL-38999 SERIES III



MIL-DTL-38999
SERIES III



SHELL SIZE	SHELL SIZE CODE	M Max front or rear panel thickness (See note 4.C)	P ±0.20	PP ±0.20	R1 (See note 4.A)	R2 (See note 4.B)	S ±0.3	V +0.00 -1.25	W	Z MAX
9	A	.228 (5.80)	0.128 (3.25)	.216 (5.49)	.719 (18.26)	.594 (15.09)	.937 (23.8)	.820 (20.83)	.098/.083 (2.5/2.1)	1.240 (31.5)
11	B		0.128 (3.25)	.194 (4.93)	20.62 (.812)	.719 (18.26)	1.031 (26.2)	.820 (20.83)	.098/.083 (2.5/2.1)	1.240 (31.5)
13	C		0.128 (3.25)	.194 (4.93)	23.01 (.906)	.812 (20.62)	1.126 (28.6)	.820 (20.83)	.098/.083 (2.5/2.1)	1.240 (31.5)
15	D		0.128 (3.25)	.173 (4.39)	24.61 (.969)	.906 (23.01)	1.220 (31.0)	.820 (20.83)	.098/.083 (2.5/2.1)	1.240 (31.5)
17	E		0.128 (3.25)	.194 (4.93)	1.062 (26.97)	.969 (24.61)	1.311 (33.3)	.820 (20.83)	.098/.083 (2.5/2.1)	1.240 (31.5)
19	F		0.128 (3.25)	.194 (4.93)	1.156 (29.36)	26.97 (1.062)	1.437 (36.5)	.820 (20.83)	.098/.083 (2.5/2.1)	1.240 (31.5)
21	G	.197 (5.00)	0.128 (3.25)	.194 (4.93)	1.250 (31.75)	1.156 (29.36)	1.563 (39.7)	.790 (20.07)	0.126/.083 (3.2/2.1)	1.240 (31.5)
23	H		.154 (3.91)	.242 (6.15)	1.375 (34.93)	1.250 (31.75)	1.689 (42.9)	.790 (20.07)	0.126/.083 (3.2/2.1)	1.240 (31.5)
25	J		.154 (3.91)	.242 (6.15)	1.500 (38.10)	1.375 (34.93)	1.811 (46.0)	.790 (20.07)	0.126/.083 (3.2/2.1)	1.240 (31.5)

CAGE Code: 1R6R9

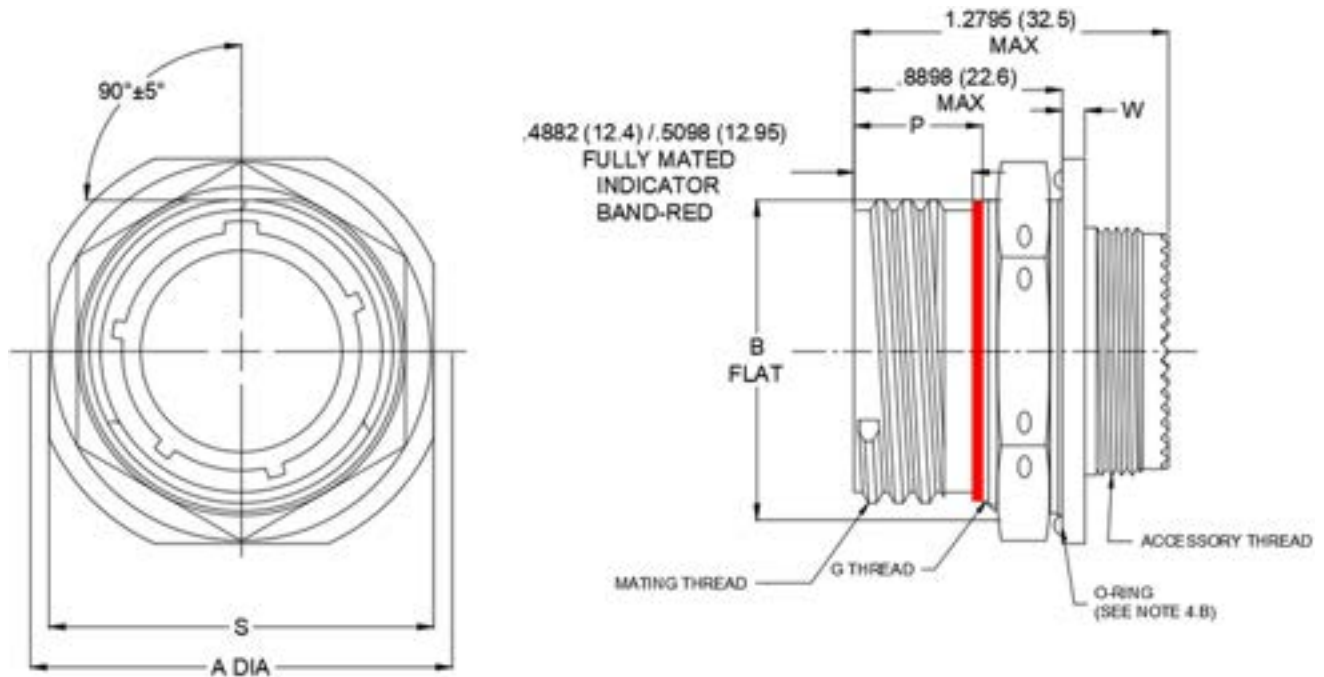
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D38999/24

MIL-DTL-38999 SERIES III



MIL-DTL-38999
SERIES III



SHELL SIZE	SHELL SIZE CODE	A DIA ±0.012	B FLAT +0.10 -0.15	G THREAD	P +0.6 -0.0	S ±0.04	W +0.035 -0.004	Recommended O-ring SAE-AS3582 (see note 4.D)
9	A	1.189 (30.2)	.651 (16.53)	M17x1-6g 0.100R	.555 (14.1)	1.063 (27.0)	.087 (2.2)	-019
11	B	1.374 (34.9)	.751 (19.07)	M20x1-6g 0.100R	.555 (14.1)	1.252 (31.8)	.087 (2.2)	-022
13	C	1.500 (38.1)	.938 (23.82)	M25x1-6g 0.100R	.555 (14.1)	1.374 (34.9)	.087 (2.2)	-024
15	D	1.626 (41.3)	1.062 (26.97)	M28x1-6g 0.100R	.555 (14.1)	1.500 (38.1)	.087 (2.2)	-026
17	E	1.752 (44.5)	1.187 (30.15)	M32x1-6g 0.100R (see note 4.B)	.555 (14.1)	1.626 (41.3)	.087 (2.2)	-028
19	F	1.937 (49.2)	1.312 (33.32)	M35x1-6g 0.100R	.555 (14.1)	1.811 (46.0)	.118 (3.0)	-128
21	G	2.063 (52.4)	1.437 (36.50)	M38x1-6g 0.100R	.555 (14.1)	1.937 (49.2)	.118 (3.0)	-130
23	H	2.189 (55.6)	1.562 (39.67)	M41x1-6g 0.100R	.555 (14.1)	2.063 (52.4)	.118 (3.0)	-132
25	J	2.311 (58.7)	1.687 (42.85)	M44x1-6g 0.100R	.555 (14.1)	2.189 (55.6)	.118 (3.0)	-134

CAGE Code: 1R6R9

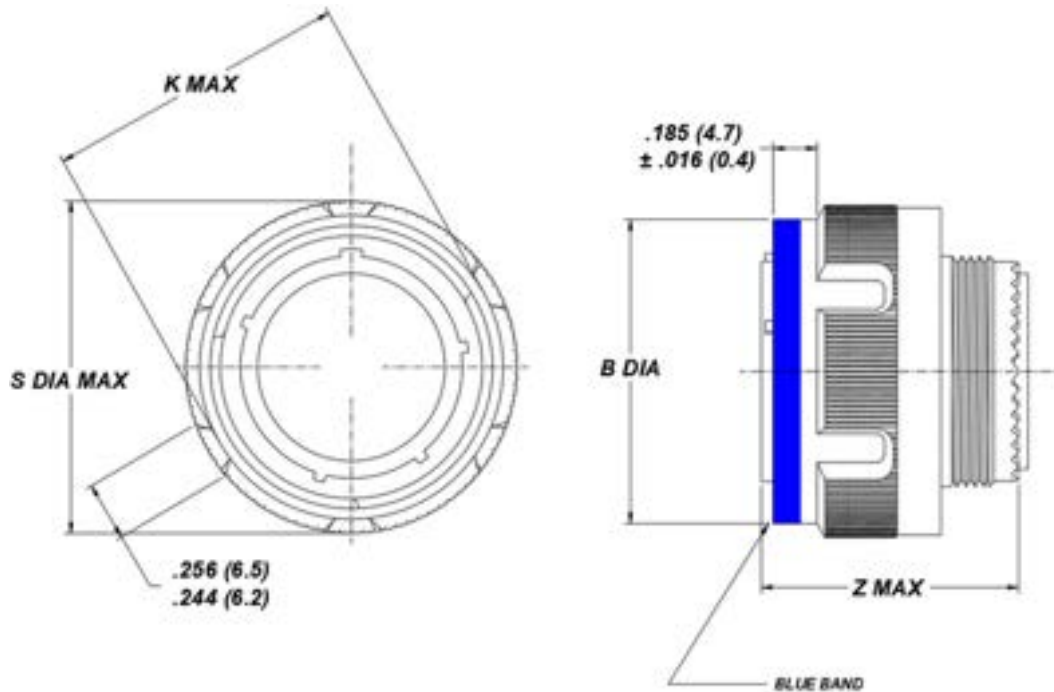
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D38999/26

MIL-DTL-38999 SERIES III



MIL-DTL-38999
SERIES III



SHELL SIZE	SHELL SIZE CODE	B DIA +.008 (.2) -0.0	K MAX	S DIA MAX	Z MAX
9	A	.724 (18.4)	.748 (19.0)	.858 (21.8)	1.220 (31.0)
11	B	.830 (21.1)	.862 (21.9)	.984 (25.0)	1.220 (31.0)
13	C	25.4 (.999)	1.03 (26.1)	1.157 (29.4)	1.220 (31.0)
15	D	1.129 (28.7)	1.15 (29.3)	1.27 (32.5)	1.220 (31.0)
17	E	1.26 (32.2)	1.29 (32.8)	1.40 (35.7)	1.220 (31.0)
19	F	1.49 (34.9)	1.39 (35.5)	1.51 (38.5)	1.220 (31.0)
21	G	1.49 (38.1)	1.52 (38.7)	1.64 (41.7)	1.220 (31.0)
23	H	1.61 (41.1)	1.64 (41.7)	1.76 (44.9)	1.220 (31.0)
25	J	1.74 (44.3)	1.76 (44.9)	1.88 (48.0)	1.220 (31.0)

CAGE Code: 1R6R9

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MIL-DTL-D38999

INSERT ARRANGEMENTS

SERIES I,II,III



MIL-DTL-38999
INSERT ARRANGEMENTS

Shell Size	Insert Arrangement					Contact Size								Notes
	Series I	Series II	Series III	Service Rating	Total # of Contacts	22D	22M	22	20	16	12	10	8	
8 & 9	9-6	8-6	A-6	M	6		6							
	9-7	N/A	A-7	M	7	7								
	9-35	8-35	A-35	M	6	6								
	9-44	8-44	A-44	M	4			4						
	9-98	8-98	A-98	I	3				3					
10 & 11	11-2	N/A	B-2	I	2					2				
	11-4	N/A	B-4	I	4				4					
	11-5	10-5	B-5	I	5				5					
	11-13	10-13	B-13	M	13		13							
	11-35	10-35	B-35	M	13	13								
	11-98	10-98	B-98	I	6				6					
	11-99	10-99	B-99	I	7				7					
12 & 13	N/A	12-3	N/A	II	3					3				
	13-4	12-4	C-4	I	4					4				
	13-8	12-8	C-8	I	8				8					
	13-22	12-22	C-22	M	22		22							
	13-35	12-35	C-35	M	22	22								
	13-98	12-98	C-98	I	10				10					
14 & 15	15-5	14-5	D-5	II	5					5				
	15-15	14-15	D-15	I	15				14	1				
	15-18	14-18	D18	I	18				18					
	15-19	N/A	D-19	I	19				19					
	15-35	14-35	D-35	M	37	37								
	15-37	14-37	D-37	M	37		37							
	15-97	14-97	D-97	I	12				8	4				
16 & 17	17-2	N/A	E-2	M	39	38							1	①②
	17-6	16-6	E-6	I	6						6			
	N/A	16-7	N/A	II							6			
	17-8	16-8	E-8	II	8					8				
	17-11	N/A	E-11	N	11				8		3			①
	17-26	16-26	E-26	I	26				26					
	17-35	16-35	E-35	M	55	55								
	N/A	16-42	N/A	M	42			42						
	17-55	16-55	E-55	M	55		55							
	17-99	16-99	E-99	I	23				21	2				

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MIL-DTL-D38999

INSERT ARRANGEMENTS

SERIES I,II,III



MIL-DTL-38999
INSERT ARRANGEMENTS

Shell Size	Insert Arrangement					Contact Size								Notes
	Series I	Series II	Series III	Service Rating	Total # of Contacts	22D	22M	22	20	16	12	10	8	
18 & 19	19-11	18-11	F-11	II	11					11				
	19-18	N/A	F-18	M	18	14							4	①②
	19-28	18-28	F-28	I	28				26	2				
	19-30	18-30	F-30	I	30				29	1				
	19-32	18-32	F-32	I	32				32					
	19-35	18-35	F-35	M	66	66								
	19-45	18-45	F-45	M	67	67								
	N/A	18-53	N/A	M	53			53						
	19-66	18-66	F-66	M	66		66							
	19-67	18-67	F-67	M	67		67							
20 & 21	N/A	18-96	N/A	I	9						9			
	21-1	20-1	G-1	M	79		79							
	N/A	20-2	N/A	M	65			65						
	21-11	N/A	G-11	I	11						11			
	21-16	20-16	G-16	II	16					16				
	21-24	20-24	G-24	I	24				24					
	21-25	20-25	G-25	I	25				25					
	21-27	20-27	G-27	I	27				27					
	21-35	20-35	G-35	M	79	79								
	21-39	20-39	G-39	I	39				37	2				
22 & 23	21-41	20-41	G-41	I	41				41					
	21-75	N/A	G-75	TWINAX	4								4	
	23-1	22-1	H-1	M	100		100							
	23-2	22-2	H-2	M	85			85						
	23-21	22-21	H-21	II	21					21				
	23-32	22-32	H-32	I	32				32					
	23-34	22-34	H-34	I	34				34					
	23-35	22-35	H-35	M	100	100								
	23-36	22-36	H-36	I	36				36					
	23-53	22-53	H-53	I	53				53					
	23-55	22-55	H-55	I	55				55					
	23-97	22-97	H-97	I	16					16				
	23-99	22-99	H-99	II	11					11				

MIL-DTL-D38999

INSERT ARRANGEMENTS

SERIES I,II,III



MIL-DTL-38999
INSERT ARRANGEMENTS

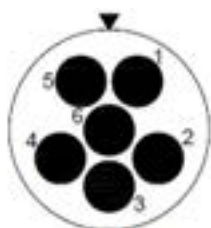
Shell Size	Insert Arrangement					Contact Size								Notes
	Series I	Series II	Series III	Service Rating	Total # of Contacts	22D	22M	22	20	16	12	10	8	
24 & 25	25-1	24-1	J-1	M	128		128							
	25-2	24-2	J-2	M	100			100						
	25-4	24-4	J-4	I	56				48	8				
	25-7	N/A	J-7	M	99	97							2	① ②
	25-8	N/A	J-8	TWINAX	8								8	②
	25-11	N/A	J-11	N	11				2			9		
	25-19	24-19	J-19	I	19						19			
	25-20	N/A	J-20	N	30				10	13		4	3	① ②
	25-24	24-24	J-24	I	24					12	12			
	25-29	24-29	J-29	I	29					29				
	25-35	24-35	J-35	M	128	128								
	25-37	N/A	J-37	II	37					37				
	25-43	N/A	J-43	I	43				23	20				
	25-46	N/A	J-46	I	46				40	4			2	① ②
	25-61	24-61	J-61	I	61				61					
	25-90	N/A	J-90	I	46				40	4			2	① ②

①	Split Service Rating
②	The use of Size 8 SAE-AS39029/90 and 91 Twinax contacts may derate the Connector with this Insert Arrangement and will require efforts to reduce the splaying of the Contacts. Heat shrink sleeves used with the Size 8 Twinax contacts are rated to 175° C (347° F) maximum.

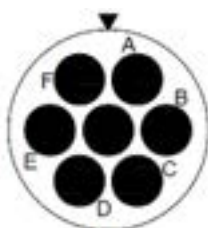
MIL-DTL-D38999

INSERT ARRANGEMENTS

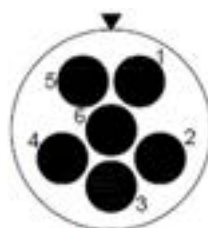
SERIES I,II,III



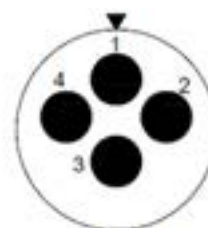
9-6 / 8-6
A6,
6 #22M, M



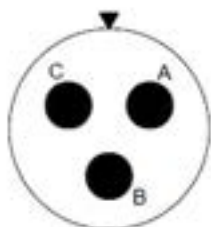
9-7
A7,
7 #22D, M



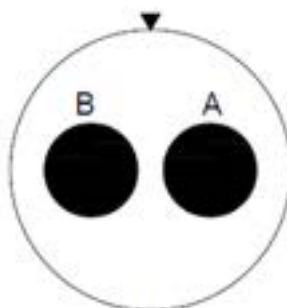
9-35 / 8-35
A35,
6 #22D, M



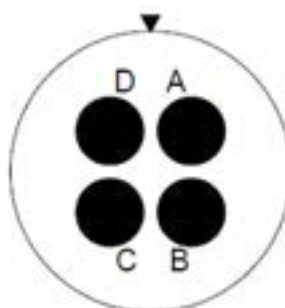
9-44 / 8-44
A44,
4 #22, M



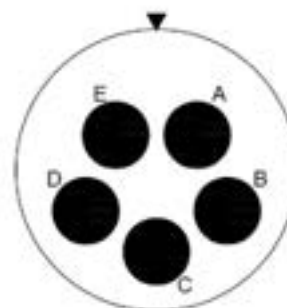
9-98 / 8-98
A98,
3 #20, I



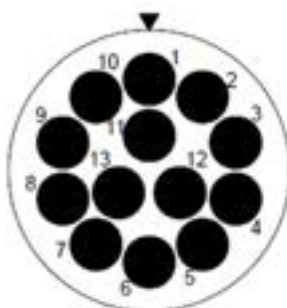
11-2
B2,
2 #16, I



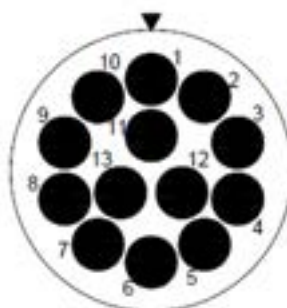
11-4
B4,
4 #20, I



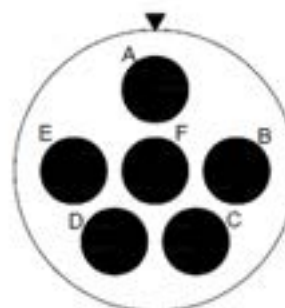
11-5/10-5
B4,
5 #20, I



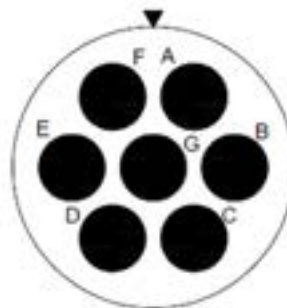
11-13/10-13
B13,
13 #22M, M



11-35/10-35
B35,
13 #22D, M



11-98/10-98
B98,
6 #20, I



11-99/10-99
B99,
7 #20, I

CONTACT
SIZE LEGEND:



SIZE 22D



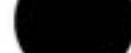
SIZE 20



SIZE 16



SIZE 12

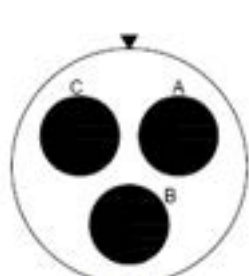


SIZE 8

MIL-DTL-D38999

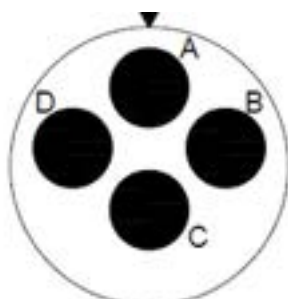
INSERT ARRANGEMENTS

SERIES I,II,III

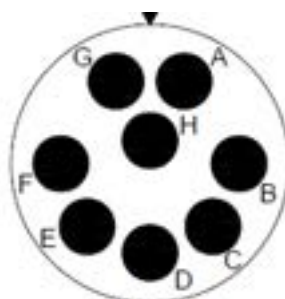


12-3

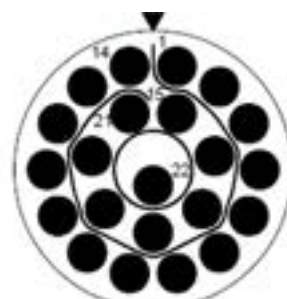
3 #16, II



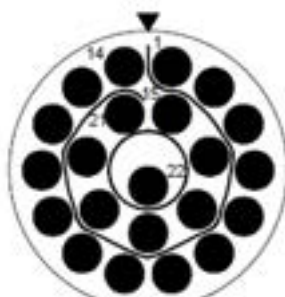
13-4/12-4
C4,
4 #16, I



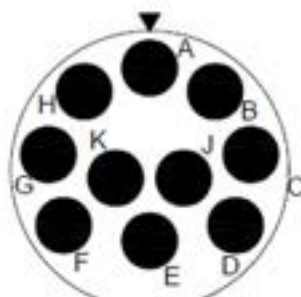
13-8/12-8
C8,
4 #20, I



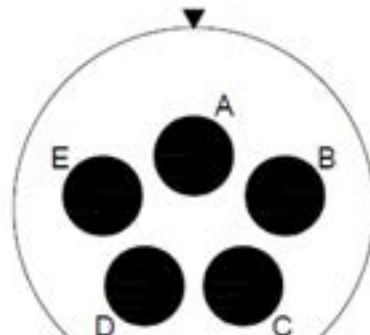
13-22/12-22
C22,
22 #22M, M



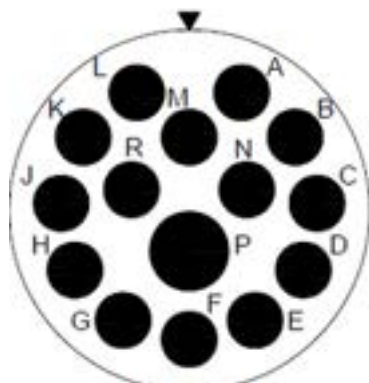
13-35/12-35
C35,
22 #22D, M



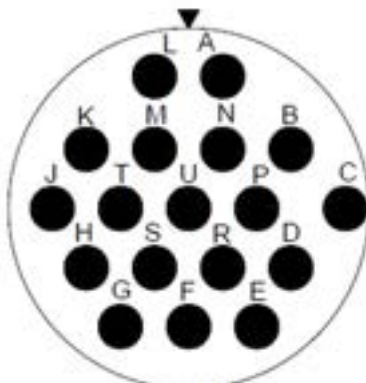
13-98/12-98
C98,
10 #20, I



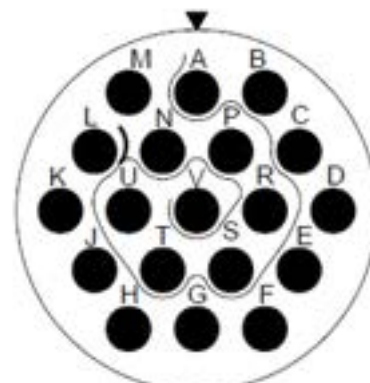
15-5/14-5
D5,
5 #16, II



15-15/14-15
D15,
1 #16, 14 #20, I



15-18/14-18
D18,
18 #20, I



15-19
D19,
19 #20, I

CONTACT
SIZE LEGEND:



SIZE 22D



SIZE 20



SIZE 16



SIZE 12

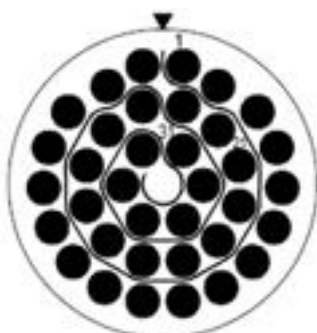


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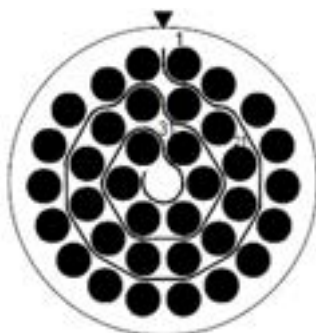
MIL-DTL-D38999

INSERT ARRANGEMENTS

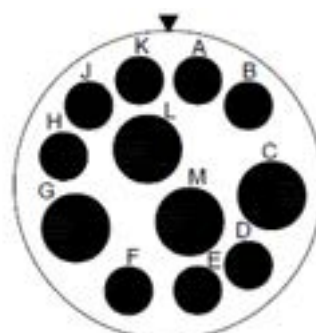
SERIES I,II,III



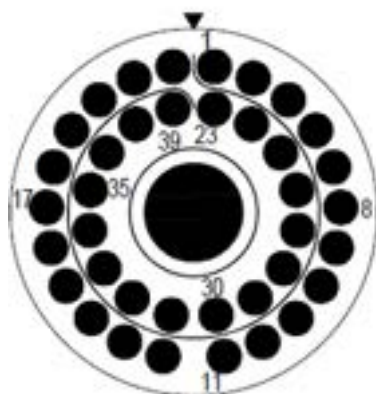
15-35/14-35
D35,
37 #22D, M



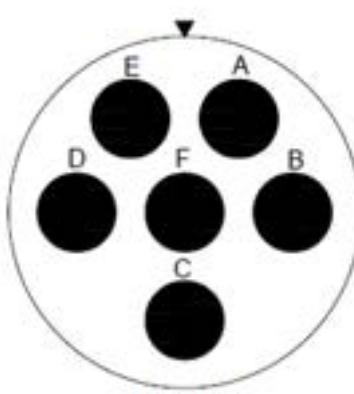
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D37,
37 #22M, M



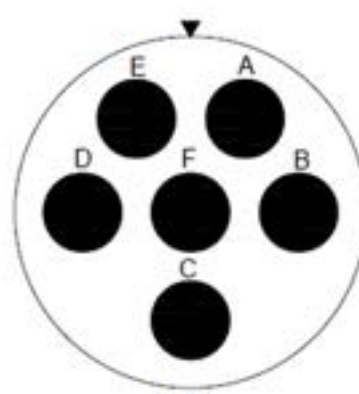
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D97,
4 #16, 8 #20, I



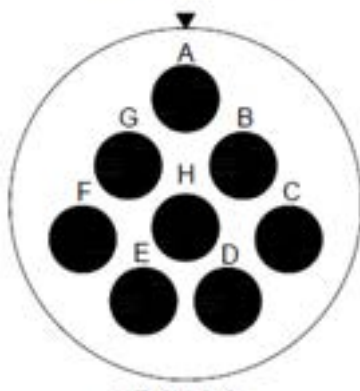
17-2
E2,
38 #22D, I 1 #8 TWINAX



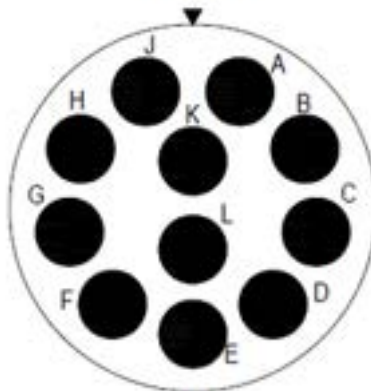
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E6,
6 #12, I



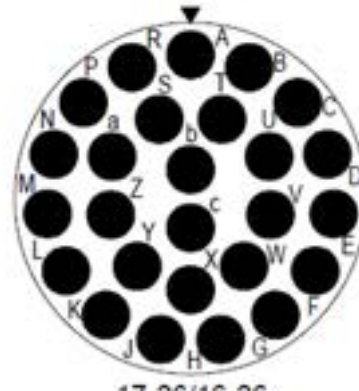
16-7
6 #12, II



17-8/16-8
E8,
8 #16, II



17-11
E11,
1 #12 COAX, 2 #12
TWINAX, 8 #20 N



17-26/16-26
E26,
26 #20, I

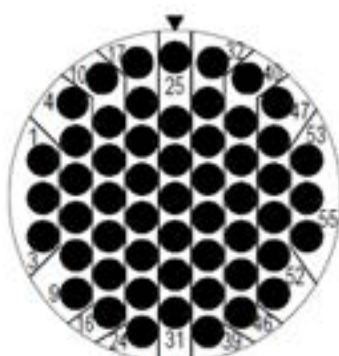
CONTACT
SIZE LEGEND:



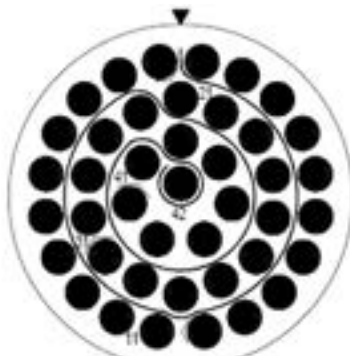
MIL-DTL-D38999

INSERT ARRANGEMENTS

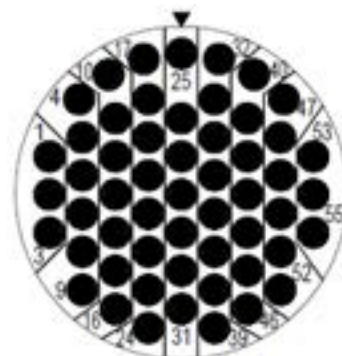
SERIES I,II,III



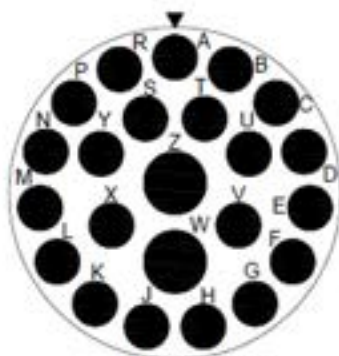
17-35/16-35
E35,
55 #22D, M



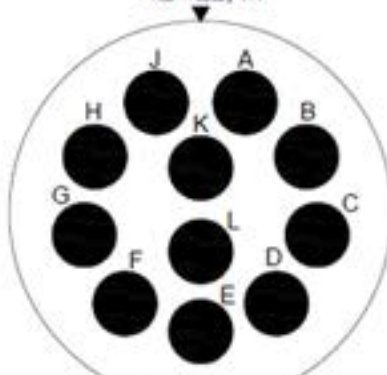
16-42
42 #22, M



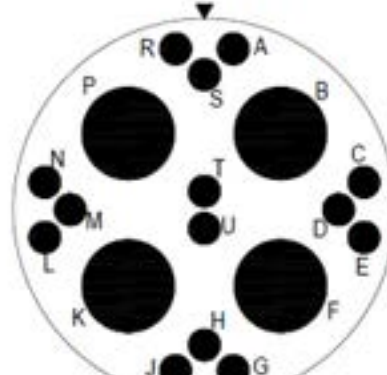
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E55,
55 #22M, M



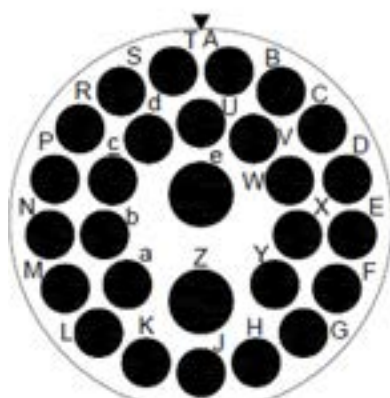
17-99/16-99
E99,
2 #16, 21 #20, I



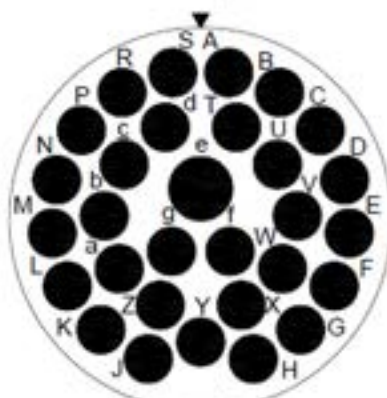
19-11/18-11
F11,
11 #16, II



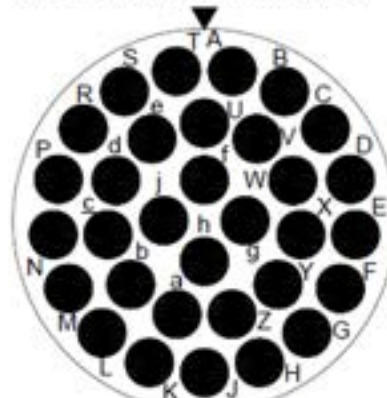
19-18
F18,
4 #8, TWINAX, 14, #22D M



19-28/18-28
F28,
2 #16, 26 #20, I



19-30/18-30
F30,
1 #16, 29 #20, I



19-32/18-32
F32,
32 #20, I

CONTACT
SIZE LEGEND:



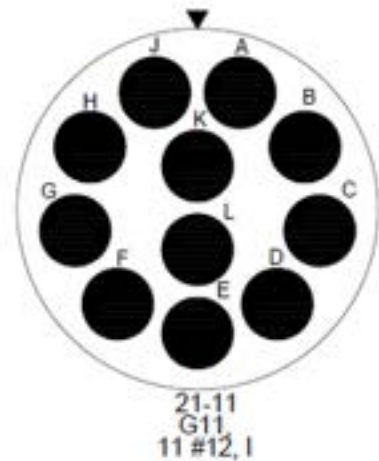
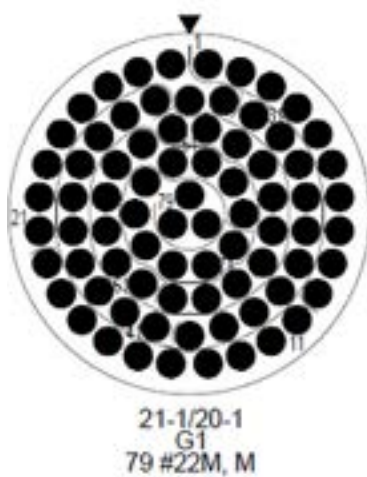
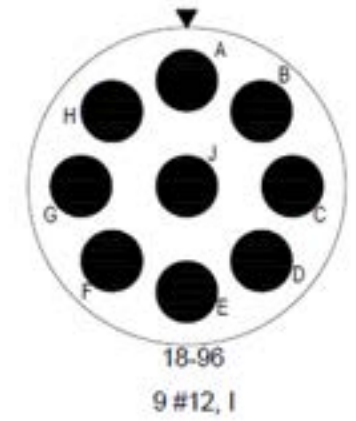
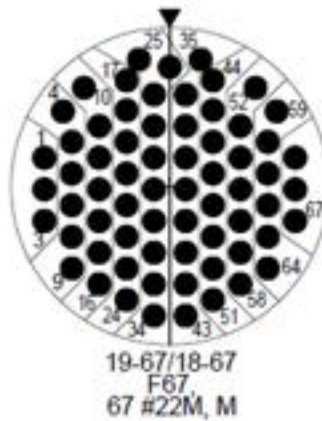
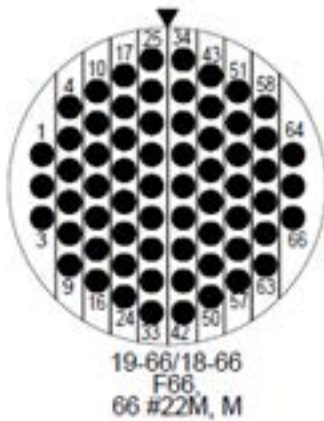
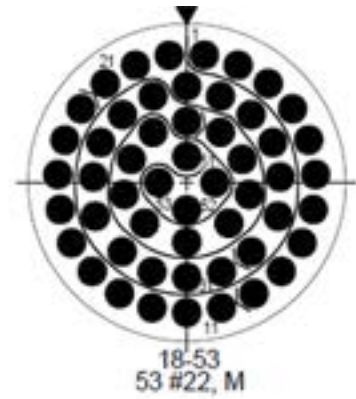
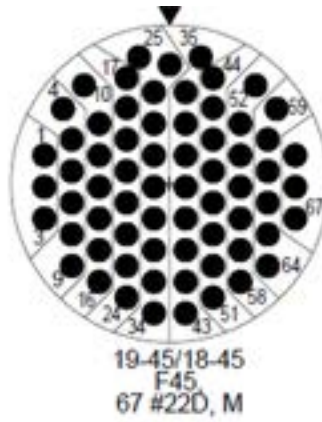
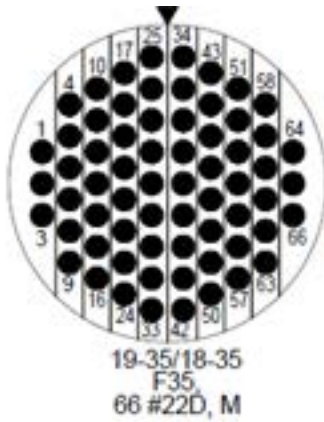
MIL-DTL-D38999

INSERT ARRANGEMENTS

SERIES I,II,III



MIL-DTL-38999
INSERT ARRANGEMENTS



CONTACT
SIZE LEGEND:



SIZE 22D



SIZE 20



SIZE 16



SIZE 12

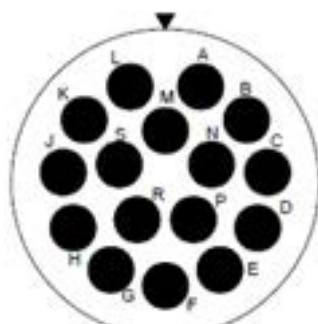


SIZE 8

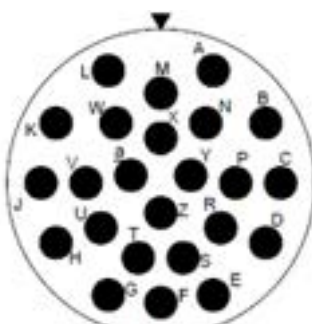
MIL-DTL-D38999

INSERT ARRANGEMENTS

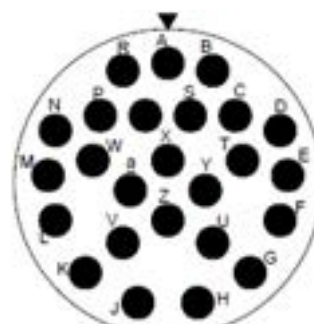
SERIES I,II,III



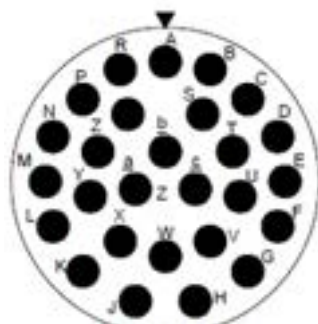
21-16/20-16
G16
16 #16, II



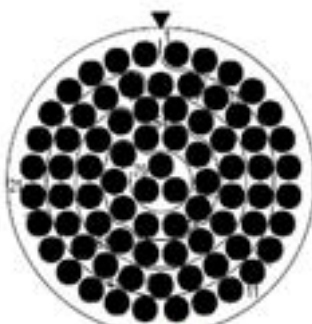
21-24/20-24
F24
24 #20, I



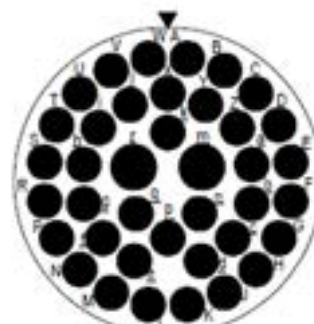
21-25/20-25
F25
25 #20, I



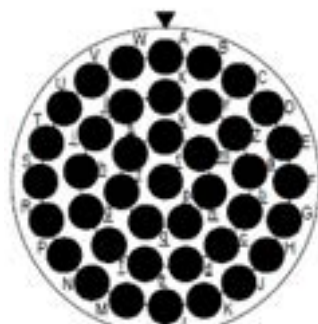
21-27/20-27
F27
27 #20, I



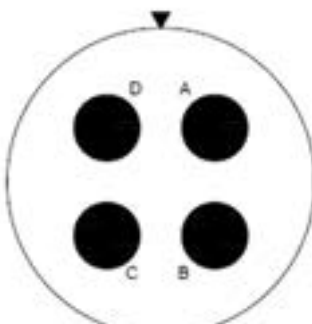
21-35/20-35
G35
79 #22D, M



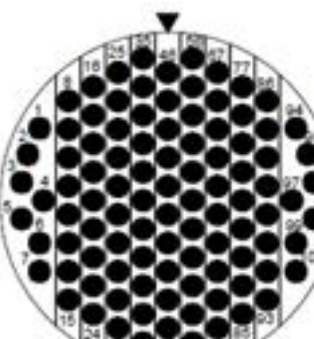
21-39/20-39
G39
2 #16, 37 #20, I



21-41/20-41
G41
41 #20, I



21-75
G75
4 #8 TWINAX



23-1/22-1
H1
100 #22M, M

CONTACT
SIZE LEGEND:

SIZE 22D

SIZE 20

SIZE 16

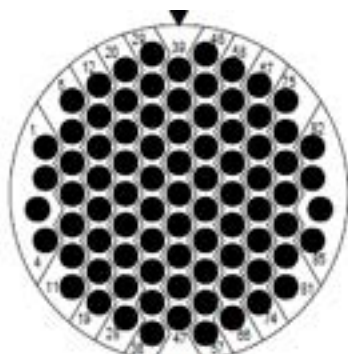
SIZE 12

SIZE 8

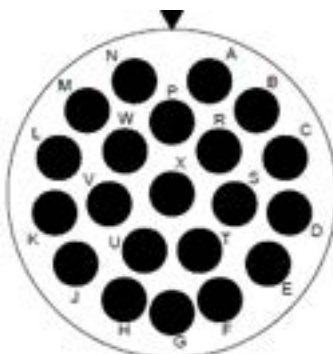
MIL-DTL-D38999

INSERT ARRANGEMENTS

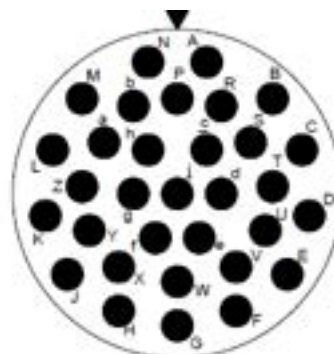
SERIES I,II,III



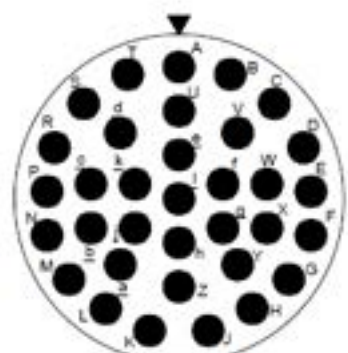
23-2/22-2
H2,
85 #22, M



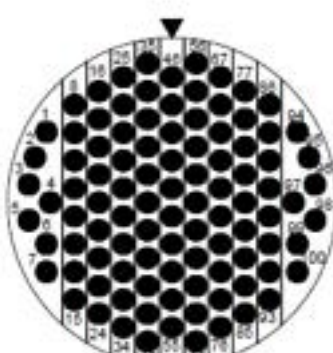
23-21/22-21
H21,
21 #16, II



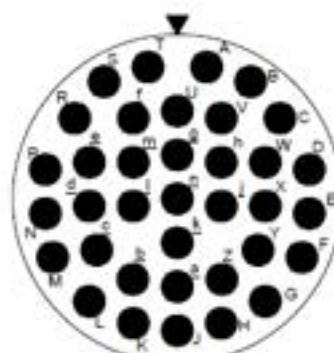
23-32/22-32
H32,
32 #20, I



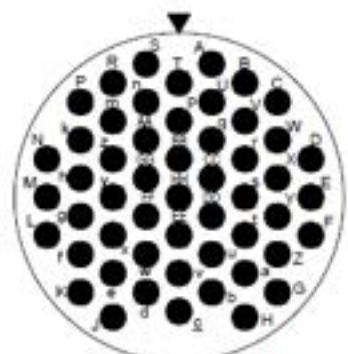
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H34,
34 #20, I



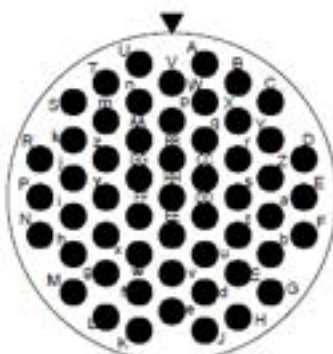
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H35,
100 #22D, M



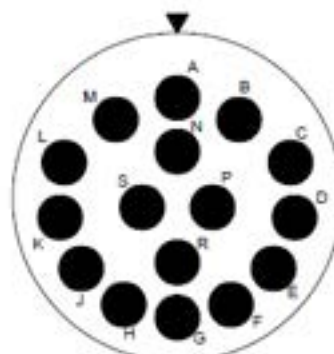
23-36/22-36
H36,
36 #20, I



23-53/22-53
H53,
53 #20, I



23-55/22-55
H55,
55 #20, I



23-97/22-97
H97,
16 #16, I

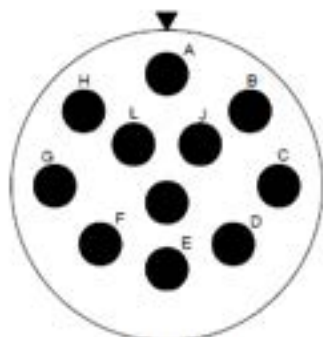
CONTACT
SIZE LEGEND:



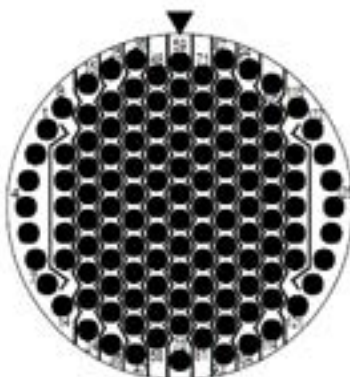
MIL-DTL-D38999

INSERT ARRANGEMENTS

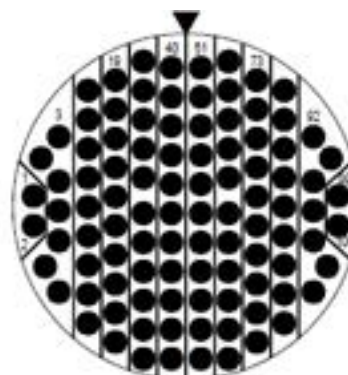
SERIES I,II,III



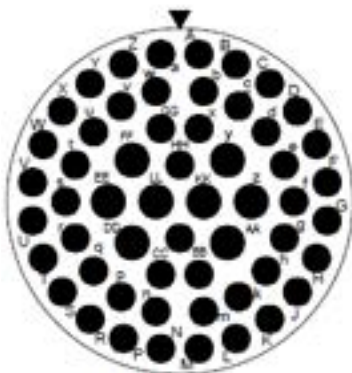
23-99/22-99
H99,
11 #16, II



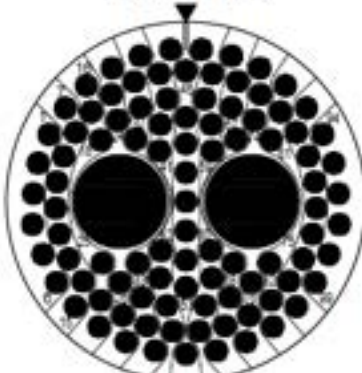
25-1/24-1
J1,
128, #22M, M



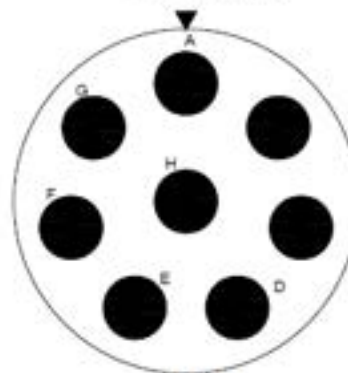
25-2/24-2
J2,
100, #22, M



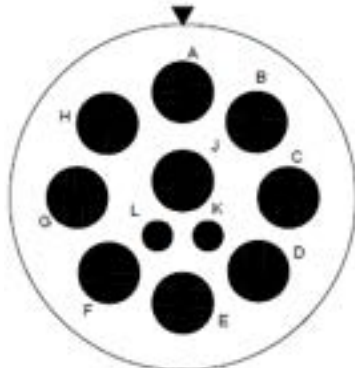
25-4/24-4
J4,
8 #16, 48 #20, I



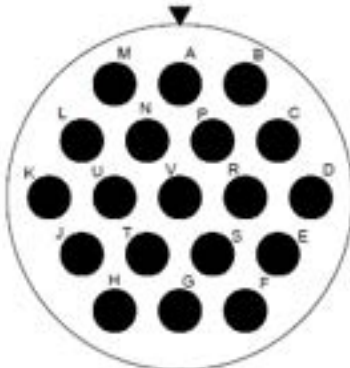
25-7
J7,
2 #8, 97 #22D, M



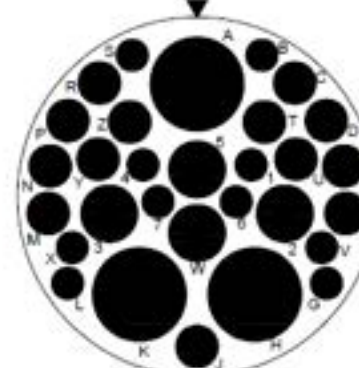
25-8
J8,
8 #12, I TWINAX



25-11
J11,
2 #20 9 #10, N



25-19/24-19
J19,
19 #12, I



25-20/24-20
J20,
3 #8 TWINAX, 4 #12 COAX, 13
#16, 10 #20, M

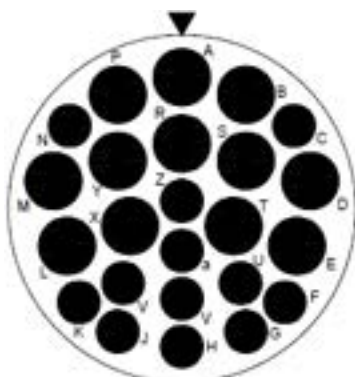
CONTACT
SIZE LEGEND:



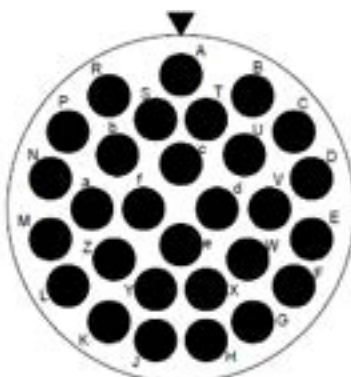
MIL-DTL-D38999

INSERT ARRANGEMENTS

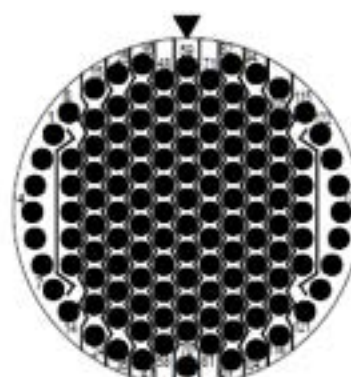
SERIES I,II,III



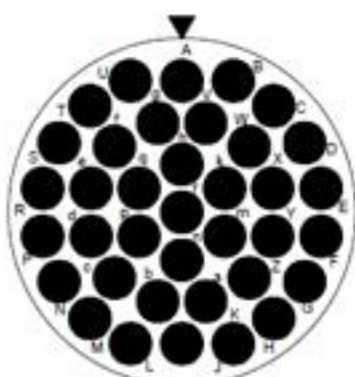
25-24/24-24
J24,
12 #12, 12 #16, I



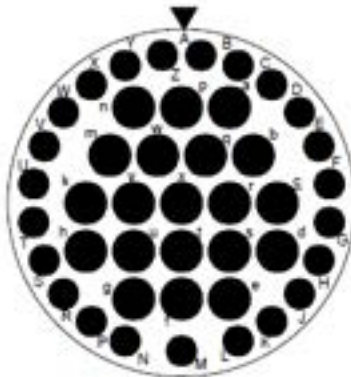
25-29/24-29
J29
29 #16, I



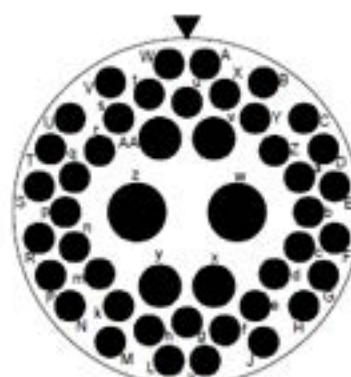
25-35/24-35
J35,
128, #22D, M



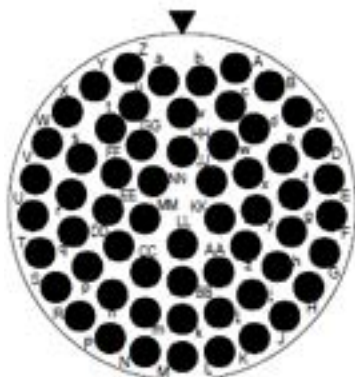
25-37
J37,
37, #16, I



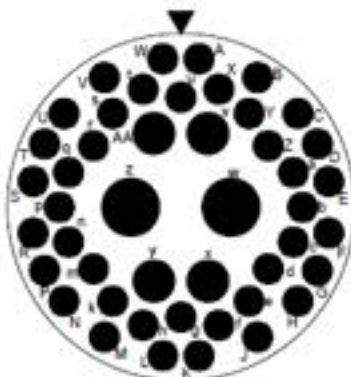
25-43
J43,
20 #16, 23 #20, I



25-46
J46,
2 #8, COAX, 4 #16, 40 #20, I



25-61/24-61
J61,
61 #20, I



25-90
J90,
2 #8, TWINAX, 4 #16, 40 #20, I

CONTACT
SIZE LEGEND:



SIZE 22D



SIZE 20



SIZE 16



SIZE 12



SIZE 8

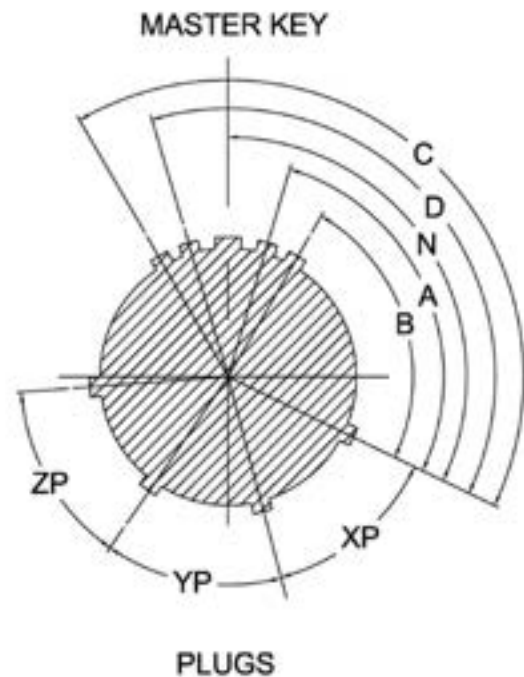
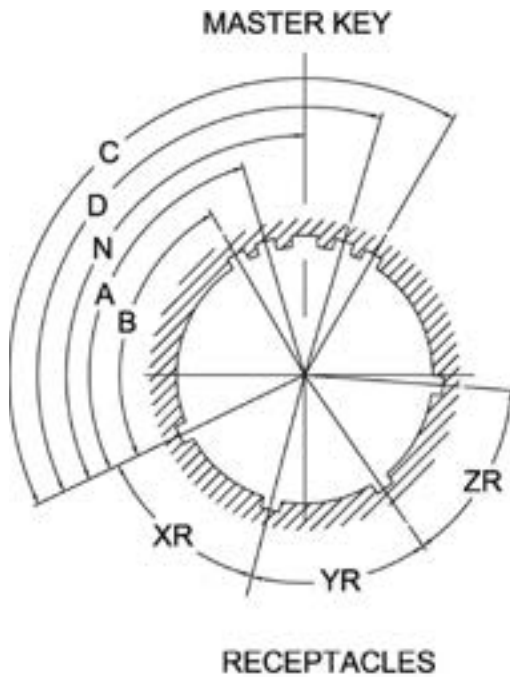
MIL-DTL-D38999

KEYWAY POLARIZATION

SERIES I & II



MIL-DTL-38999
KEYWAY POLARIZATION



SERIES I ASSEMBLIES, MAIN KEY AND KEYWAY POLARIZATION									
SHELL SIZE	F	NORMAL ROTATION				LETTER DESIGNATION			
		N	XR XP	YR YP	ZR ZP	A	B	C	D
9	5°	95°	45°	88°	27°	77°	---	---	113°
11	5°	95°	45°	88°	27°	81°	67°	123°	109°
13	5°	95°	45°	88°	27°	75°	63°	127°	115°
15	5°	95°	45°	88°	27°	74°	61°	129°	116°
17	5°	95°	45°	88°	27°	77°	65°	125°	113°
19	5°	95°	45°	88°	27°	77°	65°	125°	113°
21	5°	95°	45°	88°	27°	77°	65°	125°	113°
23	5°	95°	45°	88°	27°	80°	69°	121°	110°
25	5°	95°	45°	88°	27°	80°	69°	121°	110°

SERIES II ASSEMBLIES, MAIN KEY AND KEYWAY POLARIZATION									
SHELL SIZE	F	NORMAL ROTATION				LETTER DESIGNATION			
		N	XR XP	YR YP	ZR ZP	A	B	C	D
8	10°	100°	28°	100°	37°	82°	---	---	118°
10	10°	100°	28°	100°	37°	86°	72°	128°	114°
12	10°	100°	28°	100°	37°	80°	68°	132°	120°
14	10°	100°	28°	100°	37°	79°	66°	134°	121°
16	10°	100°	28°	100°	37°	82°	70°	130°	118°
18	10°	100°	28°	100°	37°	82°	70°	130°	118°
20	10°	100°	28°	100°	37°	82°	70°	130°	118°
22	10°	100°	28°	100°	37°	85°	74°	126°	115°
24	10°	100°	28°	100°	37°	85°	74°	126°	115°

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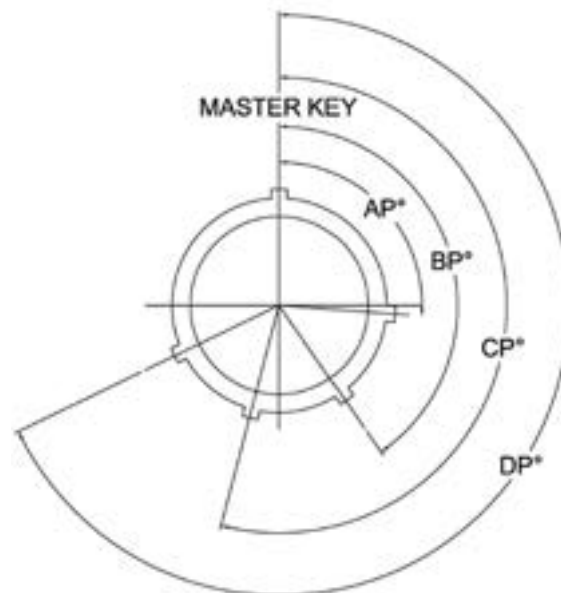
MIL-DTL-D38999

KEYWAY POLARIZATION

SERIES III



MIL-DTL-38999
KEYWAY POLARIZATION



MAIN KEY AND KEYWAY POLARIZATION					
SHELL SIZE	KEY AND KEYWAY ARRANGEMENT IDENTIFICATION LETTER	AP* BSC	BP* BSC	CP* BSC	DP* BSC
9	N	105	140	215	265
	A	102	132	248	320
	B	80	118	230	312
	C	35	140	205	275
	D	64	155	234	304
	E	91	131	197	240
11, 13, AND 15	N	95	141	208	236
	A	113	156	182	292
	B	90	147.5	195	252
	C	53	156	220	255
	D	119	146	176	298
	E	51	141	184	242
17 AND 19	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	147.5	180	280
	E	79	153	197	272
21, 23, AND 25	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272

ACCESSORY THREADS			
SHELL SIZE	MS SHELL CODE	ACCESSORY THREAD	NUMBER OF TEETH
9	A	M12 X 1-6g	12
11	B	M15 X 1-6g	16
13	C	M18 X 1-6g	20
15	D	M22 X 1-6g	24
17	E	M25 X 1-6g	28
19	F	M28 X 1-6g	32
21	G	M31 X 1-6g	36
23	H	M34 X 1-6g	40
25	J	M37 X 1-6g	44

MATING THREADS		
SHELL SIZE	MS SHELL SIZE CODE	MATING THREAD
9	A	.6250-0.1P0-.3L
11	B	.7500-0.1-0.3L
13	C	.8750-0.1P-0.3L
15	D	1.000-0.1P0-.3L
17	E	1.18750-0.1P-0.3L
19	F	1.2500-0.1P-0.3L
21	G	1.3750-0.1P0-.3L
23	H	1.500-0.1-0.3L
25	J	1.6250-0.1P-0.3L

MIL-DTL-5015

SERIES II



MILITARY PREFIX	MS340*	01	D	J	S	24	A	-	16	P	W
CORSAIR PREFIX	CJ340*	01	D	J	S	24	A	-	16	P	W

CONNECTOR CONFIGURATION

34001 RECEPTACLE, WALL MOUNT
 34011 RECEPTACLE, CABLE CONNECTING
 34021 RECEPTACLE, SINGLE HOLE MOUNT
 34041 RECEPTACLE, JAM NUT
 34061 PLUG, STANDARD
 34081 PLUG, INCLUDES 90° STRAIN RELIEF
 34091 PLUG, INCLUDES 45° STRAIN RELIEF
 34121 RECEPTACLE, WALL MOUNT

CLASS (MATERIAL/FINISH)

D ALUMINUM HARDWARE, CADMIUM OVER NICKEL OLIVE DRAB FINISH, SILICONE ELASTOMER
 DS STAINLESS STEEL (316) HARDWARE, BLACK CADMIUM FINISH, SILICONE ELASTOMER.
 KS STAINLESS STEEL, PASSIVATED, FIREWALL
 KT CARBON STEEL, CADMIUM, FIREWALL
 LS STAINLESS STEEL, PASSIVATED, FLUID RESISTANT INSERT
 L ALUMINUM, ELECTROLESS NICKEL
 U ALUMINUM HARDWARE; NICKEL PLATE FINISH SILICONE ELASTOMER
 W ALUMINUM, OLIVE DRAB CADMIUM OVER ELECTROLESS NICKEL BASE, (500 HR CORROSION RESISTANT)

BACKSHELL DESIGNATOR

J ENVIRONMENTAL BACKSHELL AND CONNECTOR ASSEMBLY

BACKSHELL CLASS CODE

S STAINLESS STEEL (316) CONNECTOR AND BACKSHELL

SHELL SIZE

8S, 10S, 10SL, 12, 12S, 14, 14S, 16, 16S, 18, 20, 22, 24, 28, 32, 36, 40, 44, AND 48

SEALING RANGE

BACKSHELL SEALING RANGE WHEN ORDERING "DJ" ASSEMBLIES

INSERT ARRANGEMENT

REFER TO LAYOUT PATTERNS PER MIL-DTL-1651

GENERAL SPECIFICATIONS

FRONT RELEASE CONTACT RETENTION SYSTEM. 14 SHELL SIZES (8 TO 40) IN OVER 150

CONTACT TYPE

P PIN
 S SOCKET
 A CONNECTOR LESS PINS
 B CONNECTOR LESS SOCKETS

INSERT ARRANGEMENTS UTILIZING CONTACT SIZES 16, 16S, 12, 8, 4, AND 0 GAGE CRIMP CONTACTS PER MIL-C-5015 THREADED COUPLING MECHANISM.

POLARIZATION

N NORMAL (NOT INCLUDED IN PART NUMBER)
 W, X, Y, OR Z ALTERNATE POSITIONS, REFER TO POLARIZATION CHART

GENERAL SPECIFICATIONS

FRONT RELEASE CONTACT RETENTION SYSTEM. 14 SHELL SIZES (8 TO 40) IN OVER 150 INSERT ARRANGEMENTS UTILIZING CONTACT SIZES 16, 16S, 12, 8, 4, AND 0 GAGE CRIMP CONTACTS PER MIL-C-5015 THREADED COUPLING MECHANISM.

OPERATING TEMPERATURE RANGE

CLASS K: -55 C (-67 F) TO 175 C (347 F)
 CLASS L: -55 C (-67 F) TO 200 C (392 F)
 CLASS W: -55 C (-67 F) TO 175 C (347 F)

ENVIRONMENTAL FLOUROSILICONE ELASTOMERS

REFER TO ADDITIONAL CONTACT AND TOOLING INFORMATION

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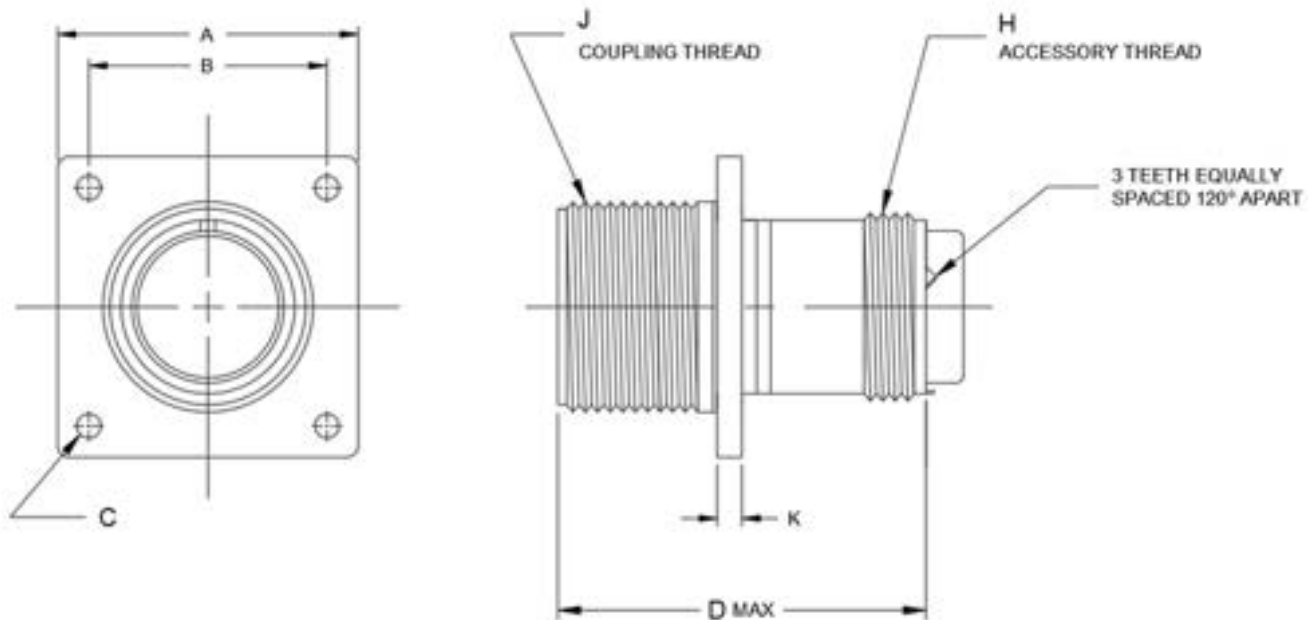
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AS34001

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Shell Size	A ±.031	B	C		D		H Thread Class 2A	J Thread Class 2B	K
			A, F, R & W	K	16 & 12	8, 4 & 0			
8S	.875	.594	.120	.150	2.031	-	1/2-20 UNEF	1/2-28 UNEF	.083
10S	1.000	.719	.120	.150	2.031	-	5/8-24 UNEF	5/8-24 UNEF	.083
10SL	1.000	.719	.120	.150	2.031	-	5/8-24 UNEF	5/8-24 UNEF	.083
12	1.094	.812	.120	.150	2.125	-	3/4-20 UNEF	3/4-20 UNEF	.083
12S	1.094	.812	.120	.150	2.031	-	3/4-20 UNEF	3/4-20 UNEF	.083
14	1.188	.906	.120	.150	2.125	-	7/8-20 UNEF	7/8-20 UNEF	.083
14S	1.188	.906	.120	.150	2.031	-	7/8-20 UNEF	7/8-20 UNEF	.083
16	1.281	.969	.120	.150	2.125	2.500	1-20 UNEF	1-20 UNEF	.083
16S	1.281	.969	.120	.150	2.031	-	1-20 UNEF	1-20 UNEF	.083
18	1.375	1.062	.120	.177	2.125	2.500	1 1/16-18 UNEF	1 1/8-18 UNEF	.125
20	1.500	1.156	.120	.177	2.125	2.500	1 3/16-18 UNEF	1 1/4-18 UNEF	.125
22	1.625	1.250	.120	.177	2.125	2.500	1 5/16-18 UNEF	1 3/8-18 UNEF	.125
24	1.750	1.375	.147	.177	2.125	2.500	1 7/16-18 UNEF	1 1/2-18 UNEF	.125
28	2.000	1.562	.147	.177	2.125	2.500	1 3/4-18 UNS	1 3/4-18 UNS	.125
32	2.250	1.750	.173	.209	2.125	2.500	2 18 UNS	2 18 UNS	.125
36	2.500	1.938	.173	.209	2.125	2.500	2 1/4-16 UN	2 1/4-16 UN	.125
40	2.750	2.188	.173	.209	2.125	2.500	2 1/2-16 UN	2 1/2-16 UN	.125
44	3.000	2.375	.173	.209	2.125	2.500	2 3/4-16 UN	2 3/4-16 UN	.125
48	3.250	2.625	.173	.209	2.125	2.500	3-16 UN	3-16 UN	.125

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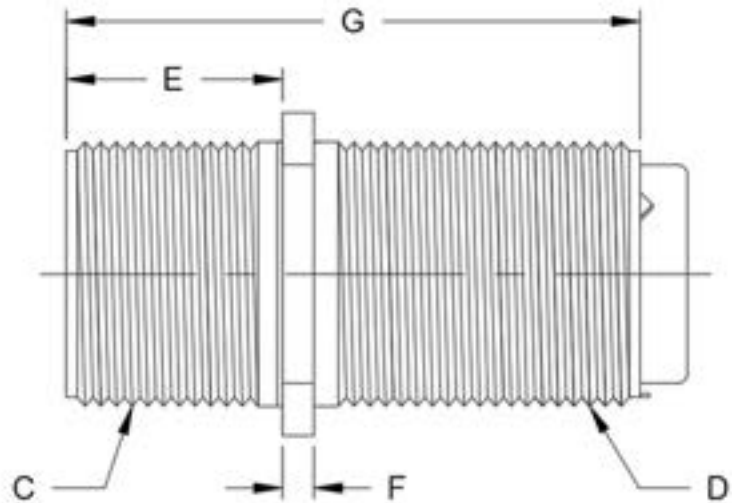
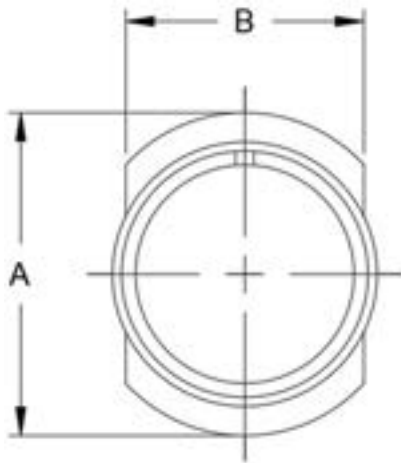
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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Shell Size	A	B		C Coupling Threads Class 2A	D Accessory Thread Class 2A	E +0.031 -0.000	F ±0.015	G Max Contact Size	
		Max	Min					16 & 12	8, 4, & 0
8S	0.729	0.504	0.496	1/2-28 UNEF	1/2-20 UNEF	0.562	0.830	2.031	-
10S	0.854	0.629	0.621	5/8-24 UNEF	5/8-24 UNEF	0.562	0.830	2.031	-
10SL	0.854	0.629	0.621	5/8-24 UNEF	5/8-24 UNEF	0.562	0.830	2.031	-
12S	0.974	0.754	0.746	3/4-20 UNEF	3/4-20 UNEF	0.562	0.830	2.031	-
12	0.974	0.754	0.746	3/4-20 UNEF	3/4-20 UNEF	0.750	0.830	2.125	-
14S	1.099	0.879	0.871	7/8-20 UNEF	7/8-20 UNEF	0.562	0.830	2.031	-
14	1.099	0.879	0.871	7/8-20 UNEF	7/8-20 UNEF	0.750	0.830	2.125	-
16S	1.224	1.005	0.996	1-20 UNEF	1-20 UNEF	0.562	0.830	2.031	-
16	1.224	1.005	0.996	1-20 UNEF	1-20 UNEF	0.750	0.830	2.125	2.500
18	1.349	1.131	1.121	1 1/8-18 UNEF	1 1/16-18 UNEF	0.750	0.125	2.125	2.500
20	1.474	1.256	1.246	1 1/4-18 UNEF	1 3/16-18 UNEF	0.750	0.125	2.125	2.500
22	1.599	1.381	1.371	1 3/8-18 UNEF	1 5/16-18 UNEF	0.750	0.125	2.125	2.500
24	1.715	1.506	1.496	1 1/2-18 UNEF	1 7/16-18 UNEF	0.812	0.125	2.125	2.500
28	1.974	1.756	1.746	1 3/4-18 UNS	1 3/4-18 UNEF	0.812	0.125	2.125	2.500
32	2.224	2.007	1.996	2-18 UNS	2-18 UNS	0.875	0.125	2.125	2.500
36	2.474	2.257	2.246	2 1/4-16 UN	2 1/4-16 UN	0.875	0.125	2.125	2.500
40	2.724	2.511	2.496	2 1/2-16 UN	2 1/2-16 UN	0.875	0.125	2.125	2.500
44	2.974	2.746	2.761	2 3/4-16 UN	2 3/4-16 UN	0.875	0.125	2.125	2.500
48	3.224	2.996	3.011	3-16 UN	3-16 UN	0.875	0.125	2.125	2.500

CAGE Code: 1R6R9

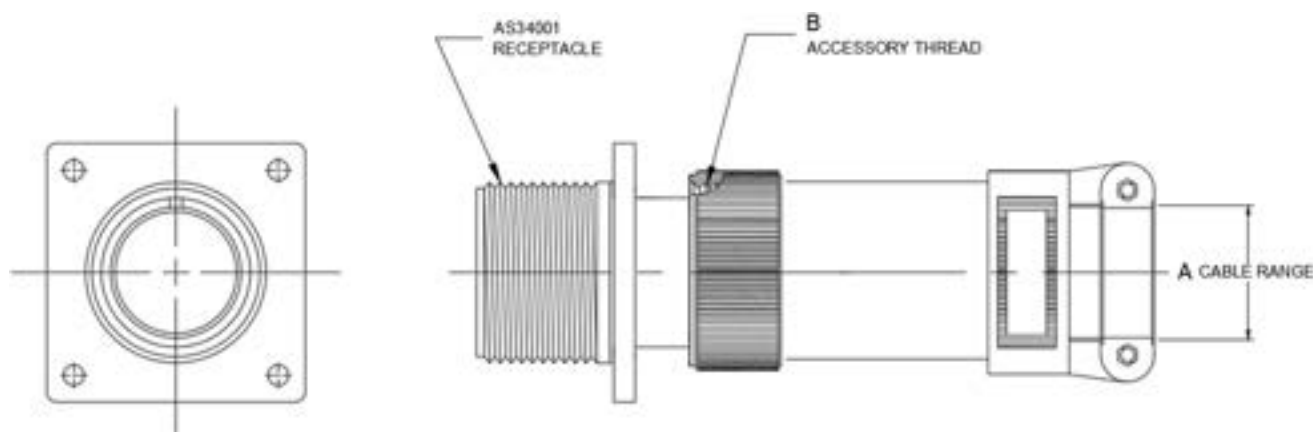
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AS34001DJ

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Assembly P/N	Backshell P/N	Superseding Assembly N°	'A' Cable Entry		'B' Thread Class 2
			Max	Min	
MS3400DJ 10 A- XX	AS85049/11-9W	MS3437B-9A	0.312	0.125	.625-24UNEF
MS3400DJ 10 B- XX	AS85049/11-11W	MS3437B-11A	0.437	0.250	.625-24UNEF
MS3400DJ 10 D- XX	AS85049/11-136W	MS3437B-136A	0.375	0.250	.625-24UNEF
MS3400DJ 11 A- XX	AS85049/11-9W	MS3437B-9A	0.312	0.125	.625-24UNEF
MS3400DJ 11 B- XX	AS85049/11-11W	MS3437B-11A	0.437	0.250	.625-24UNEF
MS3400DJ 11 D- XX	AS85049/11-136W	MS3437B-136A	0.375	0.250	.625-24UNEF
MS3400DJ 12 A- XX	AS85049/11-114W	MS3437B-114A	0.312	0.125	.750-20UNEF
MS3400DJ 12 B- XX	AS85049/11-15W	MS3437B-15A	0.625	0.350	.750-20UNEF
MS3400DJ 12 D- XX	AS85049/11-138W	MS3437B-138A	0.500	0.350	.750-20UNEF
MS3400DJ 12 E- XX	AS85049/11-13W	MS3437B-13A	0.437	0.250	.750-20UNEF
MS3400DJ 13 A- XX	AS85049/11-114W	MS3437B-114A	0.312	0.125	.750-20UNEF
MS3400DJ 13 B- XX	AS85049/11-15W	MS3437B-15A	0.625	0.350	.750-20UNEF
MS3400DJ 13 D- XX	AS85049/11-138W	MS3437B-138A	0.500	0.350	.750-20UNEF
MS3400DJ 13 E- XX	AS85049/11-13W	MS3437B-13A	0.437	0.250	.750-20UNEF
MS3400DJ 14 A- XX	AS85049/11-116W	MS3437B-116A	0.437	0.250	.875-20UNEF
MS3400DJ 14 B- XX	AS85049/11-19W	MS3437B-19A	0.750	0.500	.875-20UNEF
MS3400DJ 14 D- XX	AS85049/11-17W	MS3437B-17A	0.575	0.350	.875-20UNEF
MS3400DJ 14 E- XX	AS85049/11-150W	MS3437B-150A	0.312	0.125	.875-20UNEF
MS3400DJ 15 A- XX	AS85049/11-116W	MS3437B-116A	0.437	0.250	.875-20UNEF
MS3400DJ 15 B- XX	AS85049/11-19W	MS3437B-19A	0.750	0.500	.875-20UNEF
MS3400DJ 15 D- XX	AS85049/11-17W	MS3437B-17A	0.575	0.350	.875-20UNEF
MS3400DJ 15 E- XX	AS85049/11-150W	MS3437B-150A	0.312	0.125	.875-20UNEF

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AS34001DJ

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II

Assembly P/N	Backshell P/N	Superseding Assembly N°	'A' Cable Entry		'B' Thread Class 2
			Max	Min	
MS3400DJ 16 A- XX	AS85049/11-21W	MS3437B-21A	0.700	0.500	1.000-20UNEF
MS3400DJ 16 B- XX	AS85049/11-23W	MS3437B-23A	0.937	0.625	1.000-20UNEF
MS3400DJ 16 D- XX	AS85049/11-112W	MS3437B-112A	0.437	0.250	1.000-20UNEF
MS3400DJ 16 E- XX	AS85049/11-118W	MS3437B-118A	0.625	0.350	1.000-20UNEF
MS3400DJ 17 A- XX	AS85049/11-21W	MS3437B-21A	0.700	0.500	1.000-20UNEF
MS3400DJ 17 B- XX	AS85049/11-23W	MS3437B-23A	0.937	0.625	1.000-20UNEF
MS3400DJ 17 D- XX	AS85049/11-112W	MS3437B-112A	0.437	0.250	1.000-20UNEF
MS3400DJ 17 E- XX	AS85049/11-118W	MS3437B-118A	0.625	0.350	1.000-20UNEF
MS3400DJ 18 A- XX	AS85049/11-25W	MS3437B-25A	0.625	0.350	1.125-18UNEF
MS3400DJ 18 B- XX	AS85049/11-27W	MS3437B-27A	0.750	0.500	1.125-18UNEF
MS3400DJ 18 E- XX	AS85049/11-120W	MS3437B-120A	0.312	0.125	1.125-18UNEF
MS3400DJ 18 F- XX	AS85049/11-122W	MS3437B-122A	0.437	0.250	1.125-18UNEF
MS3400DJ 12 A- XX	AS85049/11-31W	MS3437B-31A	0.625	0.350	1.250-18UNEF
MS3400DJ 20 B- XX	AS85049/11-33W	MS3437B-33A	0.750	0.500	1.250-18UNEF
MS3400DJ 20 E- XX	AS85049/11-37W	MS3437B-37A	1.250	0.875	1.250-18UNEF
MS3400DJ 20 F- XX	AS85049/11-124W	MS3437B-124A	0.437	0.250	1.250-18UNEF
MS3400DJ 22 A- XX	AS85049/11-140W	MS3437B-140A	0.904	0.625	1.250-18UNEF
MS3400DJ 22 B- XX	AS85049/11-39W	MS3437B-39A	0.625	0.350	1.375-18UNEF
MS3400DJ 22 D- XX	AS85049/11-41W	MS3437B-41A	0.750	0.500	1.375-18UNEF
MS3400DJ 22 A- XX	AS85049/11-43W	MS3437B-43A	0.937	0.625	1.375-18UNEF
MS3400DJ 22 E- XX	AS85049/11-45W	MS3437B-45A	1.250	0.875	1.375-18UNEF
MS3400DJ 22 F- XX	AS85049/11-125W	MS3437B-125A	0.312	0.125	1.375-18UNEF
MS3400DJ 22 G- XX	AS85049/11-128W	MS3437B-128A	0.437	0.250	1.375-18UNEF
MS3400DJ 22 H- XX	AS85049/11-142W	MS3437B-142A	1.029	0.875	1.375-18UNEF
MS3400DJ 24 A- XX	AS85049/11-47W	MS3437B-47A	0.750	0.500	1.500-18UNEF
MS3400DJ 24 B- XX	AS85049/11-49W	MS3437B-49A	0.812	0.625	1.500-18UNEF
MS3400DJ 24 D- XX	AS85049/11-51W	MS3437B-51A	0.937	0.625	1.500-18UNEF
MS3400DJ 24 E- XX	AS85049/11-53W	MS3437B-53A	1.250	0.875	1.500-18UNEF
MS3400DJ 24 F- XX	AS85049/11-130W	MS3437B-130A	0.625	0.350	1.500-18UNEF
MS3400DJ 24 G- XX	AS85049/11-144W	MS3437B-144A	1.144	0.875	1.500-18UNEF

CAGE Code: 1R6R9

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AS34001DJ

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II

Assembly P/N	Backshell P/N	Superseding Assembly N°	'A' Cable Entry		'B' Thread Class 2
			Max	Min	
MS3400DJ 28 A- XX	AS85049/11-55W	MS3437B-55A	0.750	0.500	1.750-18UNS
MS3400DJ 28 B- XX	AS85049/11-57W	MS3437B-57A	0.937	0.625	1.750-18UNS
MS3400DJ 28 D- XX	AS85049/11-59W	MS3437B-59A	1.250	0.875	1.750-18UNS
MS3400DJ 28 E- XX	AS85049/11-61W	MS3437B-61A	1.375	1.000	1.750-18UNS
MS3400DJ 32 A- XX	AS85049/11-63W	MS3437B-63A	0.937	0.625	2.00-18UNS
MS3400DJ 32 B- XX	AS85049/11-65W	MS3437B-65A	1.250	0.875	2.00-18UNS
MS3400DJ 32 D- XX	AS85049/11-67W	MS3437B-67A	1.375	1.000	2.00-18UNS
MS3400DJ 32 E- XX	AS85049/11-69W	MS3437B-69A	1.625	1.250	2.00-18UNS
MS3400DJ 36 A- XX	AS85049/11-71W	MS3437B-71A	1.250	0.875	2.250-16UN
MS3400DJ 36 B- XX	AS85049/11-73W	MS3437B-73A	1.375	1.000	2.250-16UN
MS3400DJ 36 D- XX	AS85049/11-75W	MS3437B-75A	1.625	1.250	2.250-16UN
MS3400DJ 36 E- XX	AS85049/11-146W	MS3437B-146A	1.840	1.437	2.250-16UN
MS3400DJ 36 G- XX	AS85049/11-132W	MS3437B-132A	0.750	0.500	2.250-16UN
MS3400DJ 36 F- XX	AS85049/11-148W	MS3437B-148A	0.937	0.625	2.250-16UN
MS3400DJ 40 A- XX	AS85049/11-79W	MS3437B-79A	1.250	0.875	2.500-16UN
MS3400DJ 40 B- XX	AS85049/11-81W	MS3437B-81A	1.375	1.000	2.500-16UN
MS3400DJ 40 D- XX	AS85049/11-83W	MS3437B-83A	1.625	1.250	2.500-16UN
MS3400DJ 40 E- XX	AS85049/11-85W	MS3437B-85A	1.840	1.437	2.500-16UN
MS3400DJ 40 F- XX	AS85049/11-134W	MS3437B-134A	0.750	0.500	2.500-16UN
MS3400DJ 44 A- XX	AS85049/11-87W	MS3437B-87A	1.250	0.875	2.750-16UN
MS3400DJ 44 B- XX	AS85049/11-89W	MS3437B-89A	1.375	1.000	2.750-16UN
MS3400DJ 44 D- XX	AS85049/11-91W	MS3437B-91A	1.625	1.250	2.750-16UN
MS3400DJ 44 E- XX	AS85049/11-93W	MS3437B-93A	1.840	1.437	2.750-16UN
MS3400DJ 44 F- XX	AS85049/11-154W	MS3437B-154A	0.937	0.625	2.750-16UN

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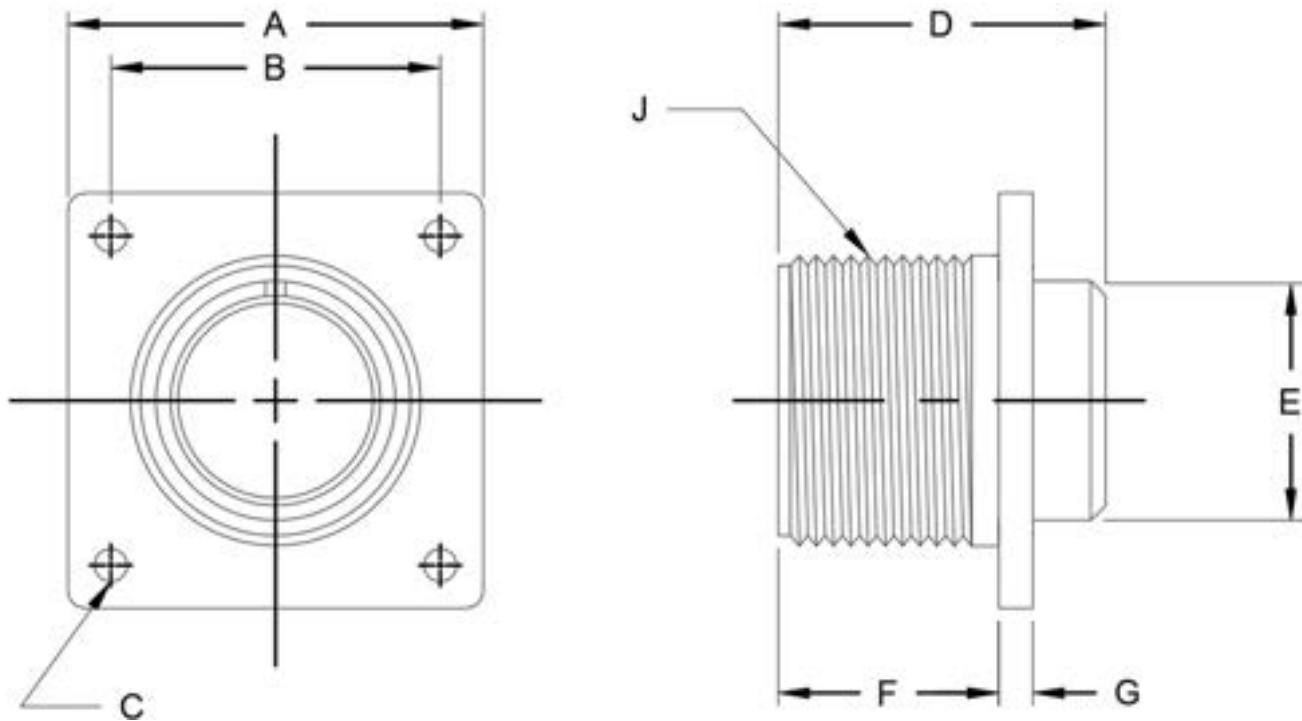
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AS34021

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



SHELL SIZE	A ±.31	B T.P.	C	D Size 16 & 12 Contacts	D Size 8, 4 & 0 Contacts	E ±.016	F	G ±.015	J THREAD CLASS 2B
8S	.875	.594	.130/.115	1.662	-	.500	.578/.562	.083	1/2-28 UNEF
10S	1.000	.719	.130/.115	1.662	-	.625	.578/.562	.083	5/8-24 UNEF
10SL	1.000	.719	.130/.115	1.662	-	.625	.578/.562	.083	5/8-24 UNEF
12	1.094	.812	.130/.115	1.662	-	.750	.765/.750	.083	3/4-20 UNEF
12S	1.094	.812	.130/.115	1.662	-	.750	.577/.562	.083	3/4-20 UNEF
14	1.188	.906	.130/.115	1.662	-	.875	.765/.750	.083	7/8-20 UNEF
14S	1.188	.906	.130/.115	1.662	-	.875	.577/.562	.083	7/8-20 UNEF
16	1.281	.969	.130/.115	1.662	1.937	1.000	.765/.750	.083	1-20 UNEF
16S	1.281	.969	.130/.115	1.662	-	1.000	.577/.562	.083	1-20 UNEF
18	1.375	1.062	.130/.115	1.662	1.937	1.062	.765/.750	.125	1-1/8-18 UNEF
20	1.500	1.156	.130/.115	1.662	1.937	1.187	.765/.750	.125	1-1/4-18 UNEF
22	1.625	1.250	.130/.115	1.662	1.937	1.312	.765/.750	.125	1-3/8-18 UNEF
24	1.750	1.375	.130/.115	1.662	1.937	1.437	.827/.812	.125	1-1/2-18 UNEF
28	2.000	1.562	.130/.115	1.662	1.937	1.750	.827/.812	.125	1-3/4-18 UNS
32	2.250	1.750	.130/.115	1.662	1.937	2.000	.988/.875	.125	2-18 UNS
36	2.500	1.938	.130/.115	1.662	1.937	2.250	.988/.875	.125	2-1/4-16 UN
40	2.750	2.188	.130/.115	1.662	1.937	2.500	.988/.875	.125	2-1/2-16 UN
44	3.000	2.375	.130/.115	1.662	1.937	2.750	.988/.875	.125	2-3/4-16 UN
48	3.250	2.625	.130/.115	1.662	1.937	3.000	.988/.875	.125	3-16 UN

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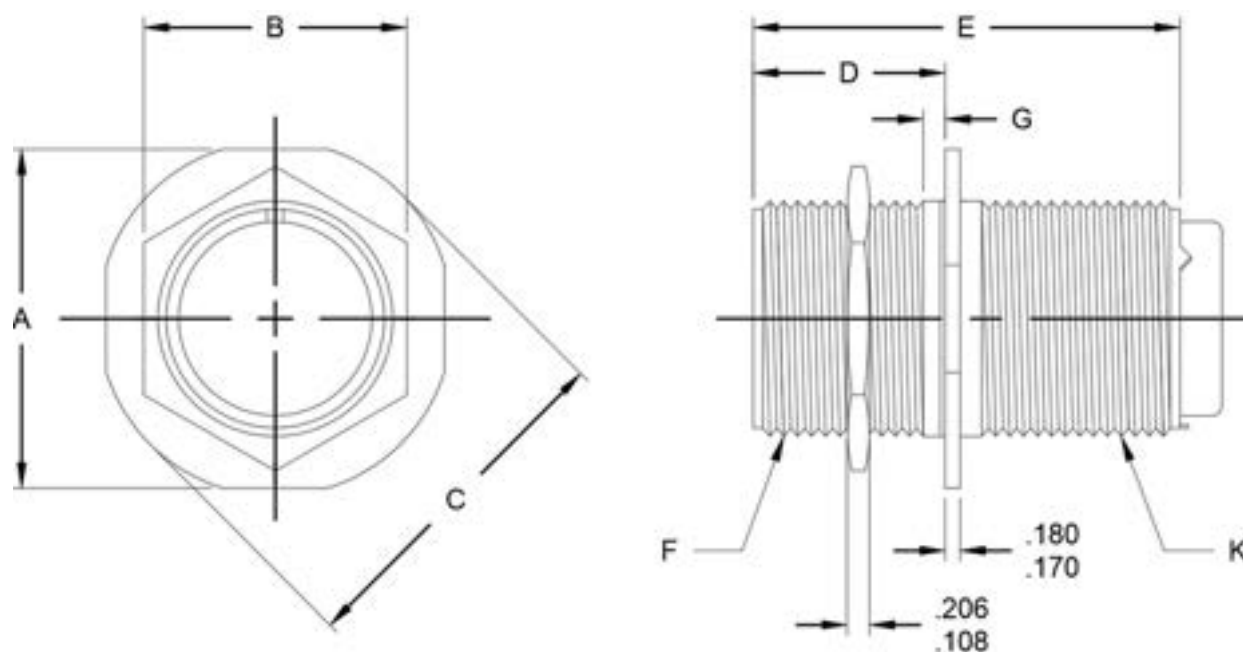
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AS34041

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Size	A Max.		B ±.005	C +.000 -.005	D +.015 -.000	E ±.005	F ±.010	G ±.006	H	J Coupling Thread Class 2A	K Accessory Thread Class 2A
	Size 8 & 12	Size 16 & 20									
85	2.031	-	.720	.500	.505	1.072	.865	.326	.020	1/2-28 UNEF	1/2-20 UNEF
105	2.031	-	.720	.625	.630	1.193	.990	.385	.020	5/8-24 UNEF	5/8-24 UNEF
105L	2.031	-	.720	.625	.630	1.193	.990	.385	.020	5/8-24 UNEF	5/8-24 UNEF
125	2.031	-	.720	.750	.755	1.317	1.050	.448	.020	3/4-20 UNEF	3/4-20 UNEF
12	2.125	-	.966	.750	.755	1.317	1.050	.448	.020	3/4-20 UNEF	3/4-20 UNEF
145	2.031	-	.720	.875	.880	1.443	1.175	.510	.020	7/8-20 UNEF	7/8-20 UNEF
14	2.125	-	.966	.875	.880	1.443	1.175	.510	.020	7/8-20 UNEF	7/8-20 UNEF
165	2.031	-	.720	1.000	1.005	1.567	1.300	.573	.020	1-20 UNEF	1-20 UNEF
16	2.125	2.500	.966	1.000	1.005	1.567	1.300	.573	.020	1-20 UNEF	1-20 UNEF
18	2.125	2.500	.966	1.125	1.130	1.693	1.425	.635	.020	1 1/8-18 UNEF	1 1/16-18 UNEF
20	2.125	2.500	.966	1.250	1.255	1.817	1.550	.698	.020	1 1/4-18 UNEF	1 3/16-18 UNEF
22	2.125	2.500	.966	1.375	1.380	1.943	1.550	.760	.026	1 3/8-18 UNEF	1 5/16-18 UNEF
24	2.125	2.500	.966	1.500	1.505	2.067	1.800	.823	.026	1 1/2-18 UNEF	1 7/16-18 UNEF
28	2.125	2.500	.966	1.750	1.755	2.317	1.925	.948	.026	1 3/4-18 UNS	1 3/4-18 UNEF
32	2.125	2.500	.966	2.000	2.003	2.567	2.175	1.073	.026	2-18 UNS	2-18 UNS
36	2.125	2.500	.966	2.250	2.255	2.817	2.550	1.198	.026	2 1/4-16 UN	2 1/4-16 UN
40	2.125	2.500	.966	2.500	2.505	3.061	2.800	1.323	.026	2 1/2-16 UN	2 1/2-16 UN
44	2.125	2.500	.966	2.750	2.755	3.311	3.050	1.448	.026	2 3/4-16 UN	2 3/4-16 UN
48	2.125	2.500	.966	3.000	3.005	3.561	3.300	1.573	.026	3-16 UN	3-16 UN

CAGE Code: 1R6R9

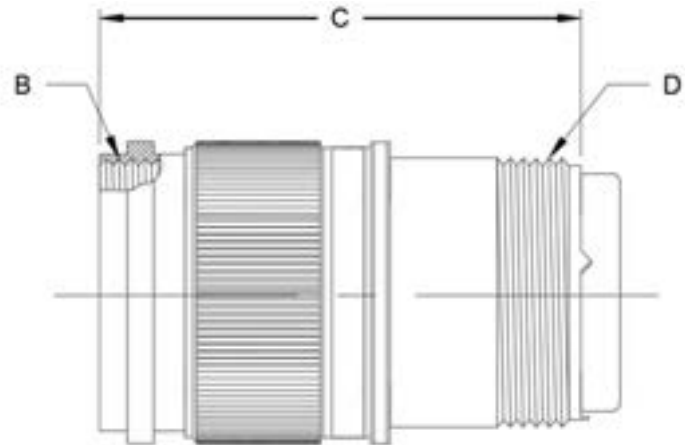
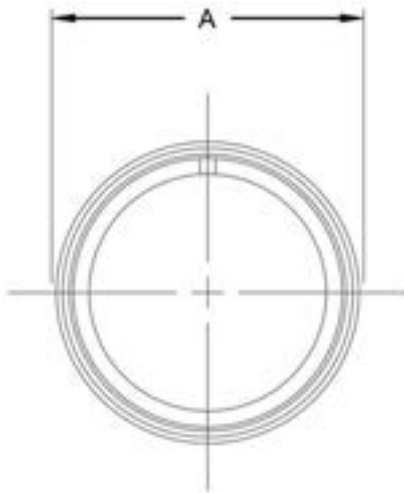
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AS34061

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Shell Size	A	B		C	D
		Max Contact Size			
	Max.	16 & 12	8, 4, & 0	Class 2B	Class 2A
8S	0.844	2.031	-	1/2-28 UNEF	1/2-20 UNEF
10S	0.969	2.031	-	5/8-24 UNEF	5/8-24 UNEF
10SL	0.969	2.031	-	5/8-24 UNEF	5/8-24 UNEF
12S	1.062	2.031	-	3/4-20 UNEF	3/4-20 UNEF
12	1.062	2.125	-	3/4-20 UNEF	3/4-20 UNEF
14S	1.156	2.031	-	7/8-20 UNEF	7/8-20 UNEF
14	1.156	2.125	-	7/8-20 UNEF	7/8-20 UNEF
16S	1.250	2.031	-	1-20 UNEF	1-20 UNEF
16	1.250	2.125	2.500	1-20 UNEF	1-20 UNEF
18	1.344	2.125	2.500	1 1/8-18 UNEF	1 1/16-18 UNEF
20	1.469	2.125	2.500	1 1/4-18 UNEF	1 3/16-18 UNEF
22	1.594	2.125	2.500	1 3/8-18 UNEF	1 5/16-18 UNEF
24	1.719	2.125	2.500	1 1/2-18 UNEF	1 7/16-18 UNEF
28	1.969	2.125	2.500	1 3/4-18 UNS	1 3/4-18 UNEF
32	2.219	2.125	2.500	2-18 UNS	2-18 UNS
36	2.469	2.125	2.500	2 1/4-16 UN	2 1/4-16 UN
40	2.719	2.125	2.500	2 1/2-16 UN	2 1/2-16 UN

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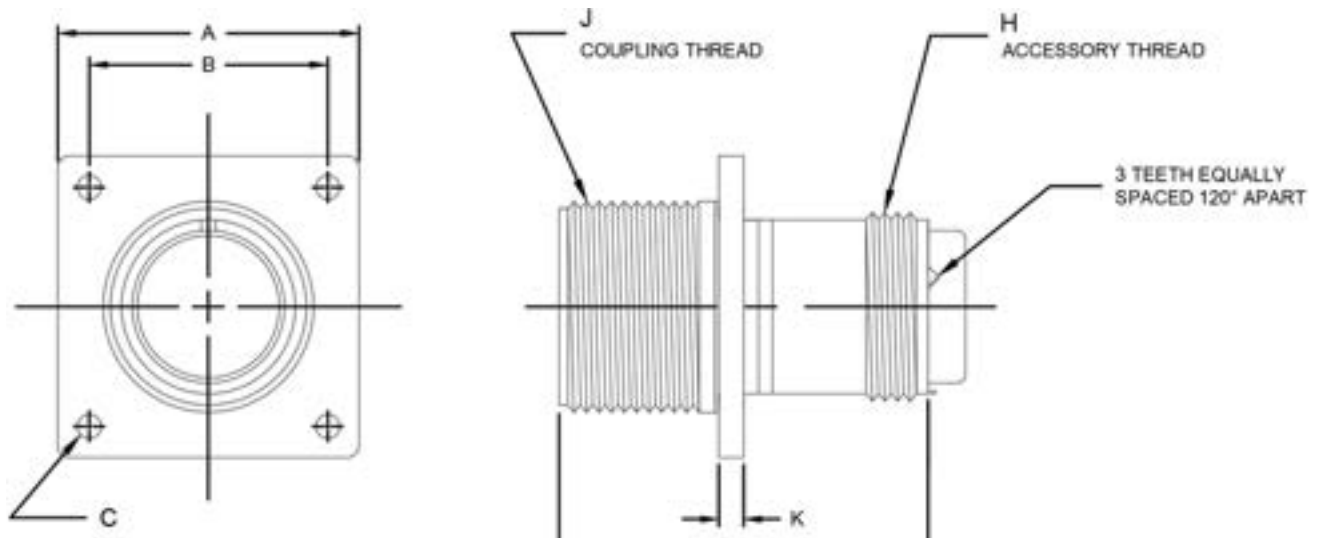
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AS34121

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



SHELL SIZE	A ±.031	B	C +.010 -.005	D		H THREAD CLASS 2A	J THREAD CLASS 2B	K
		T.P.		16 & 12	8, 4 & 0			
8S	.875	.594	.120	1.662	-	1/2-20 UNEF	1/2-28 UNEF	.083
10S	1.000	.719	.120	1.662	-	5/8-24 UNEF	5/8-24 UNEF	.083
10SL	1.000	.719	.120	1.662	-	5/8-24 UNEF	5/8-24 UNEF	.083
12	1.094	.812	.120	1.662	-	3/4-20 UNEF	3/4-20 UNEF	.083
12S	1.094	.812	.120	1.662	-	3/4-20 UNEF	3/4-20 UNEF	.083
14	1.188	.906	.120	1.662	-	7/8-20 UNEF	7/8-20 UNEF	.083
14S	1.188	.906	.120	1.662	-	7/8-20 UNEF	7/8-20 UNEF	.083
16	1.281	.969	.120	1.662	1.937	1-20 UNEF	1-20 UNEF	.083
16S	1.281	.969	.120	1.662	-	1-20 UNEF	1-20 UNEF	.083
18	1.375	1.062	.120	1.662	1.937	1 1/16-18 UNEF	1 1/8-18 UNEF	.125
20	1.500	1.156	.120	1.662	1.937	1 3/16-18 UNEF	1 1/4-18 UNEF	.125
22	1.625	1.250	.120	1.662	1.937	1 5/16-18 UNEF	1 3/8-18 UNEF	.125
24	1.750	1.375	.147	1.662	1.937	1 7/16-18 UNEF	1 1/2-18 UNEF	.125
28	2.000	1.562	.147	1.662	1.937	1 3/4-18 UNS	1 3/4-18 UNS	.125
32	2.250	1.750	.173	1.662	1.937	2 18 UNS	2 18 UNS	.125
36	2.500	1.938	.173	1.662	1.937	2 1/4-16 UN	2 1/4-16 UN	.125
40	2.750	2.188	.173	1.662	1.937	2 1/2-16 UN	2 1/2-16 UN	.125

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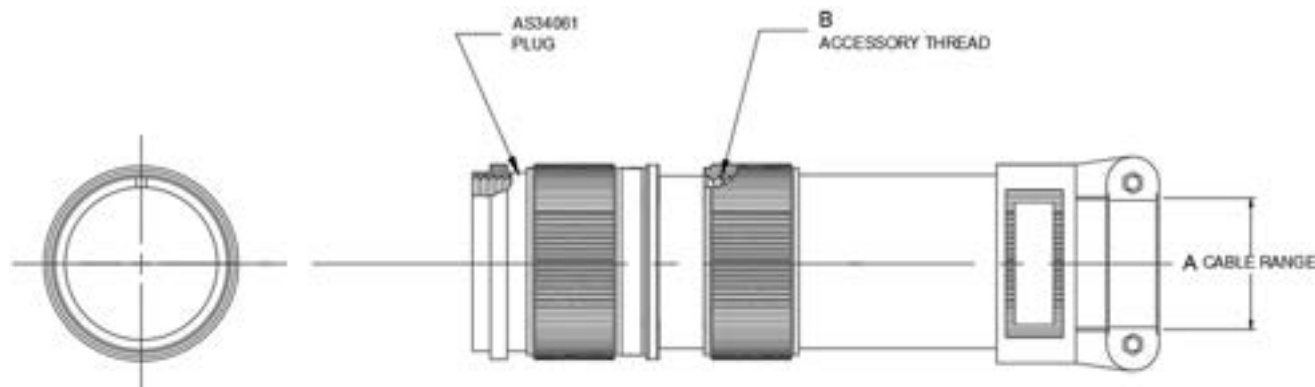
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AS34061DJ

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Assembly P/N	Backshell P/N	Superseding Assembly N°	'A' Cable Entry		'B' Thread Class 2
			Max	Min	
MS3406DJ 10 A- XX	AS85049/11-9W	MS3437B-9A	0.312	0.125	.625-24UNEF
MS3406DJ 10 B- XX	AS85049/11-11W	MS3437B-11A	0.437	0.250	.625-24UNEF
MS3406DJ 10 D- XX	AS85049/11-136W	MS3437B-136A	0.375	0.250	.625-24UNEF
MS3406DJ 11 A- XX	AS85049/11-9W	MS3437B-9A	0.312	0.125	.625-24UNEF
MS3406DJ 11 B- XX	AS85049/11-11W	MS3437B-11A	0.437	0.250	.625-24UNEF
MS3406DJ 11 D- XX	AS85049/11-136W	MS3437B-136A	0.375	0.250	.625-24UNEF
MS3406DJ 12 A- XX	AS85049/11-114W	MS3437B-114A	0.312	0.125	.750-20UNEF
MS3406DJ 12 B- XX	AS85049/11-15W	MS3437B-15A	0.625	0.350	.750-20UNEF
MS3406DJ 12 D- XX	AS85049/11-138W	MS3437B-138A	0.500	0.350	.750-20UNEF
MS3406DJ 12 E- XX	AS85049/11-13W	MS3437B-13A	0.437	0.250	.750-20UNEF
MS3406DJ 13 A- XX	AS85049/11-114W	MS3437B-114A	0.312	0.125	.750-20UNEF
MS3406DJ 13 B- XX	AS85049/11-15W	MS3437B-15A	0.625	0.350	.750-20UNEF
MS3406DJ 13 D- XX	AS85049/11-138W	MS3437B-138A	0.500	0.350	.750-20UNEF
MS3406DJ 13 E- XX	AS85049/11-13W	MS3437B-13A	0.437	0.250	.750-20UNEF
MS3406DJ 14 A- XX	AS85049/11-116W	MS3437B-116A	0.437	0.250	.875-20UNEF
MS3406DJ 14 B- XX	AS85049/11-19W	MS3437B-19A	0.750	0.500	.875-20UNEF
MS3406DJ 14 D- XX	AS85049/11-17W	MS3437B-17A	0.575	0.350	.875-20UNEF
MS3406DJ 14 E- XX	AS85049/11-150W	MS3437B-150A	0.312	0.125	.875-20UNEF
MS3406DJ 15 A- XX	AS85049/11-116W	MS3437B-116A	0.437	0.250	.875-20UNEF
MS3406DJ 15 B- XX	AS85049/11-19W	MS3437B-19A	0.750	0.500	.875-20UNEF
MS3406DJ 15 D- XX	AS85049/11-17W	MS3437B-17A	0.575	0.350	.875-20UNEF
MS3406DJ 15 E- XX	AS85049/11-150W	MS3437B-150A	0.312	0.125	.875-20UNEF

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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II

Assembly P/N	Backshell P/N	Superseding Assembly N°	'A' Cable Entry		'B' Thread Class 2
Max	Min				
MS3406DJ 16 A- XX	AS85049/11-21W	MS3437B-21A	0.700	0.500	1.000-20UNEF
MS3406DJ 16 B- XX	AS85049/11-23W	MS3437B-23A	0.937	0.625	1.000-20UNEF
MS3406DJ 16 D- XX	AS85049/11-112W	MS3437B-112A	0.437	0.250	1.000-20UNEF
MS3406DJ 16 E- XX	AS85049/11-118W	MS3437B-118A	0.625	0.350	1.000-20UNEF
MS3406DJ 17 A- XX	AS85049/11-21W	MS3437B-21A	0.700	0.500	1.000-20UNEF
MS3406DJ 17 B- XX	AS85049/11-23W	MS3437B-23A	0.937	0.625	1.000-20UNEF
MS3406DJ 17 D- XX	AS85049/11-112W	MS3437B-112A	0.437	0.250	1.000-20UNEF
MS3406DJ 17 E- XX	AS85049/11-118W	MS3437B-118A	0.625	0.350	1.000-20UNEF
MS3406DJ 18 A- XX	AS85049/11-25W	MS3437B-25A	0.625	0.350	1.125-18UNEF
MS3406DJ 18 B- XX	AS85049/11-27W	MS3437B-27A	0.750	0.500	1.125-18UNEF
MS3406DJ 18 E- XX	AS85049/11-120W	MS3437B-120A	0.312	0.125	1.125-18UNEF
MS3406DJ 18 F- XX	AS85049/11-122W	MS3437B-122A	0.437	0.250	1.125-18UNEF
MS3406DJ 12 A- XX	AS85049/11-31W	MS3437B-31A	0.625	0.350	1.250-18UNEF
MS3406DJ 20 B- XX	AS85049/11-33W	MS3437B-33A	0.750	0.500	1.250-18UNEF
MS3406DJ 20 E- XX	AS85049/11-37W	MS3437B-37A	1.250	0.875	1.250-18UNEF
MS3406DJ 20 F- XX	AS85049/11-124W	MS3437B-124A	0.437	0.250	1.250-18UNEF
MS3406DJ 22 A- XX	AS85049/11-140W	MS3437B-140A	0.904	0.625	1.250-18UNEF
MS3406DJ 22 B- XX	AS85049/11-39W	MS3437B-39A	0.625	0.350	1.375-18UNEF
MS3406DJ 22 D- XX	AS85049/11-41W	MS3437B-41A	0.750	0.500	1.375-18UNEF
MS3406DJ 22 A- XX	AS85049/11-43W	MS3437B-43A	0.937	0.625	1.375-18UNEF
MS3406DJ 22 E- XX	AS85049/11-45W	MS3437B-45A	1.250	0.875	1.375-18UNEF
MS3406DJ 22 F- XX	AS85049/11-125W	MS3437B-125A	0.312	0.125	1.375-18UNEF
MS3406DJ 22 G- XX	AS85049/11-128W	MS3437B-128A	0.437	0.250	1.375-18UNEF
MS3406DJ 22 H- XX	AS85049/11-142W	MS3437B-142A	1.029	0.875	1.375-18UNEF
MS3406DJ 24 A- XX	AS85049/11-47W	MS3437B-47A	0.750	0.500	1.500-18UNEF
MS3406DJ 24 B- XX	AS85049/11-49W	MS3437B-49A	0.812	0.625	1.500-18UNEF
MS3406DJ 24 D- XX	AS85049/11-51W	MS3437B-51A	0.937	0.625	1.500-18UNEF
MS3406DJ 24 E- XX	AS85049/11-53W	MS3437B-53A	1.250	0.875	1.500-18UNEF
MS3406DJ 24 F- XX	AS85049/11-130W	MS3437B-130A	0.625	0.350	1.500-18UNEF
MS3406DJ 24 G- XX	AS85049/11-144W	MS3437B-144A	1.144	0.875	1.500-18UNEF

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AS34061DJ

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II

Assembly P/N	Backshell P/N	Superseding Assembly N°	'A' Cable Entry		'B' Thread Class 2
			Max	Min	
MS3406DJ 28 A- XX	AS85049/11-55W	MS3437B-55A	0.750	0.500	1.750-18UNS
MS3406DJ 28 B- XX	AS85049/11-57W	MS3437B-57A	0.937	0.625	1.750-18UNS
MS3406DJ 28 D- XX	AS85049/11-59W	MS3437B-59A	1.250	0.875	1.750-18UNS
MS3406DJ 28 E- XX	AS85049/11-61W	MS3437B-61A	1.375	1.000	1.750-18UNS
MS3406DJ 32 A- XX	AS85049/11-63W	MS3437B-63A	0.937	0.625	2.00-18UNS
MS3406DJ 32 B- XX	AS85049/11-65W	MS3437B-65A	1.250	0.875	2.00-18UNS
MS3406DJ 32 D- XX	AS85049/11-67W	MS3437B-67A	1.375	1.000	2.00-18UNS
MS3406DJ 32 E- XX	AS85049/11-69W	MS3437B-69A	1.625	1.250	2.00-18UNS
MS3406DJ 36 A- XX	AS85049/11-71W	MS3437B-71A	1.250	0.875	2.250-16UN
MS3406DJ 36 B- XX	AS85049/11-73W	MS3437B-73A	1.375	1.000	2.250-16UN
MS3406DJ 36 D- XX	AS85049/11-75W	MS3437B-75A	1.625	1.250	2.250-16UN
MS3406DJ 36 E- XX	AS85049/11-146W	MS3437B-146A	1.840	1.437	2.250-16UN
MS3406DJ 36 G- XX	AS85049/11-132W	MS3437B-132A	0.750	0.500	2.250-16UN
MS3406DJ 36 F- XX	AS85049/11-148W	MS3437B-148A	0.937	0.625	2.250-16UN
MS3406DJ 40 A- XX	AS85049/11-79W	MS3437B-79A	1.250	0.875	2.500-16UN
MS3406DJ 40 B- XX	AS85049/11-81W	MS3437B-81A	1.375	1.000	2.500-16UN
MS3406DJ 40 D- XX	AS85049/11-83W	MS3437B-83A	1.625	1.250	2.500-16UN
MS3406DJ 40 E- XX	AS85049/11-85W	MS3437B-85A	1.840	1.437	2.500-16UN
MS3406DJ 40 F- XX	AS85049/11-134W	MS3437B-134A	0.750	0.500	2.500-16UN
MS3406DJ 44 A- XX	AS85049/11-87W	MS3437B-87A	1.250	0.875	2.750-16UN
MS3406DJ 44 B- XX	AS85049/11-89W	MS3437B-89A	1.375	1.000	2.750-16UN
MS3406DJ 44 D- XX	AS85049/11-91W	MS3437B-91A	1.625	1.250	2.750-16UN
MS3406DJ 44 E- XX	AS85049/11-93W	MS3437B-93A	1.840	1.437	2.750-16UN
MS3406DJ 44 F- XX	AS85049/11-154W	MS3437B-154A	0.937	0.625	2.750-16UN

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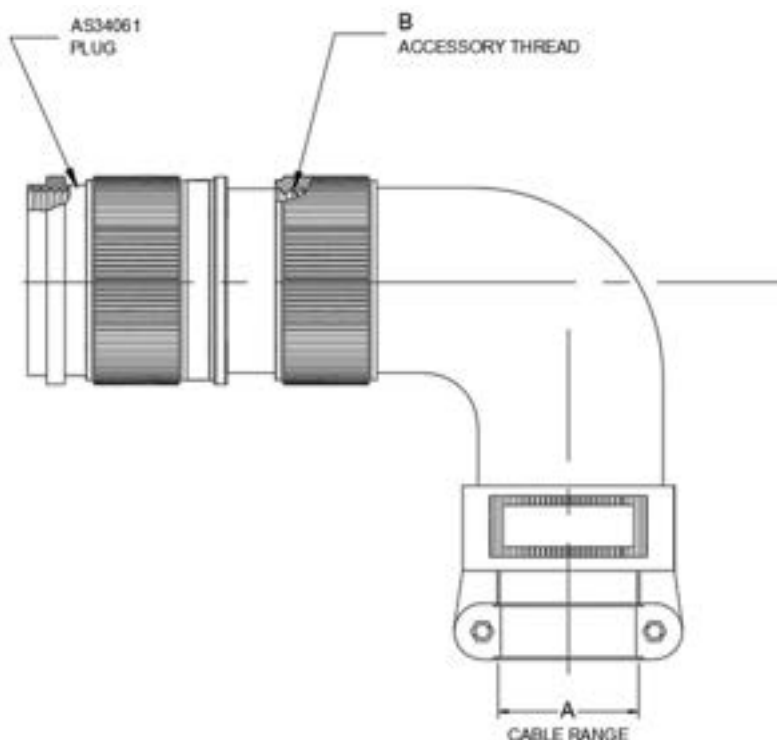
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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Assembly No.	Backshell AsseASbly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3408DJ 10 A- XX	AS85049/9- 04W	MS3188B-04A	0.312	0.125	.625-24UNEF
MS3408DJ 10 B- XX	AS85049/9- 49W	MS3188B-49A	0.437	0.250	.625-24UNEF
MS3408DJ 10 D- XX	AS85049/9- 05W	MS3188B-05A	0.375	0.250	.625-24UNEF
MS3408DJ 11 A- XX	AS85049/9- 04W	MS3188B-04A	0.312	0.125	.625-24UNEF
MS3408DJ 11 B- XX	AS85049/9- 49W	MS3188B-49A	0.437	0.250	.625-24UNEF
MS3408DJ 11 D- XX	AS85049/9- 05W	MS3188B-05A	0.375	0.250	.625-24UNEF
MS3408DJ 12 A- XX	AS85049/9- 06W	MS3188B-06A	0.312	0.125	.750-20UNEF
MS3408DJ 12 B- XX	AS85049/9- 71W	MS3188B-71A	0.625	0.350	.750-20UNEF
MS3408DJ 12 D- XX	AS85049/9- 08W	MS3188B-08A	0.500	0.350	.750-20UNEF
MS3408DJ 12 E- XX	AS85049/9- 07W	MS3188B-07A	0.437	0.250	.750-20UNEF
MS3408DJ 13 A- XX	AS85049/9- 06W	MS3188B-06A	0.312	0.125	.750-20UNEF
MS3408DJ 13 B- XX	AS85049/9- 71W	MS3188B-71A	0.625	0.350	.750-20UNEF
MS3408DJ 13 D- XX	AS85049/9- 08W	MS3188B-08A	0.500	0.350	.750-20UNEF
MS3408DJ 13 E- XX	AS85049/9- 07W	MS3188B-07A	0.437	0.250	.750-20UNEF

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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II

Assembly No.	Backshell AsseASbly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3408DJ 14 A- XX	AS85049/9- 09W	MS3188B-09A	0.437	0.250	.875-20UNEF
MS3408DJ 14 B- XX	AS85049/9- 50W	MS3188B-50A	0.750	0.500	.875-20UNEF
MS3408DJ 14 D- XX	AS85049/9- 10W	MS3188B-10A	0.575	0.350	.875-20UNEF
MS3408DJ 14 E- XX	AS85049/9- 74W	MS3188B-74A	0.312	0.125	.875-20UNEF
MS3408DJ 15 A- XX	AS85049/9- 09W	MS3188B-09A	0.437	0.250	.875-20UNEF
MS3408DJ 15 B- XX	AS85049/9- 50W	MS3188B-50A	0.750	0.500	.875-20UNEF
MS3408DJ 15 D- XX	AS85049/9- 10W	MS3188B-10A	0.575	0.350	.875-20UNEF
MS3408DJ 15 E- XX	AS85049/9- 74W	MS3188B-74A	0.312	0.125	.875-20UNEF
MS3408DJ 16 A- XX	AS85049/9- 12W	MS3188B-12A	0.700	0.500	1.000-20UNEF
MS3408DJ 16 B- XX	AS85049/9- 51W	MS3188B-51A	0.937	0.625	1.000-20UNEF
MS3408DJ 16 D- XX	AS85049/9- 11W	MS3188B-11A	0.437	0.250	1.000-20UNEF
MS3408DJ 16 E- XX	AS85049/9- 40W	MS3188B-40A	0.625	0.350	1.000-20UNEF
MS3408DJ 17 A- XX	AS85049/9- 12W	MS3188B-12A	0.700	0.500	1.000-20UNEF
MS3408DJ 17 B- XX	AS85049/9- 51W	MS3188B-51A	0.937	0.625	1.000-20UNEF
MS3408DJ 17 D- XX	AS85049/9- 11W	MS3188B-11A	0.437	0.250	1.000-20UNEF
MS3408DJ 17 E- XX	AS85049/9- 40W	MS3188B-40A	0.625	0.350	1.000-20UNEF
MS3408DJ 18 A- XX	AS85049/9- 13W	MS3188B-13A	0.625	0.350	1.125-18UNEF
MS3408DJ 18 B- XX	AS85049/9- 52W	MS3188B-52A	0.750	0.500	1.125-18UNEF
MS3408DJ 18 E- XX	AS85049/9- 41W	MS3188B-41A	0.312	0.125	1.125-18UNEF
MS3408DJ 18 F- XX	AS85049/9- 42W	MS3188B-42A	0.437	0.250	1.125-18UNEF
MS3408DJ 20 A- XX	AS85049/9- 15W	MS3188B-15A	0.625	0.350	1.125-18UNEF
MS3408DJ 20 B- XX	AS85049/9- 54W	MS3188B-54A	0.750	0.500	1.125-18UNEF
MS3408DJ 20 E- XX	AS85049/9- 55W	MS3188B-55A	1.250	0.875	1.125-18UNEF
MS3408DJ 20 F- XX	AS85049/9- 43W	MS3188B-43A	0.437	0.250	1.125-18UNEF
MS3408DJ 20 G- XX	AS85049/9- 16W	MS3188B-16A	0.904	0.625	1.125-18UNEF
MS3408DJ 22 A- XX	AS85049/9- 56W	MS3188B-56A	0.625	0.350	1.375-18UNEF
MS3408DJ 22 B- XX	AS85049/9- 17W	MS3188B-17A	0.750	0.500	1.375-18UNEF
MS3408DJ 22 D- XX	AS85049/9- 57W	MS3188B-57A	0.937	0.625	1.375-18UNEF
MS3408DJ 22 E- XX	AS85049/9- 58W	MS3188B-58A	1.250	0.875	1.375-18UNEF
MS3408DJ 22 F- XX	AS85049/9- 44W	MS3188B-44A	0.312	0.125	1.375-18UNEF
MS3408DJ 22 G- XX	AS85049/9- 45W	MS3188B-45A	0.437	0.250	1.375-18UNEF
MS3408DJ 22 H- XX	AS85049/9- 18W	MS3188B-18A	1.029	0.875	1.375-18UNEF

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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II

Assembly No.	Backshell AsseASbly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3408DJ 24 A- XX	AS85049/9- 19W	MS3188B-19A	0.750	0.500	1.500-18UNEF
MS3408DJ 24 D- XX	AS85049/9- 59W	MS3188B-59A	0.937	0.625	1.500-18UNEF
MS3408DJ 24 E- XX	AS85049/9- 73W	MS3188B-73A	1.250	0.875	1.500-18UNEF
MS3408DJ 24 F- XX	AS85049/9- 46W	MS3188B-46A	0.625	0.350	1.500-18UNEF
MS3408DJ 24G- XX	AS85049/9- 20W	MS3188B-20A	1.144	0.875	1.500-18UNEF
MS3408DJ 28 A- XX	AS85049/9- 60W	MS3188B-60A	0.750	0.500	1.750-18UNS
MS3408DJ 28 B- XX	AS85049/9- 21W	MS3188B-21A	0.937	0.625	1.750-18UNS
MS3408DJ 28 D- XX	AS85049/9- 61W	MS3188B-61A	1.250	0.875	1.750-18UNS
MS3408DJ 28 E- XX	AS85049/9- 22W	MS3188B-22A	1.375	1.000	1.750-18UNS
MS3408DJ 32 A- XX	AS85049/9- 23W	MS3188B-23A	0.937	0.625	2.000-18UNS
MS3408DJ 32 B- XX	AS85049/9- 24W	MS3188B-24A	1.125	0.875	2.000-18UNS
MS3408DJ 32 D- XX	AS85049/9- 62W	MS3188B-62A	1.375	1.000	2.000-18UNS
MS3408DJ 32 E- XX	AS85049/9- 25W	MS3188B-25A	1.625	1.250	2.000-18UNS
MS3408DJ 36 A- XX	AS85049/9- 63W	MS3188B-63A	1.125	0.875	2.250-16UN
MS3408DJ 36 B- XX	AS85049/9- 27W	MS3188B-27A	1.375	1.000	2.250-16UN
MS3408DJ 36 D- XX	AS85049/9- 64W	MS3188B-64A	1.625	1.250	2.250-16UN
MS3408DJ 36 E- XX	AS85049/9- 28W	MS3188B-28A	1.840	1.437	2.250-16UN
MS3408DJ 36 F- XX	AS85049/9- 47W	MS3188B-47A	0.750	0.500	2.250-16UN
MS3408DJ 36 G- XX	AS85049/9- 26W	MS3188B-26A	0.937	0.625	2.250-16UN
MS3408DJ 40 A- XX	AS85049/9- 65W	MS3188B-65A	1.250	0.875	2.250-16UN
MS3408DJ 40 B- XX	AS85049/9- 30W	MS3188B-30A	1.375	1.000	2.250-16UN
MS3408DJ 40 D- XX	AS85049/9- 66W	MS3188B-66A	1.625	1.250	2.250-16UN
MS3408DJ 40 E- XX	AS85049/9- 31W	MS3188B-31A	1.840	1.437	2.250-16UN
MS3408DJ 40 F- XX	AS85049/9- 48W	MS3188B-48A	0.750	0.500	2.250-16UN
MS3408DJ 44 A- XX	AS85049/9- 67W	MS3188B-67A	1.250	0.875	2.750-16UN
MS3408DJ 44 B- XX	AS85049/9- 33W	MS3188B-33A	1.375	1.000	2.750-16UN
MS3408DJ 44 D- XX	AS85049/9- 68W	MS3188B-68A	1.625	1.250	2.750-16UN
MS3408DJ 44 E- XX	AS85049/9- 34W	MS3188B-34A	1.840	1.437	2.750-16UN
MS3408DJ 44 F- XX	AS85049/9- 32W	MS3188B-32A	0.937	0.625	2.750-16UN

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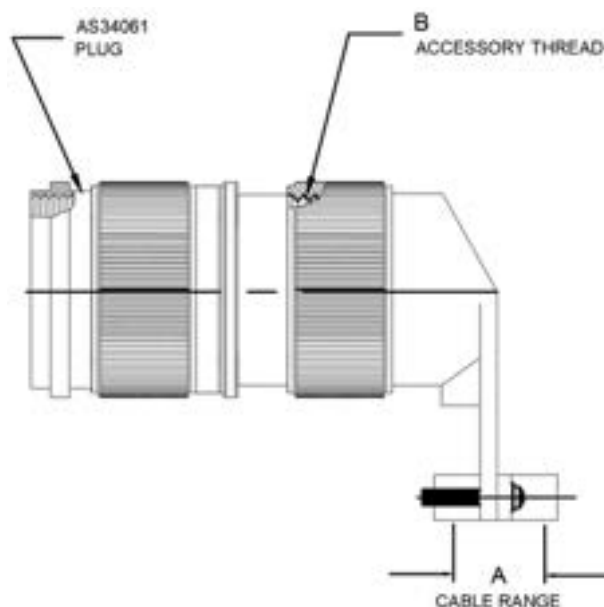
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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Assembly No.	Backshell Assembly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3408D 10S - XX	AS85049/51- 110 X	MS3418-10 X	0.286	0.187	.625-24UNEF
MS3408D 10SL - XX	AS85049/51- 110 X	MS3418-10 X	0.286	0.187	.625-24UNEF
MS3408D 12S - XX	AS85049/51- 112 X	MS3418-12 X	0.416	0.291	.750-20UNEF
MS3408D 12 - XX	AS85049/51- 112 X	MS3418-12 X	0.416	0.291	.750-20UNEF
MS3408D 14S - XX	AS85049/51- 114 X	MS3418-14 X	0.476	0.351	.875-20UNEF
MS3408D 14 - XX	AS85049/51- 114 X	MS3418-14 X	0.476	0.351	.875-20UNEF
MS3408D 16S - XX	AS85049/51- 116 X	MS3418-16 X	0.626	0.501	1.000-20UNEF
MS3408D 16 - XX	AS85049/51- 116 X	MS3418-16 X	0.626	0.501	1.000-20UNEF
MS3408D 18 - XX	AS85049/51- 118 X	MS3418-18 X	0.706	0.518	1.125-18UNEF
MS3408D 20 - XX	AS85049/51- 120 X	MS3418-20 X	0.831	0.581	1.125-18UNEF
MS3408D 22 - XX	AS85049/51- 122 X	MS3418-22 X	0.956	0.644	1.375-18UNEF
MS3408D 24 - XX	AS85049/51- 124 X	MS3418-24 X	1.081	0.706	1.500-18UNEF
MS3408D 28 - XX	AS85049/51- 128 X	MS3418-28 X	1.187	0.750	1.750-18UNS
MS3408D 32 - XX	AS85049/51- 132 X	MS3418-32 X	1.250	0.875	2.000-18UNS
MS3408D 36 - XX	AS85049/51- 136 X	MS3418-36 X	1.375	0.938	2.250-16UN
MS3408D 40 - XX	AS85049/51- 140 X	MS3418-40 X	1.500	0.938	2.250-16UN

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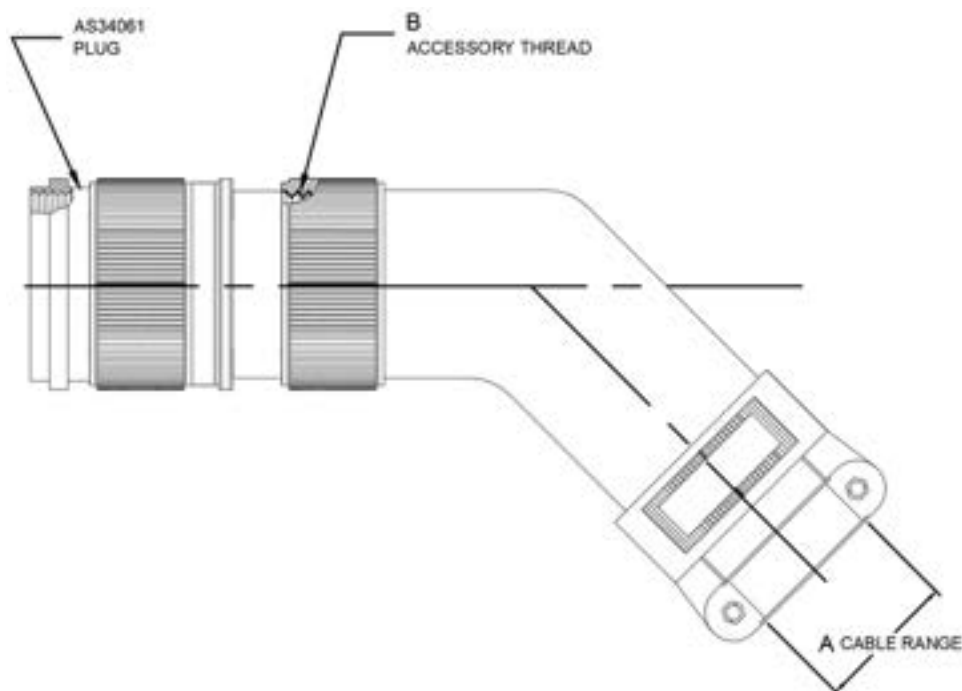
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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



Assembly No.	Backshell Assembly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3409DJ 10 A- XX	AS85049/7- 04W	MS3189B-04A	0.312	0.125	.625-24UNEF
MS3409DJ 10 B- XX	AS85049/7- 49W	MS3189B-49A	0.437	0.250	.625-24UNEF
MS3409DJ 10 D- XX	AS85049/7- 05W	MS3189B-05A	0.375	0.250	.625-24UNEF
MS3409DJ 11 A- XX	AS85049/7- 04W	MS3189B-04A	0.312	0.125	.625-24UNEF
MS3409DJ 11 B- XX	AS85049/7- 49W	MS3189B-49A	0.437	0.250	.625-24UNEF
MS3409DJ 11 D- XX	AS85049/7- 05W	MS3189B-05A	0.375	0.250	.625-24UNEF
MS3409DJ 12 A- XX	AS85049/7- 06W	MS3189B-06A	0.312	0.125	.750-20UNEF
MS3409DJ 12 B- XX	AS85049/7- 71W	MS3189B-71A	0.625	0.350	.750-20UNEF
MS3409DJ 12 D- XX	AS85049/7- 08W	MS3189B-08A	0.500	0.350	.750-20UNEF
MS3409DJ 12 E- XX	AS85049/7- 07W	MS3189B-07A	0.437	0.250	.750-20UNEF
MS3409DJ 13 A- XX	AS85049/7- 06W	MS3189B-06A	0.312	0.125	.750-20UNEF
MS3409DJ 13 B- XX	AS85049/7- 71W	MS3189B-71A	0.625	0.350	.750-20UNEF
MS3409DJ 13 D- XX	AS85049/7- 08W	MS3189B-08A	0.500	0.350	.750-20UNEF
MS3409DJ 13 E- XX	AS85049/7- 07W	MS3189B-07A	0.437	0.250	.750-20UNEF

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SERIES II

Assembly No.	Backshell Assembly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3409DJ 14 A- XX	AS85049/7- 09W	MS3189B-09A	0.437	0.250	.875-20UNEF
MS3409DJ 14 B- XX	AS85049/7- 50W	MS3189B-50A	0.750	0.500	.875-20UNEF
MS3409DJ 14 D- XX	AS85049/7- 10W	MS3189B-10A	0.575	0.350	.875-20UNEF
MS3409DJ 14 E- XX	AS85049/7- 74W	MS3189B-74A	0.312	0.125	.875-20UNEF
MS3409DJ 15 A- XX	AS85049/7- 09W	MS3189B-09A	0.437	0.250	.875-20UNEF
MS3409DJ 15 B- XX	AS85049/7- 50W	MS3189B-50A	0.750	0.500	.875-20UNEF
MS3409DJ 15 D- XX	AS85049/7- 10W	MS3189B-10A	0.575	0.350	.875-20UNEF
MS3409DJ 15 E- XX	AS85049/7- 74W	MS3189B-74A	0.312	0.125	.875-20UNEF
MS3409DJ 16 A- XX	AS85049/7- 12W	MS3189B-12A	0.700	0.500	1.000-20UNEF
MS3409DJ 16 B- XX	AS85049/7- 51W	MS3189B-51A	0.937	0.625	1.000-20UNEF
MS3409DJ 16 D- XX	AS85049/7- 11W	MS3189B-11A	0.437	0.250	1.000-20UNEF
MS3409DJ 16 E- XX	AS85049/7- 40W	MS3189B-40A	0.625	0.350	1.000-20UNEF
MS3409DJ 17 A- XX	AS85049/7- 12W	MS3189B-12A	0.700	0.500	1.000-20UNEF
MS3409DJ 17 B- XX	AS85049/7- 51W	MS3189B-51A	0.937	0.625	1.000-20UNEF
MS3409DJ 17 D- XX	AS85049/7- 11W	MS3189B-11A	0.437	0.250	1.000-20UNEF
MS3409DJ 17 E- XX	AS85049/7- 40W	MS3189B-40A	0.625	0.350	1.000-20UNEF
MS3409DJ 18 A- XX	AS85049/7- 13W	MS3189B-13A	0.625	0.350	1.125-18UNEF
MS3409DJ 18 B- XX	AS85049/7- 52W	MS3189B-52A	0.750	0.500	1.125-18UNEF
MS3409DJ 18 E- XX	AS85049/7- 41W	MS3189B-41A	0.312	0.125	1.125-18UNEF
MS3409DJ 18 F- XX	AS85049/7- 42W	MS3189B-42A	0.437	0.250	1.125-18UNEF
MS3409DJ 20 A- XX	AS85049/7- 15W	MS3189B-15A	0.625	0.350	1.125-18UNEF
MS3409DJ 20 B- XX	AS85049/7- 54W	MS3189B-54A	0.750	0.500	1.125-18UNEF
MS3409DJ 20 E- XX	AS85049/7- 55W	MS3189B-55A	1.250	0.875	1.125-18UNEF
MS3409DJ 20 F- XX	AS85049/7- 43W	MS3189B-43A	0.437	0.250	1.125-18UNEF
MS3409DJ 20 G- XX	AS85049/7- 16W	MS3189B-16A	0.904	0.625	1.125-18UNEF
MS3409DJ 22 A- XX	AS85049/7- 56W	MS3189B-56A	0.625	0.350	1.375-18UNEF
MS3409DJ 22 B- XX	AS85049/7- 17W	MS3189B-17A	0.750	0.500	1.375-18UNEF
MS3409DJ 22 D- XX	AS85049/7- 57W	MS3189B-57A	0.937	0.625	1.375-18UNEF
MS3409DJ 22 E- XX	AS85049/7- 58W	MS3189B-58A	1.250	0.875	1.375-18UNEF
MS3409DJ 22 F- XX	AS85049/7- 44W	MS3189B-44A	0.312	0.125	1.375-18UNEF
MS3409DJ 22 G- XX	AS85049/7- 45W	MS3189B-45A	0.437	0.250	1.375-18UNEF
MS3409DJ 22 H- XX	AS85049/7- 18W	MS3189B-18A	1.029	0.875	1.375-18UNEF

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MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II

Assembly No.	Backshell Assembly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3409DJ 24 A- XX	AS85049/7- 19W	MS3189B-19A	0.750	0.500	1.500-18UNEF
MS3409DJ 24 D- XX	AS85049/7- 59W	MS3189B-59A	0.937	0.625	1.500-18UNEF
MS3409DJ 24 E- XX	AS85049/7- 73W	MS3189B-73A	1.250	0.875	1.500-18UNEF
MS3409DJ 24 F- XX	AS85049/7- 46W	MS3189B-46A	0.625	0.350	1.500-18UNEF
MS3409DJ 24G- XX	AS85049/7- 20W	MS3189B-20A	1.144	0.875	1.500-18UNEF
MS3409DJ 28 A- XX	AS85049/7- 60W	MS3189B-60A	0.750	0.500	1.750-18UNS
MS3409DJ 28 B- XX	AS85049/7- 21W	MS3189B-21A	0.937	0.625	1.750-18UNS
MS3409DJ 28 D- XX	AS85049/7- 61W	MS3189B-61A	1.250	0.875	1.750-18UNS
MS3409DJ 28 E- XX	AS85049/7- 22W	MS3189B-22A	1.375	1.000	1.750-18UNS
MS3409DJ 32 A- XX	AS85049/7- 23W	MS3189B-23A	0.937	0.625	2.000-18UNS
MS3409DJ 32 B- XX	AS85049/7- 24W	MS3189B-24A	1.125	0.875	2.000-18UNS
MS3409DJ 32 D- XX	AS85049/7- 62W	MS3189B-62A	1.375	1.000	2.000-18UNS
MS3409DJ 32 E- XX	AS85049/7- 25W	MS3189B-25A	1.625	1.250	2.000-18UNS
MS3409DJ 36 A- XX	AS85049/7- 63W	MS3189B-63A	1.125	0.875	2.250-16UN
MS3409DJ 36 B- XX	AS85049/7- 27W	MS3189B-27A	1.375	1.000	2.250-16UN
MS3409DJ 36 D- XX	AS85049/7- 64W	MS3189B-64A	1.625	1.250	2.250-16UN
MS3409DJ 36 E- XX	AS85049/7- 28W	MS3189B-28A	1.840	1.437	2.250-16UN
MS3409DJ 36 F- XX	AS85049/7- 47W	MS3189B-47A	0.750	0.500	2.250-16UN
MS3409DJ 36 G- XX	AS85049/7- 26W	MS3189B-26A	0.937	0.625	2.250-16UN
MS3409DJ 40 A- XX	AS85049/7- 65W	MS3189B-65A	1.250	0.875	2.250-16UN
MS3409DJ 40 B- XX	AS85049/7- 30W	MS3189B-30A	1.375	1.000	2.250-16UN
MS3409DJ 40 D- XX	AS85049/7- 66W	MS3189B-66A	1.625	1.250	2.250-16UN
MS3409DJ 40 E- XX	AS85049/7- 31W	MS3189B-31A	1.840	1.437	2.250-16UN
MS3409DJ 40 F- XX	AS85049/7- 48W	MS3189B-48A	0.750	0.500	2.250-16UN
MS3409DJ 44 A- XX	AS85049/7- 67W	MS3189B-67A	1.250	0.875	2.750-16UN
MS3409DJ 44 B- XX	AS85049/7- 33W	MS3189B-33A	1.375	1.000	2.750-16UN
MS3409DJ 44 D- XX	AS85049/7- 68W	MS3189B-68A	1.625	1.250	2.750-16UN
MS3409DJ 44 E- XX	AS85049/7- 34W	MS3189B-34A	1.840	1.437	2.750-16UN
MS3409DJ 44 F- XX	AS85049/7- 32W	MS3189B-32A	0.937	0.625	2.750-16UN

CAGE Code: 1R6R9

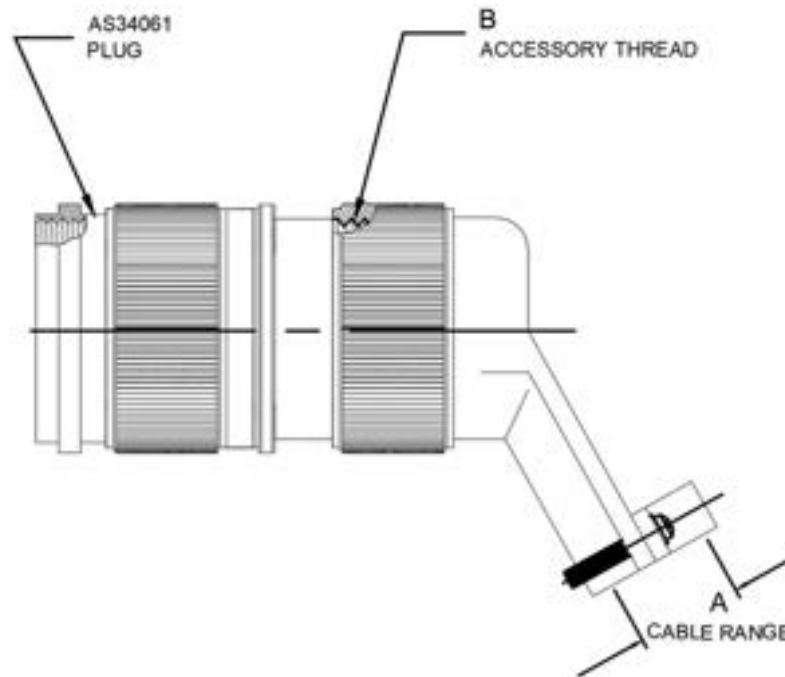
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AS34091D

MIL-DTL-5015 SERIES II



MIL-DTL-5015
SERIES II



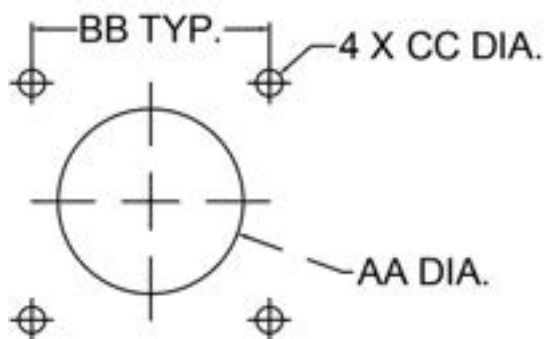
Assembly No.	Backshell Assembly No.	Superseding Assembly N°	A Cable Entry		B Thread Class 2B
			MAX	MIN	
MS3409D 10S - XX	AS85049/43- 110 X	MS3415-10 X	0.286	0.187	.625-24UNEF
MS3409D 10SL - XX	AS85049/43- 110 X	MS3415-10 X	0.286	0.187	.625-24UNEF
MS3409D 12S - XX	AS85049/43- 112 X	MS3415-12 X	0.416	0.291	.750-20UNEF
MS3409D 12 - XX	AS85049/43- 112 X	MS3415-12 X	0.416	0.291	.750-20UNEF
MS3409D 14S - XX	AS85049/43- 114 X	MS3415-14 X	0.476	0.351	.875-20UNEF
MS3409D 14 - XX	AS85049/43- 114 X	MS3415-14 X	0.476	0.351	.875-20UNEF
MS3409D 16S - XX	AS85049/43- 116 X	MS3415-16 X	0.626	0.501	1.000-20UNEF
MS3409D 16 - XX	AS85049/43- 116 X	MS3415-16 X	0.626	0.501	1.000-20UNEF
MS3409D 18 - XX	AS85049/43- 118 X	MS3415-18 X	0.706	0.518	1.125-18UNEF
MS3409D 20 - XX	AS85049/43- 120 X	MS3415-20 X	0.831	0.581	1.125-18UNEF
MS3409D 22 - XX	AS85049/43- 122 X	MS3415-22 X	0.956	0.644	1.375-18UNEF
MS3409D 24 - XX	AS85049/43- 124 X	MS3415-24 X	1.081	0.706	1.500-18UNEF
MS3409D 28 - XX	AS85049/43- 128 X	MS3415-28 X	1.187	0.750	1.750-18UNS
MS3409D 32 - XX	AS85049/43- 132 X	MS3415-32 X	1.250	0.875	2.000-18UNS
MS3409D 36 - XX	AS85049/43- 136 X	MS3415-36 X	1.375	0.938	2.250-16UN
MS3409D 40 - XX	AS85049/43- 140 X	MS3415-40 X	1.500	0.938	2.250-16UN

CAGE Code: 1R6R9

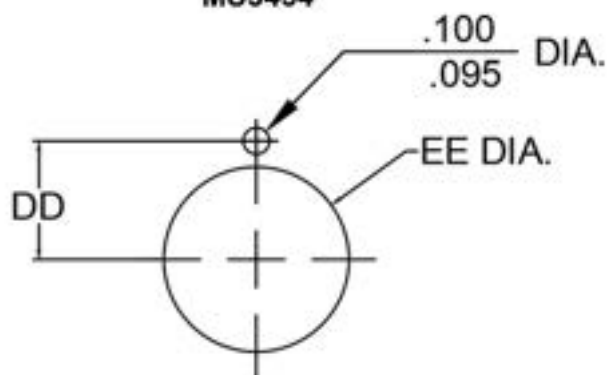
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RECOMMENDED PANEL DIMENSIONS

MS3450 & MS3452



MS3454



SHELL SIZE	PANEL THICKNESS		MOUNTING DIMENSIONS					
	MS3454	MS3450 MS3452 MAX.	AA DIA. ± 0.015	BB ± 0.015	CC DIA. CLASS D, L, & W	.010 CLASS .005 K	DD ± 0.005	EE DIA. + 0.005 - .010
8S	.140/.090	0.187	0.562	0.594	0.120	0.150	0.323	0.515
10S	.140/.090	0.187	0.688	0.719	0.120	0.150	0.385	0.640
10SL	.140/.090	0.187	0.688	0.719	0.120	0.150	0.385	0.640
12S	.140/.090	0.187	0.812	0.812	0.120	0.150	0.448	0.765
12	.140/.091	0.125	0.812	0.812	0.120	0.150	0.448	0.765
14S	.140/.090	0.187	0.938	0.906	0.120	0.150	0.510	0.890
14	.140/.090	0.125	0.938	0.906	0.120	0.150	0.510	0.890
16S	.140/.090	0.187	1.062	0.969	0.120	0.150	0.573	1.015
16	.140/.090	0.125	1.062	0.969	0.120	0.150	0.573	1.015
18	.140/.090	0.125	1.188	1.062	0.120	0.177	0.635	1.140
20	.140/.090	0.125	1.312	1.156	0.120	0.177	0.698	1.265
22	.140/.090	0.125	1.438	1.250	0.120	0.177	0.760	1.390
24	.140/.090	0.187	1.562	1.375	0.147	0.177	0.823	1.515
28	.140/.090	0.187	1.812	1.562	0.147	0.177	0.948	1.765
32	.140/.090	0.250	2.062	1.750	0.173	0.209	1.073	2.015
36	.140/.110	0.250	2.312	1.938	0.173	0.209	1.198	2.265
40	.140/.110	0.250	2.562	2.188	0.173	0.209	1.323	2.515

MIL-DTL-5015

SERIES III



MILITARY PREFIX	MS34	50	W	28	3	P	W
CORSAIR PREFIX	CJ09	50	W	28	3	P	W

CONNECTOR CONFIGURATION

50 RECEPTACLE, WALL MOUNT
51 RECEPTACLE, CABLE CONNECTING
52 RECEPTACLE, BOX MOUNT
54 RECEPTACLE, JAM NUT
56 PLUG, STRAIGHT
59 PLUG, SELF-LOCKING

CLASS

KS STAINLESS STEEL, PASSIVATED, FIREWALL
KT CARBON STEEL, CADMIUM, FIREWALL
LS STAINLESS STEEL, PASSIVATED, FLUID RESISTANT INSERT
L ALUMINUM, ELECTROLESS NICKEL
W ALUMINUM OLIVE DRAB CADMIUM OVER ELECTROLESS NICKEL BASE,
(500 HR CORROSION RESISTANT)

SHELL SIZE

8S, 10S, 10SL, 12, 12S, 14, 14S, 16, 16S, 18, 20, 22, 24, 28, 32, 36 AND 40

INSERT ARRANGEMENT

REFER TO LAYOUT PATTERNS PER MIL-DTL-1651

CONTACT TYPE

P PIN
S SOCKET
A CONNECTOR LESS PINS
B CONNECTOR LESS SOCKETS

POLARIZATION

N NORMAL (NOT INCLUDED IN PART NUMBER)
W, X, Y, OR Z ALTERNATE POSITIONS REFER TO
POLARIZATION CHART

GENERAL SPECIFICATIONS NOTES

- REAR RELEASE CONTACT RETENTION SYSTEM.
- 14 SHELL SIZES (8 TO 40) IN OVER 150 INSERT ARRANGEMENTS UTILIZING CONTACT SIZES 16, 16S, 12, 8, 4, AND 0 GAGE CRIMP CONTACTS PER MIL-C-39029.
- THREADED COUPLING MECHANISM.
- POLARIZATION BY INSERT ROTATION PER MIL-C-1669.

OPERATING TEMPERATURE RANGE:

CLASS K: -55 C (-67 F) TO 175 C (347 F)

CLASS L: -55 C (-67 F) TO 200 C (392 F)

CLASS W: -55 C (-67 F) TO 175 C (347 F)

ENVIRONMENTAL FLOUROSILICONE
ELASTOMERS

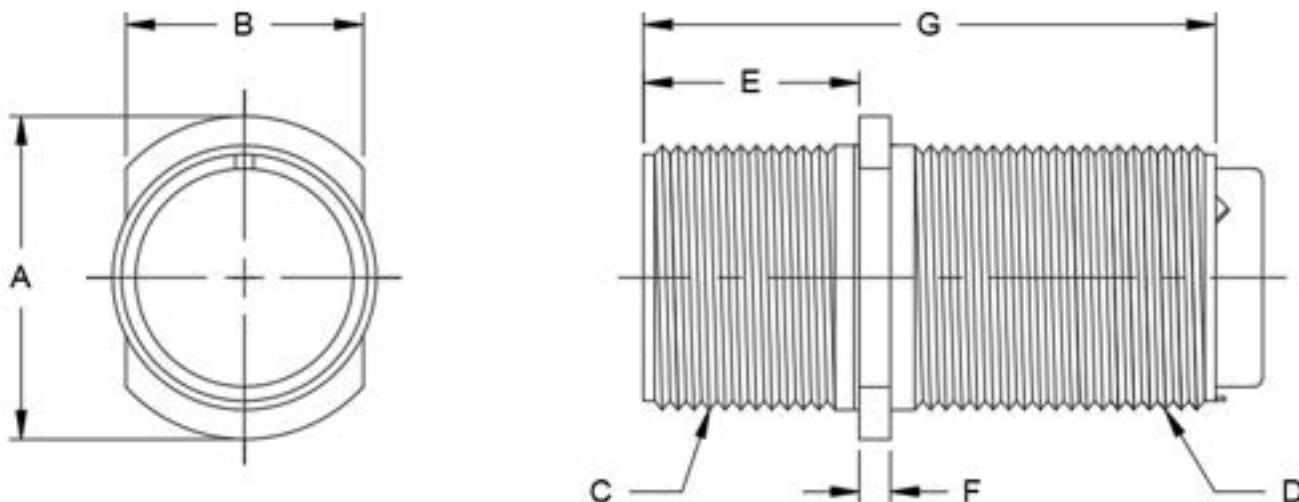
REFER TO ADDITIONAL CONTACT AND
TOOLING INFORMATION

MS3451

MIL-DTL-5015 SERIES III



MIL-DTL-5015
SERIES III



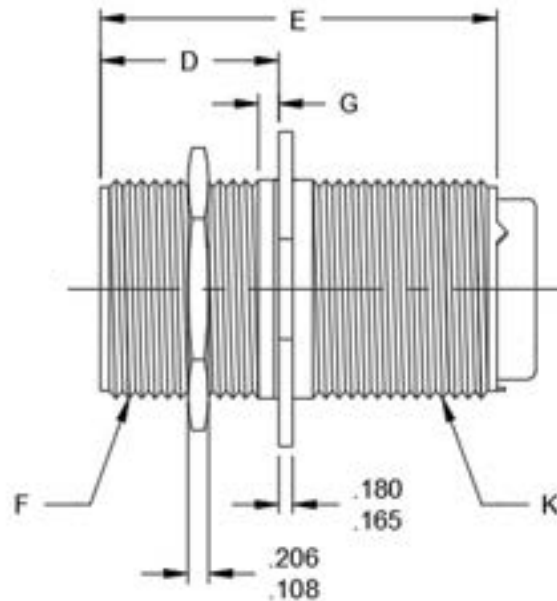
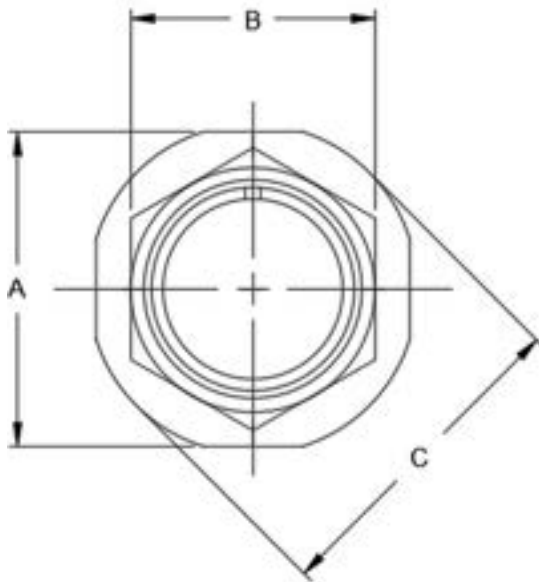
Shell Size	A ±.031	B		C Coupling Threads Class 2A	D Accessory Thread Class 2A	E +.031 -0.000	F ±.015	G Max Contact Size	
		Max	Min					16 & 12	8, 4, & 0
8S	0.729	0.504	0.496	1/2-28 UNEF	1/2-20 UNEF	0.562	0.830	2.031	-
10S	0.854	0.629	0.621	5/8-24 UNEF	5/8-24 UNEF	0.562	0.830	2.031	-
10SL	0.854	0.629	0.621	5/8-24 UNEF	5/8-24 UNEF	0.562	0.830	2.031	-
12S	0.974	0.754	0.746	3/4-20 UNEF	3/4-20 UNEF	0.562	0.830	2.031	-
12	0.974	0.754	0.746	3/4-20 UNEF	3/4-20 UNEF	0.750	0.830	2.125	-
14S	1.099	0.879	0.871	7/8-20 UNEF	7/8-20 UNEF	0.562	0.830	2.031	-
14	1.099	0.879	0.871	7/8-20 UNEF	7/8-20 UNEF	0.750	0.830	2.125	-
16S	1.224	1.005	0.996	1-20 UNEF	1-20 UNEF	0.562	0.830	2.031	-
16	1.224	1.005	0.996	1-20 UNEF	1-20 UNEF	0.750	0.830	2.125	2.500
18	1.349	1.131	1.121	1 1/8-18 UNEF	1 1/16-18 UNEF	0.750	0.125	2.125	2.500
20	1.474	1.256	1.246	1 1/4-18 UNEF	1 3/16-18 UNEF	0.750	0.125	2.125	2.500
22	1.599	1.381	1.371	1 3/8-18 UNEF	1 5/16-18 UNEF	0.750	0.125	2.125	2.500
24	1.715	1.506	1.496	1 1/2-18 UNEF	1 7/16-18 UNEF	0.812	0.125	2.125	2.500
28	1.974	1.756	1.746	1 3/4-18 UNS	1 3/4-18 UNEF	0.812	0.125	2.125	2.500
32	2.224	2.007	1.996	2-18 UNS	2-18 UNS	0.875	0.125	2.125	2.500
36	2.474	2.257	2.246	2 1/4-16 UN	2 1/4-16 UN	0.875	0.125	2.125	2.500
40	2.724	2.511	2.496	2 1/2-16 UN	2 1/2-16 UN	0.875	0.125	2.125	2.500
44	2.974	2.746	2.761	2 3/4-16 UN	2 3/4-16 UN	0.875	0.125	2.125	2.500
48	3.224	2.996	3.011	3-16 UN	3-16 UN	0.875	0.125	2.125	2.500

MS3454

MIL-DTL-5015 SERIES III



MIL-DTL-5015
SERIES III



Shell Size	A	B	C	D	E		F Coupling Thread Class 2A	G	K Accessory Thread Class 2A
					Max. Contact Size				
	±.005	±.017	±.005	±.005	16 & 12	8, 4, & 0		Max.	
8S	1.187	.687	1.272	.720	2.031	-	1/2-28 UNEF	.128	1/2-20 UNEF
10S	1.312	.812	1.397	.720	2.031	-	5/8-24 UNEF	.128	5/8-24 UNEF
10SL	1.312	.812	1.397	.720	2.031	-	5/8-24 UNEF	.128	5/8-24 UNEF
12S	1.437	.937	1.522	.720	2.031	-	3/4-20 UNEF	.128	3/4-20 UNEF
12	1.437	.937	1.522	.970	2.125	-	3/4-20 UNEF	.128	3/4-20 UNEF
14S	1.562	1.062	1.647	.720	2.031	-	7/8-20 UNEF	.128	7/8-20 UNEF
14	1.562	1.062	1.647	.970	2.125	-	7/8-20 UNEF	.128	7/8-20 UNEF
16S	1.687	1.188	1.772	.720	2.031	-	1-20 UNEF	.128	1-20 UNEF
16	1.687	1.188	1.772	.970	2.125	2.500	1-20 UNEF	.128	1-20 UNEF
18	1.812	1.312	1.897	.970	2.125	2.500	1 1/8-18 UNEF	.128	1 1/16-18 UNEF
20	1.937	1.438	2.022	.970	2.125	2.500	1 1/4-18 UNEF	.128	1 3/16-18 UNEF
22	2.156	1.562	2.341	.970	2.125	2.500	1 3/8-18 UNEF	.128	1 5/16-18 UNEF
24	2.281	1.688	2.366	.970	2.125	2.500	1 1/2-18 UNEF	.128	1 7/16-18 UNEF
28	2.531	2.000	2.616	.970	2.125	2.500	1 3/4-18 UNS	.128	1 3/4-18 UNEF
32	2.781	2.250	2.866	.970	2.125	2.500	2-18 UNS	.128	2-18 UNS
36	3.031	2.500	3.116	.970	2.125	2.500	2 1/4-16 UN	.128	2 1/4-16 UN
40	3.281	2.750	3.366	.970	2.125	2.500	2 1/2-16 UN	.128	2 1/2-16 UN
44	3.531	3.000	3.541	.970	2.125	2.500	2 3/4-16 UN	.128	2 3/4-16 UN
48	3.781	3.250	3.831	.970	2.125	2.500	3-16 UN	.128	3-16 UN

CAGE Code: 1R6R9

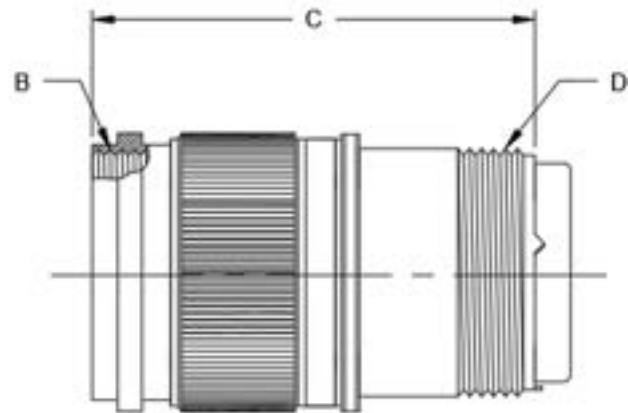
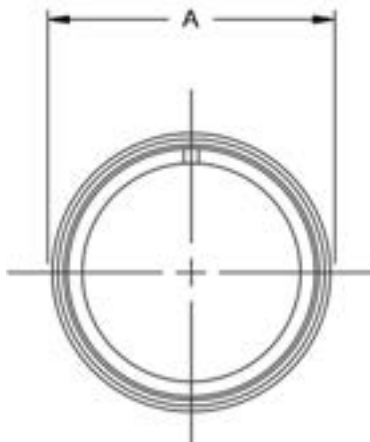
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MS3456

MIL-DTL-5015 SERIES III



MIL-DTL-5015
SERIES III



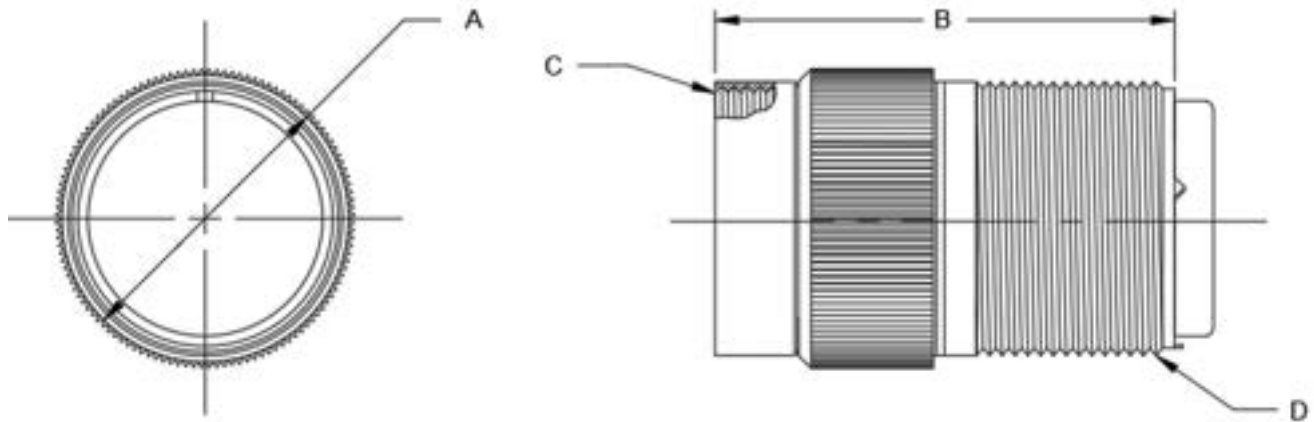
Shell Size	A	B		C	D
		Max Contact Size			
	Max.	16 & 12	8, 4, & 0	Class 2B	Class 2A
8S	0.844	2.031	-	1/2-28 UNEF	1/2-20 UNEF
10S	0.969	2.031	-	5/8-24 UNEF	5/8-24 UNEF
10SL	0.969	2.031	-	5/8-24 UNEF	5/8-24 UNEF
12S	1.062	2.031	-	3/4-20 UNEF	3/4-20 UNEF
12	1.062	2.125	-	3/4-20 UNEF	3/4-20 UNEF
14S	1.156	2.031	-	7/8-20 UNEF	7/8-20 UNEF
14	1.156	2.125	-	7/8-20 UNEF	7/8-20 UNEF
16S	1.250	2.031	-	1-20 UNEF	1-20 UNEF
16	1.250	2.125	2.500	1-20 UNEF	1-20 UNEF
18	1.344	2.125	2.500	1 1/8-18 UNEF	1 1/16-18 UNEF
20	1.469	2.125	2.500	1 1/4-18 UNEF	1 3/16-18 UNEF
22	1.594	2.125	2.500	1 3/8-18 UNEF	1 5/16-18 UNEF
24	1.719	2.125	2.500	1 1/2-18 UNEF	1 7/16-18 UNEF
28	1.969	2.125	2.500	1 3/4-18 UNS	1 3/4-18 UNEF
32	2.219	2.125	2.500	2-18 UNS	2-18 UNS
36	2.469	2.125	2.500	2 1/4-16 UN	2 1/4-16 UN
40	2.719	2.125	2.500	2 1/2-16 UN	2 1/2-16 UN
44	2.569	2.125	2.500	2 3/4-16 UN	2 3/4-16 UN
48	3.219	2.125	2.500	3-16 UN	3-16 UN

MS3459

MIL-DTL-5015 SERIES III



MIL-DTL-5015
SERIES III



Shell Size	A Max.	B		C Coupling Threads Class 2B	D Accessory Thread Class 2A
		Max Contact Size 16 & 12	8, 4, & 0		
8S	0.963	2.031	-	1/2-28 UNEF	1/2-20 UNEF
10S	1.088	2.031	-	5/8-24 UNEF	5/8-24 UNEF
10SL	1.088	2.031	-	5/8-24 UNEF	5/8-24 UNEF
12S	1.213	2.031	-	3/4-20 UNEF	3/4-20 UNEF
12	1.213	2.125	-	3/4-20 UNEF	3/4-20 UNEF
14S	1.358	2.031	-	7/8-20 UNEF	7/8-20 UNEF
14	1.358	2.125	-	7/8-20 UNEF	7/8-20 UNEF
16S	1.463	2.031	-	1-20 UNEF	1-20 UNEF
16	1.463	2.125	2.500	1-20 UNEF	1-20 UNEF
18	1.588	2.125	2.500	1 1/8-18 UNEF	1 1/16-18 UNEF
20	1.713	2.125	2.500	1 1/4-18 UNEF	1 3/16-18 UNEF
22	1.788	2.125	2.500	1 3/8-18 UNEF	1 5/16-18 UNEF
24	1.963	2.125	2.500	1 1/2-18 UNEF	1 7/16-18 UNEF
28	2.213	2.125	2.500	1 3/4-18 UNS	1 3/4-18 UNEF
32	2.463	2.125	2.500	2-18 UNS	2-18 UNS
36	2.713	2.125	2.500	2 1/4-16 UN	2 1/4-16 UN
40	2.963	2.125	2.500	2 1/2-16 UN	2 1/2-16 UN

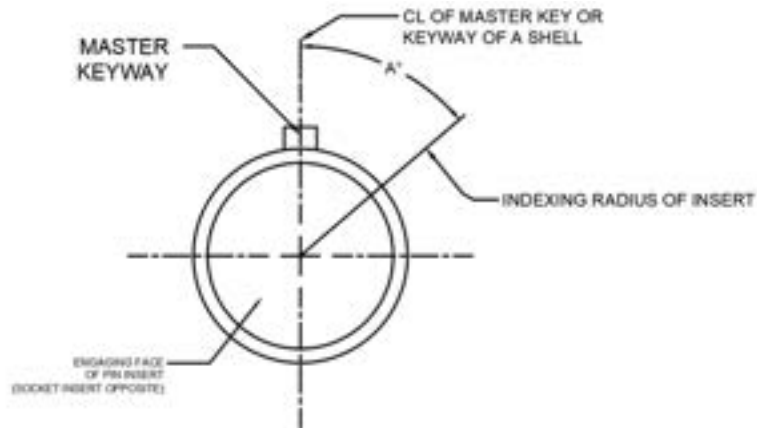
MIL-DTL-5015

SERIES II & III



NORMAL POSITIONS - THE CENTERLINE OF THE FACE VIEW OF THE INSERT PATTERN (SEE INSERT PATTERN LAYOUT CHART) IS ALIGNED WITH THE SHELL KEYWAY ON THE PLUG AND THE KEY ON THE RECEPTACLE. THEREFORE, ANGLE A ON THE OPPOSITE DRAWING WOULD BE ZERO DEGREES.

ALTERNATE POSITIONS - THE CENTERLINE OF THE FACE VIEW OF THE INSERT PATTERN (SEE INSERT PATTERN LAYOUT CHART) IS ROTATED IN RELATIONSHIP TO THE SHELL KEYWAY ON THE PLUG AND KEY ON THE RECEPTACLE. PIN INSERTS ARE ROTATED CLOCKWISE. THEREFORE A 12S-3 PIN INSERT LAYOUT IN THE W POSITION WOULD HAVE AN ANGLE A (ON THE OPPOSITE DRAWING) OF 70 DEGREES.



INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	5015	QUANTITY		SIZE	W	X	Y
SHELL SIZE 8							
8S-1	1	16	A	---	---	---	---
SHELL SIZE 10							
10S-2	1	16	A	---	---	---	---
10S-3	3	16	A	---	---	---	---
10S-4	2	16	A	---	---	---	---
SHELL SIZE 12							
12S-1	2	16	A	12S-3 ROTATED 100 DEGREES C/W IN SHELL			
12S-2	2	16	A	12S-3 ROTATED 250 DEGREES C/W IN SHELL			
12S-3	2	16	A	70	145	215	290
12S-4	1	16	D	---	---	---	---
12S-5	1	12	D	---	---	---	---
SHELL SIZE 14							
14S-1	3	16	A	---	---	---	---
14S-2	4	16	INST	---	120	240	---
14S-3	1	8	A	---	---	---	---
14S-5	5	16	INST	---	110	---	---
14S-6	6	16	INST	---	---	---	---
14S-7	3	16	A	90	180	270	---
14S-9	2	16	A	70	145	215	290
14S-10	4	16	INST	14S-2 ROTATED 100 DEGREES C/W IN SHELL			
14S-11	4	16	INST	12S-2 ROTATED 250 DEGREES C/W IN SHELL			
SHELL SIZE 16							
16S-1	7	16	A	80	---	---	280
16S-2	1	12	E	---	---	---	---
16S-3	1	16	B	---	---	---	---
16S-4	2	16	D	35	110	250	325
16S-7	2	16	A	80	110	250	280
16S-8	5	16	A	---	170	265	---
16S-9	2	16	A	35	110	250	325
16S-10	3	12	A	90	180	270	---
16S-11	2	12	A	35	110	250	325
16S-12	1	4	A	---	---	---	---
16S-13	2	12	A	35	110	250	325

INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	1015	QUANTITY		SIZE	W	X	Y
SHELL SIZE 18							
18-1	4	16	A (B, C, F, G)	70	145	215	290
	6		INST				
18-4	4	16	D	35	110	250	325
18-5	1	16	D	80	110	250	280
	2	12	D				
18-6	1	4	D	---	---	---	---
18-7	1	8	B	---	---	---	---
18-8	7	16	A	70	---	---	290
	1	12					
18-9	5	16	INST	80	110	250	280
	2	12					
18-10	4	12	A	---	120	240	---
18-11	5	12	A	---	170	265	---
18-12	6	16	A	80	---	---	280
18-13	3	12	A	80	110	250	280
	1	8					
18-14	1	16	A	80	110	250	280
	1	4					
18-15	4	12	A	---	120	240	---
18-16	1	12	C	---	---	---	---
18-17	5	16	INST	18-9 INSERT ROTATED 100 DEGREES CW IN SHELL			
	2	12					
18-18	5	16	INST	18-9 INSERT ROTATED 250 DEGREES CW IN SHELL			
	2	12					
18-19	10	16	A	---	120	240	---
18-20	5	16	A	90	180	270	---
18-22	3	16	D	70	145	215	290
18-23	4	16	A	18-1 INSERT ROTATED 100 DEGRESS CW IN SHELL			
	6		INST				
18-24	4	16	A	18-1 INSERT ROTATED 250 DEGRESS CW IN SHELL			
	6	INST					
18-27	1	16	D	18-5 INSERT ROTATED 100 DEGRESS CW IN SHELL			
	2	12					
18-28	1	16	D	18-5 INSERT ROTATED 250 DEGRESS CW IN SHELL			
	2	12					

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INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 20							
20-1	14	20	INST.	---	---	---	---
20-2	1	0	D	---	---	---	---
20-3	3	12	D	70	---	---	---
20-4	4	12	D	45	---	---	---
20-7	4	16	D (A, B, G, H)	80	---	---	---
	4	16	A (ALL)				
20-8	4	16	INST.	80	---	---	---
	2	8					
20-9	1	12	D (H)	80	---	---	---
	7	16	A (ALL)				
20-11	13	16	INST.	---	---	---	---
20-14	3	12	A	80	110	250	280
20-15	2	8	A	80	---	---	280
	7	16					
20-16	2	12	A	80	110	250	280
	1	16					
20-17	5	12	A	90	180	270	---
	6	16					
20-18	3	12	A	35	110	250	325
	3	8					
20-19	8	16	A	90	180	270	---
	1	12					
20-21	3	16	A	35	110	250	325
	3	8					
20-22	2	16	A	80	110	250	280
	2	16					
20-24	2	16	A	35	110	250	325
20-27	14	16	A	35	110	250	325
20-29	17	16	A	80	---	---	280
20-32	4	16	D (A, B, G, H)	20-7 INSERT ROTATED 260 DEGREES C/W IN SHELL			
	4	16	A (ALL)				
20-33	11	16	A	---	---	---	---

INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 24							
24-1	1	12	D	80	110	250	280
	1	0	D				
24-2	7	12	D	80	---	---	280
24-4	3	16	A	80	110	250	280
	1	0	D (A, G, H)				
24-5	16	16	A (ALL)	80	110	250	280
24-6	3	12	A	80	110	250	280
	5	12	A				
24-7	14	16	A	80	110	250	280
	2	12	A				
24-9	2	4	A	35	110	250	325
24-10	7	8	A	80	---	---	280
24-11	6	12	A	35	110	250	325
	3	8					
24-12	3	12	A	80	110	250	280
	2	8					
24-15	16	16	A	24-5 INSERT ROTATED 100 DEGREES C/W IN SHELL			
24-16	3	16	D (A, B, F)	80	110	250	280
	1	8	D (G)				
	3	12	A (ALL)				
24-20	9	16	D	80	110	250	280
	2	12					
24-21	9	16	D	80	110	250	280
	1	8					
24-22	4	8	D	45	110	250	---
24-24	16	16	A	24-5 INSERT ROTATED 250 DEGREES C/W IN SHELL			
24-27	7	16	E	80	---	---	280
24-28	24	16	INST.	80	110	250	280
24-30	23	16	INST.	35	145	240	300

INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 22							
22-1	2	8	D	35	110	250	325
22-2	3	8	D	79	145	215	280
22-3	3	12	D	79	145	215	280
22-4	2	12	A	35	110	250	325
	2	8					
22-5	4	16	D	35	110	250	325
	2	12					
22-6	1	16	D	80	110	250	280
	2	8					
22-7	1	0	E	---	---	---	---
22-9	2	16	E	80	110	250	280
22-10	4	16	E	35	110	250	325
22-11	2	16	B	35	110	250	325
22-12	3	16	D	80	110	250	280
	2	8					
22-13	1	16	E (D)	35	110	250	325
	6	12	A (ALL)				
22-14	19	16	A	80	110	250	280
22-15	1	16	E (D)	80	110	250	280
	5	12	A (ALL)				
	1	16	D (A)				
22-17	7	16	A	80	110	250	280
	1	12	A (ALL)				
	3	16	A (C, D, E)				
22-18	5	16	D (ALL)	80	110	250	280
22-19	14	16	A	80	110	250	280
22-20	9	16	A	35	110	250	325
22-21	2	16	A	80	110	250	280
22-22	1	0	A	---	110	250	---
	4	8					
22-23	1	12	D (H)	35	---	250	---
	7	12	(ALL)				
22-27	1	8	D (J)	80	---	250	280
	8	16	A (ALL)				
22-28	7	12	A	90	---	---	250
22-30	19	16	A	22-14 INSERT ROTATED 260 DEGREES C/W IN SHELL			
22-32	4	16	D	22-5 INSERT ROTATED 260 DEGREES C/W IN SHELL			
	2	12					
22-33	3	16	A	80	110	250	280
	4	16					
22-36	1	12	D (H)	90	---	270	---
	7	12	A (ALL)				

#INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	50% QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 26							
26-1	2	12	D (A, E)	80	110	250	280
	4	12	A (B, D, F, H)				
	1	8	D (J)				
	2	8	A (G, C)				
26-2	12	16	D	35	110	250	325
	2	12					
26-3	3	8	E	4000	145	215	290
	3	16	E (G, F, S)				
26-4	4	16	D (A, B, E, F)	35	110	250	280
	2	12	D (C, D)				
	2	16					
26-5	1	12	D	80	110	250	325
	2	4					
	2	12	E (L, M)				
26-6	1	16	D (B)	80	110	250	280
	9	16	A (ALL)				
	6	16					
26-8	6	16	D	80	110	---	280
	6	12					
26-10	1	12	D (G)	80	110	250	280
	2	12	A (A, F)				
	2	8	A (B, E)				
	2	4	A (C, D)				
26-11	18	16	A	80	110	250	280
	4	12					
26-12	26	16	A	80	180	270	---
26-15	35	16	A	80	110	250	280
26-16	20	16	A	80	110	250	280
26-17	1	16	B (R)	80	110	250	280
	3	16	D (M, N, P)				
	11	16	A (ALL)				
	1	16	C (R)				
26-18	2	16	A (A, B)	70	145	215	290
	4	16	INST. (C, D, E, F)				
	5	16	D (ALL)				
	2	16	B (Q, M)				
26-19	2	16	D (A, B)	80	110	250	280
	2	16	(ALL)				
	4	16	(ALL)				
	4	16					
26-20	19	12	A	80	110	250	280
	37	16	A				
26-21	3	16	D	80	110	250	280
26-22	3	16		70	145	215	290
	3	4					

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#INSERTS	CONTACT		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES				
	QUANTITY	SIZE		W	X	Y	Z	
SHELL SIZE 32								
32-1	1	12	E (A)	80	110	250	280	
	2	12	D (D, C)					
	2	0	D (B, E)					
32-2	2	16	E	70	145	215	290	
	3	4						
	4	16						
32-3	2	12	D	80	110	350	280	
	2	4						
	1	0						
32-6	16	16	A	80	110	250	280	
	2	12						
	3	8						
	2	4						
32-7	4	16	INST. (ALL)	80	125	235	280	
	24	16	A (ALL)					
	7	12						
32-8	24	16	A	80	125	235	280	
	6	21						
	12	16						
32-9	12	16	D	80	110	250	280	
	2	4						
	2	16						
32-10	2	16	E	80	110	250	280	
	1	0						B
	2	8						D
	2	4						A
32-13	16	16	D	80	110	250	280	
	6	12						
	6	16						
32-15	6	16	D	35	110	250	280	
	2	0						
	4	4						
32-17	4	4	D	45	110	250	—	
	1	12						
	2	12						
32-18	2	12	D (D, C)	32-18 INSERT ROTATED 240 DEGREES C/C IN SHELL				
	2	0	D (B, E)					
	2	0						
32-20	16	16	A	32-20 INSERT ROTATED 240 DEGREES C/C IN SHELL				
	2	12						
	3	8						
	2	4						
32-22	54	16	A	80	110	250	280	
32-63	5	4	D	—	—	—	—	
32-73	45	16	A	38	—	—	—	

INSERTS 5015	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 40							
40-1	24	16	D	65	130	235	300
	6	12					
	5	16					
40-2	18	16	D	80	110	250	280
	18	16					
40-3	4	12	D	80	110	250	280
	1	4					
	16	16					
40-4	2	12	D	80	110	250	280
	3	8					
	2	4					
	6	12					
40-5	4	8	A	80	110	250	280
	2	4					
	3	0					
	24	24					
40-6	1	1	D	80	110	250	280
	1	1					
	2	2					
40-7	2	2	A (W, X)	80	110	250	280
	2	2	A (U, V)				
	2	2	A (P, Q)				
	16	16	D (ALL)				
40-9	24	16	A	65	125	255	310
	22	12					
	1	8					
40-10	16	16	A	65	125	255	310
	9	8					
	4	4					
40-11	18	16	D	80	110	250	280
	4	12					
	1	8					
	1	4					
	1	0					
40-56	85	16	A	72	144	216	288
40-62	60	16	A	30	130	220	290

INSERTS 5015	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 36							
36-3	3	12	D	70	145	215	290
	3	0					
36-5	4	0	A	—	120	240	—
	4	4					
36-6	2	0	A	35	110	250	325
	40	16					
36-7	7	12	A	80	110	250	280
	46	16					
36-8	1	12	A	80	110	250	280
	14	16					
36-9	14	12	A	80	125	235	280
	2	8					
	1	4					
	48	16					
36-10	48	16	A	80	125	235	280
36-11	48	16	A	36-10 INSERT ROTATED 100 DEGREES C/W IN SHELL			
36-12	48	16	A	36-10 INSERT ROTATED 250 DEGREES C/W IN SHELL			
36-15	35	16	D (M)	60	125	245	305
			A (ALL)				
36-16	40	16	A	36-7 INSERT ROTATED 100 DEGREES C/W IN SHELL			
	7	12					
36-17	40	16	A	36-7 INSERT ROTATED 350 DEGREES C/W IN SHELL			
	7	12					
36-18	14	16	A	36-9 INSERT ROTATED 100 DEGREES C/W IN SHELL			
	14	12					
	2	8					
	1	4					
36-21	14	16	A	36-9 INSERT ROTATED 280 DEGREES C/W IN SHELL			
	14	12					
	2	8					
	1	4					
36-52	52	16	A	72	144	216	288
36-66	52	16	A	110	250	260	280
	4	12					

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Inserts	Contacts		Service Rating	Alternate Insert Positions A Degrees			
5015	Quantity	Size		W	X	Y	Z
Shell Size 8							
8S-1	1	16	A	---	---	---	---
Shell Size 10							
10S-2	1	16	A	---	---	---	---
10SL-3	3	16	A	---	---	---	---
10SL-4	2	16	A	---	---	---	---
Shell Size 12							
12S-1	2	16	A	12S-3 Rotated 100 Degrees in Shell			
12S-2	2	16	A	12S-3 Rotated 250 Degrees in Shell			
12S-3	2	16	A	70	145	215	290
12S-4	1	16	D	---	---	---	---
12-5	1	12	D	---	---	---	---
Shell Size 14							
14S-1	3	16	A	---	---	---	---
14S-2	4	16	INST	---	120	240	---
14-3	1	8	A	---	---	---	---
14S-5	5	16	INST	---	110	---	---
14S-6	6	16	INST	---	---	---	---
14S-7	3	16	A	90	180	270	---
14S-9	2	16	A	70	145	215	290
14S-10	4	16	INST	14S-2 Rotated 100 Degrees in Shell			
14S-11	4	16	INST	14S-2 Rotated 250 Degrees in Shell			
Shell Size 16							
16S-1	7	16	A	80	---	---	280
16-2	7	12	E	---	---	---	---
16S-3	1	16	B	---	---	---	---
16S-4	2	16	D	35	110	250	325
16S-5	3	16	A	70	145	215	290
16S-6	3	16	A	90	180	270	---
16-7	2	16	A	80	110	250	280
	1	8					
16S-8	5	16	A	---	170	265	---
16-9	2	16	A	35	110	250	325
	2	12					
16-10	3	12	A	90	180	270	---
16-11	2	12	A	35	110	250	325
16-12	1	4	A	---	---	---	---
16-13	2	12	A	35	110	250	325

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Shell Size 18							
18-1	4	16	A (B,C,F,G)	70	145	215	290
	6		INST (Bal)				
18-3	2	12	D	35	110	250	325
18-4	4	16	D	35	110	250	325
18-5	1	16	D	80	110	250	280
	2	12					
18-6	1	4	D	---	---	---	---
18-7	1	8	B	---	---	---	---
18-8	7	16	A	70	---	---	290
	1	12					
18-9	5	16	INST	80	110	250	280
	2	12					
18-10	4	12	A	---	120	240	---
18-11	5	12	A	---	170	265	---
18-12	6	16	A	80	---	---	280
18-13	3	12	A	80	110	250	280
	1	8					
18-14	1	16	A	80	110	250	280
	1	4					
18-15	4	12	A	---	120	240	---
18-16	1	12	C	---	---	---	---
18-17	5	16	INST	18-9 Insert Rotated 100 Degrees in Shell			
	2	12					
18-18	5	16	INST	18-9 Insert Rotated 250 Degrees in Shell			
	2	12					
18-19	10	16	A	---	120	240	---
18-20	5	16	A	90	180	270	---
18-22	3	16	D	70	145	215	290
18-23	4	16	A (B,C,F,G)	18-1 Insert Rotated 100 Degrees in Shell			
	6		INST				
18-24	4	16	A (B,C,F,G)	18-1 Insert Rotated 250 Degrees in Shell			
	6		INST				
18-27	1	16	D	18-5 Insert Rotated 100 Degrees in Shell			
	2	12					
18-28	1	16	D	18-5 Insert Rotated 250 Degrees in Shell			
	2	12					

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Shell Size 20							
20-1	14	20	INST	---	---	---	---
20-2	1	0	D	---	---	---	---
20-3	3	12	D	70	145	215	290
20-4	4	12	D	45	110	250	---
20-6	3	16	D	70	145	215	290
20-7	4	16	D (A,B,G,H)	80	110	250	280
	4	16	A (C,D,E,F)				
20-8	4	16	INST	80	110	250	280
	2	8					
20-9	1	12	D (H)	80	110	250	280
	7	16	A (Bal)				
20-11	13	16	INST	---	---	---	---
20-14	3	12	A	80	110	250	280
	2	8					
20-15	7	12	A	80	---	---	280
20-16	7	16	A	80	110	250	280
	2	12					
20-17	1	16	A	90	180	270	---
	5	12					
20-18	6	16	A	35	110	250	325
	3	12					
20-19	3	8	A	90	180	270	---
20-21	8	16	A	35	110	250	325
	1	12					
20-22	3	16	A	80	110	250	280
	3	8					
20-23	2	8	A	35	110	250	325
20-24	2	16	A	35	110	250	325
	2	8					
20-25	13	16	INST	20-11 Insert Rotated 100 Degrees			
20-27	14	16	A	35	110	250	325
20-29	17	16	A	80	---	---	280
20-32	4	16	D (A,B,G,H)	20-7 Insert Rotated 260 Degrees in Shell			
	4	16	A (C,D,E,F)				
20-33	11	16	A	---	---	---	---

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Shell Size 22							
22-1	2	8	D	35	110	250	325
22-2	3	8	D	70	145	215	290
22-3	1	16	D	80	110	250	280
	1	4					
22-4	2	12	A	35	110	250	325
	2	8					
22-5	4	16	D	35	110	250	325
	2	12					
22-6	1	16	D	80	110	250	280
	2	8					
22-7	1	0	E	---	---	---	---
22-9	3	12	E	70	145	215	290
22-10	4	16	E	35	110	250	325
22-11	2	16	B	35	110	250	325
22-12	3	16	D	80	110	250	280
	2	8					
22-13	1	16	D (E)	35	110	250	325
	4	12	A (B,C,D)				
22-14	19	16	A	80	110	250	280
22-15	1	16	E (D)	80	110	250	280
	5	12	A (Bal)				
22-17	1	16	D (A)	80	110	250	280
	7	16	A (Bal)				
	1	12	A (E)				
22-18	3	16	A (C,D,E)	80	110	250	280
	5	16	D (Bal)				
22-19	14	16	A	80	110	250	280
22-20	9	16	A	35	110	250	325
22-21	2	16	A	80	110	250	280
	1	0					
22-22	4	8	A	---	110	250	---
22-23	1	12	D (H)	35	---	250	---
	7	12	A (Bal)				
22-27	1	8	D (J)	80	---	250	280
	8	16	A (Bal)				
22-28	7	12	A	80	---	---	280
22-30	19	16	A	22-14 Insert rotated 260 Degrees in Shell			
22-32	4	16	D	22-5 Insert rotated 260 Degrees in Shell			
	2	12					

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Shell Size 22 (Continued)							
22-33	3	16	A (E,F,G)	80	110	250	280
	4	16	D (A,B,C,D)				
22-36	1	12	D (H)	90	---	270	---
	7	12	A (Bal)				
Shell Size 24							
24-1	1	12	D	80	110	250	280
	1	0					
24-2	7	12	D	80	---	---	280
24-4	3	16	D	80	110	250	280
	1	0					
24-5	16	16	A	80	110	250	280
24-6	3	12	D (A,G,H)	80	110	250	280
	5	12	A (Bal)				
24-7	14	16	A	80	110	250	280
	2	12					
24-9	2	4	A	35	110	250	325
24-10	7	8	A	80	---	---	280
24-11	6	12	A	35	110	250	325
	3	8					
24-12	3	2	A	80	110	250	280
	2	4					
24-15	16	16	A	24-5 Insert rotated 100 Degrees in Shell			
24-16	3	16	D (A,B,F)	80	110	250	280
	3	12	A (Bal)				
	1	8	D (G)				
24-18	4	16	---	---	A-B & C-D Short without Pins??		
24-20	9	16	D	80	110	250	280
	2	12					
24-21	9	16	D	80	110	250	280
	1	8					
24-22	4	8	D	45	110	250	---
24-24	16	16	A	24-5 Insert rotated 250 Degrees in Shell			
24-27	7	16	E	80	---	---	280
24-28	24	16	INST	80	110	250	280
24-80	23	16	INST	35	145	240	300

CAGE Code: 1R6R9

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MIL-DTL-5015

SERIES II & III



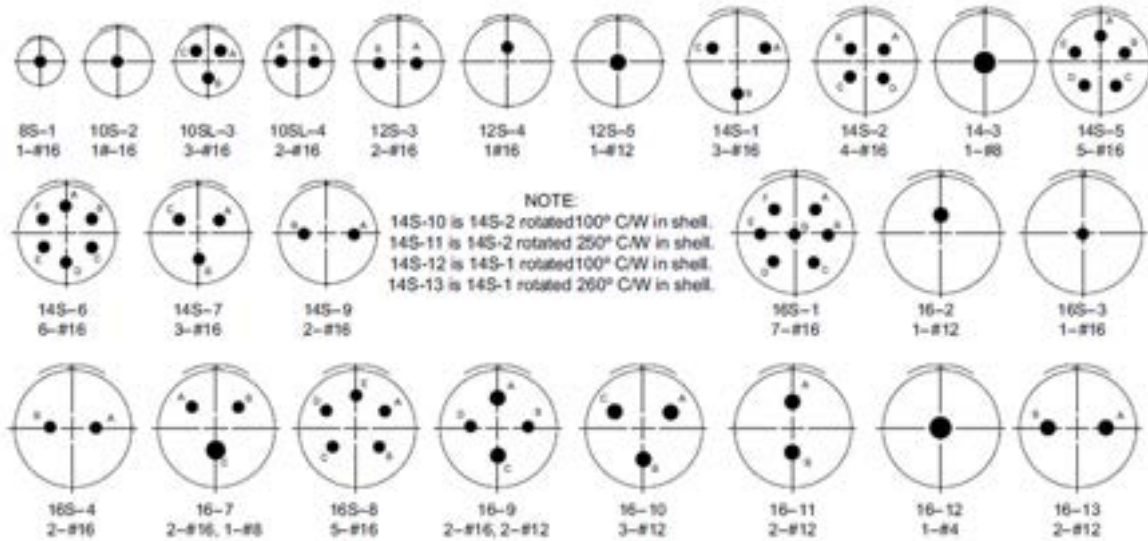
Shell Size 28							
28-1	2	12	D (A,E)	80	110	250	280
	4	12	A (B,D,F,H)				
	1	8	D (J)				
	2	8	A (G,C)				
28-2	12	16	D	35	110	250	325
	2	12					
28-3	3	8	E	70	145	215	290
28-4	4	16	E (G,P,S)	80	110	250	280
	4	16	D (A,B,E,F)				
	2	12	D (C,D)				
28-5	2	16	D	35	110	250	325
	1	12					
	2	4					
28-6	3	4	D	70	145	215	290
28-8	1	16	D (B)	80	110	250	280
	9	16	A (Bal)				
	2	12	E (L,M)				
28-9	6	16	D	80	110	250	280
	6	12					
28-10	1	12	D (G)	80	110	250	280
	2	12	A (A,F)				
	2	8	A (B,E)				
	2	4	A (C,D)				
28-11	18	16	A	80	110	250	280
	4	12					
28-12	26	16	A	90	180	270	---
28-15	35	16	A	80	110	250	280
28-16	20	16	A	80	110	250	280
28-17	1	16	B (R)	80	110	250	280
	3	16	D (M,N,P)				
	11	16	A (Bal)				
28-18	1	16	C (M)	70	145	215	290
	2	16	A (A,B)				
	4	16	INST (C,D,E,F)				
	5	16	D (Bal)				
28-19	2	16	B (H,M)	80	110	250	280
	2	16	D (A,B)				
	2	16	A (C,L)				
	4	12	A (E,G,J,K)				

CAGE Code: 1R6R9

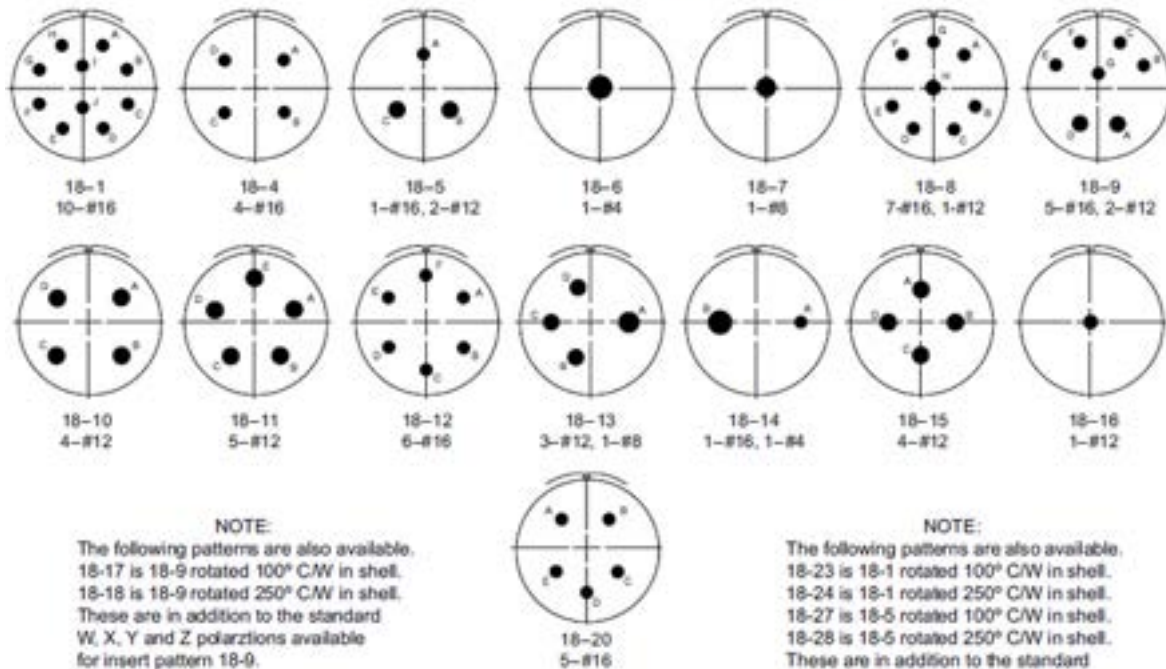
E-Mail: sales@corsairelectricalconnectors.com

MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZES 8, 10, 12, 14 AND 16 INSERT PATTERNS

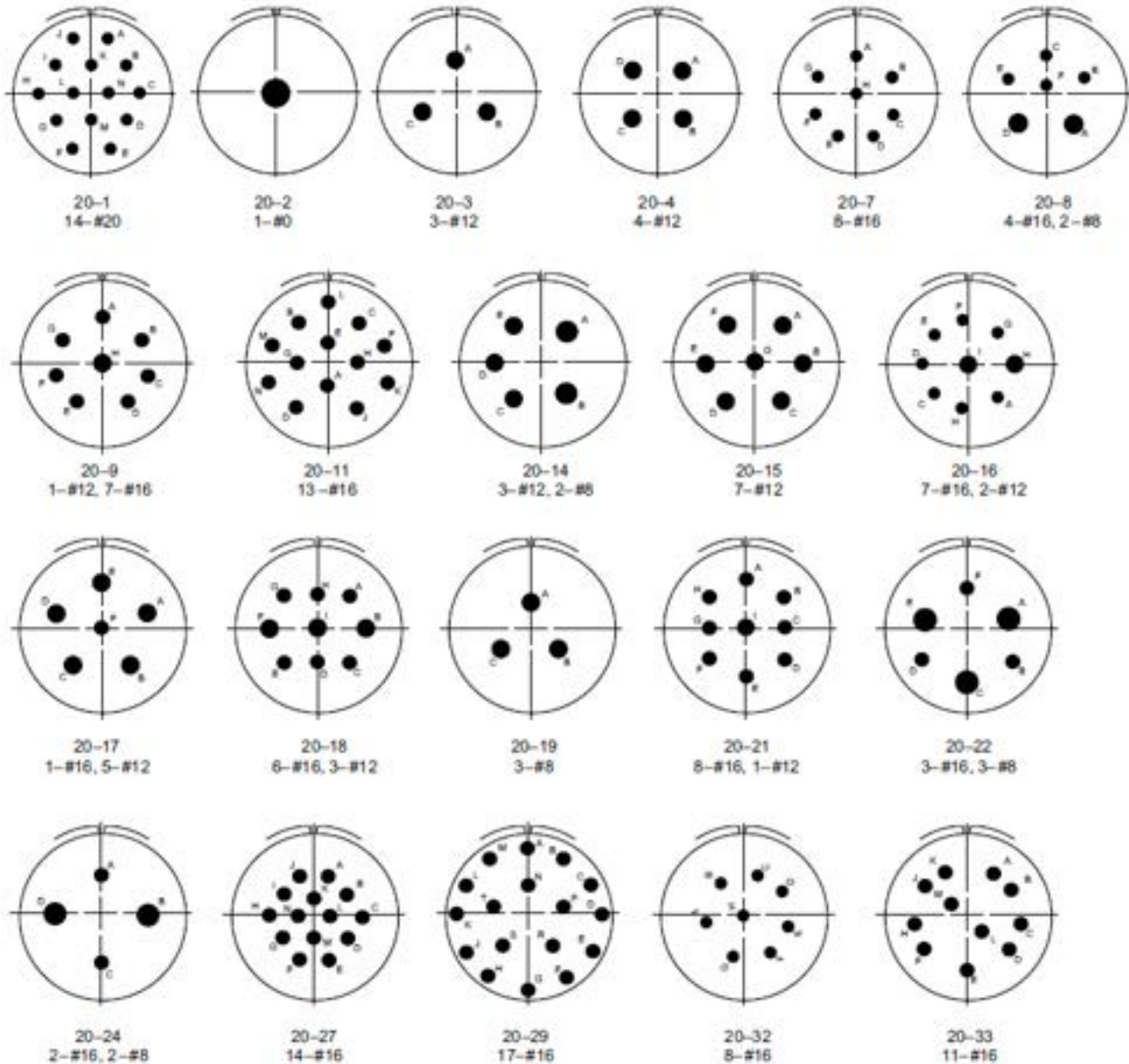


SHELL SIZES 18 INSERT PATTERNS



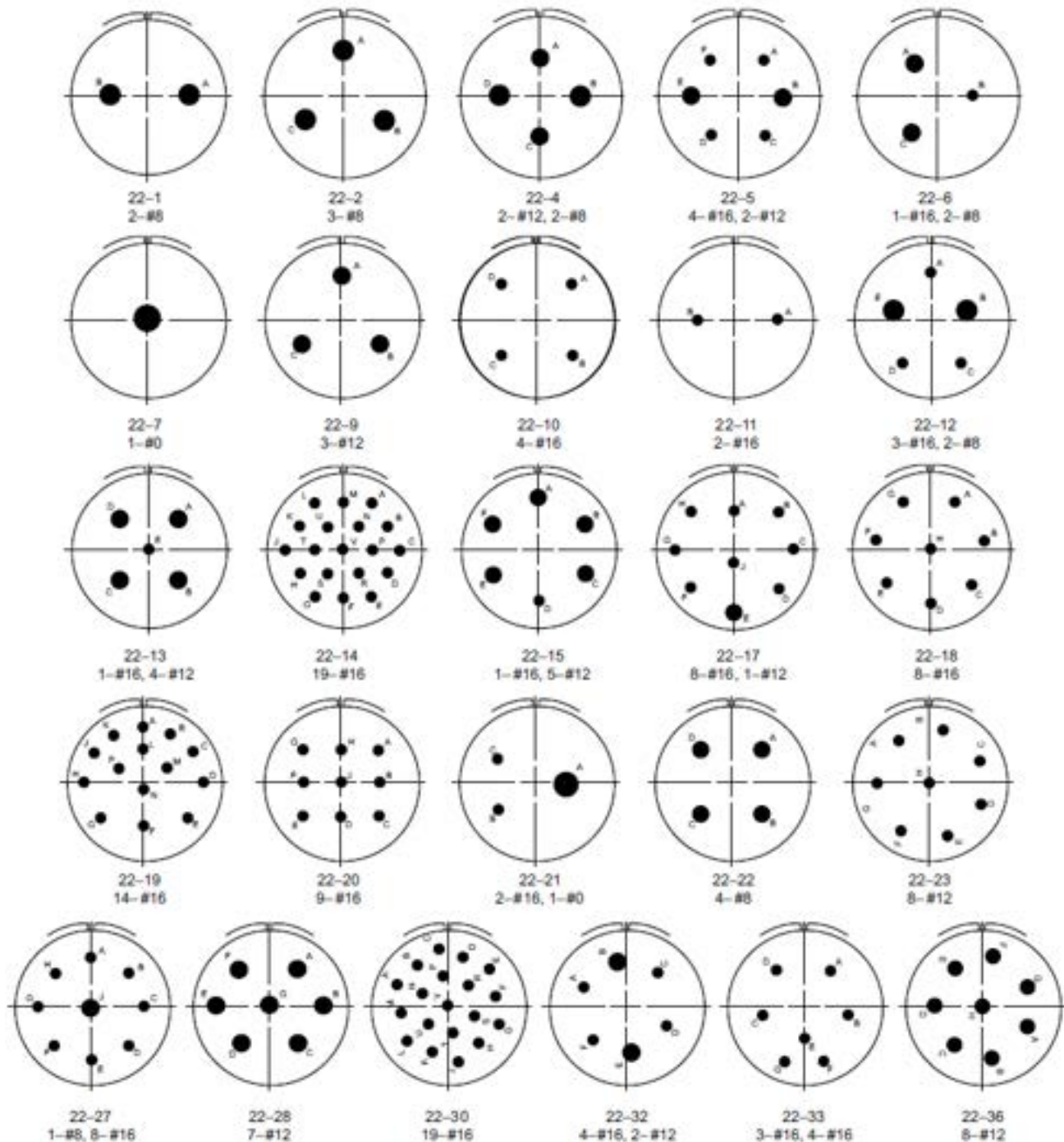
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 20 INSERT PATTERNS



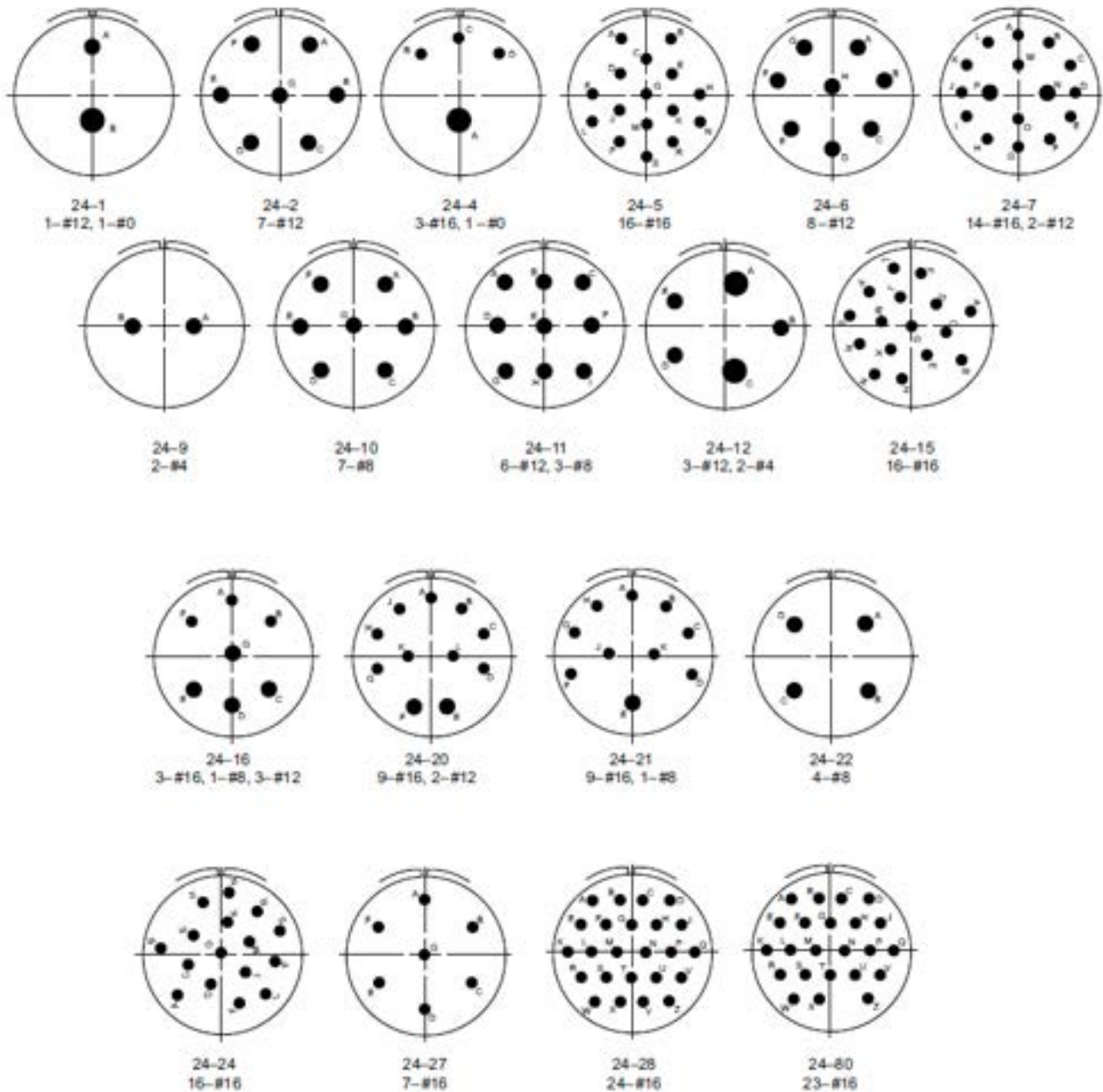
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 22 INSERT PATTERNS



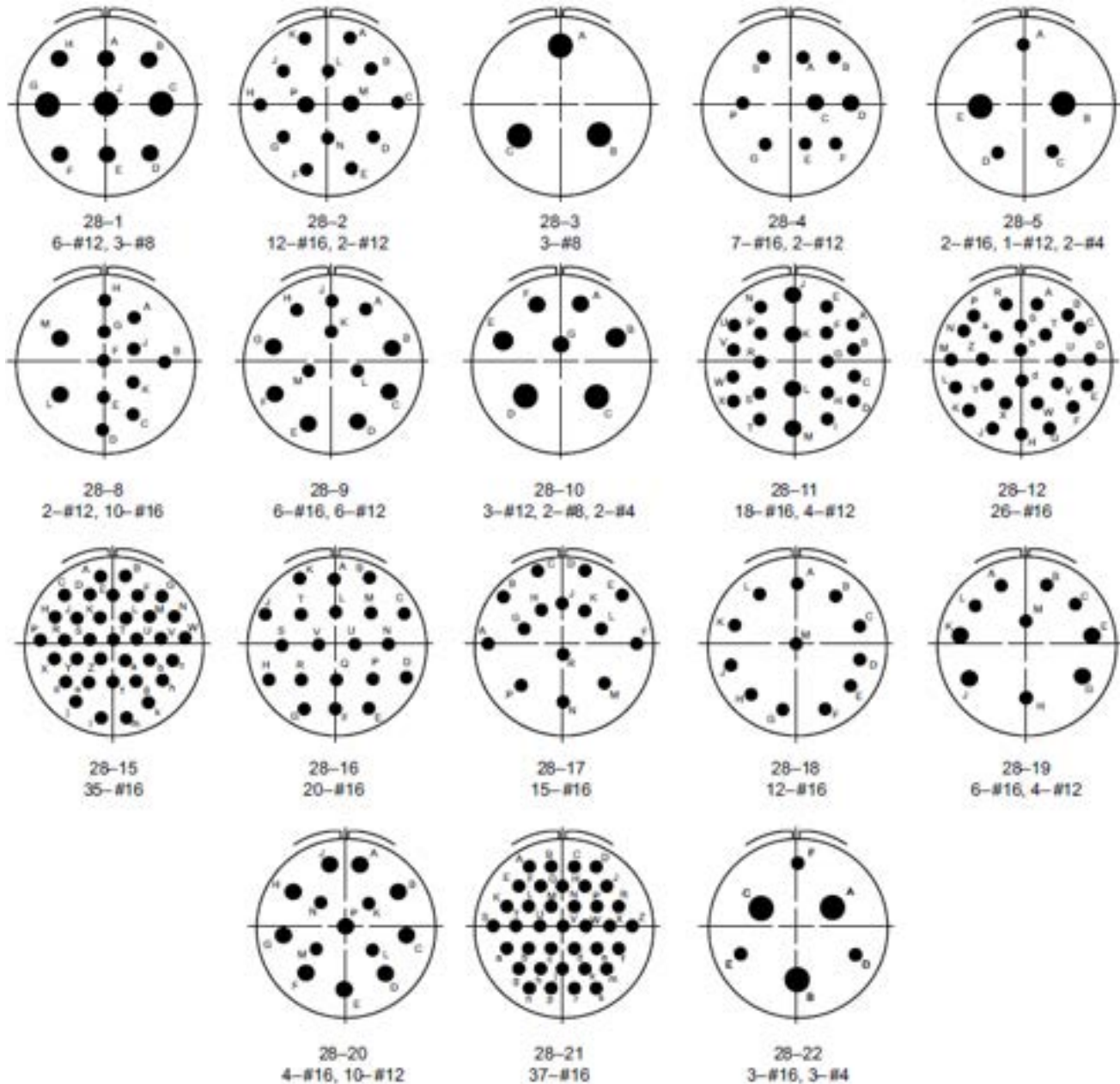
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 24 INSERT PATTERNS



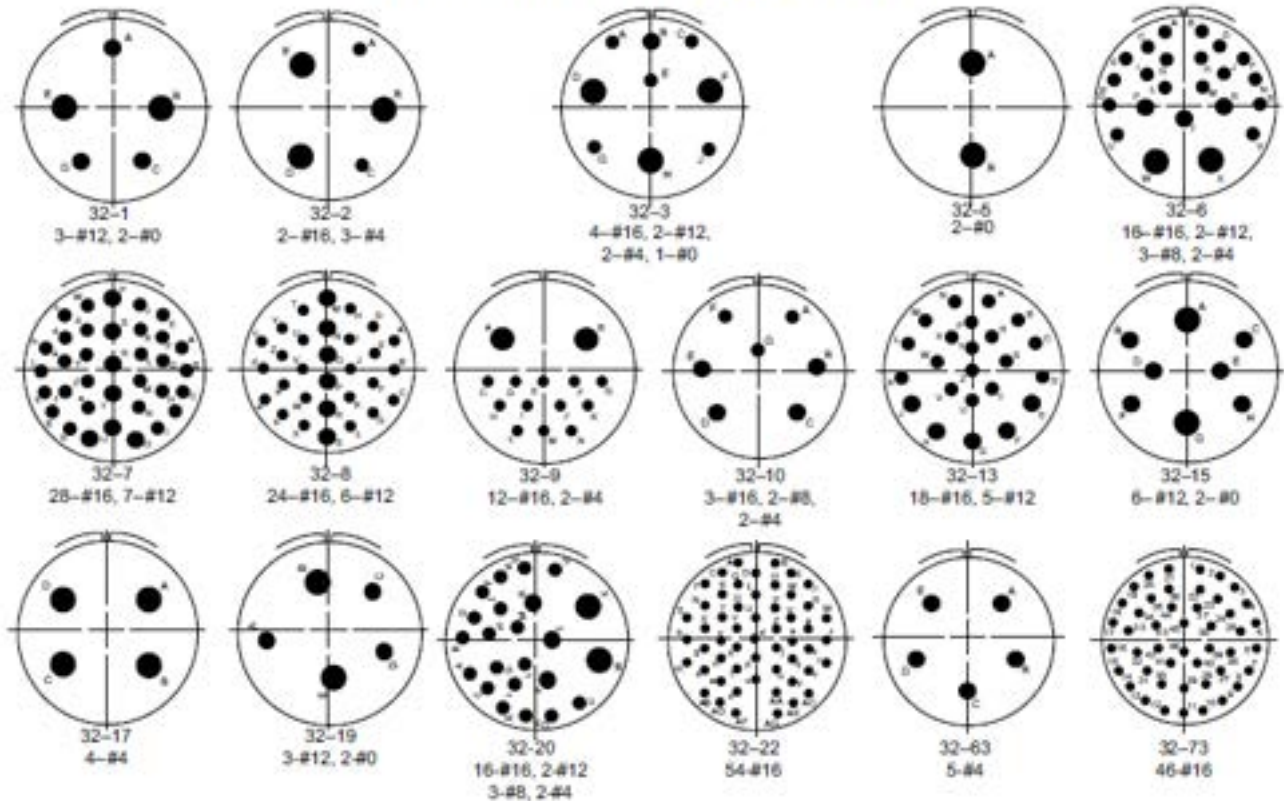
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 28 INSERT PATTERNS

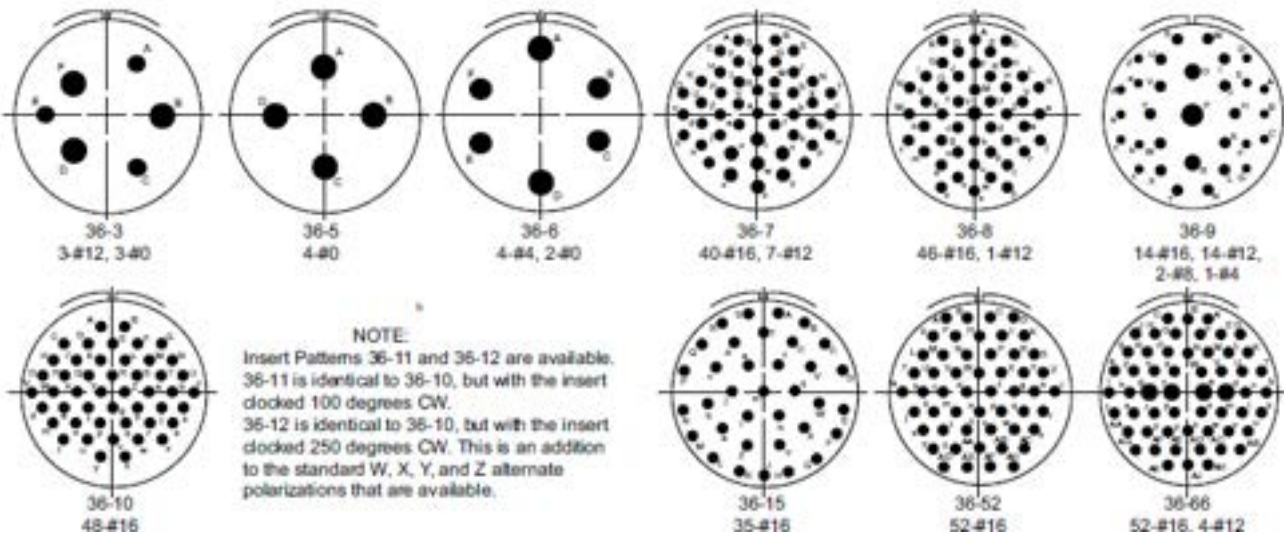


MIL-DTL-5015 SERIES III INSERT PATTERNS CAVITY IDENTIFICATION SHOWN FOR FRONT FACE OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 32 INSERT PATTERNS

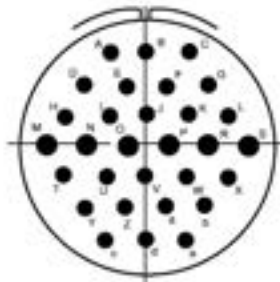


SHELL SIZE 36 INSERT PATTERNS

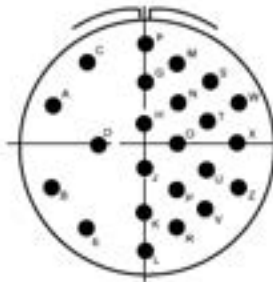


MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

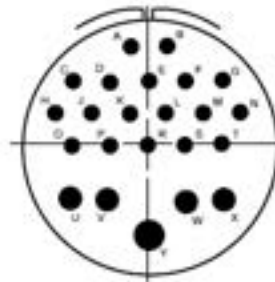
SHELL SIZE 40 INSERT PATTERNS



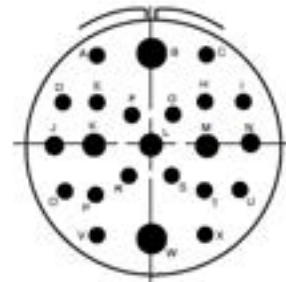
40-1
24-#16, 6-#12



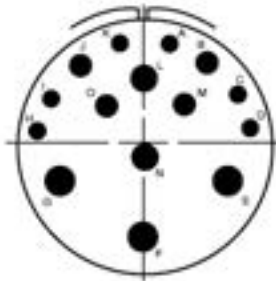
40-2
23-#16



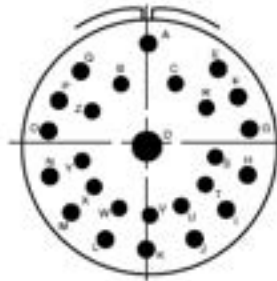
40-3
18-#16, 4-#12, 1-#4



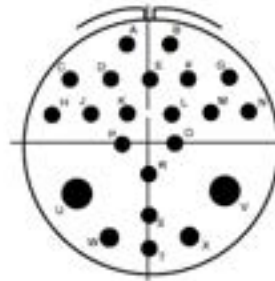
40-4
16-#16, 2-#12,
3-#8, 2-#4



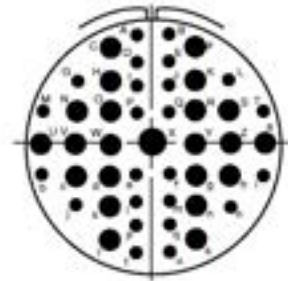
40-5
6-#12, 4-#8,
2-#4, 3-#0



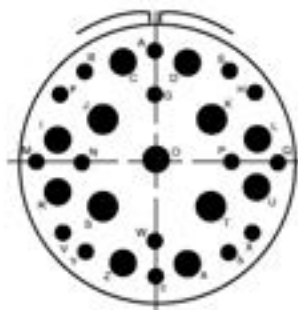
40-6
24-#16, 1-#12, 1-#0



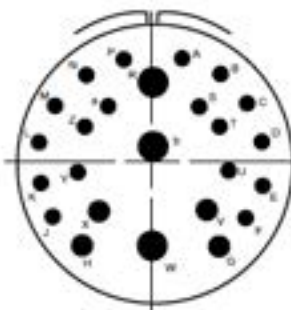
40-7
18-#16, 2-#12, 2-#0



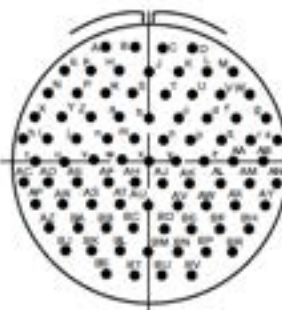
40-9
24-#16, 22-#12, 1-#8



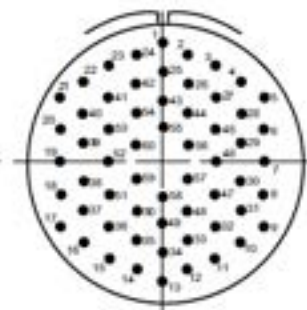
40-10
16-#16, 9-#8, 4-#4



40-11
18-#16, 4-#12,
1-#8, 1-#4, 1-#0



40-56
85-#16



40-62
60-#16

MIL-DTL-26482

SERIES II



GENERAL SPECIFICATIONS

Rear release contact retention system.
9 shell sizes (8 to 24) in 49 insert arrangements utilizing contact sizes 20, 16, and 12 gage crimp contacts per MIL-C-39029.
Bayonet coupling mechanism.
Polarization by insert rotation, per MIL-STD-1669.
Operating temperature range:
-55 degrees C (-67 degrees F) to 200 degrees C (392 degrees F).
Uses high reliability metal contact retention clips.

Environmental Fluorosilicone Elastomers

Refer to page 96 for additional contact and tooling information.

VOLTAGE RATING

ALTITUDE

WORKING VOLTAGE, AC, RMS

Condition	Service Rating I	Service Rating II	Service Rating Shielded
Sea Level	600	1000	500 volts, dc
70,000 ft.	300	450	---

The following insert arrangements have a Service Rating II.
12-3 14-5 16-8 18-11 20-16 22-21 24-19
All others have a Service Rating I.

CONTACTS

Gage	Military Part Number	Wire Range	Test Current
20	M39029/4-110 PIN	20-24	7.5 amps
	M39029/5-115 SOCKET		
16	M39029/4-111 PIN	16-20	13.0 amps
	M39029/5-116 SOCKET		
12	M39029-4-113 PIN	12-14	23 amps
	M39029-5-118 SOCKET		

INSTALLING / REMOVING TOOLS (PLASTIC)

Gage	Military Part Number	Size
20	M81969/14-11	20
16	M81969/14-03	16
12	M81969/14-04	12

SEALING PLUGS

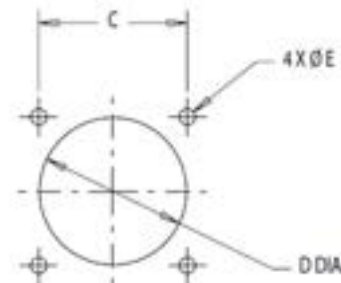
Military Part Number
M527488-20-2
M527488-16-2
M527488-12-2

MIL-DTL-26482 SERIES 2

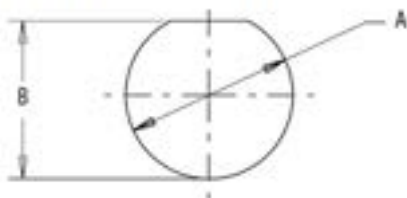
RECEPTACLE PANEL CUTOUTS

M3470 RECEPTACLE, NARROW FLANGE

M3472 RECEPTACLE, WIDE FLANGE

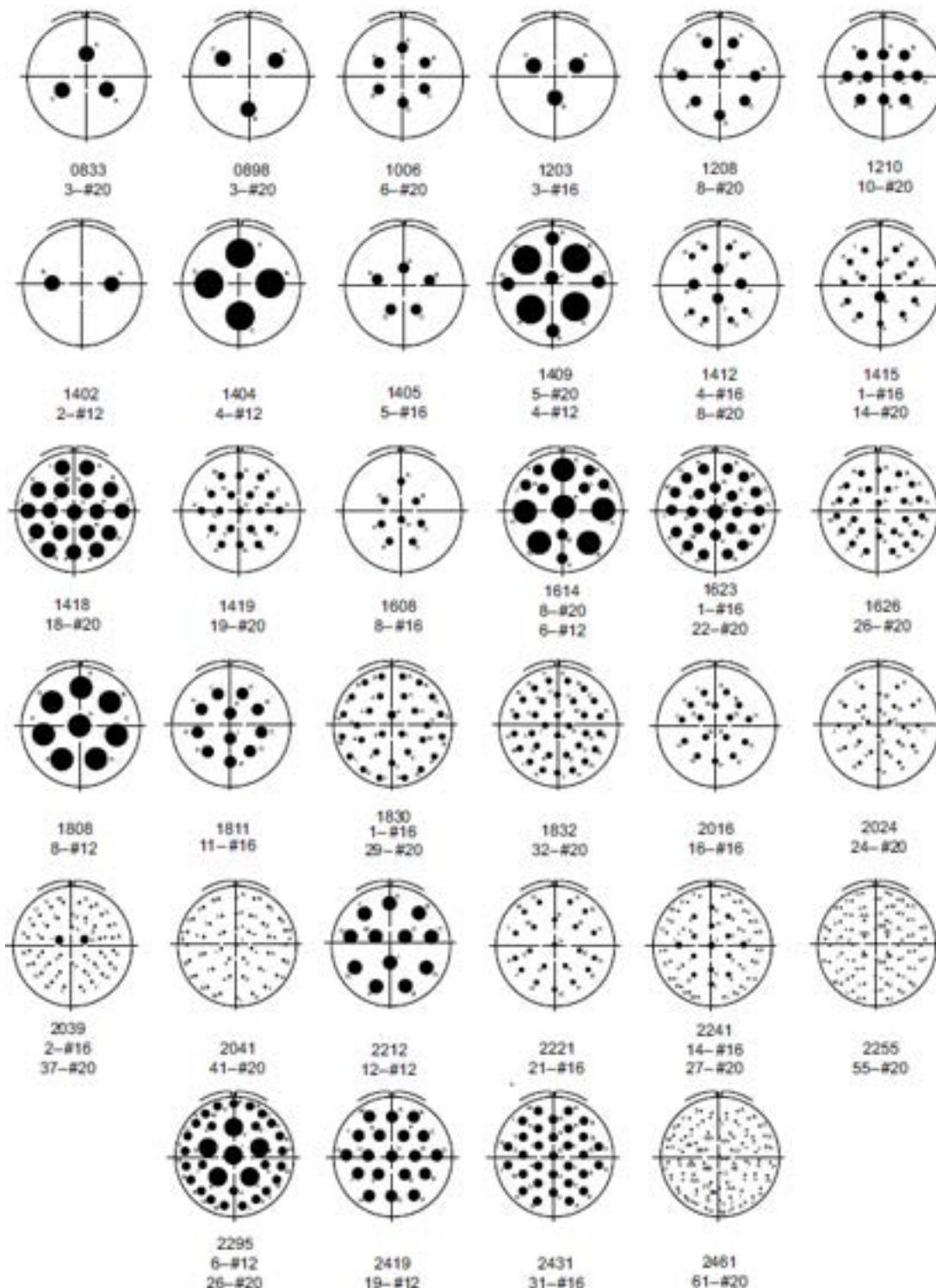


MS3474 RECEPTACLE, JAM NUT



Shell Size	Jam Nut Receptacle A ± .005 B ± .005		Square Flange Mount Receptacles			
			Narrow Flange C ± .005	Wide Flange C ± .005	DIA D ± .005	DIA E ± .005
8	0.572	0.536	0.594	0.734	0.568	0.120
10	0.697	0.661	0.719	0.812	0.685	0.120
12	0.895	0.824	0.812	0.938	0.864	0.120
14	1.010	0.948	0.906	1.031	0.989	0.120
16	1.135	1.072	0.969	1.125	1.113	0.120
18	1.260	1.197	1.062	1.203	1.238	0.120
20	1.385	1.322	1.156	1.297	1.363	0.120
22	1.510	1.447	1.250	1.375	1.488	0.120
24	1.635	1.572	1.375	1.500	1.615	0.147

MIL-DTL-26482 SERIES 2 INSERT PATTERNS PER MIL-STD-1669
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS



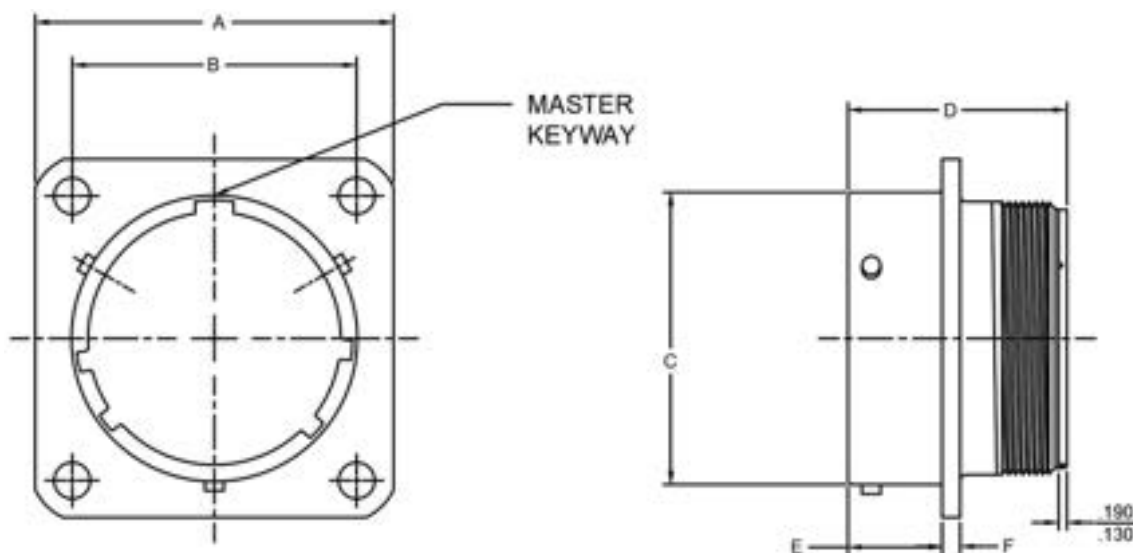
MS3470

MIL-DTL-26482

SERIES II



MIL-DTL-26482
SERIES II



SHELL SIZE	A Max.	B ±.005	C -.006	D Max.	E -.031	F ±.016	G Accessory Thread
8	0.828	0.594	0.474	1.215	0.462	0.062	1/2-20 UNF 2A
10	0.954	0.719	0.591	1.215	0.462	0.062	5/8-24 UNEF 2A
12	1.047	0.812	0.751	1.215	0.462	0.062	3/4-20 UNEF 2A
14	1.141	0.906	0.876	1.215	0.462	0.062	7/8-20 UNEF 2A
16	1.234	0.969	1.001	1.215	0.462	0.062	1-20 UNEF 2A
18	1.328	1.062	1.126	1.215	0.462	0.062	1 1/16-16 UNEF 2A
20	1.453	1.156	1.251	1.275	0.587	0.094	1 3/16-16 UNEF 2A
22	1.578	1.250	1.376	1.275	0.587	0.094	1 5/16-16 UNEF 2A
24	1.703	1.375	1.501	1.275	0.620	0.094	1 7/16 - 18 UNEF 2A

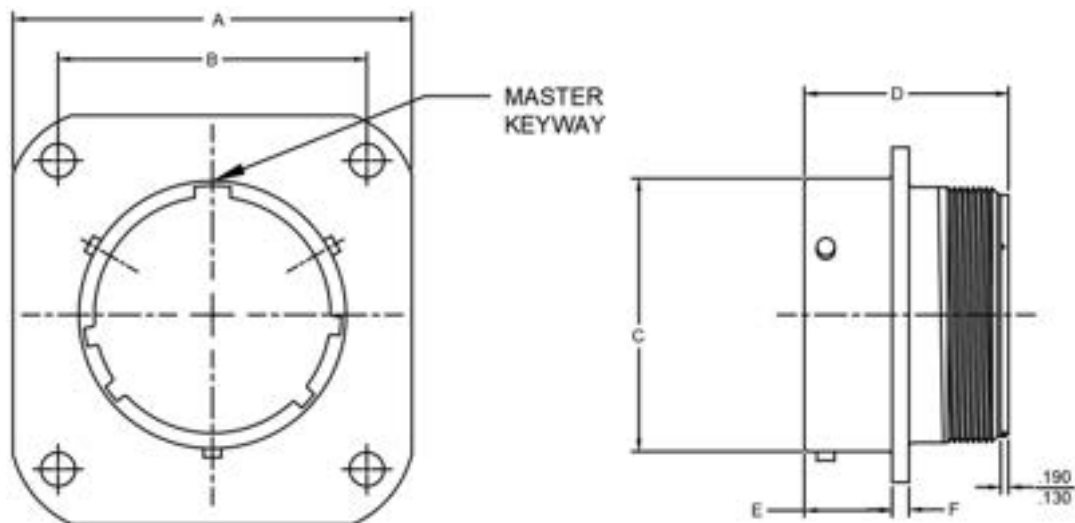
MS3472

MIL-DTL-26482

SERIES II



MIL-DTL-26482
SERIES II



Shell Size	A Max.	B ±.005	C -.006	D Max.	E -.031	F ±.016	G Accessory Thread
8	1.065	0.734	0.474	1.215	0.493	0.062	1/2-20 UNF 2A
10	1.141	0.812	0.591	1.215	0.493	0.062	5/8-24 UNEF 2A
12	1.266	0.938	0.751	1.215	0.493	0.062	3/4-20 UNEF 2A
14	1.360	1.031	0.876	1.215	0.493	0.062	7/8-20 UNEF 2A
16	1.453	1.125	1.001	1.215	0.493	0.062	1-20 UNEF 2AS
18	1.532	1.203	1.126	1.215	0.493	0.062	1 1/16-16 UNEF 2A
20	1.688	1.297	1.251	1.275	0.587	0.094	1 3/16-16 UNEF 2A
22	1.766	1.375	1.376	1.275	0.587	0.094	1 5/16-16 UNEF 2A
24	1.891	1.500	1.501	1.275	0.620	0.094	1 7/16 - 18 UNEF 2A

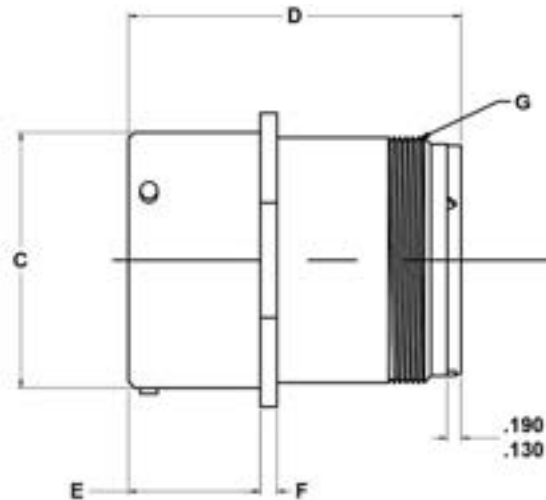
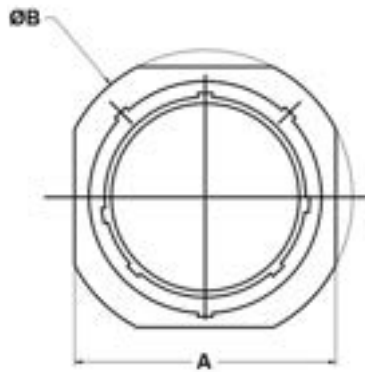
MS3471

MIL-DTL-26482

SERIES II



MIL-DTL-26482
SERIES II



SHELL SIZE	A Max.	B $\pm .020$	C -.003	D Max.	E	F $\pm .016$	G Accessory Thread
8	0.828	0.938	0.471	1.405	0.462/.431	0.062	1/2-20 UNF 2A
10	0.954	1.062	0.588	1.405	0.462/.431	0.062	5/8-24 UNEF 2A
12	1.047	1.156	0.748	1.405	0.462/.431	0.062	3/4-20 UNEF 2A
14	1.141	1.250	0.873	1.405	0.462/.431	0.062	7/8-20 UNEF 2A
16	1.234	1.344	0.998	1.405	0.462/.431	0.062	1-20 UNEF 2A
18	1.328	1.438	1.123	1.405	0.462/.431	0.062	1 1/16-16 UNEF 2A
20	1.453	1.562	1.248	1.465	0.587/.556	0.094	1 3/16-16 UNEF 2A
22	1.578	1.688	1.373	1.465	0.587/.556	0.094	1 5/16-16 UNEF 2A
24	1.703	1.812	1.498	1.465	0.620/.589	0.094	1 7/16 - 18 UNEF 2A

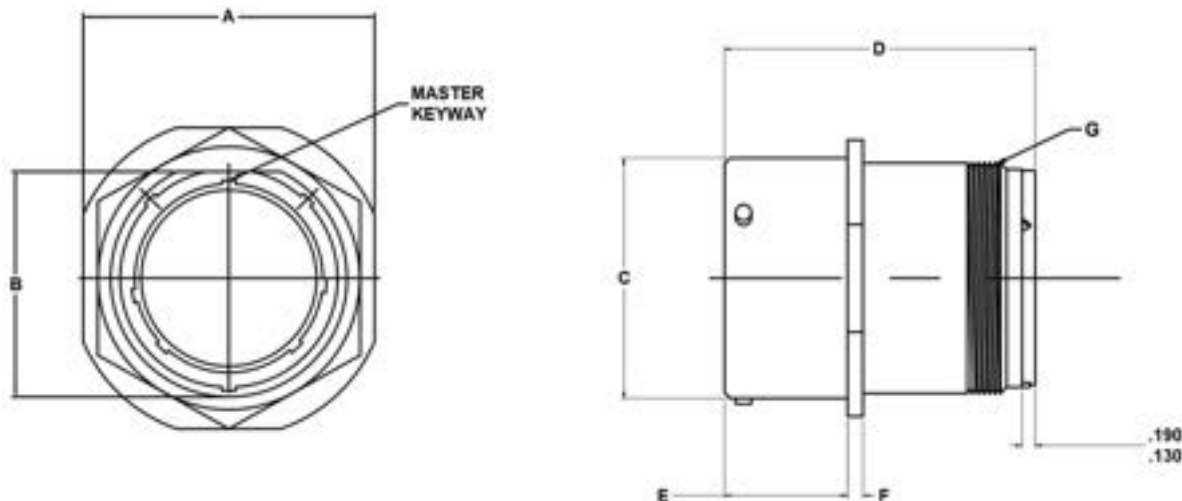
MS3474

MIL-DTL-26482

SERIES II



MIL-DTL-26482
SERIES II



Shell Size	A Max.	B ±.020	C -.003	D	E	F ±.016	G Accessory Thread	H Mounting Thread
8	0.954	0.525	0.468	0.707 0.658	0.113 0.086	1.405	1/2-20 UNF 2A	9/16-24 UNEF 2A
10	1.078	0.650	0.585			1.405	5/8-24 UNEF 2A	11/16-24 UNEF 2A
12	1.266	0.813	0.745			1.405	3/4-20 UNEF 2A	7/8-20 UNEF 2A
14	1.391	0.937	0.870			1.405	7/8-20 UNEF 2A	1-20 UNEF 2A
16	1.516	1.061	0.995			1.405	1-20 UNEF 2A	1 1/8-18 UNEF 2A
18	1.641	1.186	1.220	0.772 0.721	0.148 0.096	1.405	1 1/16-16 UNEF 2A	1 1/4-18 UNEF 2A
20	1.828	1.311	1.245			1.465	1 3/16-16 UNEF 2A	1 3/8-18 UNEF 2A
22	1.954	1.436	1.370			1.465	1 5/16-16 UNEF 2A	1 1/2 - 18 UNEF 2A
24	2.078	1.561	1.495			1.465	1 7/16 - 18 UNEF 2A	1 5/8 - 18 UNEF 2A

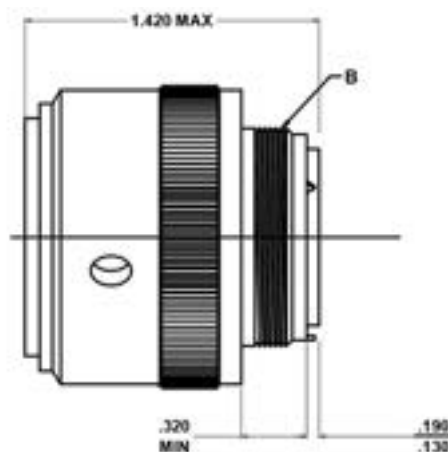
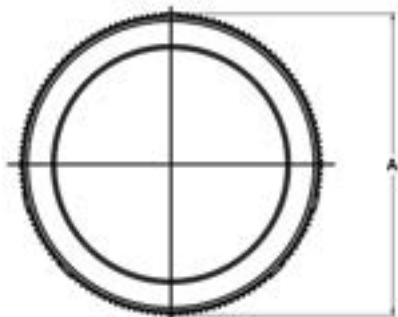
MS3475/MS3476

MIL-DTL-26482

SERIES II



MIL-DTL-26482
SERIES II



SHELL SIZE	A Max.	B Accessory Thread
8	0.782	1/2-20 UNF 2A
10	0.926	5/8-24 UNEF 2A
12	1.043	3/4-20 UNEF 2A
14	1.183	7/8-20 UNEF 2A
16	1.305	1-20 UNEF 2A
18	1.391	1 1/16-16 UNEF 2A
20	1.531	1 3/16-16 UNEF 2A
22	1.656	1 5/16-16 UNEF 2A
24	1.777	1 7/16 - 18 UNEF 2A

CAGE Code: 1R6R9

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MIL-DTL-26482

SERIES II



MIL-DTL-26482
SERIES II

MIL-C-26482 TYPE REAR RELEASE PLUGS

(Corsair CJ series intermateable with MIL-C-26482 Solder or Hermetic pin receptacles)

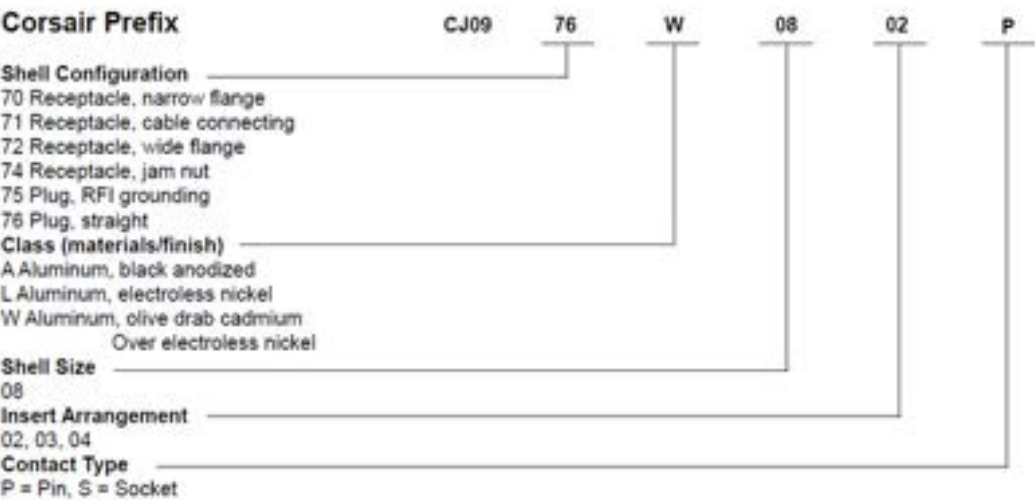
These three insert layouts, are not qualified to MIL-C-26482 Series 2. However, they are rear release and meet all of the appropriate parameters of Series 2, thus providing a higher level of environmental capabilities.



CONTACT AND TOOLING INFORMATION

Contact Part Number	Crimp Tool	Turret	Insertion/Removal Tool
SOCKET: 244-2001-009	M22520/1-01	M22520/1-02	M81969/14-01
PIN: 264-2001-009	or M22520/2-02	or M22520/2-02	

ORDERING NOMENCLATURE



MS 90362 (SIX PIN) GENERAL SPECIFICATIONS

Contacts, Power	Thread, 3/8-24UNF-2A	Contacts, Control	Thread, 10-32UNF-2A
	Silver plated Copper Alloy		Silver plated Copper Alloy
Nut	MS35650-3385T	Nut	MS35650-305T
Flat Washer	AN961-616T	Flat Washer	AN961-10T
Lock Washer	MS35335-91	Lock Washer	MS35335-88
Receptacle Base Molded Polyester / Glass			

MS 3506-1 (THREE PIN) GENERAL SPECIFICATIONS

Contacts, Power	Thread, 3/8-24UNF-2A	Contacts, Control	Thread, 10-32UNF-2A
	Silver plated Copper Alloy		Silver plated Copper Alloy
Nut	MS35650-3385T	Nut	MS35650-305T
Flat Washer	AN961-616T	Flat Washer	AN961-10T
Lock Washer	MS35335-91	Lock Washer	MS35335-88
Receptacle Base Molded Polyester / Glass			
Shield Aluminum, Epoxy Coated, permanently attached			

ORDERING NOMENCLATURE**EXTERNAL AIRCRAFT RECEPTACLES AND ASSOCIATED COMPONENTS
MILITARY AND CORSAIR PART NUMBER CROSS REFERENCE**

Description	Military Part No.	Corsair Part No.	Remarks
Connector, Receptacle, External Electric Power Aircraft, 115/200 volt, 400 Hertz, (six pin)	MS 90362-1	CJ01 GP6RP-1	with Shield only
	MS 90362-3	CJ01 GP6RP	basic receptacle only
	MS 90362-4	CJ01 GP6RP-4	with Shield and Cover
Shield (for six pin)	MS 17845-1	014-1627-001	
Cover (for six pin)	MS 3505-1	411-1600-001	
Description	Military Part No.	Corsair Part No.	Remarks
Connector, Receptacle, External Electrical Power, Aircraft, 28 VDC Operating power, (three pin)	MS 3506-1	CJ01GP3RP	Receptacle with shield
	N/A	CJ01GP3RP-1	Receptacle with no shield, (with no applicable military part number)

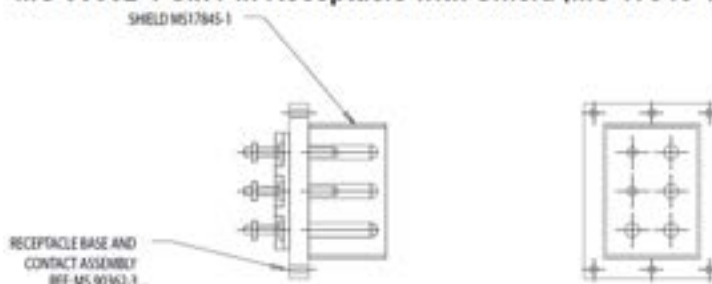
MS 90362 SERIES

CONNECTOR, RECEPTACLE, EXTERNAL ELECTRIC POWER, AIRCRAFT, 115/200 VOLT, 400 HERTZ, SIX PIN

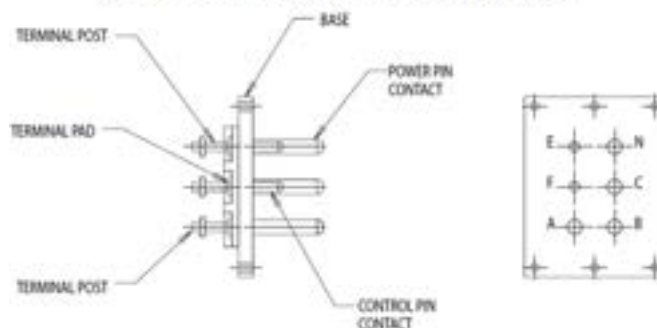
MS 90362-1	Six pin receptacle with Shield (MS 17845-1)
MS 90362-3	Six pin receptacle only
MS 90362-4	Six pin receptacle with Shield (MS 17845-1) and Cover (MS 3505-1)



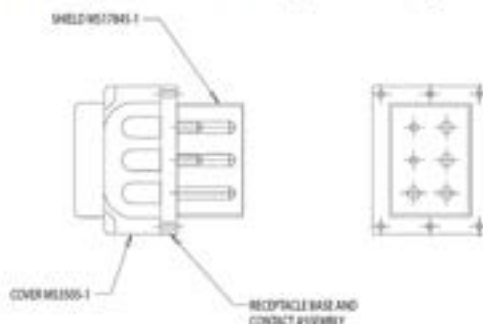
MS 90362-1 Six Pin Receptacle with Shield (MS 17845-1)



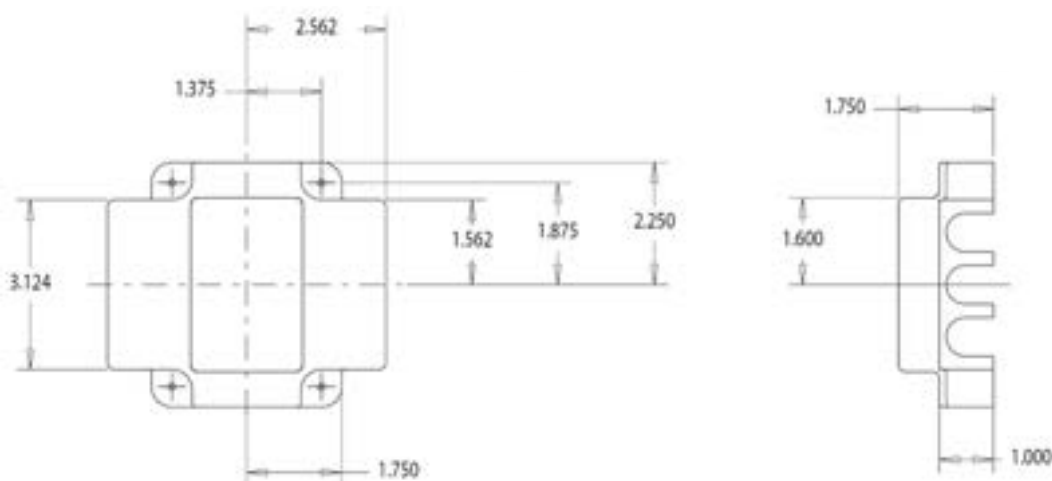
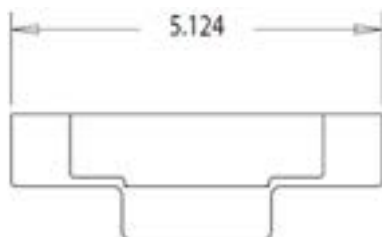
MS 90362-3 Six Pin Receptacle Only



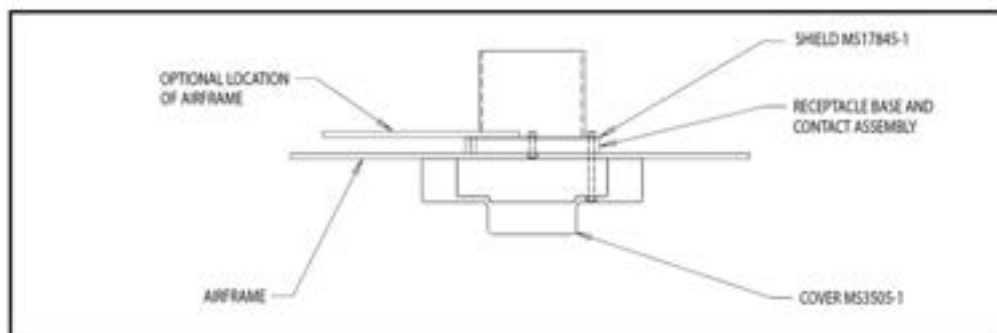
MS 90362-4 Six Pin Receptacle with Shield (MS 17845-1) and Cover (MS 3505-1)



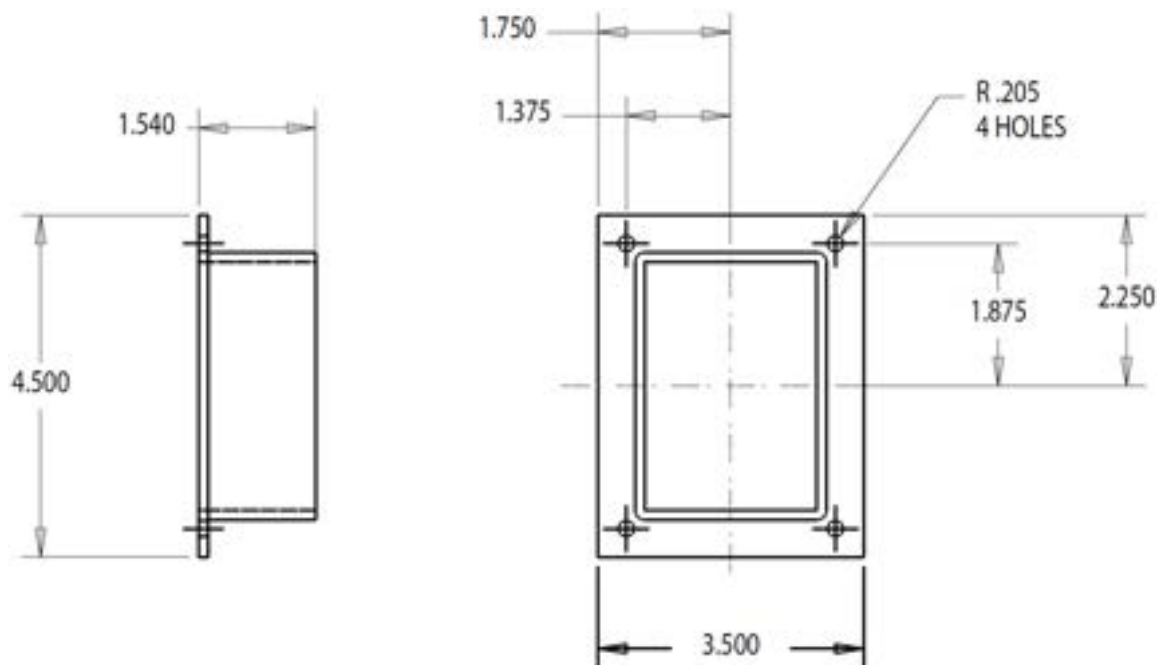
**MS 3505-1 COVER
FOR USE WITH MS 90362 EXTERNAL POWER RECEPTACLE**



TYPICAL INSTALLATION

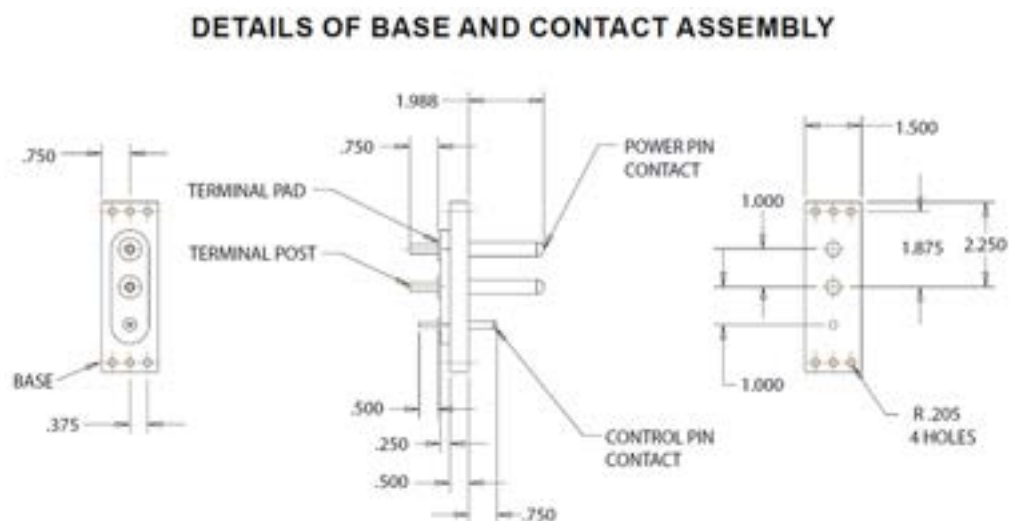
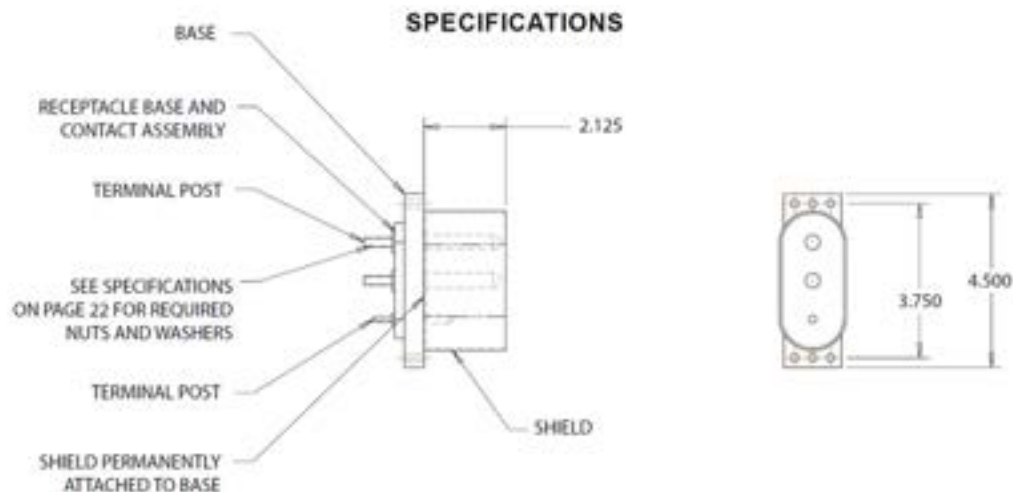


MS17845-1 SHIELD
FOR USE WITH MS 90362 EXTERNAL POWER RECEPTACLE



MS 3506-1
CONNECTOR, RECEPTACLE, EXTERNAL ELECTRICAL POWER, AIRCRAFT, 28 VDC, THREE PIN

MS 3506-1 Three pin receptacle, with Shield permanently attached



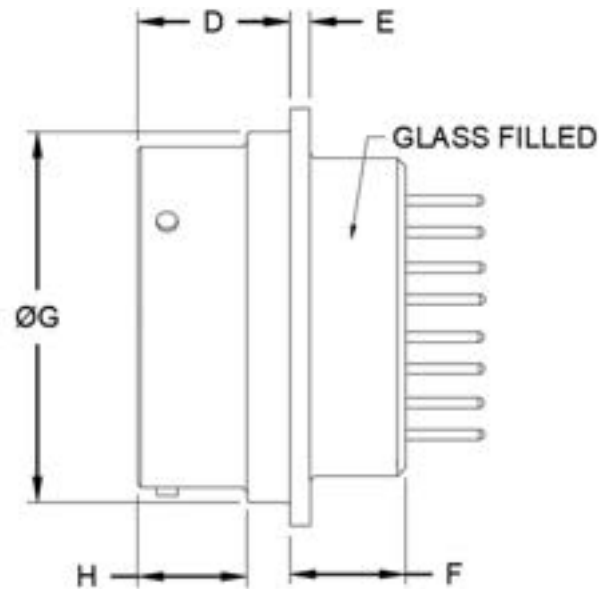
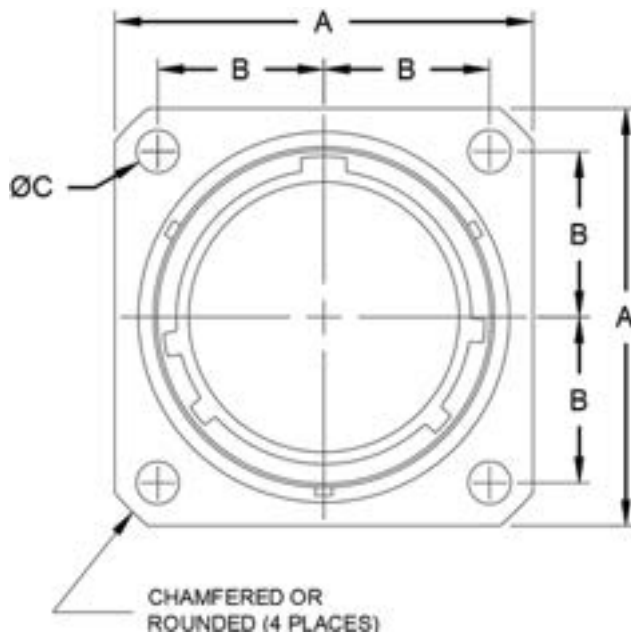
CJ1308

MIL-DTL-38999 SERIES II

RECEPTACLE, GLASS FILLED
INSULATOR, BOX MOUNT,
FLANGE, HERMETIC



PCB,
BOX MOUNT,
HERMETIC



Shell Size	A Max.	B	C Dia. +.010 -0.005	D +.000 -.005	E +.011 -.000	F Max.	G Dia. Max.	H +.000 -.005
8	.828	.297	.120	.447	.058	.250	.547	.322
10	.954	.3595	.120	.447	.058	.250	.672	.322
12	1.047	.406	.120	.447	.058	.250	.844	.322
14	1.141	.453	.120	.447	.058	.250	.969	.322
16	1.234	.4845	.120	.447	.058	.250	1.094	.322
18	1.328	.531	.120	.447	.058	.250	1.219	.322
20	1.453	.578	.120	.447	.058	.250	1.344	.322
22	1.578	.625	.120	.447	.058	.250	1.469	.322
24	1.703	.6875	.147	.447	.058	.250	1.594	.322

CAGE Code: 1R6R9

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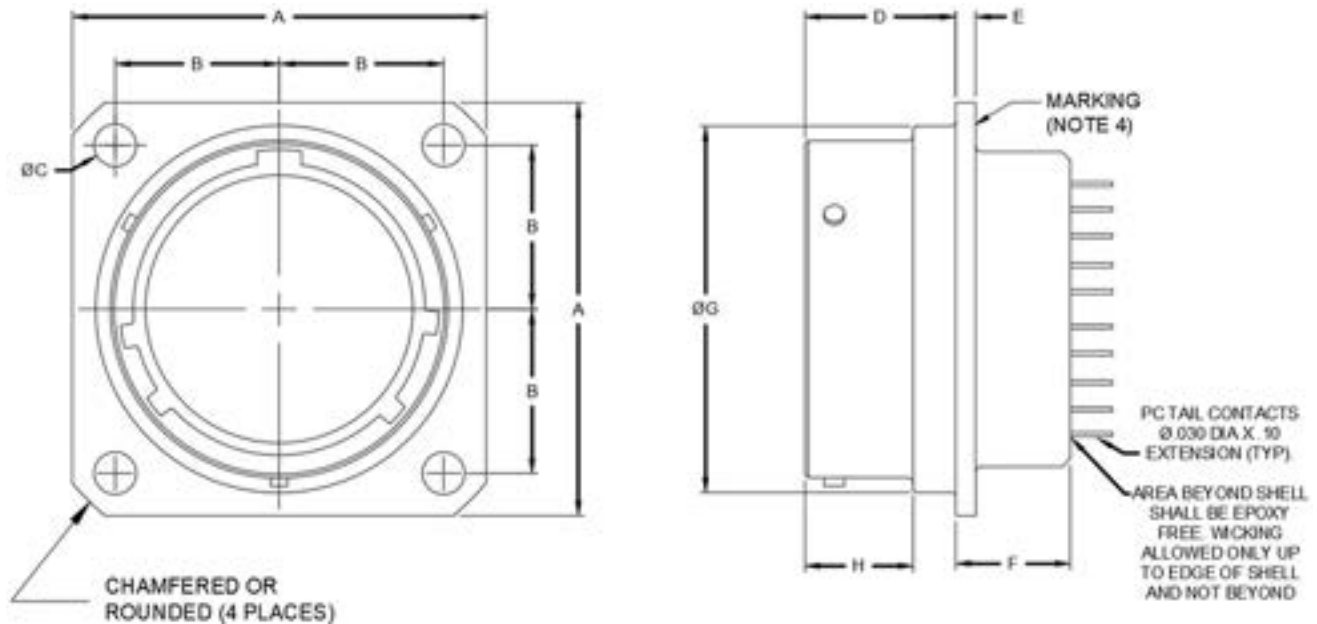
CJ1308

MIL-DTL-38999 SERIES II

RECEPTACLE, SEALED 10-4 TYPE
FLEX MOUNT, STD FLANGE
PCB, HERMETIC



PCB,
BOX MOUNT,
HERMETIC



Shell Size	A Max.	B	C Dia. +.010 -0.005	D +.000 -.005	E +.011 -.000	F Max.	G Dia. Max.	H +.000 -.005
8	.828	.297	.120	.447	.058	.250	.547	.322
10	.954	.3595	.120	.447	.058	.250	.672	.322
12	1.047	.406	.120	.447	.058	.250	.844	.322
14	1.141	.453	.120	.447	.058	.250	.969	.322
16	1.234	.4845	.120	.447	.058	.250	1.094	.322
18	1.328	.531	.120	.447	.058	.250	1.219	.322
20	1.453	.578	.120	.447	.058	.250	1.344	.322
22	1.578	.625	.120	.447	.058	.250	1.469	.322
24	1.703	.6875	.147	.447	.058	.250	1.594	.322

CAGE Code: 1R6R9

E-Mail: sales@corsairelectricalconnectors.com

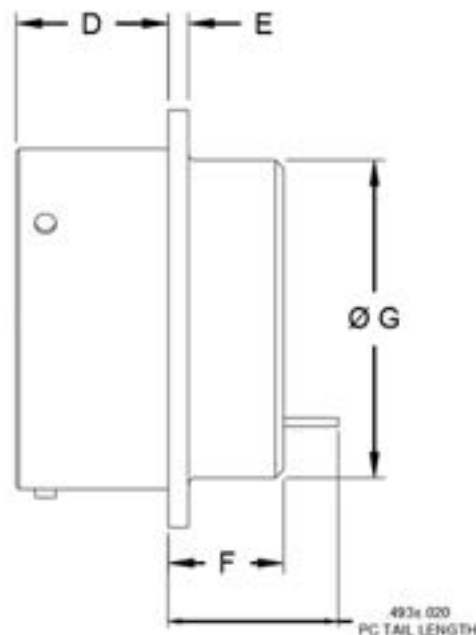
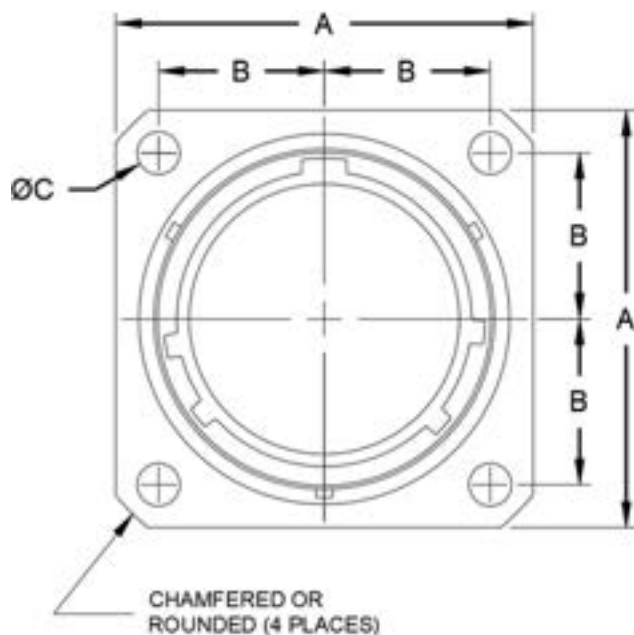
CJ0805

MIL-DTL-38999 SERIES I

RECEPTACLE, BACK PANEL, BOX
MOUNT, FLANGE, BAYONET
COUPLING, PCB CONTACTS



PCB,
BOX MOUNT,
HERMETIC



Shell Size	A ±.020	B	C Dia. +.010 -0.005	D +.000 -.005	E +.015 -.000	F Max.	G Dia. Max.
9	.938	.3595	.128	.820	.085	.100	.547
11	1.031	.406	.128	.820	.085	.100	.656
13	1.125	.453	.128	.820	.085	.100	.828
15	1.219	.4845	.128	.820	.085	.100	.953
17	1.312	.531	.128	.820	.085	.100	1.078
19	1.438	.578	.128	.820	.085	.100	1.203
21	1.562	.625	.128	.790	.115	.100	1.328
23	1.688	.6875	.128	.790	.115	.100	1.453
25	1.812	.750	.147	.790	.115	.100	1.578

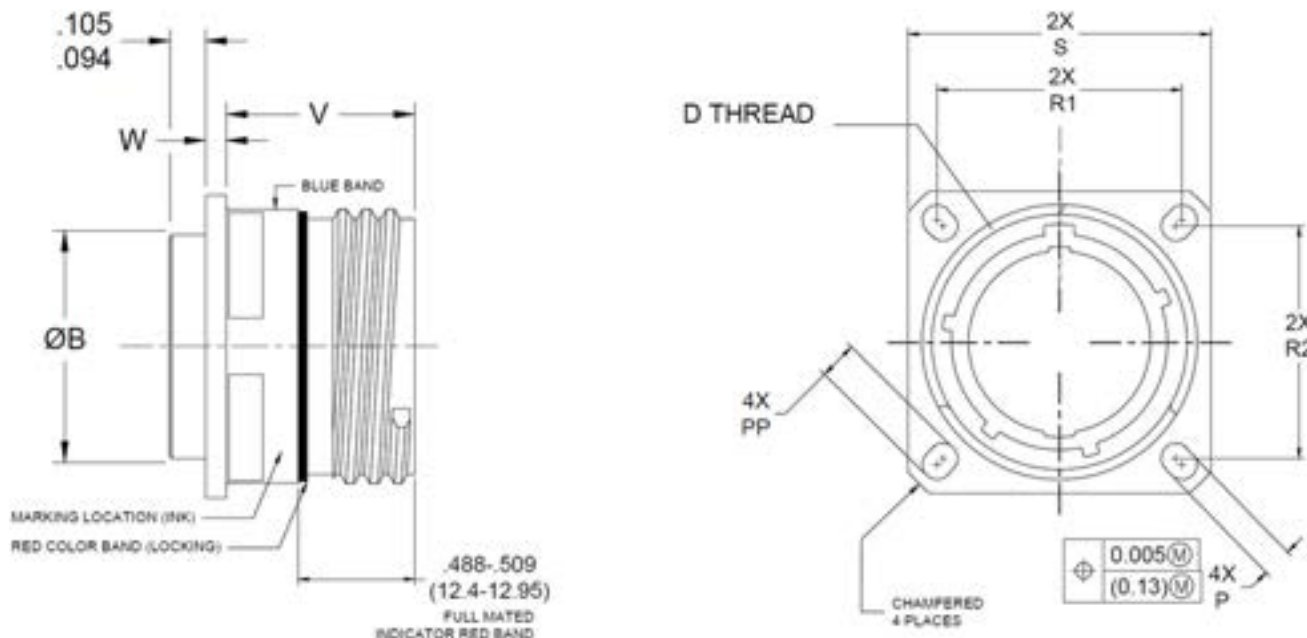
CJ1420

MIL-DTL-38999 SERIES III

RECEPTACLE, BOX MOUNT
STD. FLANGE



PCB,
BOX MOUNT,
HERMETIC



SHELL SIZE	SHELL SIZE CODE	P ±0.20	PP ±0.20	R1	R2	S ±0.3	V +0.00 -1.25	W	B MAX
9	A	0.128 (3.25)	.216 (5.49)	.719 (18.26)	.594 (15.09)	.937 (23.8)	.820 (20.83)	.098/.083 (2.5/2.1)	.414 (10.5)
11	B	0.128 (3.25)	.194 (4.93)	.812 (20.62)	.719 (18.26)	1.031 (26.2)	.820 (20.83)	.098/.083 (2.5/2.1)	.531 (13.5)
13	C	0.128 (3.25)	.194 (4.93)	.906 (23.01)	.812 (20.62)	1.126 (28.6)	.820 (20.83)	.098/.083 (2.5/2.1)	.651 (16.5)
15	D	0.128 (3.25)	.173 (4.39)	.969 (24.61)	.906 (23.01)	1.220 (31.0)	.820 (20.83)	.098/.083 (2.5/2.1)	.808 (20.5)
17	E	0.128 (3.25)	.194 (4.93)	1.062 (26.97)	.969 (24.61)	1.311 (33.3)	.820 (20.83)	.098/.083 (2.5/2.1)	.926 (23.5)
19	F	0.128 (3.25)	.194 (4.93)	1.156 (29.36)	.969 (24.61)	1.437 (36.5)	.820 (20.83)	.098/.083 (2.5/2.1)	1.044 (26.5)
21	G	0.128 (3.25)	.194 (4.93)	1.250 (31.75)	1.156 (29.36)	1.563 (39.7)	.790 (20.07)	0.126/.083 (3.2/2.1)	1.162 (29.5)
23	H	.154 (3.91)	.242 (6.15)	1.375 (34.93)	1.250 (31.75)	1.689 (42.9)	.790 (20.07)	0.126/.083 (3.2/2.1)	1.280 (35.5)
25	J	.154 (3.91)	.242 (6.15)	1.500 (38.10)	1.375 (34.93)	1.811 (46.0)	.790 (20.07)	0.126/.083 (3.2/2.1)	1.398 (35.5)

CAGE Code: 1R6R9

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ADDITIONAL CONTACT INFORMATION FOR MIL-DTL-5015 III CONNECTORS

Contact Size	DC Test Current	MIL-C-39029 (P/N = M39029) Contact Slash Sheet Number-PIN		Wire Range	Insulation Sealing Range ø	Sealing Plugs MS27488
		PIN (Color Code)	Socket			
16S	13 AMPS	N/A	/30-217 RED/BRN/BLU	20-16 AWG	.053-.103	-16-3 (BLU)
16	13 AMPS	/29-212 RED/BRN/RED	/30-218 RED/BRN/GRY	20-16 AWG	.053-.103	-16-3 (BLU)
12	23 AMPS	/29-213 RED/BRN/ORN	/30-219 RED/BRN/WHT	14-12 AWG	.085-.158	-12-3 (YEL)
8	46 AMPS	/29-214 RED/BRN/YEL	/30-220 RED/RED/BLK	10-8" AWG	.132-.255	-8-3 (RED)
4	80 AMPS	/29-215 RED/BRN/GRN	/30-221 RED/RED/BRN	6-4" AWG	.237-.370	-4-3 (BLU)
0	150 AMPS	/29-216 RED/BRN/BLU	/30-222 RED/RED/RED	2-0" AWG	.360-.550	-0-3 (YEL)

*Utilization of smaller wire is accomplished by use of MS3348 bushings

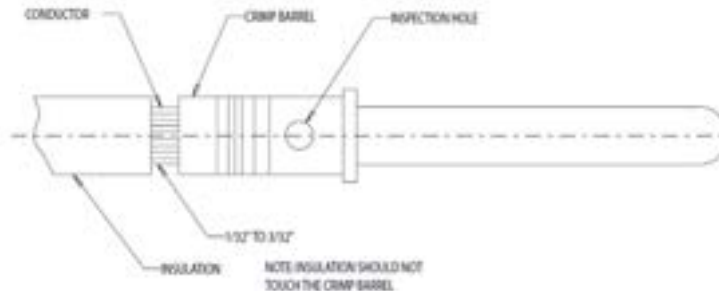
MIL-DTL-5015 III ASSEMBLY INFORMATION CRIMP TOOLS AND INSERTION / REMOVAL TOOLS

Contact Size	Crimping Tool	Positioner	Die	Locator	Extraction Tool	Insertion Removal Tool
					Tool Metal	Plastic
16S	M22520/1-01	M22520/1-02	N/A	N/A	M81969/8-208	M81969/14-03
16	M22520/1-01	M22520/1-02	N/A	N/A	M81969/8-208	M81969/14-03
12	M22520/1-01	M22520/1-02	N/A	N/A	M81969/8-210	M81969/14-04
8	M22520/23-01	N/A*	M22520/23-02	M22520/23-09	M81969/15-01	M81969/14-06
4	M22520/23-01	N/A*	M22520/23-03	M22520/23-11	M81969/15-02	M81969/14-07
0	M22520/23-01	N/A*	M22520/23-04	M22520/23-13	M81969/15-03	M81969/14-08

*Pneumatic Crimping Machine required.

ADDITIONAL CONTACT INFORMATION FOR MIL-DTL-26482 SERIES 2 CONNECTORS

Contact Size	DC Test Current	MIL-C-39029 (P/N = M39029) Contact Slash Sheet Number-PIN		Wire Range	Insulation Sealing Range ø	Sealing Plugs MS27488
		PIN (Color Code)	Socket			
20	7.5 AMPS	/4-110 BRN/BRN/BLK	/5-115 BRN/BRN/GRN	24-20 AWG	.040 - .083	-20-2 (RED)
16	13 AMPS	/4-111 BRN/BRN/BRN	/5-116 BRN/BRN/BLU	20-16 AWG	.053 - .103	-16-2 (GRN)
12	23 AMPS	/4-113 BRN/BRN/ORN	/5-118 BRN/BRN/GRY	14-12 AWG	.097 - .158	-12-2 (ORN)



The proper stripping length of the conductor is the length of wire in the contact wire barrel (properly seated, and seen through the wire inspection hole), plus 1/32" to 3/32" of exposed wire between the insulation and the wire barrel. This exposed wire insures that the assembler will not crimp on the insulation, and also adds a point of flexibility.

MIL-DTL-5015

SERIES II



MIL-DTL-5015
SERIES II

PIN M39029/44

Contact Size	Crimp Barrel		AS39029 MIL-STD P/N	DESCRIPTION
	Wire Size	Wire Range AWG		
16	22	22, 24 & 26	M39029/44-287	CONT. PIN, Sz 16-22, RED/GRY/VIO
16	16	16, 18 & 20	M39029/44-288	CONT. PIN, Sz 16-16, RED/GRY/GRY
12	16	16, 18 & 20	M39029/44-289	CONT. PIN, Sz 12-16, RED/GRY/WHT
12	12	12 & 14	M39029/44-290	CONT. PIN, Sz 12-12, RED/WHT/BLK
8	8	8, 10 1/	M39029/44-291	CONTACT, PIN, Sz 8, RED/WHT/BRN
4	4	4 & 6 1/	M39029/44-292	CONTACT, PIN, Sz 4, RED/WHT/RED
0	0	0 & 2 1/	M39029/44-293	CONTACT, PIN, Sz 0, RED/WHT/ORN

SOCKET M39029/45

Contact Size	Crimp Barrel		AS39029 MIL-STD P/N	DESCRIPTION	DESCRIPTION
	Wire Size	Wire Range AWG			
16	22	22, 24 & 26	M39029/45-294	CONT. SKT, Sz 16-22, RED/WHT/YEL	CONT. SKT, Sz 16-22, RED/WHT/YEL
16	16	16, 18 & 20	M39029/45-295	CONT. SKT, Sz 16-16, RED/WHT/GRN	CONT. SKT, Sz 16-16, RED/WHT/GRN
12	16	16, 18 & 20	M39029/45-296	CONT. SKT, Sz 12-16, RED/WHT/BLU	CONT. SKT, Sz 12-16, RED/WHT/BLU
12	12	12 & 14	M39029/45-297	CONT. SKT, Sz 12-12, RED/WHT/VIO	CONT. SKT, Sz 12-12, RED/WHT/VIO
8	8	8, 10 1/	M39029/45-298	CONTACT, SKT, Sz 8, RED/WHT/GRY	CONTACT, SKT, Sz 8, RED/WHT/GRY
4	4	4 & 6 1/	M39029/45-299	CONTACT, SKT, Sz 4, RED/WHT/WHT	CONTACT, SKT, Sz 4, RED/WHT/WHT
0	0	0 & 2 1/	M39029/45-300	CONTACT, SKT, Sz 0, ORN/BLK/BLK	CONTACT, SKT, Sz 0, ORN/BLK/BLK

*1/ REQUIRES USE OF A (AS39029/112) MS3346 CONDUCTIVE BUSHING PRIOR TO CRIMPING

SEALING PLUGS MS27488

Contact Size	MIL-STD P/N	DESCRIPTION
16	MS27488-16-3	SEAL PLUG, Sz 16 AWG, BLUE
12	MS27488-12-3	SEAL PLUG, Sz 12 AWG, YELLOW
8	MS27488-8-3	SEAL PLUG, Sz 8 AWG, RED
4	MS27488-4-3	SEAL PLUG, Sz 4 AWG, BLUE
0	MS27488-0-3	SEAL PLUG, Sz 0 AWG, YELLOW

TOOLS

Contact Size	MS INSERTION	MS EXTRACTION	MS CRIMP	
	TOOL P/N	TOOL P/N	TOOL P/N	POSITIONER P/N
16	M81969/17-01	M81969/19-01	M22520/1-01	M22520/1-02 BLU
12	M81969/17-02	M81969/19-02	M22520/1-01	M22520/1-02 YEL
8 2/	M81969/17-06	M81969/19-03	M22520/23-02	M22520/23-09
4 2/	M81969/17-07	M81969/19-04	M22520/23-04	M22520/23-11
0 2/	M81969/17-08	M81969/19-05	M22520/23-05	M22520/23-13

*2/ REQUIRES USE OF A M22520/23/01 POWER CRIMP TOOL FOR CONTACT SIZES #8, #4, & #0

CAGE Code: 1R6R9

E-Mail: sales@corsairelectricalconnectors.com

MIL-DTL-38999

SERIES I, II, III



MIL-DTL-38999
SERIES I,II,III

ADDITIONAL CONTACT INFORMATION FOR MIL-DTL-38999 CONNECTORS

Contact Size	P/S	Wire Range AWG	AS39029/ MIL-SPEC P/N
Series I & III Size 22D	PIN	22-28	AS39029/58-360
	SOCKET		AS39029/56-348
Series I & III Size 20	PIN	20-24	AS39029/58-363
	SOCKET		AS39029/56-351
Series I & III Size 16	PIN	16-20	AS39029/58-364
	SOCKET		AS39029/56-352
Series I & III Size 12	PIN	12-14	AS39029/58-365
	SOCKET		AS39029/56-353
Series I & III Size 10	PIN	10-12	AS39029/58-528
	SOCKET		AS39029/56-527
Series I & III Size 8 (COAX)	PIN	10-8	AS39029/60-367
	SOCKET		AS39029/59-366
Series II Size 22D	PIN	22-28	AS39029/58-360
	SOCKET		AS39029/57-354
Series II Size 20	PIN	20-24	AS39029/58-363
	SOCKET		AS39029/57-357
Series II Size 16	PIN	16-20	AS39029/58-364
	SOCKET		AS39029/57-358
Series II Size 12	PIN	12-14	AS39029/58-365
	SOCKET		AS39029/57-359

CAGE Code: 1R6R9

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MIL-DTL-38999

SERIES I, II, III



MIL-DTL-38999
SERIES I,II,III

CRIMP TOOLS AND INSERTION/REMOVAL TOOLS

Contact Size	Plastic Tools Insert/Removal	M22520/ Crimp Tool	M22520/ Positioner
22D I & III	M81969/14-01 GREEN/WHITE	2-01	2-07
22D II	M81969/14-01 GREEN/WHITE	2-01	2-06
20	M81969/14-10 RED/ORANGE	1-01 2-0	1-07 2-10
16	M81969/14-03 BLUE/WHITE	1-01	1-04
12	M81969/14-04 YELLOW/WHITE	1-01	1-04
10	M81969/14-05 GRAY/WHITE	DMC 1716P-1	N/A
8	M81969/14-12 NA/GREEN	23-04	1-04 2-10

*PNEUMATIC CRIMPING MACHINE REQUIRED

SEALING PLUGS MS27488

Contact Size	MIL STD P/N	Color key
22D	MS27488-22-2	BLACK
20	MS27488-20-2	RED
16	MS27488-16-2	BLUE
12	MS27488-12-2	YELLOW
10	M85049/81-10	GREEN
8	MS27488-8-2	RED

CAGE Code: 1R6R9

E-Mail: sales@corsairelectricalconnectors.com

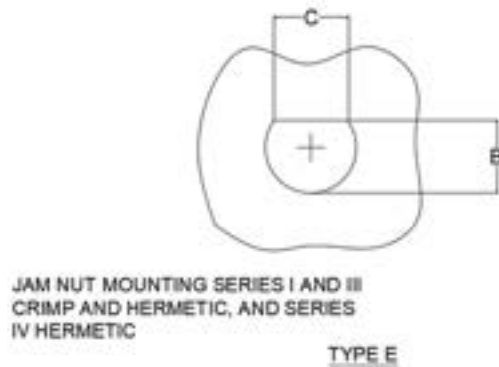
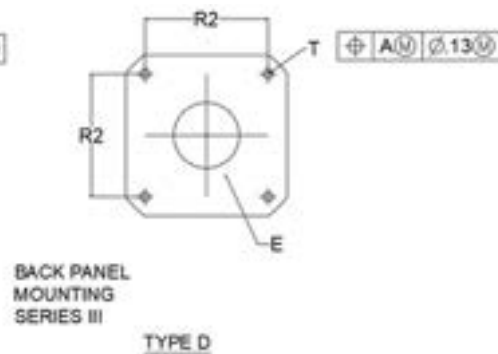
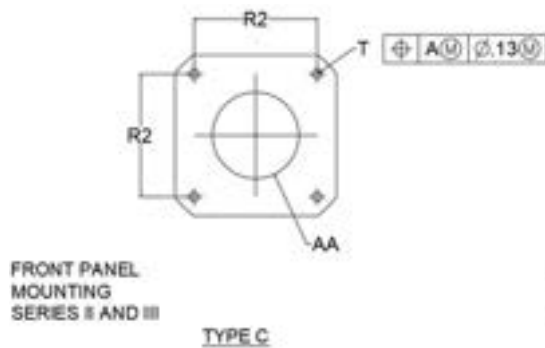
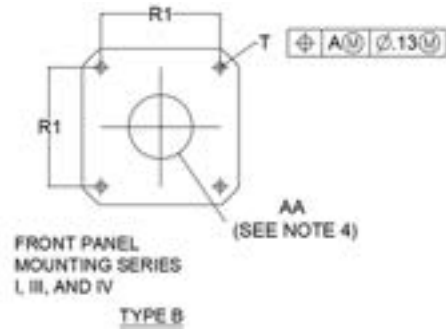
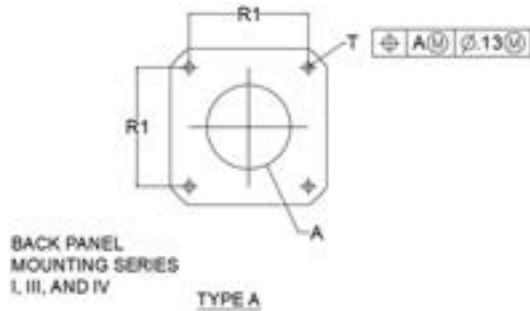
MIL-DTL-38999

SERIES I, II, III

RECOMMENDED PANEL DIMENSIONS & THREAD DETAILS



MIL-DTL-38999
SERIES I,II,III



MIL-DTL-38999

SERIES I, II, III

RECOMMENDED PANEL DIMENSIONS & THREAD DETAILS



MIL-DTL-38999
SERIES I,II,III

SHELL SIZE	A DIA MIN	AA DIA MIN	B +.00 -.25 (SEE NOTE 2)	C +.25 -.00	E DIA MIN	F +.00 -.25	G +.25 -.00	R1	R2	T DIA ±.13
8-9	.656 (16.66)	.516 (13.11)	.657 (16.70)	.693 (17.6)	.557 (14.15)	.830 (21.08)	.885 (22.48)	.719 (18.26)	.594 (15.09)	.128 (3.25)
10-11	.796 (20.22)	.625 (15.88)	.771 (19.59)	.825 (20.96)	.682 (17.32)	.955 (24.26)	1.010 (25.65)	.812 (20.62)	.719 (18.26)	.128 (3.25)
12-13	.922 (23.42)	.750 (19.05)	.955 (24.26)	1.010 (25.65)	.854 (21.69)	1.085 (27.56)	1.135 (28.83)	.906 (23.01)	.812 (20.62)	.128 (3.25)
14-15	1.047 (26.59)	.906 (23.01)	1.085 (27.56)	1.135 (28.83)	.979 (24.87)	1.210 (30.73)	1.260 (32.01)	.969 (24.61)	.906 (23.01)	.128 (3.25)
16-17	1.219 (30.96)	1.016 (25.81)	1.210 (30.73)	32.01 (1.260)	1.104 (28.04)	1.335 (33.91)	1.385 (35.18)	1.062 (26.97)	.969 (24.61)	.128 (3.25)
18-19	1.297 (32.94)	1.141 (28.98)	1.335 (33.91)	1.385 (35.18)	1.229 (31.22)	1.460 (37.08)	1.510 (38.35)	1.156 (29.36)	1.062 (26.97)	.128 (3.25)
20-21	1.422 (36.12)	1.266 (32.16)	1.460 (37.08)	1.510 (38.35)	1.354 (34.39)	1.585 (40.26)	1.635 (41.53)	1.250 (31.75)	1.156 (29.36)	.128 (3.25)
22-23	1.547 (39.29)	1.375 (34.93)	1.585 (40.26)	1.635 (41.53)	1.476 (37.57)	1.709 (43.42)	1.760 (44.70)	1.375 (34.93)	1.250 (31.75)	.154 (3.91)
24-25	1.672 (42.47)	1.484 (37.69)	1.710 (43.43)	1.760 (44.70)	1.604 (40.74)	1.835 (46.61)	1.885 (47.88)	1.500 (38.10)	1.375 (34.93)	.150 (3.81)

NOTES

1. DIMENSIONS ARE IN INCHES. MILLIMETER ARE IN PARENTHESES AND GIVEN FOR INFORMATION ONLY.
2. "AA" MINIMUM IS RECOMMENDED CLEARANCE FOR CONNECTORS LESS ACCESSORIES AND HAVING SKIRT DIAMETERS NO LARGER THAN METRIC THREAD ILLUSTRATED ON SERIES III AND IV CONNECTOR ACCESSORY INTERFACE DIMENSIONS.
3. FOR DIMENSION B, SHELL SIZE ONLY, TOLERANCE IS +.004 / - .004 INCHES (+.10 / -.10 MM)

MIL-DTL-5015, MIL-DTL-26482, AS81790

APPLICABLE MANUFACTURING PROCESS FINISHES

CLASS W	<i>Cadmium (Olive Drab) over Nickel Plate, used for 500 hour salt spray requirements. Cadmium plate per QQ-P416 Type II, Class 2. Color: Olive Drab (Electrically conductive) over Electroless Nickel per MIL-C-26074, Class 4, Grade B. (Total thickness to be .0010" minimum. Bake after nickel plate 1 hour @ 375 +/- 10 degrees F. Bake after cadmium plate and chromed treatment for 1 hour @ 375 +/- 10 degrees F.</i>
CLASS L	<i>Nickel Plate (Electroless) Electroless Nickel per MIL-C-20674, Class 3 or 4, Grade B. Total thickness to be .0010" minimum.</i>
CLASS A	<i>Hard Black Anodize (Aluminum parts only) Anodize (non-conductive) per MIL-A-2685, Type III, Class 2, .0004" minimum for military, and .0010" for industrial.</i>
CLASS G/KS/LS	<i>Passivate (Stainless Steel parts only) Passivate per QQ-P-35</i>
CLASS N	<i>Electrodeposited Nickel Finish (Stainless Steel parts only) Electrodeposited nickel per QQ-N-290</i>
CLASS KT	<i>Cadmium (Olive Drab) per QQ-P-416, Type II, Class 2.</i>
SHIELDS	<i>Chemically Surface Treated (Green) per MIL-C-5541, Class 2, over Epoxy Primer Coat per MIL-P-85582</i>

MIL-DTL-38999

MANUFACTURING PROCESS FINISHES



MIL-DTL-38999 SERIES I & II

FINISH A Silver to Light Iridescent yellow color Cadmium Plate over Nickel (conductive)

FINISH B Olive-drab cadmium plate over a suitable underplate (conductive) -65°C to +175°C

FINISH C Anodic (nonconductive) -65°C to +200°C

FINISH F Electroless nickel coating (conductive) -65°C to +200°C

FINISH Z Zinc nickel (conductive) -65°C to +175°C

MIL-DTL-38999 SERIES III

CLASS C Anodic (nonconductive) -65°C to +200°C

CLASS F Electroless nickel coating (conductive) -65°C to +200°C

CLASS K Corrosion resistant steel, passivated (conductive) -65°C to +200°C

CLASS L Corrosion resistant steel, Electrodeposited nickel plating (conductive) -65°C to +200°C

CLASS S Corrosion resistant steel, Electrodeposited nickel plating (conductive) -65°C to +200°C

CLASS T Nickel flourocarbon polymer over a suitable underplate (conductive) -65°C to +175°C

CLASS W Olive-drab cadmium plate over a suitable underplate (conductive) -65°C to +175°C

CLASS Z Zinc Nickel over a suitable underplate (conductive) -65°C to +175°C

Note: 175°C is the maximum temperature rating of a shrink sleeve used with some size 8 twinax contacts. The temperature rating of a connector rated at 200°C maximum will be reduced to 175°C when it utilizes shrink sleeves with size 8 SAE-AS 39029/90, /91, /113, or /114 pin or socket contacts