

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)
W, X, Y, OR Z ALTERNATE POSITIONS REFER TO POLARIZATION CHART

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

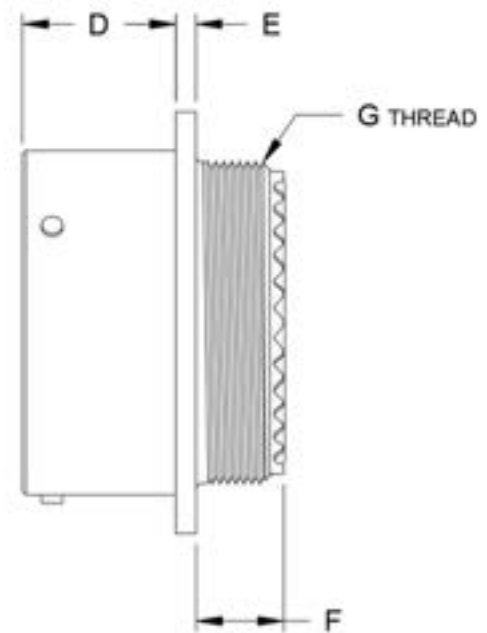
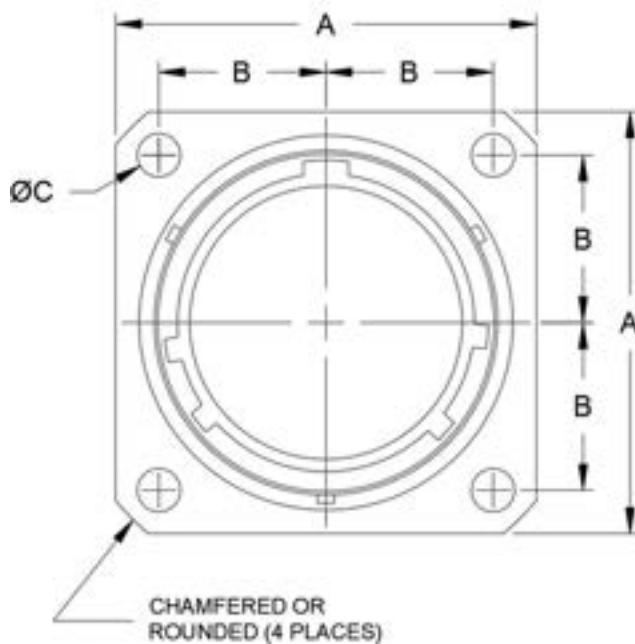
REFER TO ADDITIONAL CONTACT AND
TOOLING INFORMATION

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

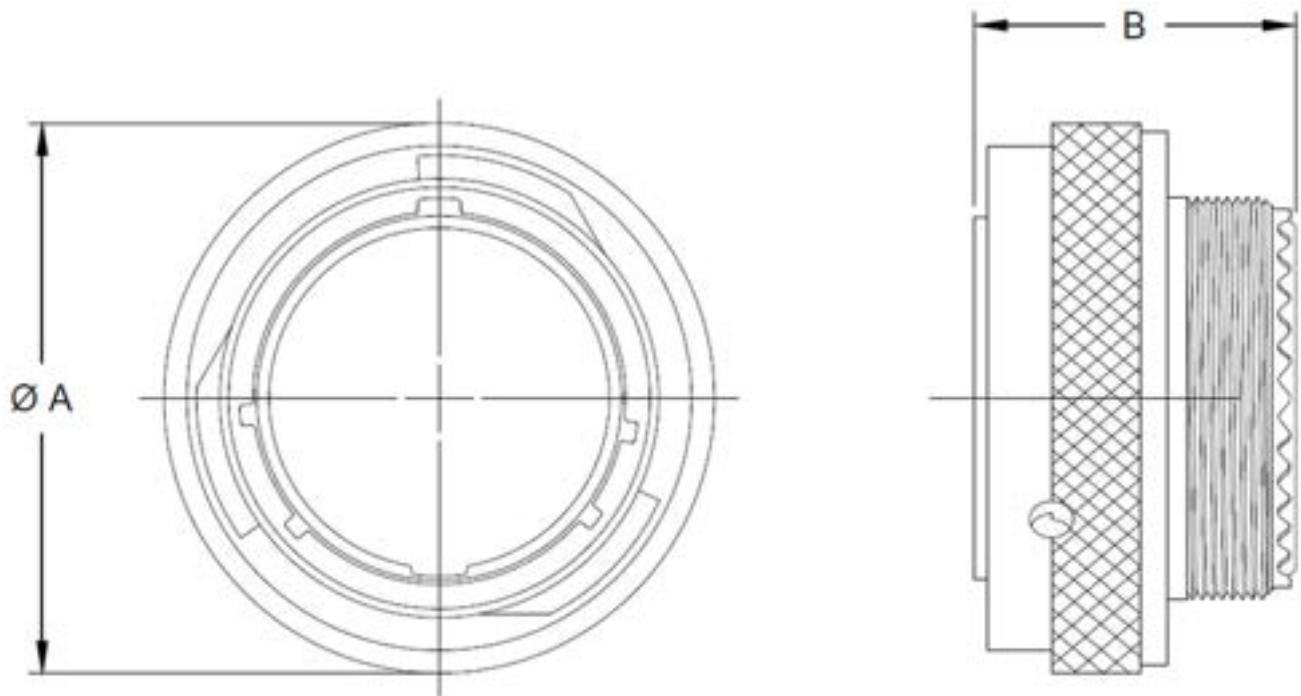
E-Mail: sales@corsairelectricalconnectors.com

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

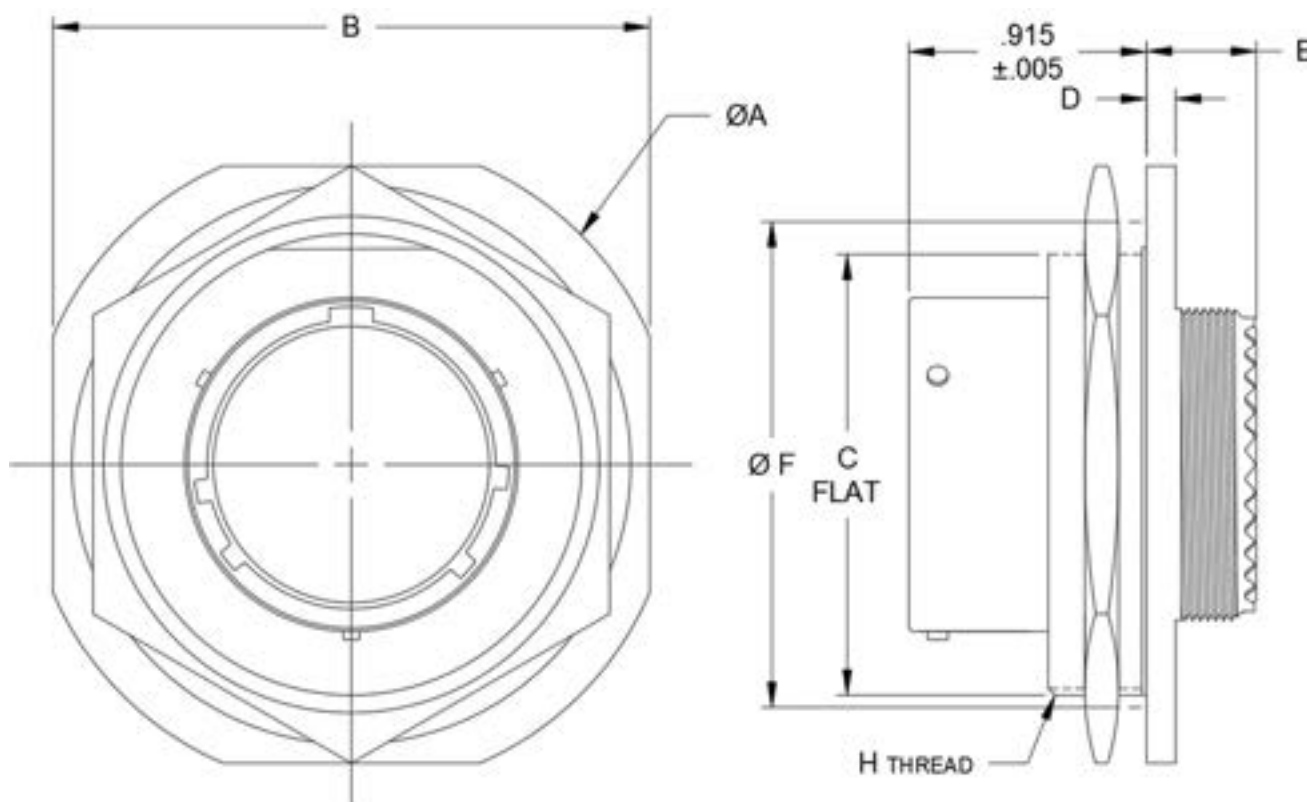
E-Mail: sales@corsairelectricalconnectors.com

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

CAGE Code: 1R6R9

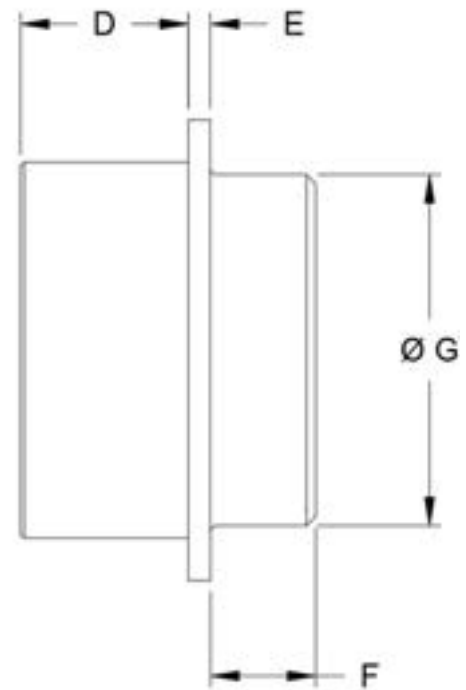
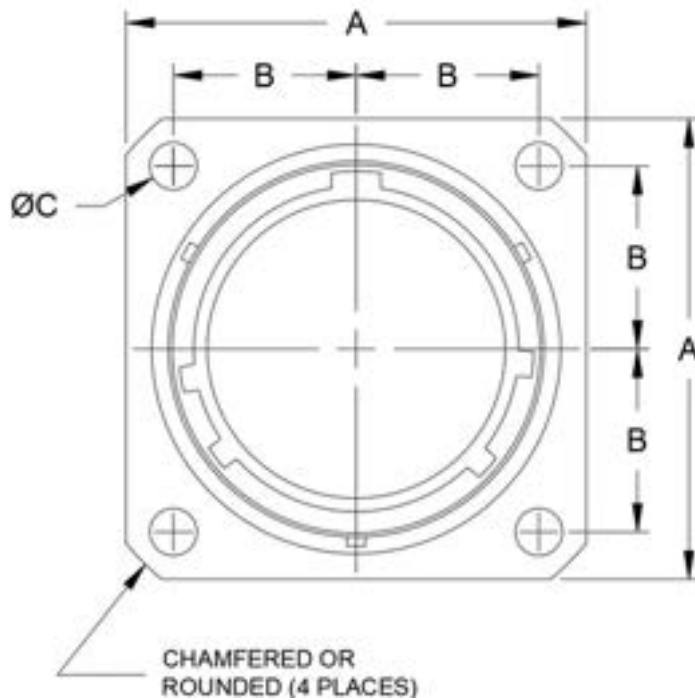
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MS27496

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

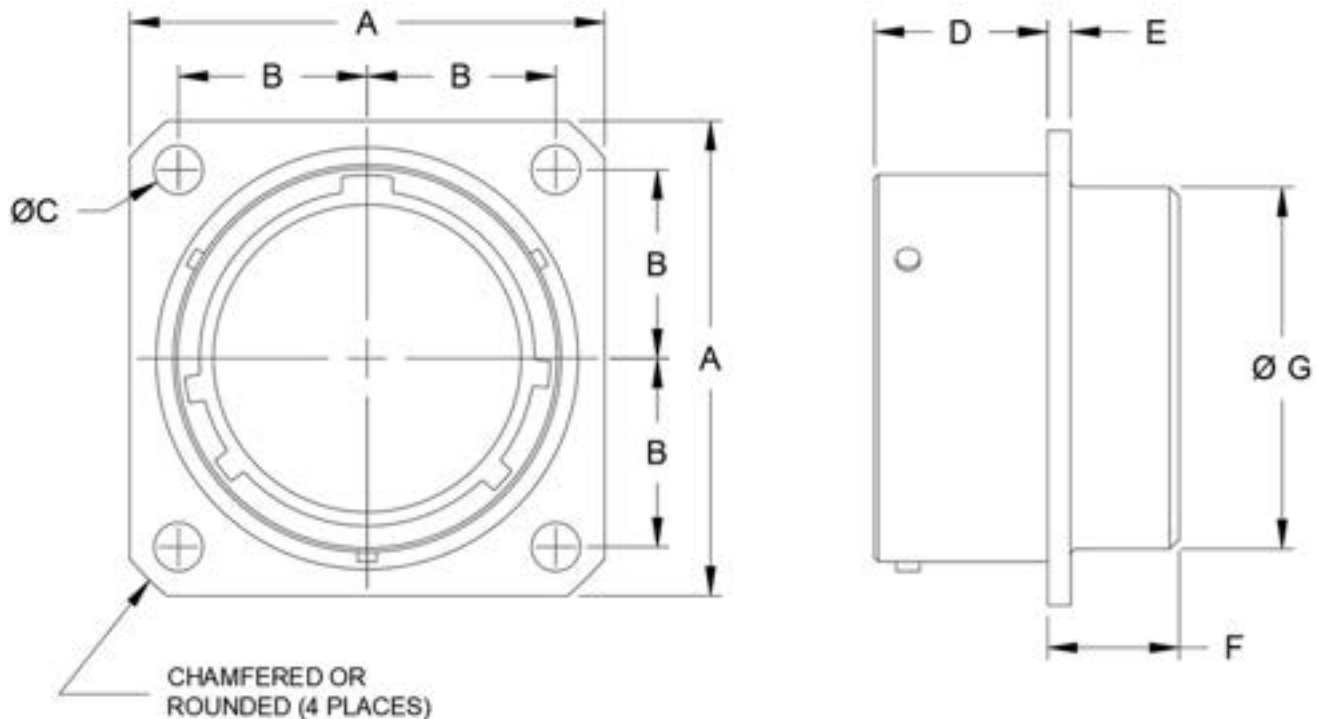
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MS27505

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

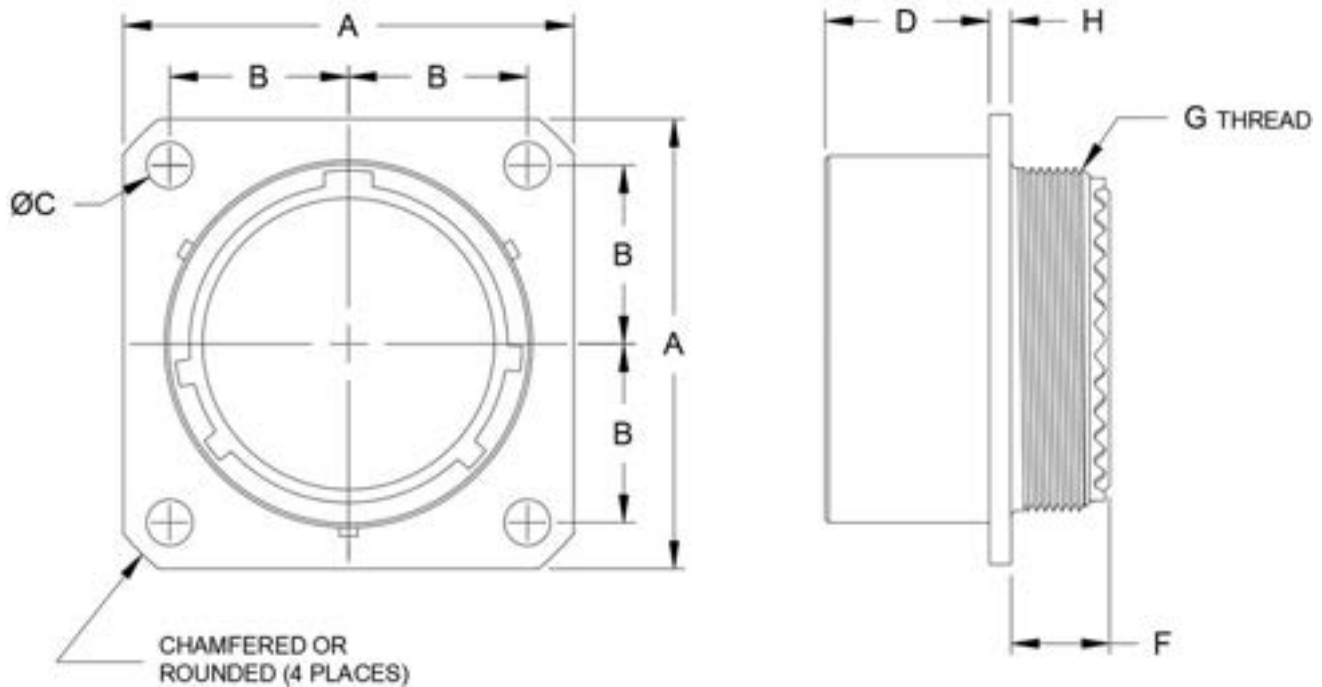
E-Mail: sales@corsairelectricalconnectors.com

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

CAGE Code: 1R6R9

E-Mail: sales@corsairelectricalconnectors.com

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)
W, X, Y, OR Z ALTERNATE POSITIONS REFER TO POLARIZATION CHART

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

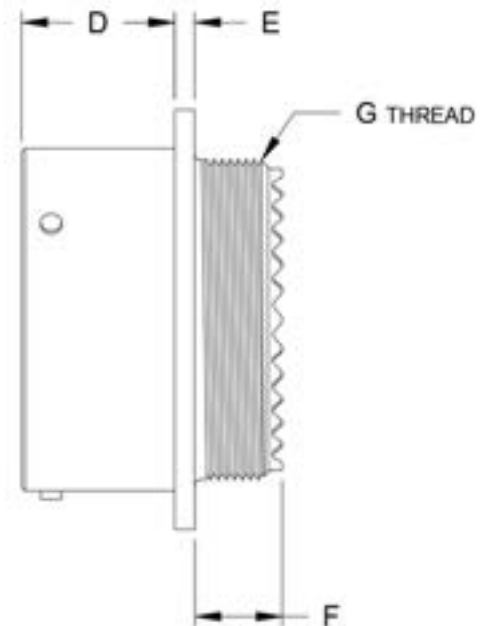
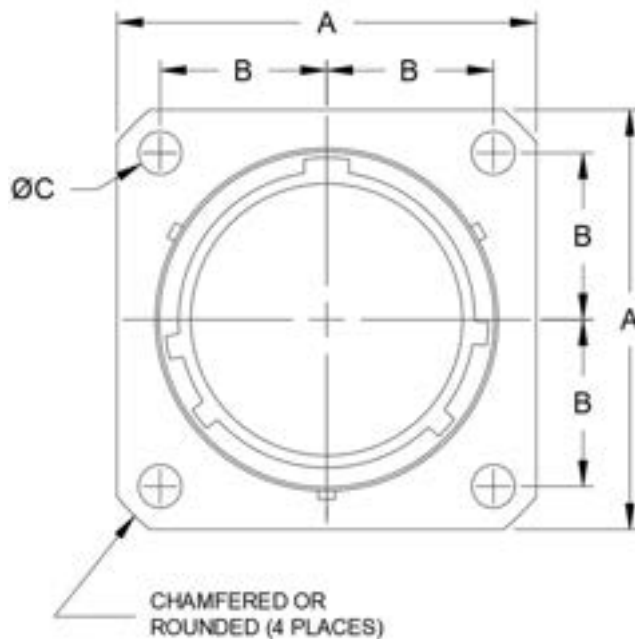
REFER TO ADDITIONAL CONTACT AND
TOOLING INFORMATION

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

CAGE Code: 1R6R9

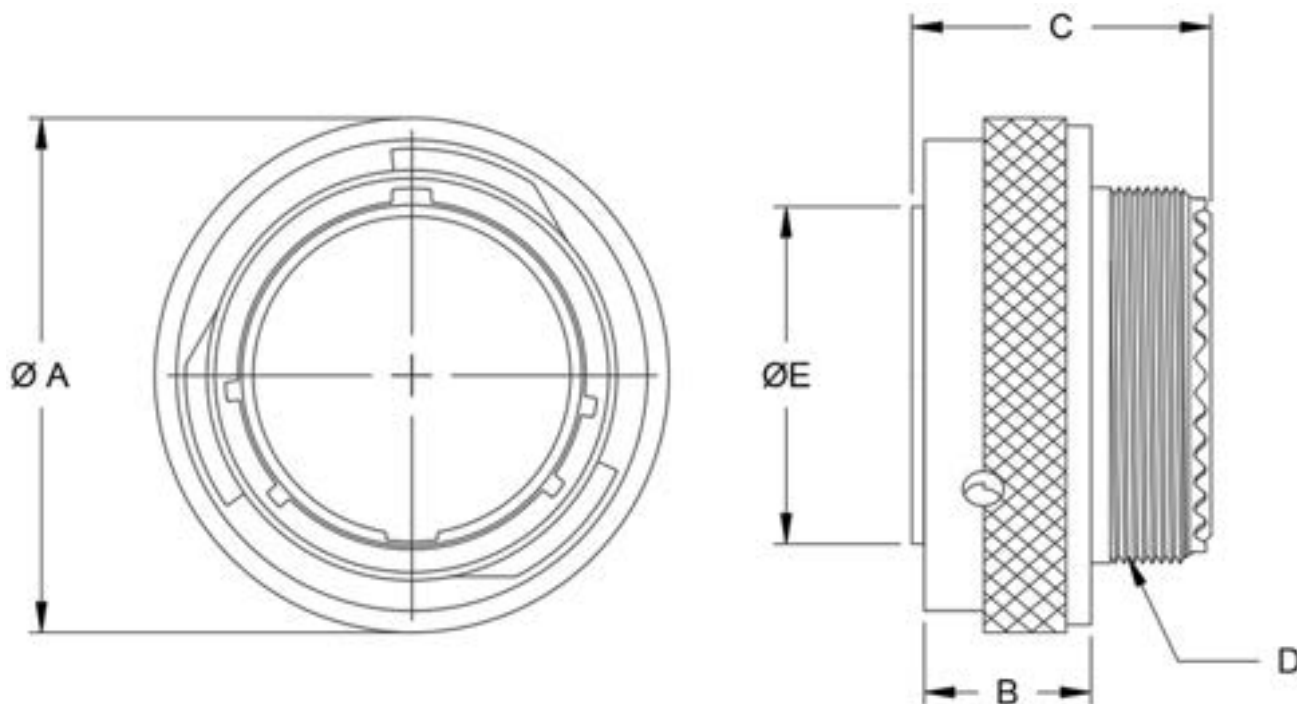
E-Mail: sales@corsairelectricalconnectors.com

MS27473

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



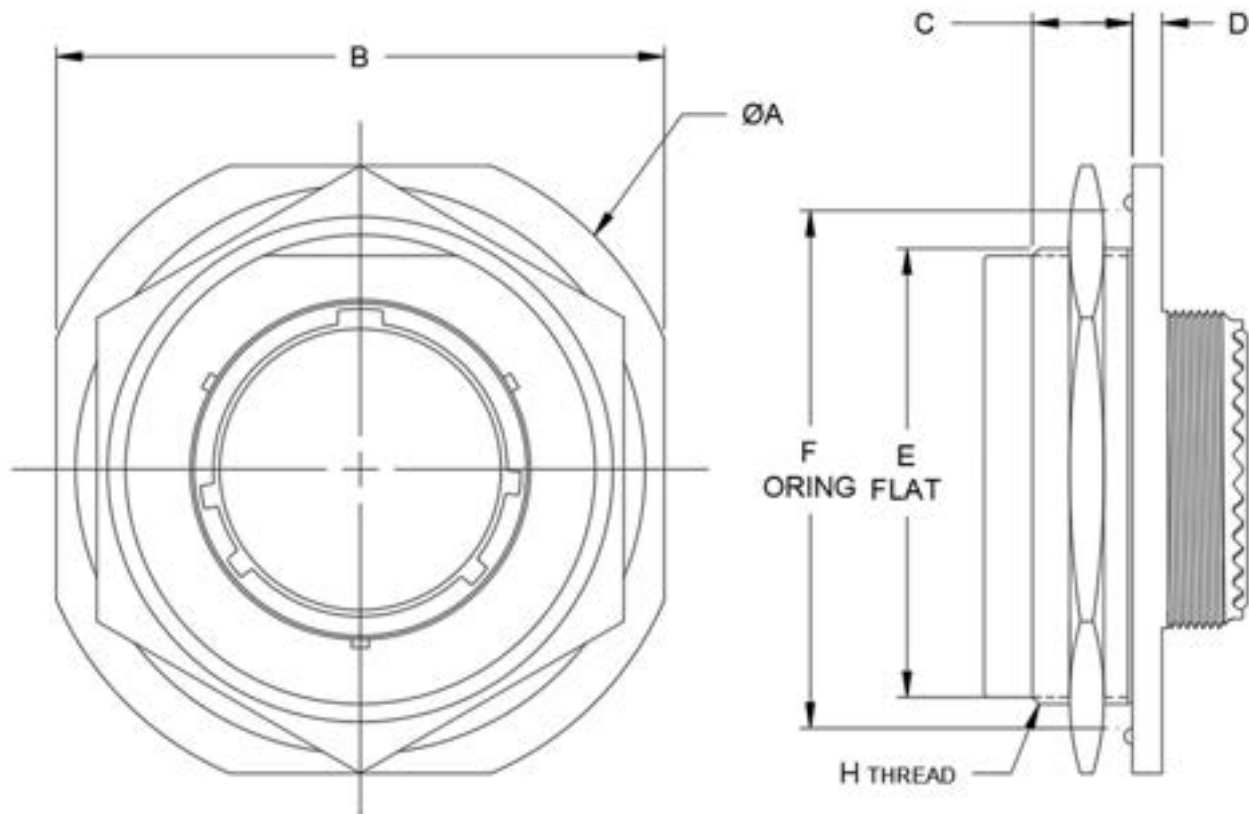
Shell Size	D thread Class 2A	A Dia. +.005 -.006	B $\pm .015$	C (Class E) Max.	C (Class P) Max.	C (Class T) Max.
8	.4375-28 UNEF	.750	.547	1.026	1.020	.766
10	.5625-24 UNEF	.859	.547	1.026	1.020	.766
12	.6875-24 UNEF	1.031	.547	1.026	1.020	.766
14	.8125-20 UNEF	1.156	.547	1.026	1.020	.766
16	.9375-20 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

MS27474

MIL-DTL-38999 SERIES II



MIL-DTL-38999
SERIES II



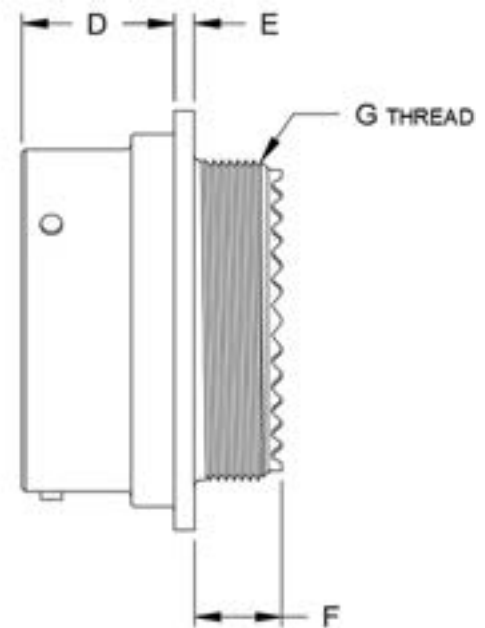
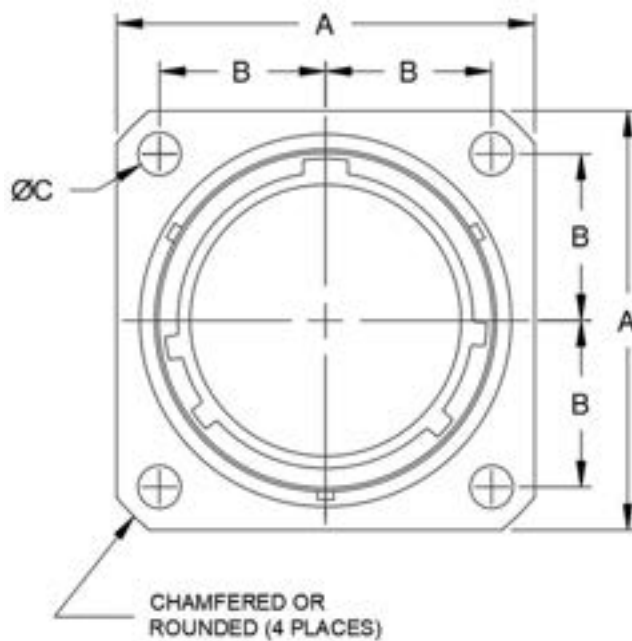
Shell Size	H Thread Class 2A Plated	A Dia. ±.016	B ±.016	C ±.005	D +.011 -.010	E +.001 -.006	F Dia. +.006 -.005
8	.875-20 UNEF	1.375	1.250	.438	.094	.817	.965
10	1.000-20 UNEF	1.500	1.375	.438	.094	.941	1.090
12	1.125-18 UNEF	1.625	1.500	.438	.094	1.065	1.215
14	1.250-18 UNEF	1.750	1.625	.438	.094	1.190	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

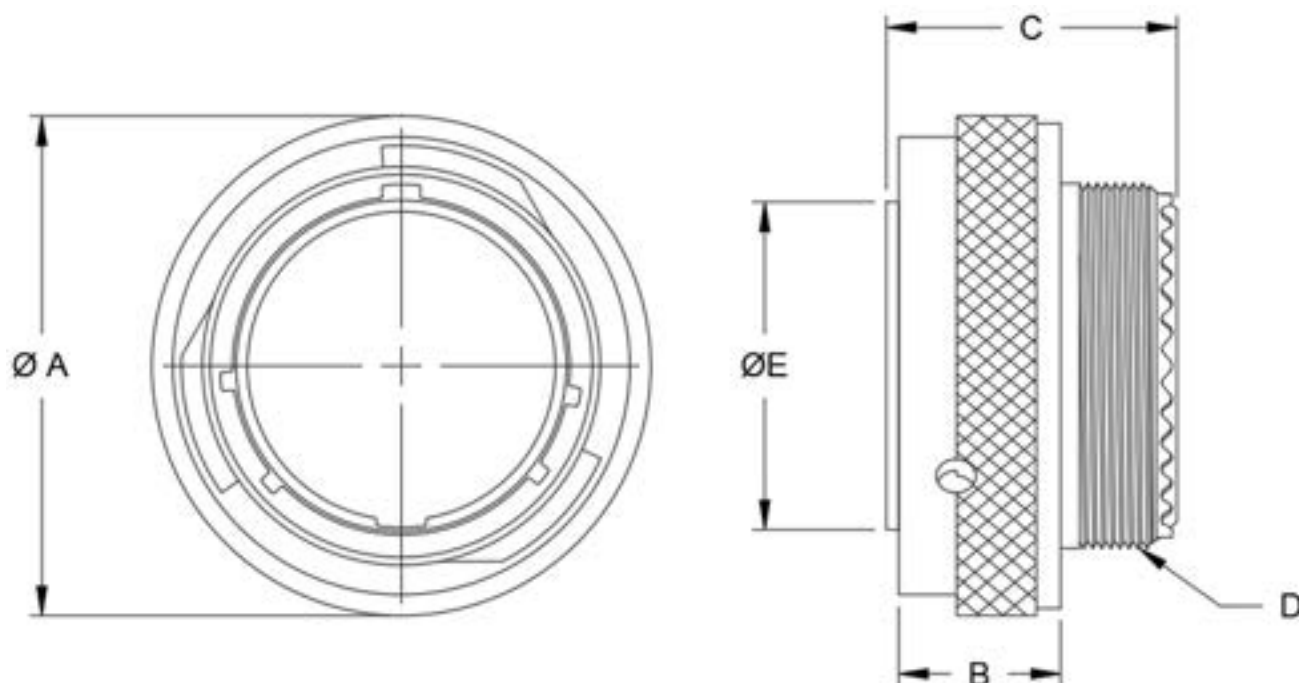
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MS27484

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

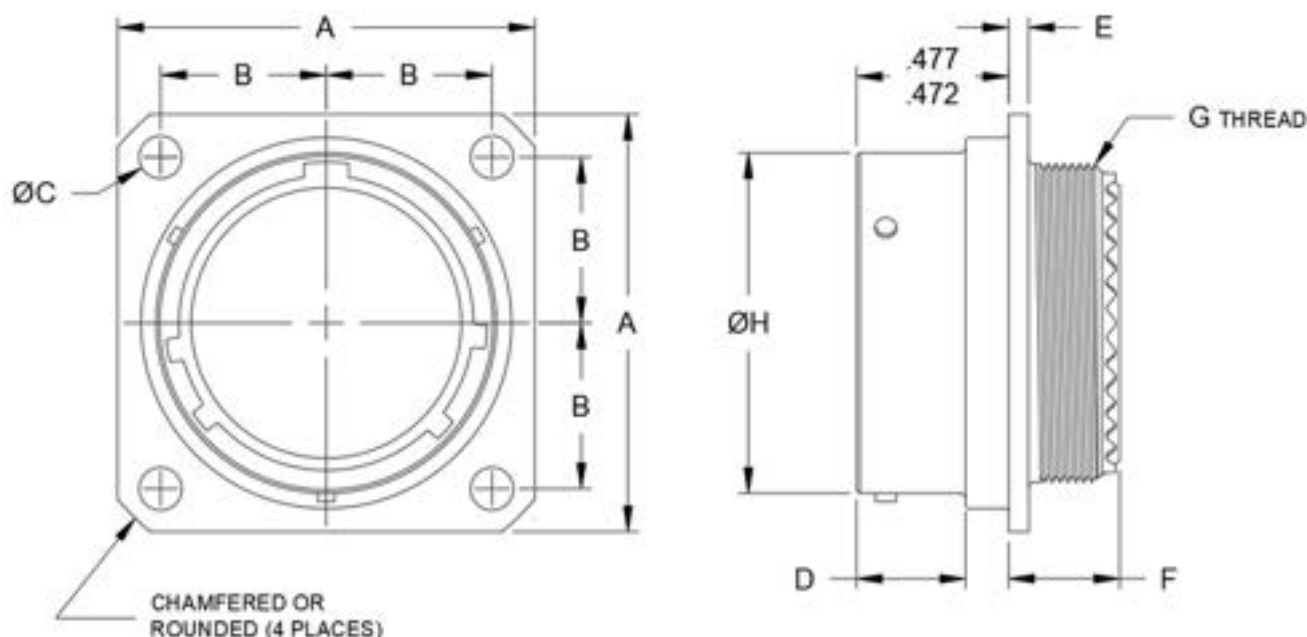
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MS27497

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

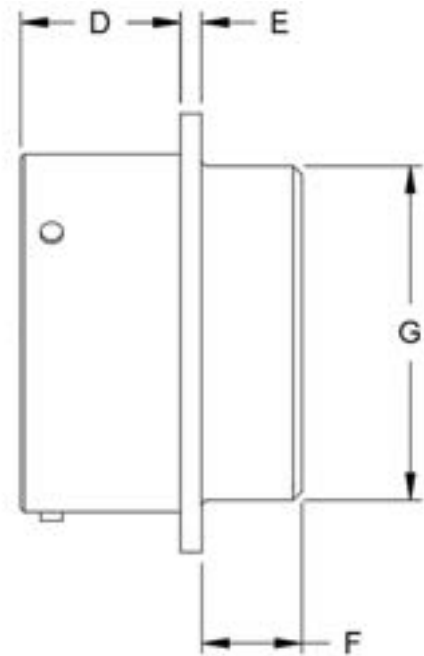
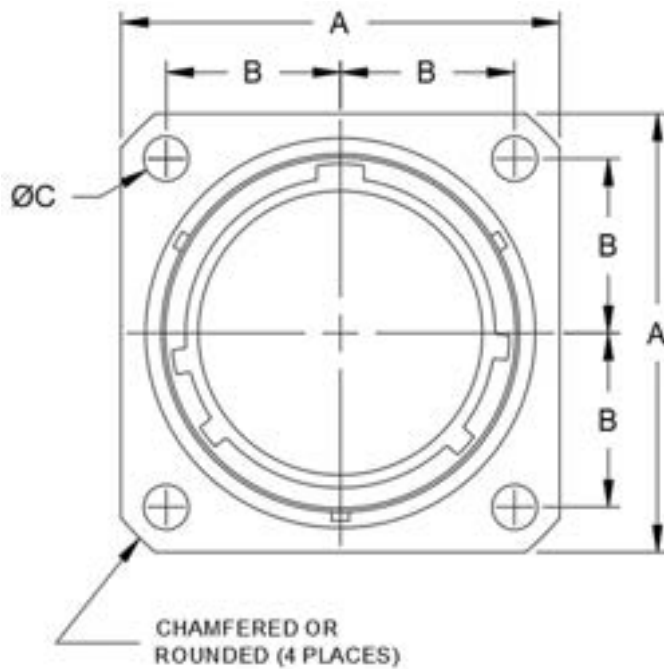
E-Mail: sales@corsairelectricalconnectors.com

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

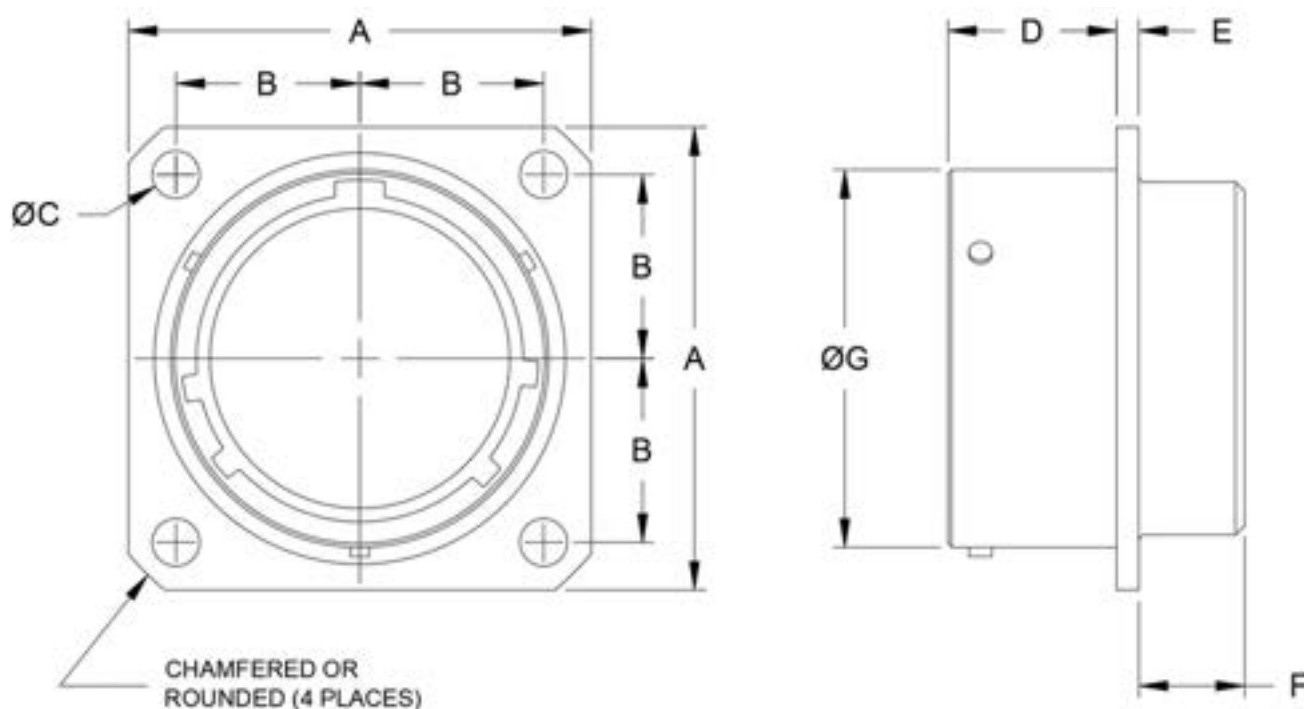
E-Mail: sales@corsairelectricalconnectors.com

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

CAGE Code: 1R6R9

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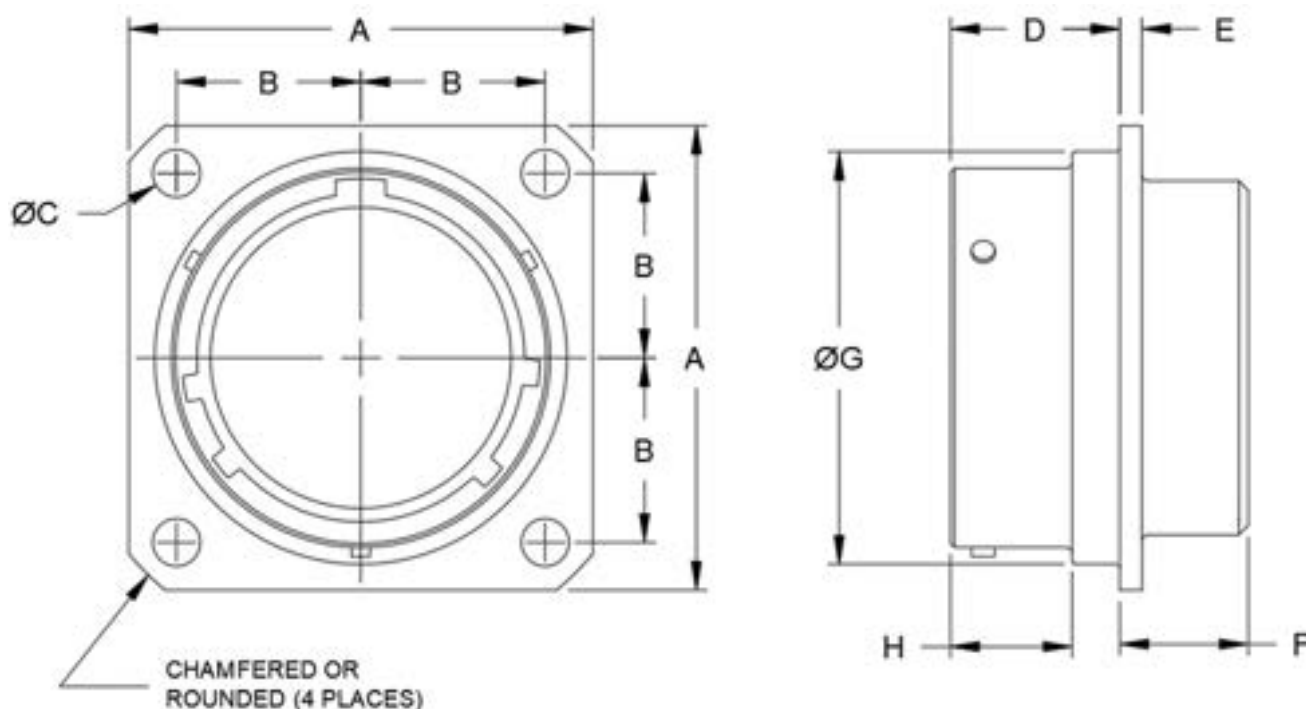
www.corsairelectricalconnectors.com 17100 Murphy Ave Irvine, CA 92614 (949)-833-0273

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

E-Mail: sales@corsairelectricalconnectors.com

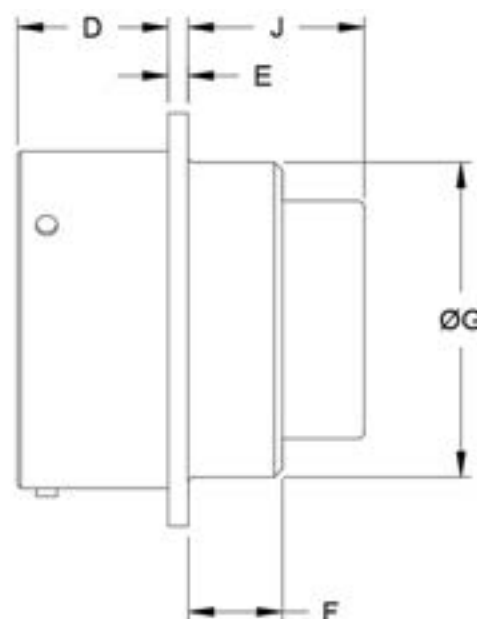
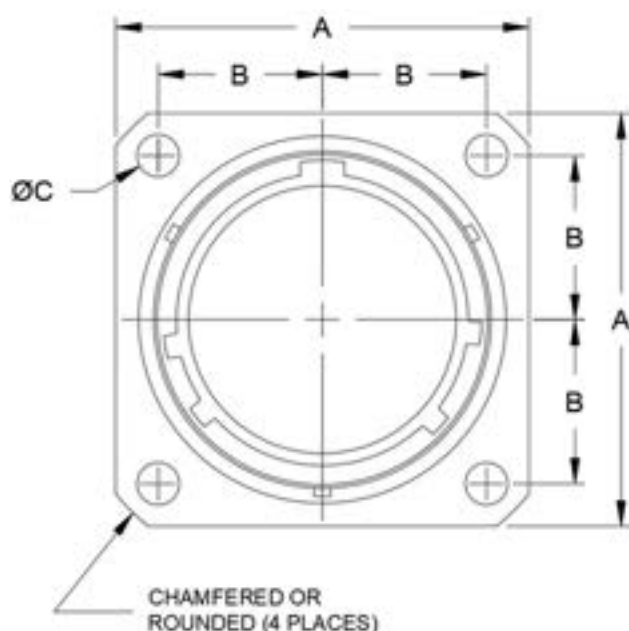
www.corsairelectricalconnectors.com 17100 Murphy Ave Irvine, CA 92614 (949)-833-0273

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

E-Mail: sales@corsairelectricalconnectors.com

www.corsairelectricalconnectors.com 17100 Murphy Ave Irvine, CA 92614 (949)-833-0273

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)
W, X, Y, OR Z ALTERNATE POSITIONS, REFER TO POLARIZATION CHART

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

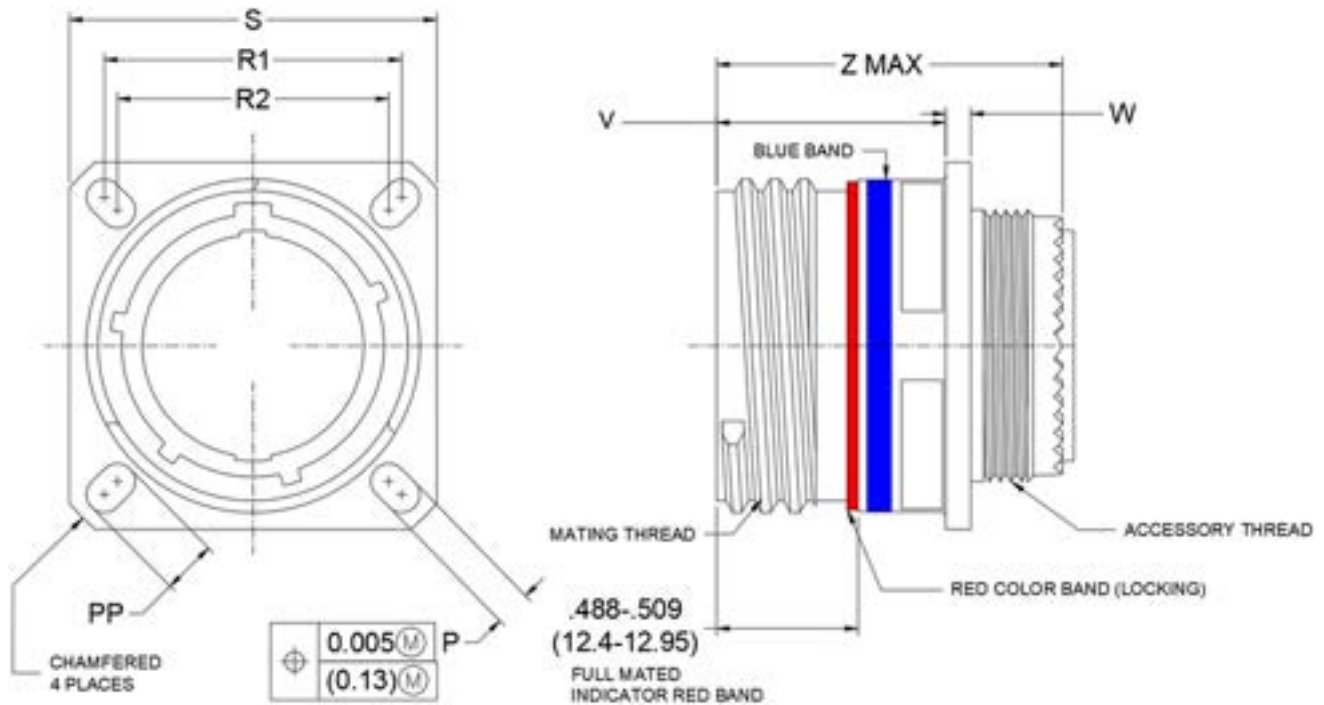
ADD "T" FOR SN62 SOLDER DIP

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

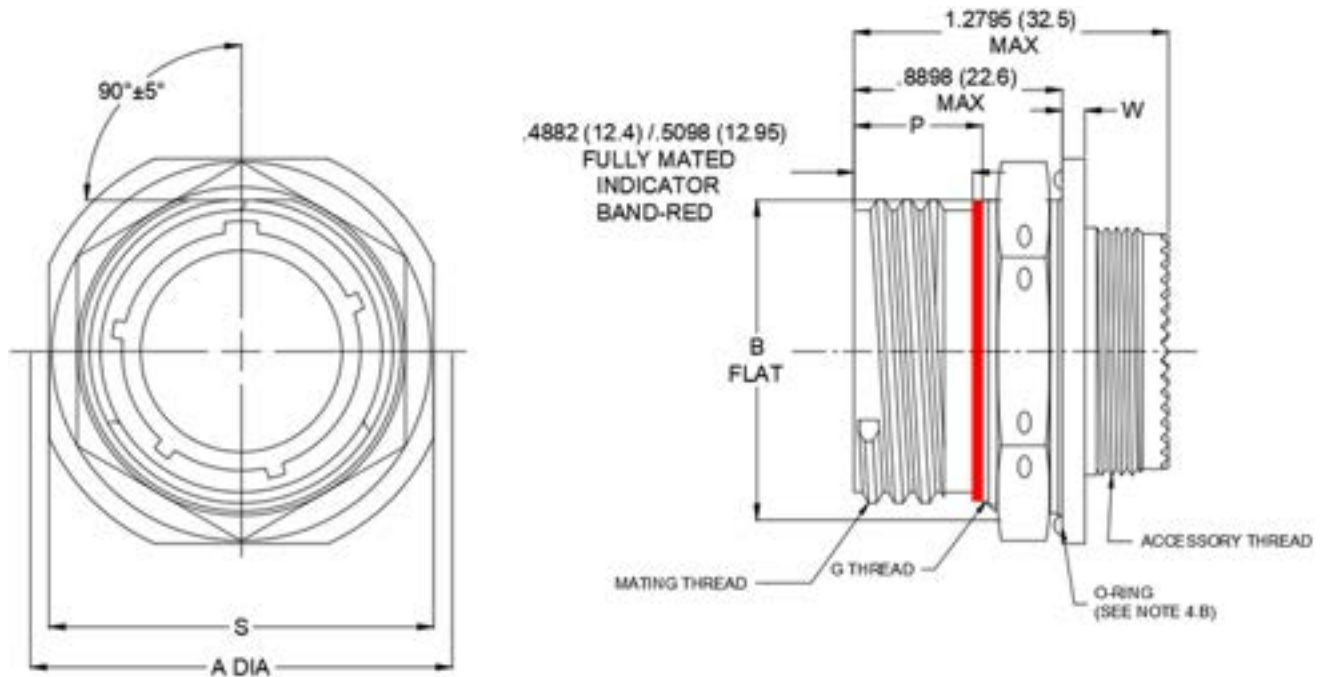
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D38999/24

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

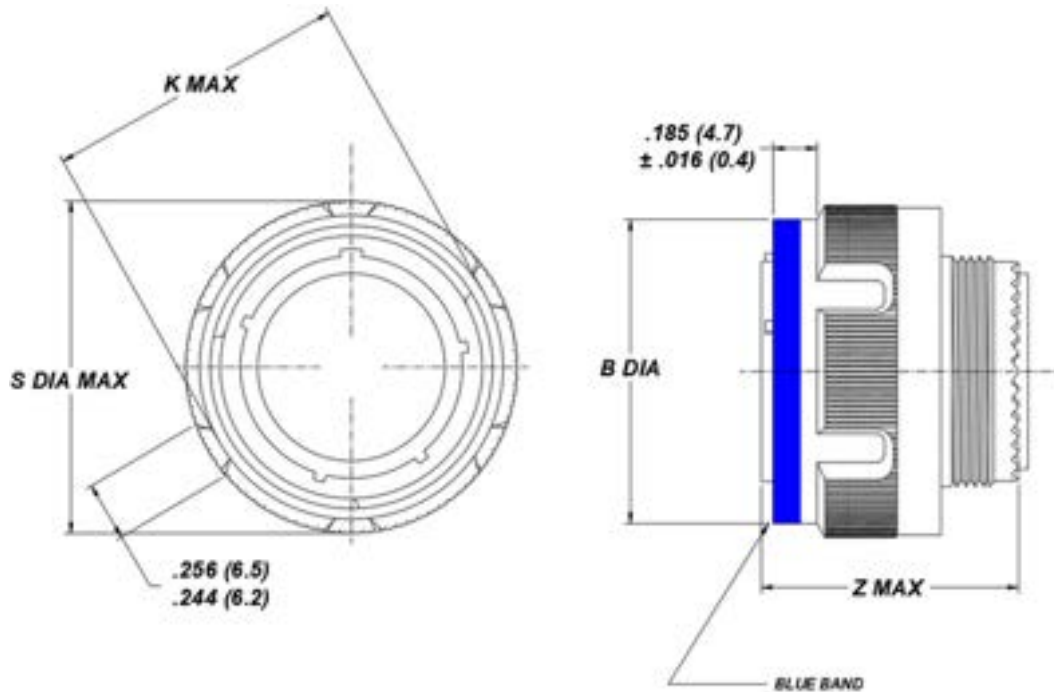
E-Mail: sales@corsairelectricalconnectors.com

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

E-Mail: sales@corsairelectricalconnectors.com

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				

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	
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							
	N/A	18-96	N/A	I	9						9			
20 & 21	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				
	21-41	20-41	G-41	I	41				41					
	21-75	N/A	G-75	TWINAX	4								4	
22 & 23	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

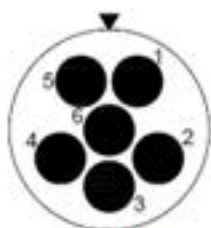
Shell Size	Insert Arrangement					Contact Size								Notes
	Series I	Series II	Series III	Service Rating	Total # of Contacts	22D	22M	22	20	16	12	10	8	
24 & 25	25-1	24-1	J-1	M	128		128							
	25-2	24-2	J-2	M	100			100						
	25-4	24-4	J-4	I	56				48	8				
	25-7	N/A	J-7	M	99	97							2	① ②
	25-8	N/A	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.

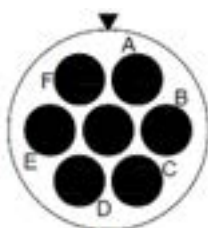
MIL-DTL-D38999

INSERT ARRANGEMENTS

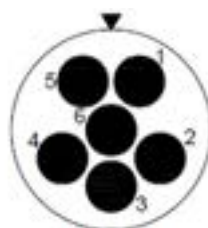
SERIES I,II,III



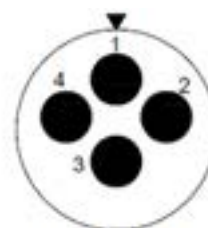
9-6 / 8-6
A6,
6 #22M, M



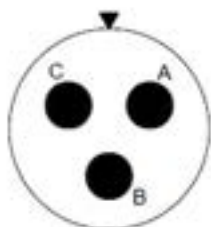
9-7
A7,
7 #22D, M



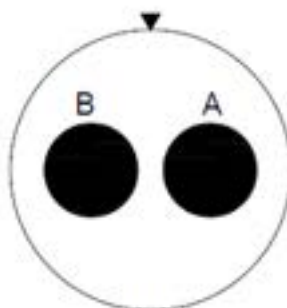
9-35 / 8-35
A35,
6 #22D, M



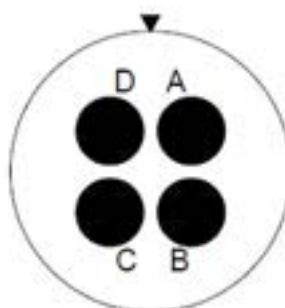
9-44 / 8-44
A44,
4 #22, M



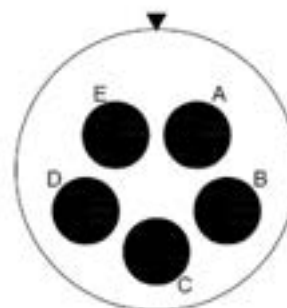
9-98 / 8-98
A98,
3 #20, I



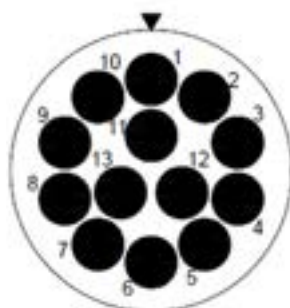
11-2
B2,
2 #16, I



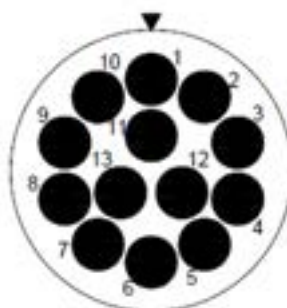
11-4
B4,
4 #20, I



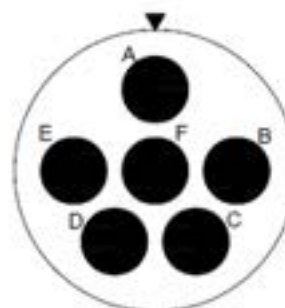
11-5/10-5
B4,
5 #20, I



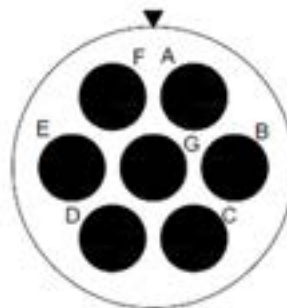
11-13/10-13
B13,
13 #22M, M



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



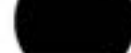
SIZE 20



SIZE 16



SIZE 12

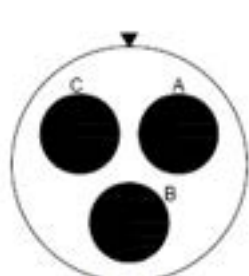


SIZE 8

MIL-DTL-D38999

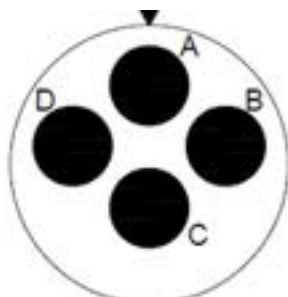
INSERT ARRANGEMENTS

SERIES I,II,III

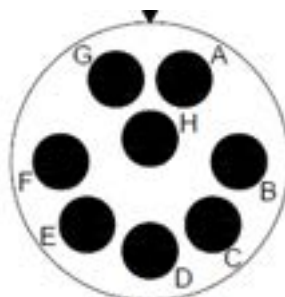


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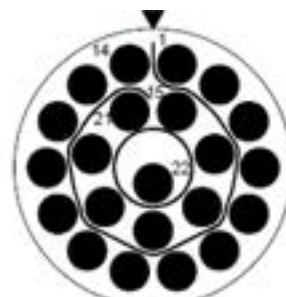
3 #16, II



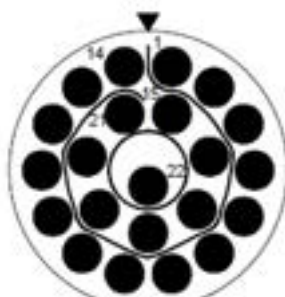
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C4,
4 #16, I



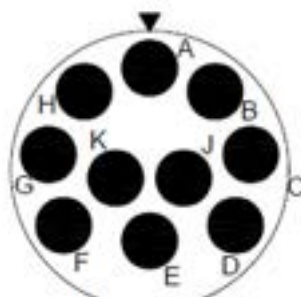
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C8,
4 #20, I



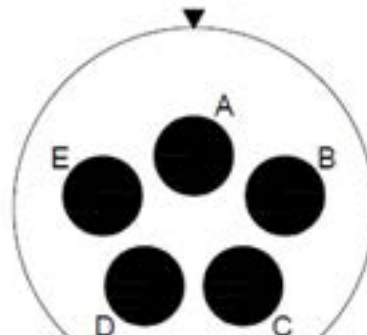
13-22/12-22
C22,
22 #22M, M



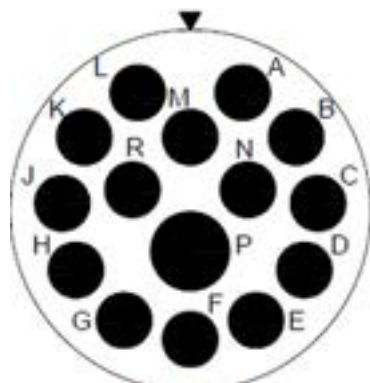
13-35/12-35
C35,
22 #22D, M



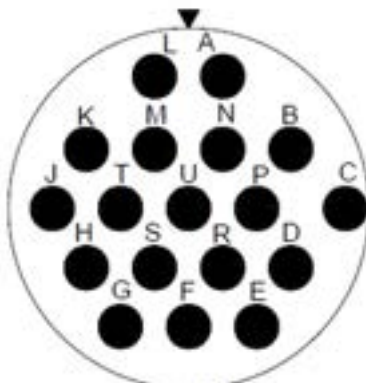
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C98,
10 #20, I



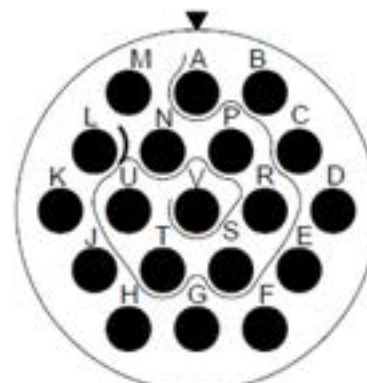
15-5/14-5
D5,
5 #16, II



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

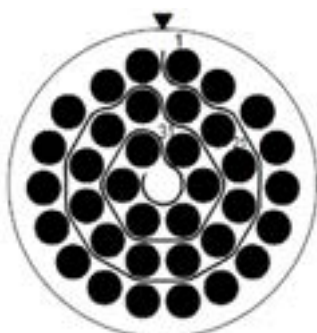


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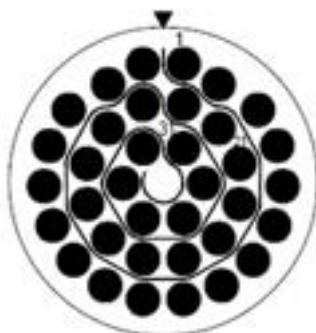
MIL-DTL-D38999

INSERT ARRANGEMENTS

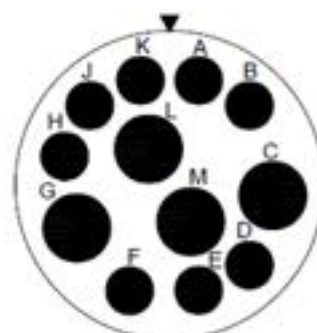
SERIES I,II,III



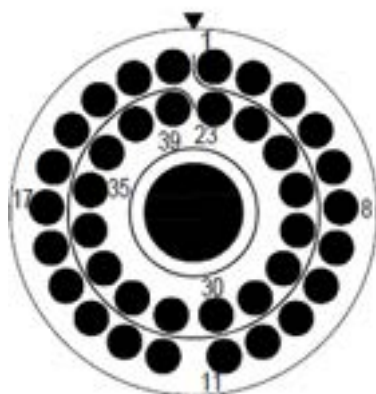
15-35/14-35
D35,
37 #22D, M



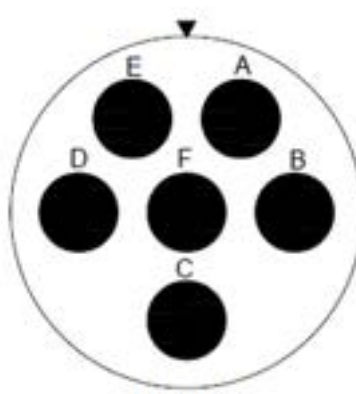
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D37,
37 #22M, M



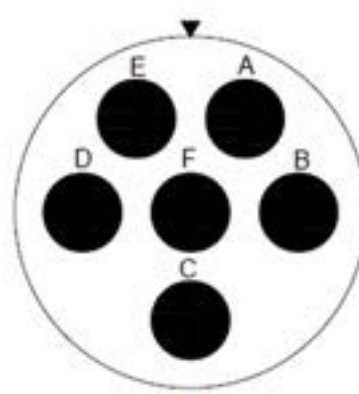
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D97,
4 #16, 8 #20, I



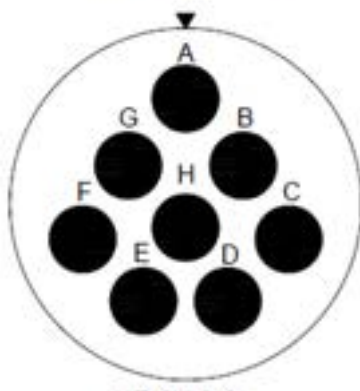
17-2
E2,
38 #22D, I 1 #8 TWINAX



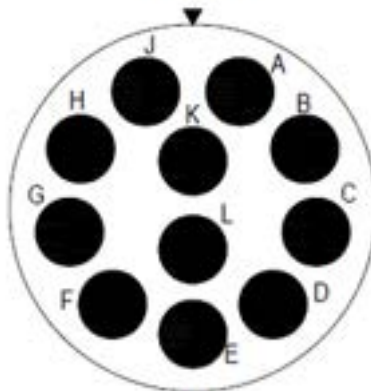
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E6,
6 #12, I



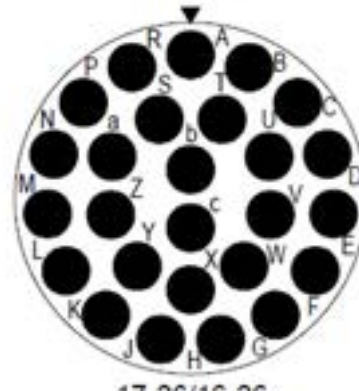
16-7
6 #12, II



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:



SIZE 22D



SIZE 20



SIZE 16



SIZE 12

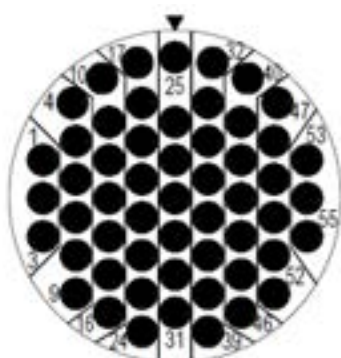


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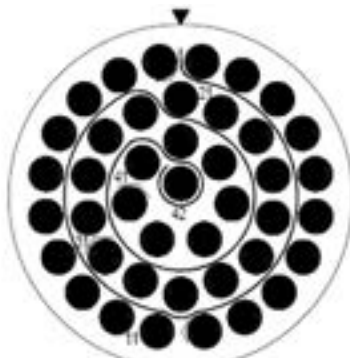
MIL-DTL-D38999

INSERT ARRANGEMENTS

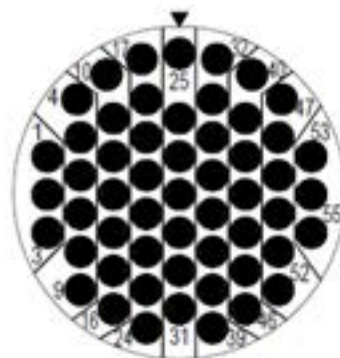
SERIES I,II,III



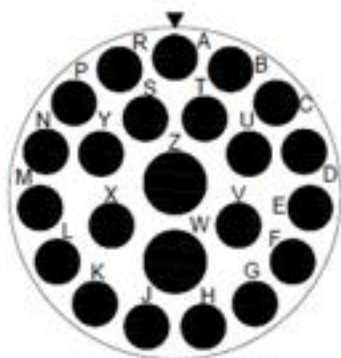
17-35/16-35
E35,
55 #22D, M



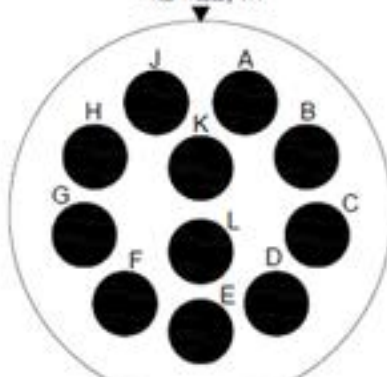
16-42
42 #22, M



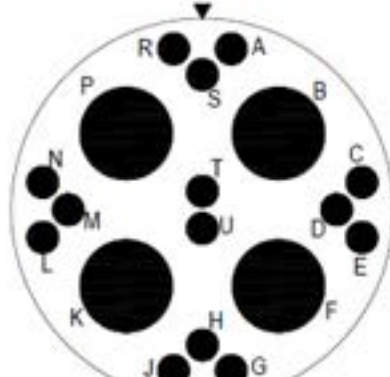
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E55,
55 #22M, M



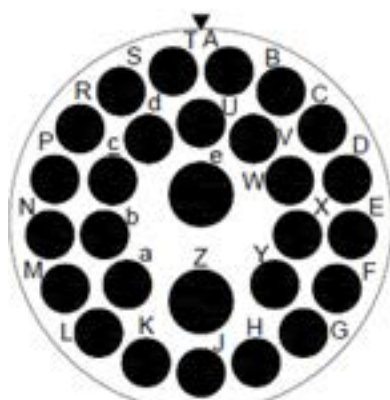
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E99,
2 #16, 21 #20, I



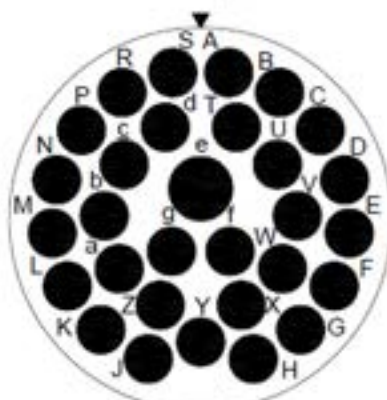
19-11/18-11
F11,
11 #16, II



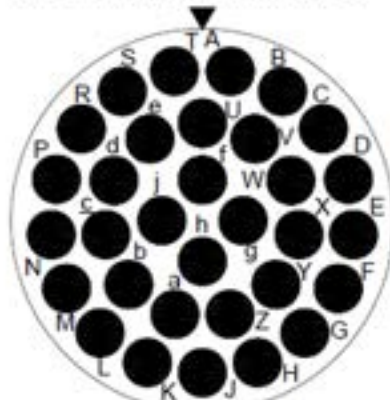
19-18
F18,
4 #8, TWINAX, 14, #22D M



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:



SIZE 22D



SIZE 20



SIZE 16



SIZE 12

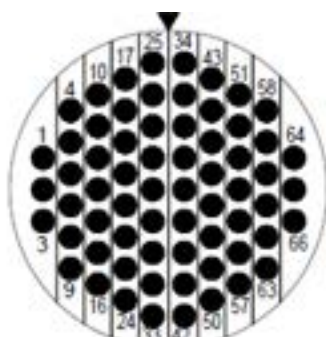


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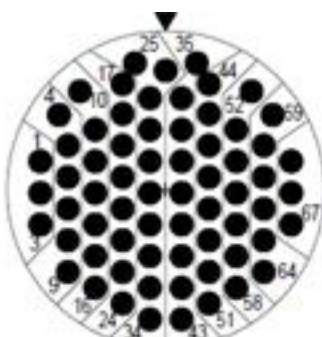
MIL-DTL-D38999

INSERT ARRANGEMENTS

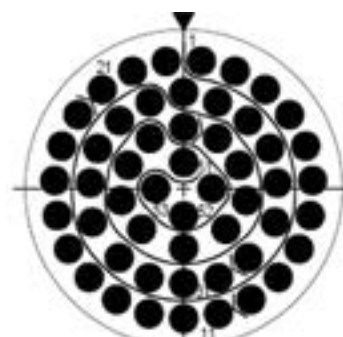
SERIES I,II,III



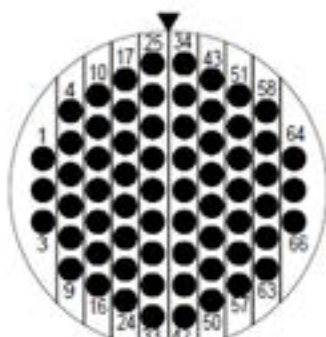
19-35/18-35
F35
66 #22D, M



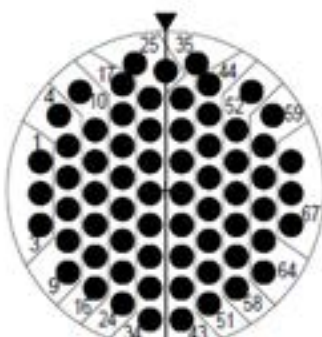
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F45
67 #22D, M



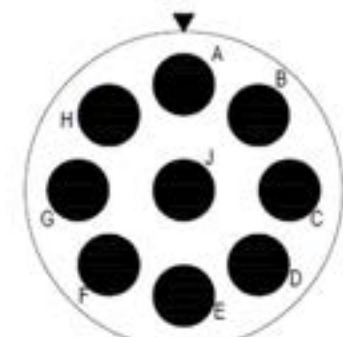
18-53
53 #22, M



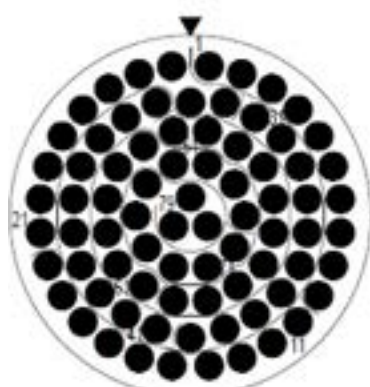
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F66
66 #22M, M



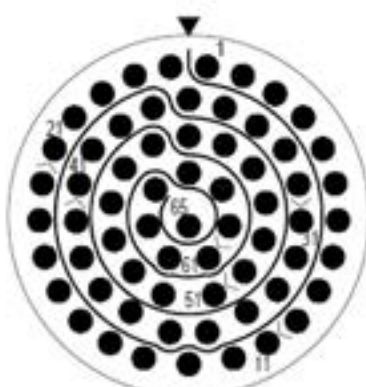
19-67/18-67
F67
67 #22M, M



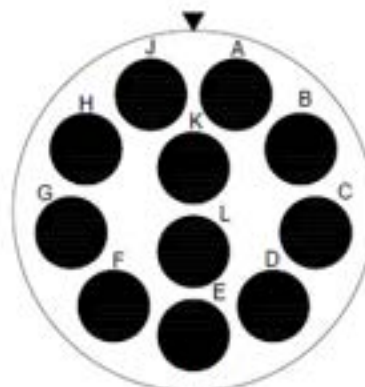
18-96
9 #12, I



21-1/20-1
G1
79 #22M, M



20-2
65 #22, M



21-11
G11
11 #12, I

CONTACT
SIZE LEGEND:



SIZE 22D



SIZE 20



SIZE 16



SIZE 12



SIZE 8

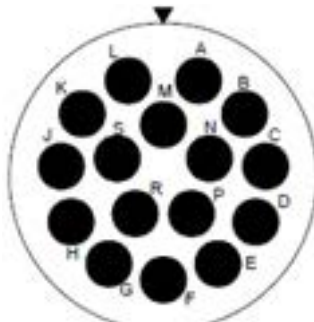
MIL-DTL-D38999

INSERT ARRANGEMENTS

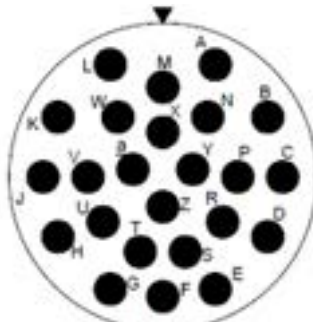
SERIES I,II,III



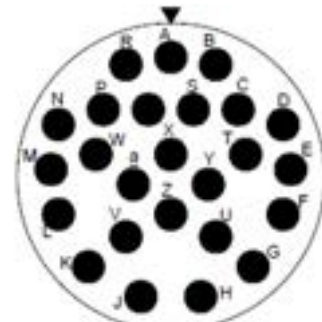
MIL-DTL-38999
INSERT ARRANGEMENTS



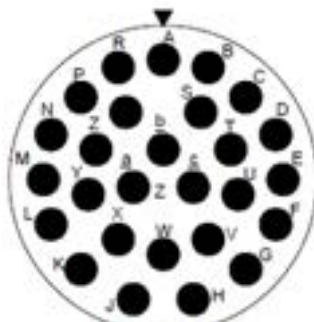
21-16/20-16
G16
16 #16, II



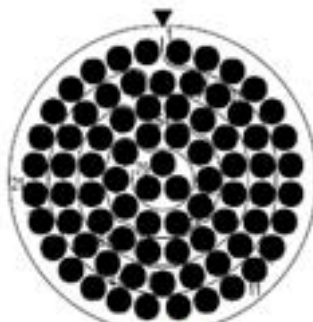
21-24/20-24
F24
24 #20, I



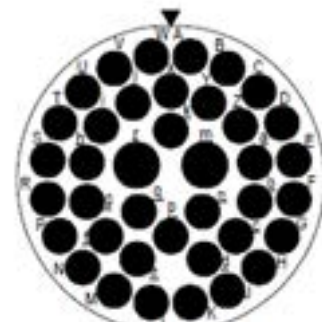
21-25/20-25
F25
25 #20, I



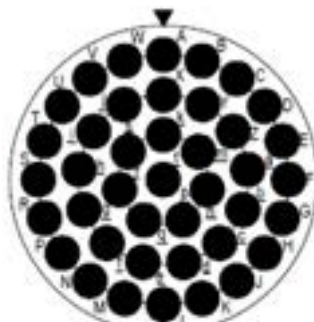
21-27/20-27
F27
27 #20, I



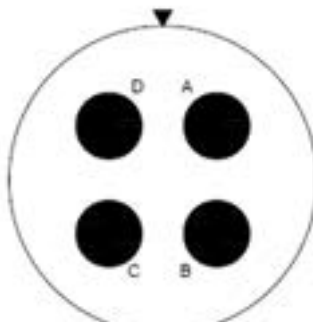
21-35/20-35
G35
79 #22D, M



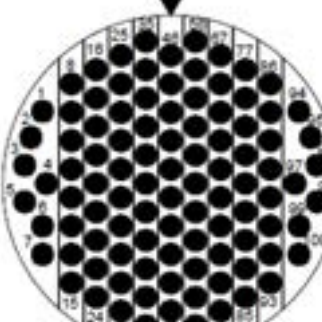
21-39/20-39
G39
2 #16, 37 #20, I



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

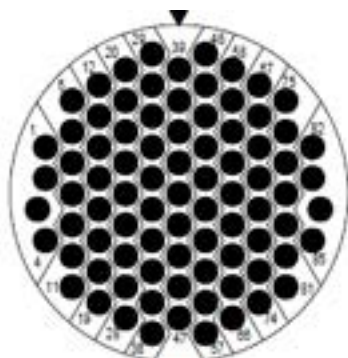
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SIZE 8

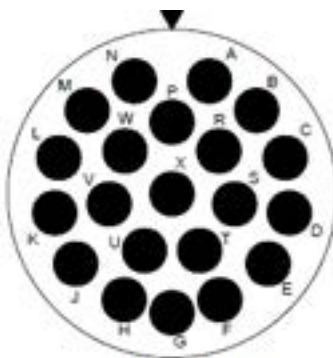
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INSERT ARRANGEMENTS

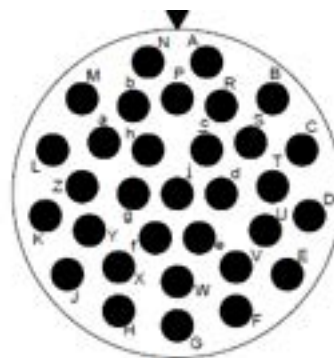
SERIES I,II,III



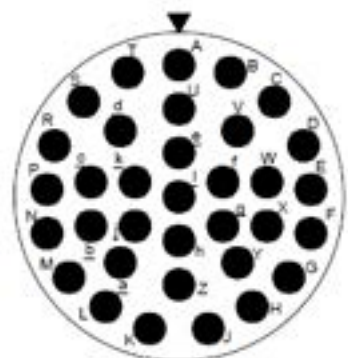
23-2/22-2
H2,
85 #22, M



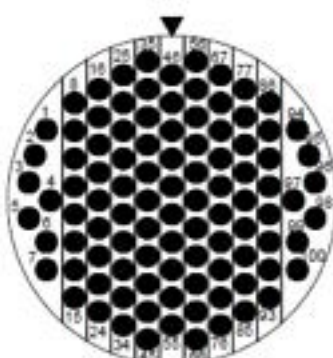
23-21/22-21
H21,
21 #16, II



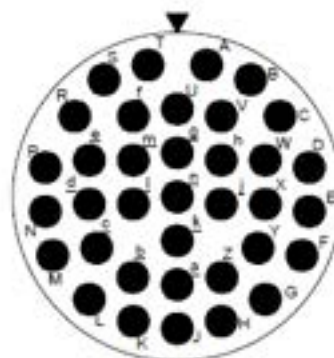
23-32/22-32
H32,
32 #20, I



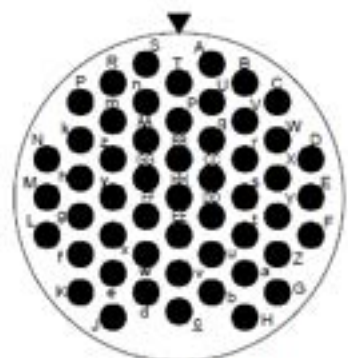
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H34,
34 #20, I



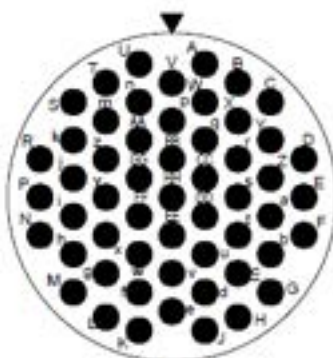
23-35/22-35
H35,
100 #22D, M



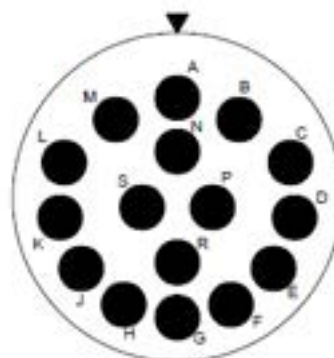
23-36/22-36
H36,
36 #20, I



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



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



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

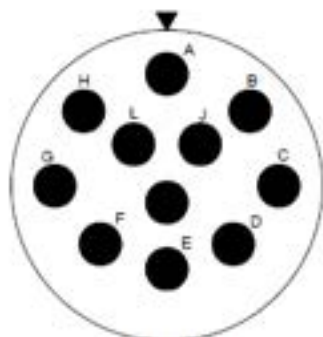
CONTACT
SIZE LEGEND:



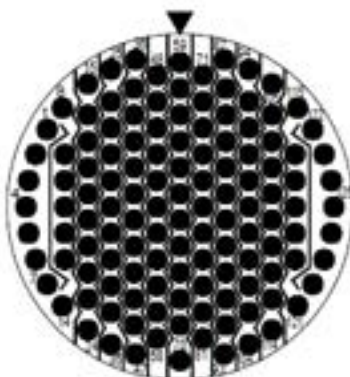
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INSERT ARRANGEMENTS

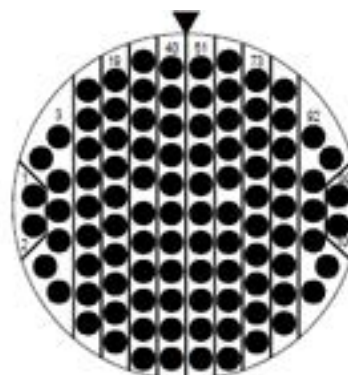
SERIES I,II,III



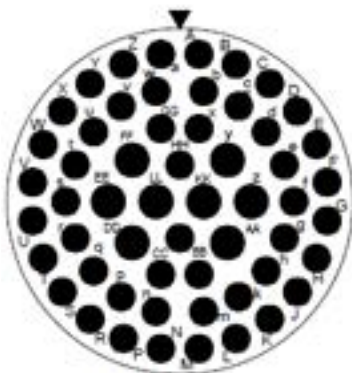
23-99/22-99
H99,
11 #16, II



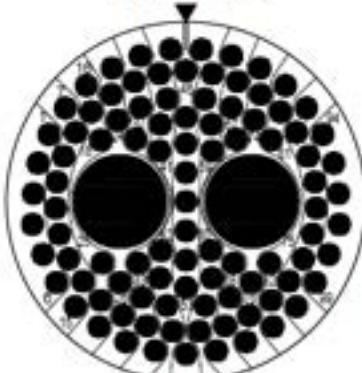
25-1/24-1
J1,
128, #22M, M



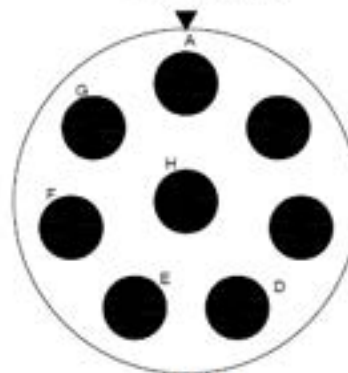
25-2/24-2
J2,
100, #22, M



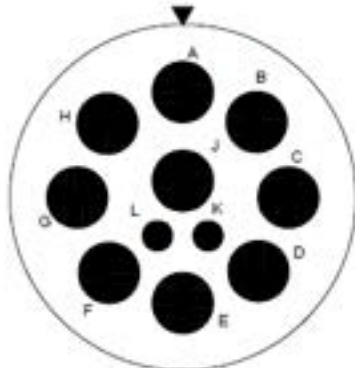
25-4/24-4
J4,
8 #16, 48 #20, I



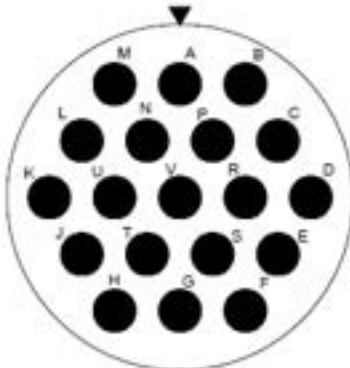
25-7
J7,
2 #8, 97 #22D, M



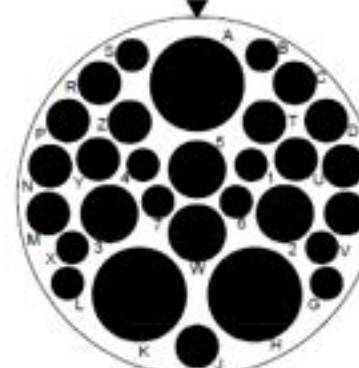
25-8
J8,
8 #12, I TWINAX



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

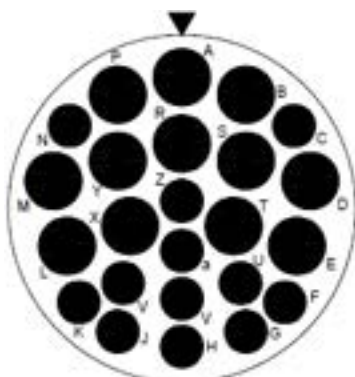
CONTACT
SIZE LEGEND:



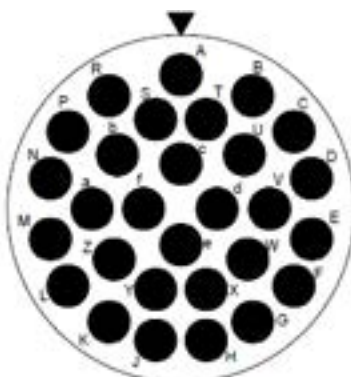
MIL-DTL-D38999

INSERT ARRANGEMENTS

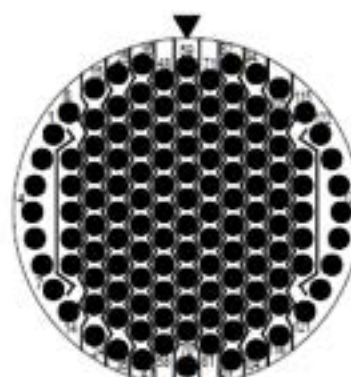
SERIES I,II,III



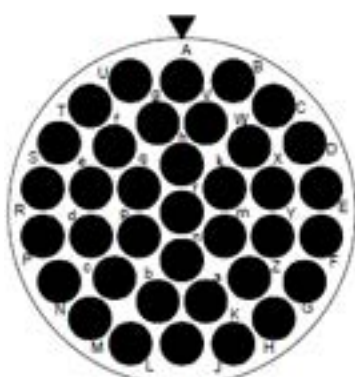
25-24/24-24
J24,
12 #12, 12 #16, I



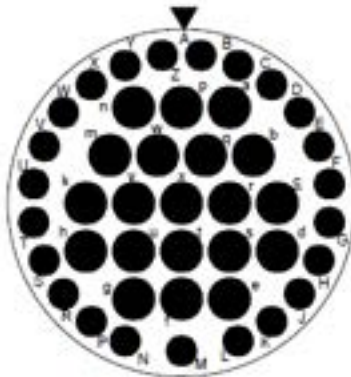
25-29/24-29
J29
29 #16, I



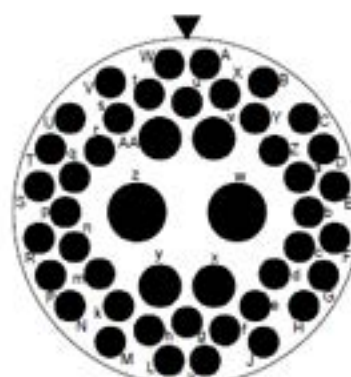
25-35/24-35
J35,
128, #22D, M



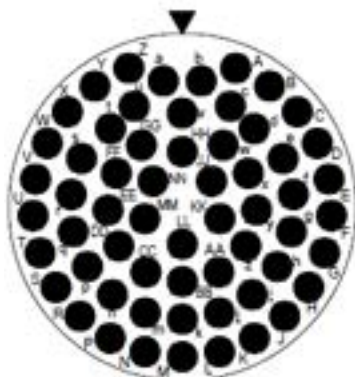
25-37
J37,
37, #16, I



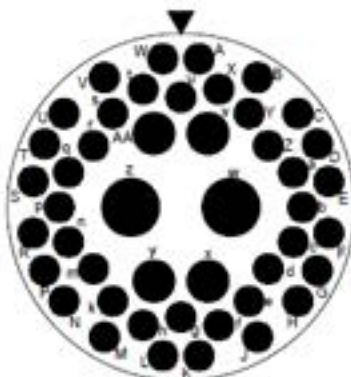
25-43
J43,
20 #16, 23 #20, I



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

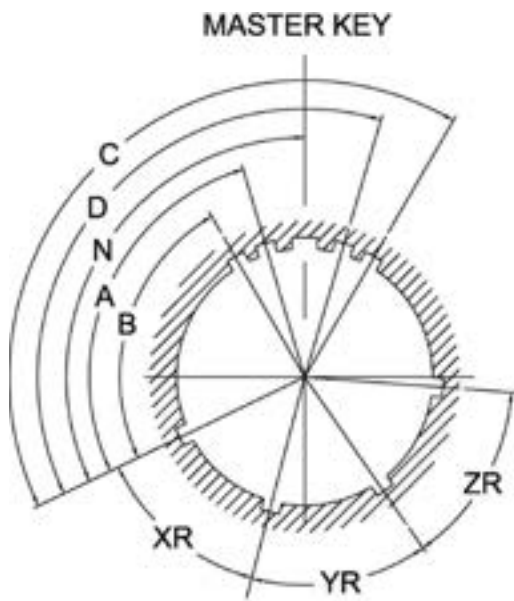
MIL-DTL-D38999

KEYWAY POLARIZATION

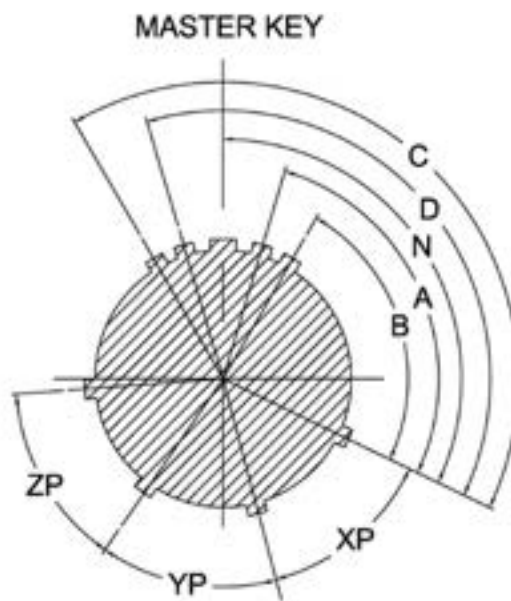
SERIES I & II



MIL-DTL-38999
KEYWAY POLARIZATION



RECEPTACLES



PLUGS

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°

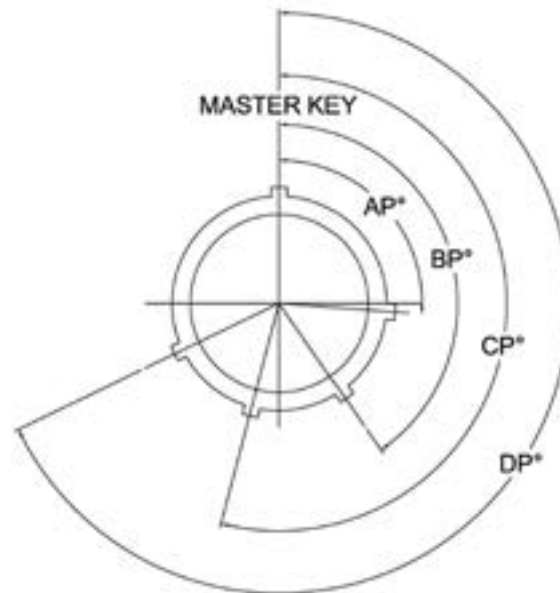
MIL-DTL-D38999

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