

Contact Arrangements (Face View Pin Insert)

LEGEND

● Not MS Approved. ITT Cannon Proprietary (see ITT Cannon designed alternative insert positions, page A-90)

⊕ High Volume Layouts - readily available from Cannon Distributors

Shell Size	8S-1	10S-2	10SL-4	10SL-3	10SLA4	12S-4	12-5	12S-3	12SA10	14-3	14S-9
No. of Contacts	1 #16	1 #16	2 #16	3 #16	5 #20	1 #16	1 #12	2 #16	4 #16	1 #8	2 #16
Service Rating	A	A	A	A	A	D	D	A	Inst.	A	A
Shell Size	14S-1	14S-7	14S-2	14S-5	14S-6	16-7	16-12	16-11	16S-4	16-13	16-12
No. of Contacts	3 #16	3 #16	4 #16	5 #16	6 #16	2 #16 (A, B) 1 #8 (C)	1 #4	2 #12	2 #16	2 #12	2 #12
Service Rating	A	A	Inst.	Inst.	Inst.	A	A	A	D	A	(A-Iron B-Constantan)
Shell Size	16S-5	16S-6	16-10	16-9	16S-8	16S-1	18-7	18-3	16S-5	16S-6	16-10
No. of Contacts	3 #16	3 #16	3 #12	2 #16 (B,D) 2 #12 (A,C)	5 #16	7 #16	1 #8	2 #12	3 #16	3 #16	3 #12
Service Rating	A	A	A	A	A	A	B	D	A	A	A
Shell Size	18-5	18-22	18-4	18-10	18-13	18-15	18-11	18-12	18-5	18-22	18-4
No. of Contacts	1 #16(A) 2 #12(B,C)	3 #16	4 #16	4 #12	3 #12 (B,C,C) 1 #8(A)	4 #12	5 #12	6 #16	1 #16(A) 2 #12(B,C)	3 #16	4 #16
Service Rating	D	D	D	A	A	A	A	A	D	D	D
Shell Size	18-9	18-8	18-1	18-19	20-2	20-23	20-3	20-19	18-9	18-8	18-1
No. of Contacts	5 #16(B,C,E-G) 2 #12(A,D)	7 #16(A-G) 1 #12(H)	10 #16	10 #16	1 #0	2 #8	3 #12	3 #8	5 #16(B,C,E-G) 2 #12(A,D)	7 #16(A-G) 1 #12(H)	10 #16
Service Rating	Inst.	A	A(B,C,F,G) Inst. (all others)	A	D	A	D	A	Inst.	A	A(B,C,F,G) Inst. (all others)
Shell Size	20-4	20-24	20A-9	20A-37	20A-48	20-14	20-8	20-17	20-22	20-15	20-4
No. of Contacts	4 #12	2 #16 (A,C) 2 #8 (B,D)	9 #12 D (J)	ITT Cannon pos. #8 of 20-4	19 #16	3 #12(C,D,E) 2 #8(A,B)	4 #16(B,C,E,F) 2 #8(A,D)	1 #16(F) 5 #12(A-E)	3 #16(B,D,F) 3 #8(A,C,E)	7 #12	4 #12
Service Rating	D	A	A (all others)	D	Inst.	A	Inst.	A	A	A	D

Dimensions shown in inches (mm)  
Specifications and dimensions subject to change

www.ittcannon.com

# MS-E/F/R/ER MIL-C-5015 Connectors



A

Circular

## Contact Arrangements (continued)

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Shell Size	20-7	20-16	20-18	20-33	20-11	20-27	20-29	22-7
No. of Contacts	8 #16	7 #16(A-G) 2 #12(H,I)	6 #16(A,C-E,G,H) 3 #12(B,F,I)	11 #16	13 #16	14 #16	17 #16	1 #0
Service Rating	A(C-F) D(A,B,G,H)	A	A	A	Inst	A	A	E
Shell Size	22-11	22-2	22-6	22-9	22-4	22-10	22-22	22-12
No. of Contacts	2 #16	3 #8	1 #12(B) 2 #8(A,C)	3 #12	2 #12(A,C) 2 #8(B,D)	4 #16	4 #8	3 #16(A,C,D) 2 #8(B,E)
Service Rating	B	D	D	E	A	E	A	D
Shell Size	22-13	22-5	22-15	22-28	22-18	22-23	22-17	22-20
No. of Contacts	1 #16(E) 4 #12(A-D)	4 #16(A,C,D,F) 2 #12(B,E)	1 #16(D) 5 #12(A-C,E,F)	7 #12	8 #16	8 #12	8 #16(A-D,F-J) 1 #12(E)	9 #16
Service Rating	A(A-D), D(E)	D	A(A-C,E,F), E(D)	A	A(C-E) D(all others)	D(H) A(all others)	D(A), A(all others)	A
Shell Size	22-27	22-19	22-14	24-9	24-22	24-12	24-2	24-10
No. of Contacts	8 #16(A-H) 1 #8(J)	14 #16	19 #16	2 #4	4 #8	3 #12(B,D,E) 2 #4(A,C)	7 #12	7 #8
Service Rating	D(J), A (all others)	A	A	A	D	A	D	A
Shell Size	24-27	24-6	24-11	24-20	24-19	24A24	24-5	24-7
No. of Contacts	7 #16	8 #12	6 #12(A-C,G-I) 3 #8(D-F)	9 #16(A-D,G-L) 2 #12(E,F)	12 #16	12 #12	16 #16	14 #16(A-M,O) 2 #12(P,N)
Service Rating	E	D(A,G,H) A(all others)	A	D	A	A	A	A



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Contact Arrangements (continued)

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Shell Size	24-28	28-7	28-22	28-10	28-1	28A-16	28A-63	28-19
No. of Contacts	24 #16	2 #4	3 #16(D-F) 3 #4(A-C)	3 #12(A,F,G) 2 #8(B,E) 2 #4(C,D)	6 #12(A,B,D-F,H) 3 #8(C,J,G)	5 #16(A, D-F, J) 4 #4(B, C, G, H)	9 #12 19 #16	6 #16(A-C,H,L,M) 4 #12(E,G,J,K)
Service Rating	Inst.	D	D	D(G), A(all others)	D(A,E,J) A(all others)	A (e) Inst. (all others)	A (e) Inst. (all others)	A(C,E,G,J,K,L) B(H,M),D(A,B)

Shell Size	28-9	28-2	28-20	28-17	28-16	28-11	28-12
No. of Contacts	6 #16(A,H-M) 6 #12(B-G)	12 #16(A,L,N) 2 #12(MP)	4 #16(K-N) 10 #12(A-J,P)	15 #16	20 #16	18 #16(A-I, N-X) 4 #12(J-M)	26 #16
Service Rating	D	D	A	A(A-L), B(R) D(MP)	A	A	A

Shell Size	28-15	28-21	28A51	32-17	32-1	32A-69	32-15	32-9
No. of Contacts	35 #16	37 #16	43 #16	4 #4	3 #12(A,C,D) 2 #8(B,E)	41 #20 20 #16	2 #8(A,G) 6 #12(B,C,D,E,F,H)	12 #16(C-N) 2 #4(A,B)
Service Rating	A For ML equip design, use 28-21	A	A	D	E(A),D(all others)	Inst.	D	D

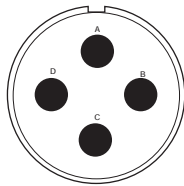
Shell Size	32-5	32-6	32-8	32-7	32A47	32A10	36-4
No. of Contacts	2 #8	16 #16(A-O,S) 2 #12(U,V) 3 #8(P,R,T) 2 #4(W,X)	24 #16(A-L,T-Z,a-e) 6 #12(MS) 2 #8(O,R)	28 #16(A-N,W-Z,a-k) 7 #12(O-V)	47 #16	54 #16	3 #8
Service Rating	D	A	A For new ML equip. design, use 32-7	Inst. (A,B,hj) A(all others)	A	A	A(B,C),C(A)

\*NOTE: Additional layouts are the same as shown but in unique alternate positions. Please consult the factory.

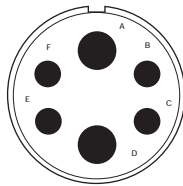
Contact Arrangements (continued)

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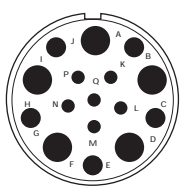
Ⓒ High Volume Layouts - readily available from Cannon Distributors



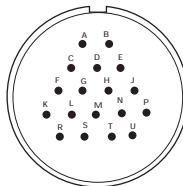
36-5  
4 #0



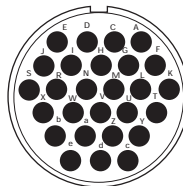
36-6  
4 #4(B,C,E,F)  
2 #0(A,D)



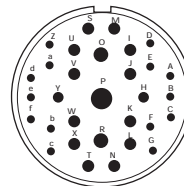
36-14  
6 #16(K-N,P,Q)  
5 #12(B,D,F,H,J)  
5 #8(A,C,E,G,I)



36A16  
18 #12  
(B,C,V,J,K,MN,  
R, T-Iron; A,D-F,H,L  
P,S,U-Constantan)



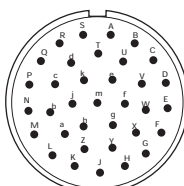
36A46  
27 #12



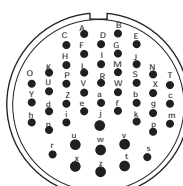
36-9  
14 #16(A-G,Z-f)  
14 #12(H-N,S-Y)  
2 #8(O,R)  
1 #4(P)

Shell Size  
No. of Contacts

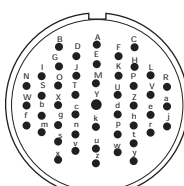
Service Rating



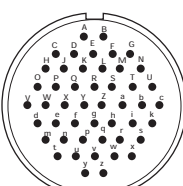
36-15  
35 #16



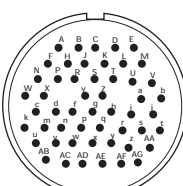
36-7  
40 #16(A-Z,a-s)  
7 #12(t-z)



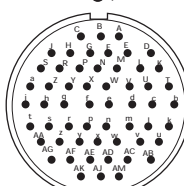
36-8  
46 #16(A-X,Z-z)  
1 #12(Y)



36-10  
48 #16



36A34  
52 #16

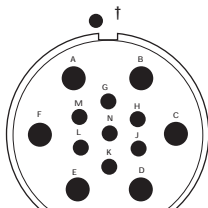


36A66  
52 #16(A-c,h-AK)  
4 #12(d,e,f,g)

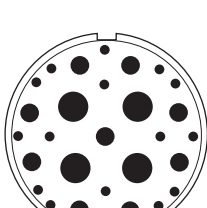
Shell Size  
No. of Contacts

Service Rating

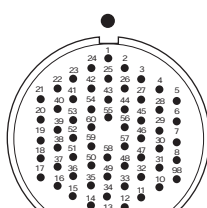
D(m), A (all others)



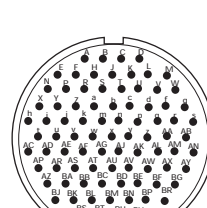
40A33  
7 #8(G-N)  
6 #4(A-F)



40-10  
16 #16(A,B,E-H,MN,P  
Q,V-Y,b,c)  
9 #8(C,D,I,L,O,R,U,Z,a)  
4 #4(K,J,S,T)



40A27  
60 #16



40-56  
85 #16

Shell Size  
No. of Contacts

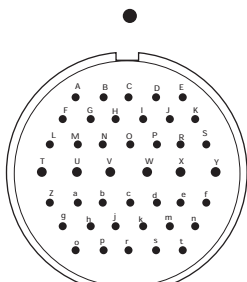
Service Rating

A

A

A

A

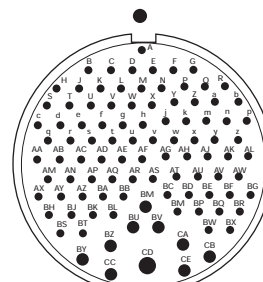


44-1  
36 #16(A-S,Z-t)  
6 #12(T-Y)

Shell Size  
No. of Contacts

Service Rating

D



48-5  
90 #16(A-BL,BN-BT,BW,BX)  
1 #8(CD)  
9 #12(BMBU,BV,BY-CC,CE)

Shell Size  
No. of Contacts

Service Rating

A