

MIL-DTL-22992, QWLD

insert arrangements

Insert Arrangement		Contact Size						
MS Approved	Industrial	Service Rating	Total Contacts	0	4	8	12	16
12-5		D	1			1		
	12-48	A	3				3	
	12-49	A	2				2	
14-3		A	1		1			
	14-53	Inst.	6				6	
16-2		E	1			1		
16-7		A	3		1		2	
16-9		A	4			2	2	
16-10		A	3			3		
16-11		A	2			2		
16-12		A	1	1				
16-13		A	2			2		
	16-61	A	7			7		
18-1		B, C, F, G = A; Bal. = Inst.	10				10	
	18-3	D	2			2		
18-4		D	4				4	
18-5		D	3			2	1	
18-6		D	1	1				
18-7		B	1		1			
18-8		A	8			1	7	
18-9		Inst.	7			2	5	
	18-10	A	4			4		
18-11		A	5			5		
	18-12	A	6				6	
18-13		A	4		1	3		
18-14		A	2	1			1	
18-15		A	4			4		
18-16		C	1			1		
	18-17	Inst.	7			2	5	
18-19		A	10				10	
18-20		A	5				5	
	18-22	D	3				3	
18-24		B, C, F, G = A; Bal. = Inst.	10				10	
18-29		A	5				5	
18-30		A	5				5	
18-31		A	5				5	
20-2		D	1	1				
	20-3	D	3			3		
20-4		D	4			4		
	20-6	D	3				3	
20-7		A, B, H, G = D; C, D, E, F = A	8				8	
20-8		Inst.	6		2		4	

Insert Arrangement		Contact Size						
MS Approved	Industrial	Service Rating	Total Contacts	0	4	8	12	16
20-9		H = D; Bal. = A	8				1	7
	20-11	Inst.	13					13
	20-12	A	2		1			1
20-14		A	5			2	3	
20-15		A	7				7	
20-16		A	9			2	7	
20-17		A	6			5	1	
20-18		A	9			3	6	
	20-19	A	3			3		
	20-20	A	4		1		3	
20-21		A	9				1	8
20-22		A	6			3		3
	20-23	A	2			2		
20-24		A	4			2		2
	20-25	Inst.	13					13
20-27		A	14					14
20-29		A	17			2	17	
	20-30	Inst.	13					13
20-33		A	11					11
	22-1	D	2			2		
22-2		D	3			3		
	22-4	A	4			2	2	
22-5		D	6				2	4
	22-6	D	3			2		1
22-7		E	1	1				
	22-8	E	2				2	
22-9		E	3				3	
22-10		E	4					4
22-11		B	2					2
	22-12	D	5			2		3
	22-13	E = D; A, B, C, D = A	5				4	1
22-14		A	19					19
	22-15	D = E; A, B, C, E, F = A	6				5	1
	22-16	A	9				3	6
22-17		A = D; Bal. = A	9				1	8
	22-18	A, B, F, G, H = D; C, D, E = A	8					8
22-19		A	14					14
	22-20	A	9					9
22-21		A	3	1				2
	22-22	A	4			4		
22-23		H = D; Bal. = A	8				8	
	22-24	C, D, E = D; A, B, F = A	6				2	4

MIL-DTL-22992, QWLD

insert arrangements

Insert Arrangement		Service Rating	Total Contacts	Contact Size				
MS Approved	Industrial			0	4	8	12	16
22-7		J = D; Bal. = A	9		1		8	
	22-28	A	7			7		
	22-33	A, B, C, D = D; E, F, G = A	7				7	
	22-34	D	5			3	2	
22-36		H = D; Bal. = A	8			8		
24-2		D	7			7		
	24-3	D	7			2	5	
	24-5	A	16				16	
24-6		A, G, H = D; Bal. = A	8			8		
24-7		A	16			2	14	
	24-9	A	2	2				
24-10		A	7		7			
24-11		A	9		3	6		
24-12		A	5	2		3		
24-16		A, B, F, G = D; C, D, E = A	7		1	3	3	
	24-17	D	5			2	3	
24-20		D	11			2	9	
24-21		D	10		1		9	
24-22		D	4		4			
24-27		E	7				7	
24-28		Inst.	24				24	
28-1		A, J, E = D; Bal. = A	9		3	6		
28-2		D	14			2	12	
28-3		E	3		3			
28-4		G, P, S = E; Bal. = D	9			2	7	
28-5		D	5	2		1	2	
	28-6	D	3	3				
	28-7	D	2	2				
28-8		L, M = E; B = D; Bal. = A	12			2	10	
28-9		D	12			6	6	
28-10		G = D; Bal. = A	7	2	2	3		
28-11		A	22			4	18	
28-12		A	26				26	
	28-13	A	26				26	
28-15		A	35				35	
	28-16	A	20				20	
28-17		R = B; M, N, P = D; A to L = A	15				15	
28-18		M = C; G, H, J, K, L = D; A, B = H; Bal. = Inst.	12				12	
28-19		H, M = B; A, B = D; Bal. = A	10			4	6	
28-20		A	14			10	4	

Insert Arrangement		Service Rating	Total Contacts	Contact Size				
MS Approved	Industrial			0	4	8	12	16
28-21		A	37					37
28-22		D	6		3			3
32-1		A = E; Bal. = D	5	2			3	
32-2		E	5		3			2
32-3		D	9	1	2		2	4
	32-4	F, J, K, N = A; Bal. = D	14				2	12
	32-5	D	2	2				
32-6		A	23		2	3	2	16
32-7		A, B, H, J = Inst.; Bal. = A	35				7	28
	32-8	A	30				6	24
32-9		D	14		2			12
	32-10	A, F = E; G = B; B, E = D; C, D = A	7		2	2		3
	32-12	C, D, E, F, G = A; Bal. = D	15				5	10
32-13		D	23				5	18
32-15		D	8	2			6	
	32-16	A	23		2	3	2	16
32-17		D	4		4			
32-73		A	46					46
	36-1	D	22				4	18
36-3		D	6	3			3	
	36-4	A = D; B, C = A	3	3				
36-5		A	4	4				
36-6		A	6	2	4			
36-7		A	47				7	40
36-8		A	47				1	46
36-9		A	31	1	2	14	14	
36-10		A	48					48
	36-11	A	48					48
	36-12	A	48					48
	36-13	N, P, Q = E; Bal. = A	17				2	15
	36-14	D	16			5	5	6
36-15		M = D; Bal. = A	35					35
	36-16	A	47				7	40
	36-17	A	47				7	40
	36-18	A	31	1	2	14	14	
	36-20	A	34		2	2	30	
36-52		A	52					52
40-1		D	30				6	24
40-9		A	47			1	22	24
40-56		A	85					85
40-52		A	104					104

QWLD

special insert arrangements

Insert Arrangement	Service Rating	Total Contacts	Contact Size							
			0	4	8	12	16	Coax**		
16-59	A	4			4					
20-51	A	3			3					
20-57	A	7				7*				
20-58	A	10				5	5			
20-59	A	3			3*					
20-66	A	6				5*	1			
20-79	A/D	8				1	7			
22-63	A	12				4	8t			
22-65	A/D	8				8*				
22-70	A	13				8	5			
22-80	A	3			3*					
24-51	A	5			5					
24-52	Hi Volt.	1				1				
24-53	A	5			5					
24-58	A	13			3	3	7			
24-59	A	14				7	7			
24-60	A	7			7*					
24-65	A	15				11	4			
24-66	D	7				7				
24-67	Inst.	19				19				
24-71	A	7			7*					
24-75	A	7			7*					
24-79	A	5			5					
24-80	Inst.	23					23			
24-84	A	19				1			18	
28-51	A	12				12				
28-59	A	17				7	10			
28-66	A	16			2	14				
28-72	Coax	3						3		
28-74	A	16			7*		9			
28-75	A	16			7*		9			
28-79	A	16			7		9			
28-82	D	6			2	4				
28-84	A	9			9					
32-52	D	8	2			6				
32-53	Inst./E	42				5	37			
32-56	A	30				6*	24			
32-57	Coax	8				6	2			
32-58	Coax	4						4		
32-60	A	23					15		8	
32-62	Coax	23		2	1	2	16			2
32-64	Inst.	54					54			
32-68	A	16					12	4		
32-75	Coax	9				2			7	
32-76	A	19				19				
32-79	D	5		4	1					

Insert Arrangement	Service Rating	Total Contacts	Contact Size								
			0	4	8	12	16	Coax**			
36-51	D	4	2	2							
36-54	A	39			8			31			
36-55	A	39				8*		31			
36-59	A	53					3*	50			
36-60	A	47					7*	40			
36-64	Coax	4							4		
36-65	Coax	4							4		
36-71	A	53				3	50				
36-73	Coax	7							7		
36-74	A	44						43		1	
36-75	A	48						48*			
36-76	A	47						47			
36-77	D	7		7							
36-78	A	14				12		2			
36-79	A	20					20				
36-80	A	20					20*				
36-83	Coax	7							7		
36-85	A/D	35						35*			
40-53	A	60							60		
40-57	E	4	4								
40-61	A	59				1	3	55			
40-62	A	60						60			
40-63	A	61						61*			
40-64	Coax	36				3	20		13		
40-66	Coax	4						4			
40-67	A	11					1		10		
40-68	A	21				21					
40-70	A	61						61			
40-72	A	11						1	10		
40-73	A	61						61			
40-74	A	6					1	4	1		
40-75	E	5	4			1					
40-80	A	11		10				1			
40-81	A	62						62*			
40-82	A	62						62			
40-85	A	60						60*			
40-86	A	4						4			
40-87	E	7		7							
44-53	A	36						18		18	
48-51 [†]	A	56				10		42	4		
48-52 [†]	A	61						56	5		
48-53 [†]	D	37					37				
48-54 [†]	A	56				10		42	4		
48-55 [†]	A	78			6	2	2	68			
48-57 [†]	A	56		4		10		42			
48-60 [†]	A	56				10		42			

* Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (*) are exceptions.

See insert arrangement drawings on pages 39-47 for application wire size.

** Coaxial cable data can be found on insert arrangement drawings, pages 39-47. For further information on coaxial contacts and cable see catalog 12-130.

† Consult LexTM3 for availability

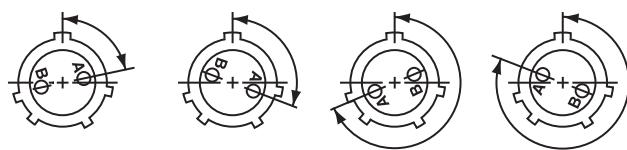
MIL-DTL-22992, QWLD

alternate insert rotations

Some installations require more than one connector of the same size and arrangement. In these installations, cross-plugging problems can be avoided by using alternate insert rotations. They are detailed in the charts on this page.

Sample Rotation Positions

The diagrams show how the front face of the pin insert is rotated: within the shell – clockwise direction from the normal shell key; socket insert – counter-clockwise by the same degrees per normal shell key.



Position W

Position X

Position Y

Position Z

Views looking into front face of pin insert or rear of socket insert.

Insert Arrangement	DEGREES			
	W	X	Y	Z
16-7	80	110	250	280
16-9	35	110	250	325
16-10	90	180	270	–
16-11	35	110	250	325
16-13	35	110	250	325
16-61	80	–	–	280
18-1	70	145	215	290
18-3	35	110	250	325
18-4	35	110	250	325
18-5	80	110	250	280
18-8	70	–	–	290
18-9	80	110	250	280
18-10	–	120	240	–
18-11	–	170	265	–
18-12	80	–	–	280
18-13	80	110	250	280
18-14	80	110	250	280
18-15	–	120	240	–
18-19	–	120	240	–
18-20	90	180	270	–
18-22	70	145	215	290
18-29	90	180	270	–
20-3	70	145	215	290
20-4	45	110	250	–
20-5	35	110	250	325
20-6	70	145	215	290
20-7	80	110	250	280
20-8	80	110	250	280
20-9	80	110	250	280
20-12	80	110	250	280
20-14	80	110	250	280
20-15	80	–	–	280
20-16	80	110	250	280
20-17	90	180	270	–
20-18	35	110	250	325
20-19	90	180	270	–
20-20	80	110	250	280
20-21	35	110	250	325
20-22	80	110	250	280
20-23	35	110	250	325
20-24	35	110	250	325
20-27	35	110	250	325
20-29	80	–	–	280
22-1	35	110	250	325
22-2	70	145	215	290
22-3	80	110	250	280
22-4	35	110	250	325

Insert Arrangement	DEGREES			
	W	X	Y	Z
22-5	35	110	250	325
22-6	80	110	250	280
22-8	35	110	250	325
22-9	70	145	215	290
22-10	35	110	250	325
22-11	35	110	250	325
22-12	80	110	250	280
22-13	35	110	250	325
22-14	80	110	250	280
22-15	80	110	250	280
22-16	80	110	250	280
22-17	80	110	250	280
22-18	80	110	250	280
22-19	80	110	250	280
22-20	35	110	250	325
22-21	80	110	250	280
22-22	–	110	250	–
22-23	35	–	250	–
22-24	80	110	250	280
22-25	80	110	250	280
22-27	80	–	250	280
22-28	80	–	–	280
22-33	80	110	250	280
22-34	80	110	250	280
22-36	90	–	270	–
24-2	80	–	–	280
24-3	80	110	250	280
24-4	80	110	250	280
24-5	80	110	250	280
24-6	80	110	250	280
24-7	80	110	250	280
24-9	35	110	250	325
24-10	80	–	–	280
24-11	35	110	250	325
24-12	80	110	250	280
24-16	80	110	250	280
24-17	80	110	250	280
24-20	80	110	250	280
24-21	80	110	250	280
24-22	45	110	250	–
24-27	80	–	–	280
24-28	80	110	250	280
28-1	80	110	250	280
28-2	35	110	250	325
28-3	70	145	215	290
28-4	80	110	250	280
28-5	35	110	250	325

Insert Arrangement	DEGREES			
	W	X	Y	Z
28-6	70	145	215	290
28-7	35	110	250	325
28-8	80	110	250	280
28-9	80	110	250	280
28-10	80	110	250	280
28-11	80	110	250	280
28-12	90	180	270	–
18-15	80	110	250	280
28-16	80	110	250	280
28-17	80	110	250	280
28-18	70	145	215	290
28-19	80	110	250	280
28-20	80	110	250	280
28-21	80	110	250	280
28-22	70	145	215	290
32-1	80	110	250	280
32-2	70	145	215	290
32-3	80	110	250	280
32-4	80	110	250	280
32-5	35	110	250	325
32-6	80	110	250	280
32-7	80	125	235	280
32-8	80	125	235	280
32-9	80	110	250	280
32-10	80	110	250	280
32-12	80	110	250	280
32-13	80	110	250	280
32-15	35	110	250	280
32-17	45	110	250	–
32-73	36	–	–	–
36-1	80	110	250	280
36-3	70	145	215	290
36-4	70	145	215	290
36-5	–	120	240	–
36-6	35	110	250	325
36-7	80	110	250	280
36-8	80	110	250	280
36-9	80	125	235	280
36-10	80	125	235	280
36-13	80	110	250	280
36-14	90	180	270	–
36-15	60	125	245	305
36-52	72	144	216	288
40-1	65	130	235	300
40-9	65	125	225	310
40-56	72	144	216	288
44-52	72	135	225	288

MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated



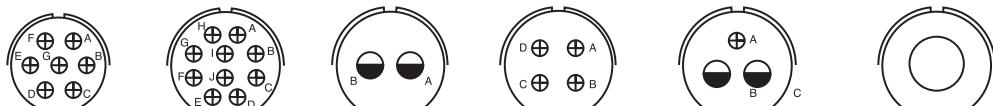
Insert Arrangement
Service Rating
Number of Contacts
Contact Size

12-5	12-48	12-49	14-3	14-53	16-2
D	A	A	A	Inst.	E
1	3	2	1	6	1
12	16	16	8	16	12



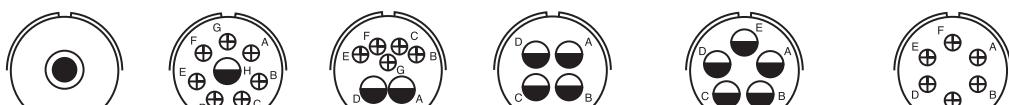
Insert Arrangement
Service Rating
Number of Contacts
Contact Size

16-7	16-9	16-10	16-11	16-12	16-13
A	A	A	A	A	A
1 2	2 2	3	2	1	2*
8 16	12 16	12	12	4	12



Insert Arrangement
Service Rating
Number of Contacts
Contact Size

16-61	18-1	18-3	18-4	18-5	18-6
A	B, C, F, G = A; Bal. = Inst.	D	D	D	D
7	10	2	4	2 1	1
16	16	12	16	12 16	4



Insert Arrangement
Service Rating
Number of Contacts
Contact Size

18-7	18-8	18-9	18-10	18-11	18-12
B	A	Inst.	A	A	A
1	1 7	2 5	4	5	6
8	12 16	12 16	12	12	16

* A = Iron; B = Constantan

CONTACT LEGEND



MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated

Insert Arrangement	18-13	18-14	18-15	18-16	18-17	18-19
Service Rating	A	A	A	C	Inst.	A
Number of Contacts	1 3	1 1	4**	1	2 5	10
Contact Size	8 12	4 16	12	12	12 16	16

Insert Arrangement	18-20	18-22	18-24	18-29	18-30	18-31
Service Rating	A	D	B, C, F, G = A, Bal. = Inst.	A	A	A
Number of Contacts	5	3	10	5	5	5
Contact Size	16	16	16	16	16	16

Insert Arrangement	20-2	20-3	20-4	20-6	20-7	20-8
Service Rating	D	D	D	D	A, B, H, G = D; C, D, E, F = A	Inst.
Number of Contacts	1	3	4	3	8	2 4
Contact Size	0	12	12	16	16	8 16

**A, C = Iron; B, D = Constantan

CONTACT LEGEND

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MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated

	20-9		20-11		20-12		20-14		20-15		20-16
Insert Arrangement			Inst.		A		A		A		A
Service Rating	H = D; Bal. = A		13		1	1	2	3	7		2
Number of Contacts	1 7		16		4	16	8	12	12		16
Contact Size	12 16										

	20-17		20-18		20-19		20-20		20-21		20-22
Insert Arrangement				A			A		A		A
Service Rating	A			A			A		1		3
Number of Contacts	5 1			3 6			3		8		16
Contact Size	12 16			12 16			8		4 12		8 16

	20-23		20-24		20-25		20-27		20-29		20-30
Insert Arrangement				Inst.			A		A		Inst.
Service Rating	A			13			14		17		13
Number of Contacts	2			16			16		16		16
Contact Size	8										

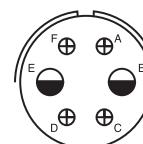
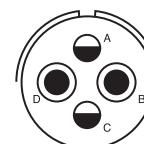
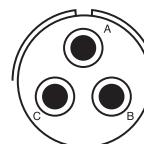
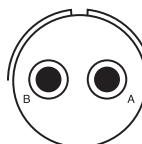
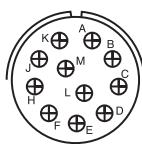
100° Rotation of 20-11

250° Rotation of 20-11



MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated



Insert Arrangement

20-33

Service Rating

A

Number of Contacts

11

Contact Size

16

22-1

D

22-2

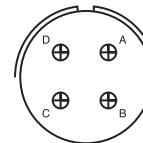
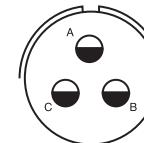
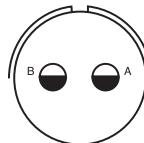
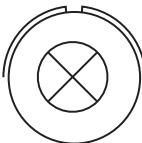
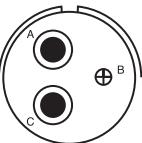
D

22-4

A

22-5

D



Insert Arrangement

22-6

Service Rating

D

Number of Contacts

2 1

Contact Size

8 16

22-7

E

22-8

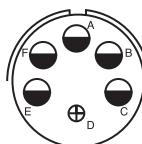
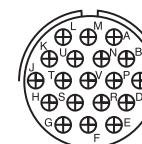
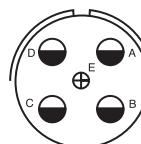
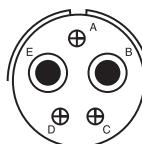
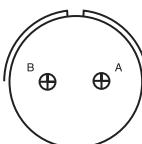
E

22-9

E

22-10

E



Insert Arrangement

22-11

Service Rating

B

Number of Contacts

2

Contact Size

16

22-12

D

E = D; A, B, C, D = A

2 3

8 16

22-13

4 1

12 16

22-14

A

19

16

22-15

D = E; A, B, C, E, F = A

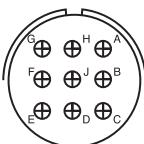
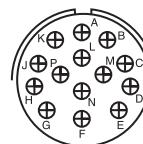
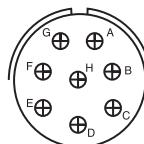
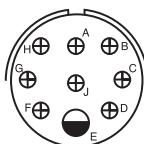
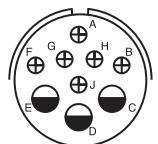
5 1

12 16



MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated



Insert Arrangement

22-16

Service Rating

A

Number of Contacts

3 6

Contact Size

12 16

22-17

A = D; Bal. = A

1 8

22-18

A, B, F, G, H = D; C, D, E = A

8

22-19

A

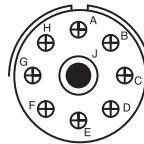
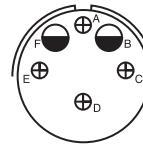
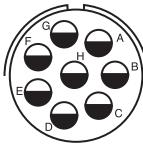
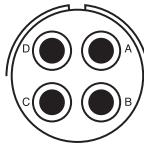
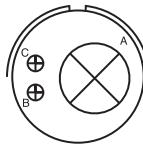
14

22-20

A

9

16



Insert Arrangement

22-21

Service Rating

A

Number of Contacts

1 2

Contact Size

0 16

22-22

A

22-23

H = D; Bal. = A

8

22-24

C, D, E = D; A, B, F = A

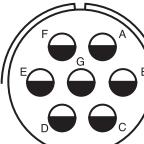
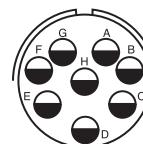
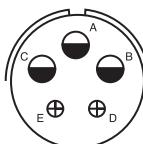
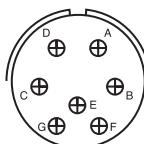
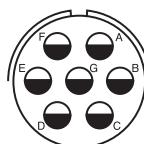
2 4

22-27

J = D; Bal. = A

1 8

8 16



Insert Arrangement

22-28

Service Rating

A

Number of Contacts

7

Contact Size

12

22-33

A, B, C, D = D; E, F, G = A

7

22-34

D

3 2

22-36

H = D; Bal. = A

8

24-2

D

7

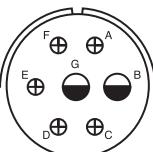
12



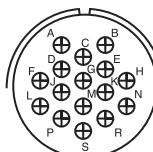
MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated

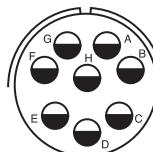
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



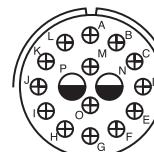
24-3
D
2 5
12 16



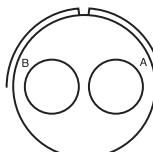
24-5
A
16
16



24-6
A, G, H = D; Bal. = A
8
12

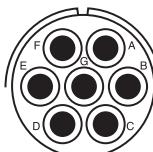


24-7
A
2 14
12 16

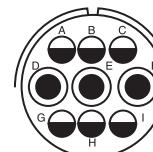


24-9
A
2
4

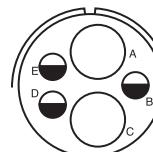
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



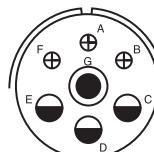
24-10
A
7
8



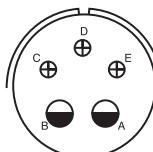
24-11
A
3 6
8 12



24-12
A
2 3
4 12

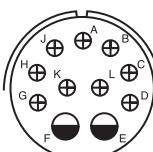


24-16
A, B, F, G = D; C, D, E = A
1 3 3
8 12 16

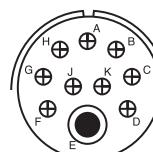


24-17
D
2 3
12 16

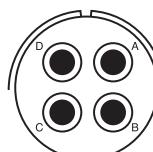
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



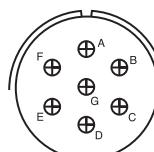
24-20
D
2 9
12 16



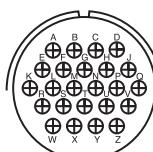
24-21
D
1 9
8 16



24-22
D
4
8



24-27
E
7
16



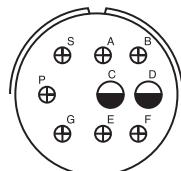
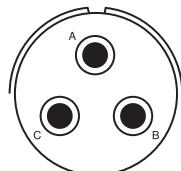
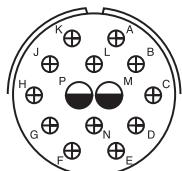
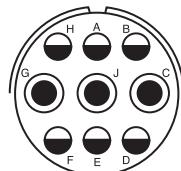
24-28
Inst.
24
16

CONTACT LEGEND

⊕	⊖	◎	○	⊗
16	12	8	4	0

MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated



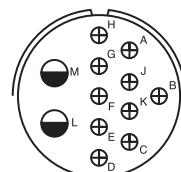
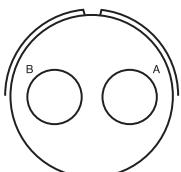
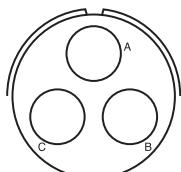
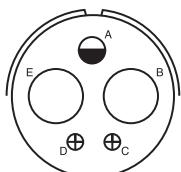
Insert Arrangement
Service Rating
Number of Contacts
Contact Size

28-1
A, J, E = D; Bal. = A
3 6
8 12

28-2
D
2 12
12 16

28-3
E
3
8

28-4
G, P, S = E; Bal. = D
2 7
12 16



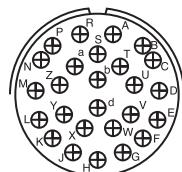
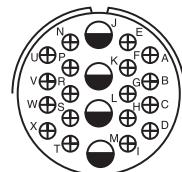
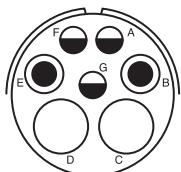
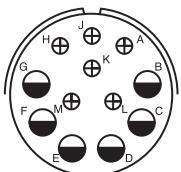
Insert Arrangement
Service Rating
Number of Contacts
Contact Size

28-5
D
2 1 2
4 12 16

28-6
D
3
4

28-7
D
2
4

28-8
L, M = E; B = D; Bal. = A
2 10
12 16



Insert Arrangement
Service Rating
Number of Contacts
Contact Size

28-9
D
6 6
12 16

28-10
G = D; Bal. = A
2 2 3
4 8 12

28-11
A
4 18
12 16

28-12
A
26
16

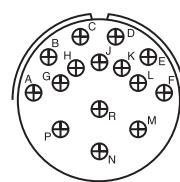
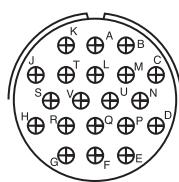
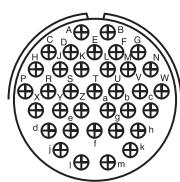
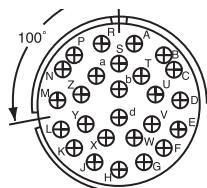
CONTACT LEGEND

16 12 8 4 0

⊕ ● ◑ ○ ✕

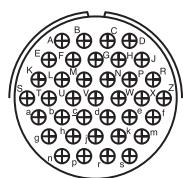
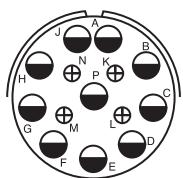
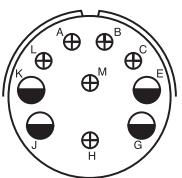
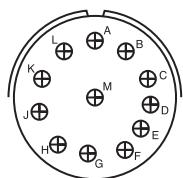
MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated

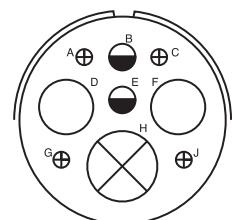
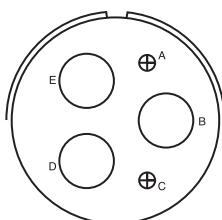
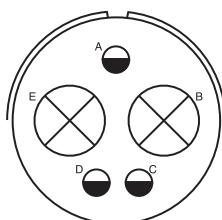
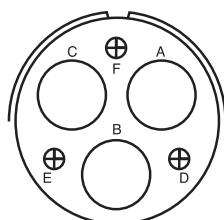


100° Rotation
of 28-12

Insert Arrangement	28-13	28-15	28-16	28-17
Service Rating	A	A	A	R = B; M, N, P = D; A to L = A
Number of Contacts	26	35	20	15
Contact Size	16	16	16	16



Insert Arrangement	28-18	28-19	28-20	28-21
Service Rating	M = C; G, H, J, K, L = D; A, B = H; Bal. = Inst.	H, M = B; A = D; Bal. = A	A	A
Number of Contacts	12	4 6	10 4	37
Contact Size	16	12 16	12 16	16



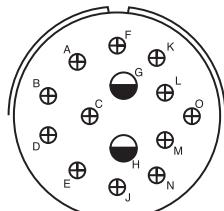
Insert Arrangement	28-22	32-1	32-2	32-3
Service Rating	D	A = E; Bal. = D	E	D
Number of Contacts	3 3	2 3	3 2	1 2 2 4
Contact Size	4 16	0 12	4 16	0 4 12 16



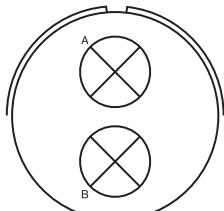
MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated

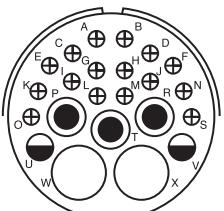
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



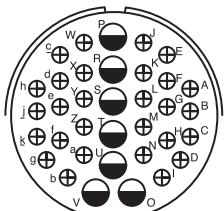
32-4
F, J, K, N = A; Bal. = D
2 12
12 16



32-5
D
2
0

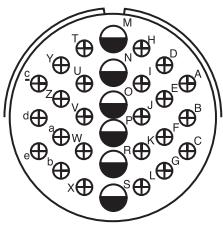


32-6
A
2 3 2 16
4 8 12 16

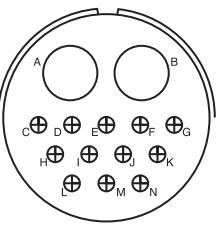


32-7
A, B, h , j = Inst; Bal. = A
7 28
12 16

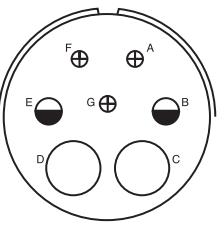
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



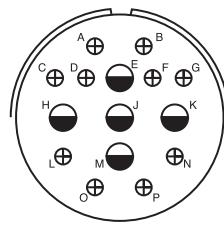
32-8
A
6 24
12 16



32-9
D
2 12
4 16

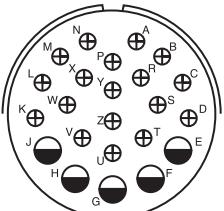


32-10
A, F = E, G = B; B, E = D; C, D = A
2 2 3
4 8 16

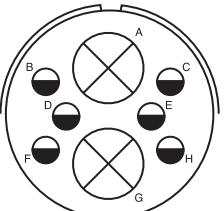


32-12
C, D, E, F, G = A; Bal. = D
5 10
12 16

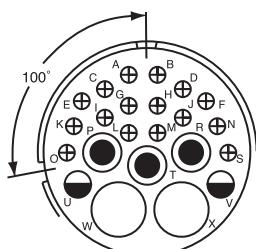
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



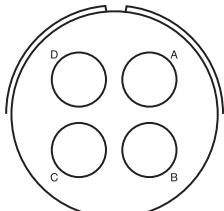
32-13
D
5 18
12 16



32-15
D
2 6
0 12



**100° Rotation
of 32-6**



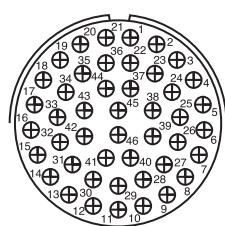
32-17
D
4
4

CONTACT LEGEND

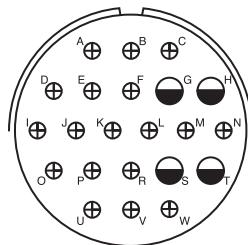


MIL-DTL-22992, QWLD contact arrangements

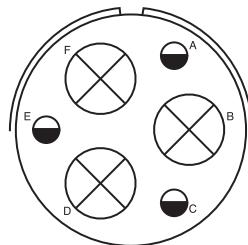
Front Face of Pin Insert or Rear of Socket Insert Illustrated



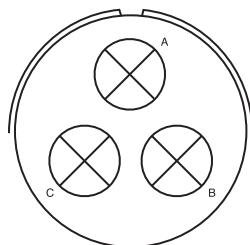
Insert Arrangement	32-73
Service Rating	A
Number of Contacts	46
Contact Size	16



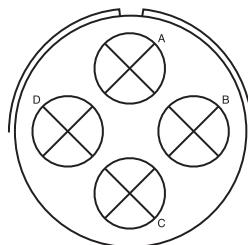
Insert Arrangement	36-1
Service Rating	D
Number of Contacts	4 18



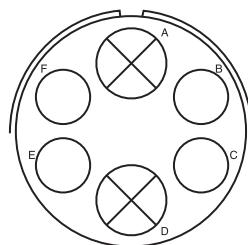
Insert Arrangement	36-3
Service Rating	D
Number of Contacts	3 3



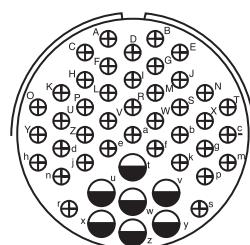
Insert Arrangement	36-4
Service Rating	A = D; B, C = A
Number of Contacts	3
Contact Size	0



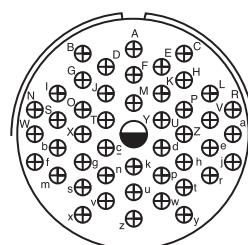
Insert Arrangement	36-5
Service Rating	A
Number of Contacts	4



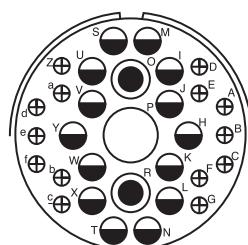
Insert Arrangement	36-6
Service Rating	A
Number of Contacts	2 4



Insert Arrangement	36-7
Service Rating	A
Number of Contacts	7 40
Contact Size	12 16



Insert Arrangement	36-8
Service Rating	A
Number of Contacts	1 46



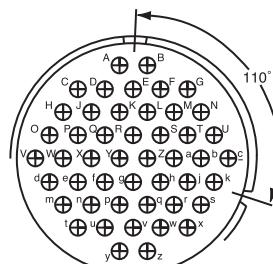
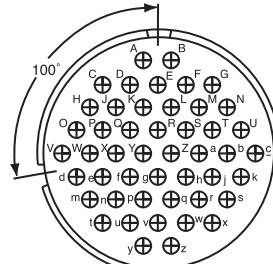
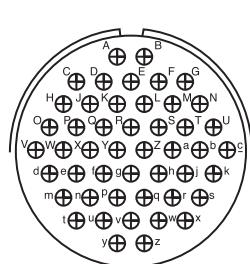
Insert Arrangement	36-9
Service Rating	A
Number of Contacts	1 2 14 14

Service Rating	4 8 12 16
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MIL-DTL-22992, QWLD contact arrangements

Front Face of Pin Insert or Rear of Socket Insert Illustrated



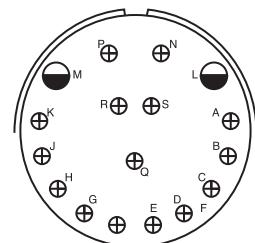
Insert Arrangement	36-10
Service Rating	A
Number of Contacts	48
Contact Size	16

36-10
A
48
16

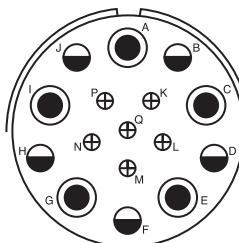
36-11
A
48
16

36-12
A
48
16

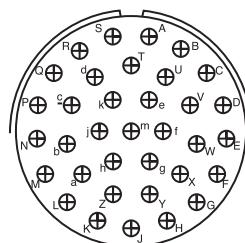
Insert Arrangement	36-13
Service Rating	N, P, Q = E; Bal. = A
Number of Contacts	2 15
Contact Size	12 16



36-13
N, P, Q = E; Bal. = A
2 15
12 16



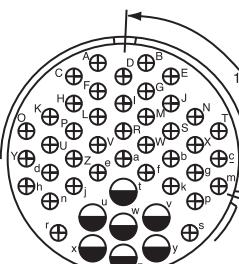
36-14
D
5 5 6
8 12 16



36-15
M = D; Bal. = A
35
16

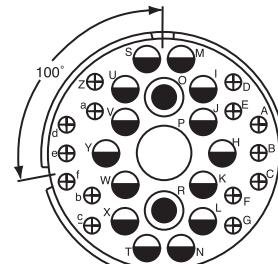
Insert Arrangement	36-16
Service Rating	A
Number of Contacts	7 40
Contact Size	12 16

36-16
A
7 40
12 16



100° Rotation
of 36-7

36-17
A
7 40
12 16



100° Rotation
of 36-9

36-18
A
1 2 14 14
4 8 12 16



MIL-DTL-22992, QWLD contact arrangements

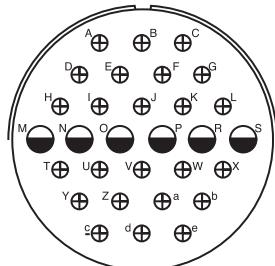
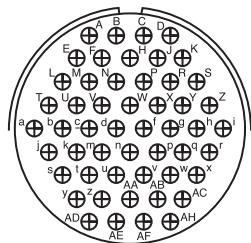
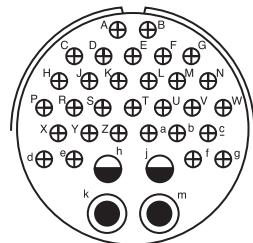
Front Face of Pin Insert or Rear of Socket Insert Illustrated

Insert Arrangement
Service Rating
Number of Contacts
Contact Size

36-20
A
2 2 30
8 12 16

36-52
A
52
16

40-1
D
6 24
12 16

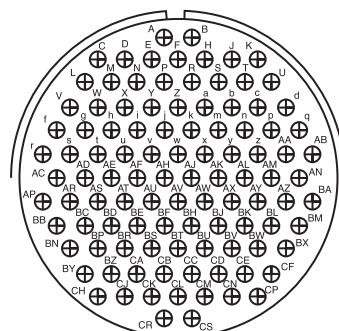
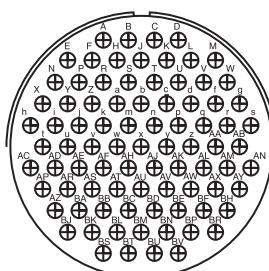
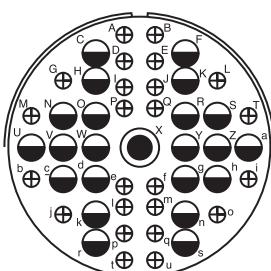


Insert Arrangement
Service Rating
Number of Contacts
Contact Size

40-9
A
1 22 24
8 12 16

40-56
A
85
16

44-52
A
104
16



CONTACT LEGEND

⊕	●	○	⊗
16	12	8	4