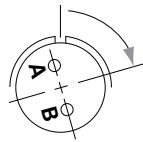


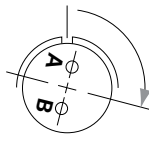
Selecting Your Insert Arrangement & Rotation

Below is a chart that represents every available shell and insert arrangement within the series. To choose the proper insert arrangement, you must first distinguish your application requirements for contact size and amount.

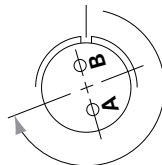
Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. Refer to the chart below for possible rotations for specific arrangements. ■



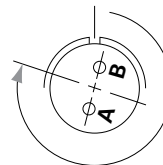
Position W



Position X



Position Y



Position Z

Looking into front face of pin insert or rear of socket insert.

Insert Arrangement Selection

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Alternate Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
10S-2	1	1					A				
10SL-3	3	3					A				
10SL-4	2	2					A	63°			
12S-3	2	2					A	70°	145°	215°	290°
14S-2	4	4					Inst.		120°	240°	
14S-5	5	5					Inst.		110°		
14S-6	6	6					Inst.				
14S-7	3	3					A	90°	180°	270°	
16-9	4	2	2				A	35°	110°	250°	325°
16-10	3		3				A	90°	180°	270°	
16-11	2		2				A	35°	110°	250°	325°
16-12	1				1		A				
16S-1	7	7					A	80°			280°
16S-4	2	2					D	35°	110°	250°	325°
16S-8	5	5					A		170°	265°	
18-1	10	10					A/Inst.	70°	145°	215°	290°
18-4	4	4					D	35°	110°	250°	325°
18-8	8	7	1				A	70°			290°
18-9	7	5	2				Inst.	80°	110°	250°	280°
18-11	5		5				A		170°	265°	
18-13	4		3	1			A	80°	110°	250°	280°
20-2	1					1	D				
20-4	4		4				D	45°	110°	250°	
20-7	8	8					D/A	80°	110°	250°	280°
20-8	6	4		2			Inst.	80°	110°	250°	280°
20-14	5		3	2			A	80°	110°	250°	280°
20-15	7		7				A	80°			280°
20-16	9	7	2				A	80°	110°	250°	280°
20-17	6	1	5				A	90°	180°	270°	
20-18	9	6	3				A	35°	110°	250°	325°
20-19	3			3			A	90°	180°	270°	

* Option is unavailable if left blank.

(Continued on next page)

Insert Arrangements & Rotations

TF Series • MIL-DTL-5015 Crimp Type Connectors

Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Alternate Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
20-22	6	3		3			A	80°	110°	250°	280°
20-24	4	2		2			A	35°	110°	250°	325°
20-27	14	14					A	35°	110°	250°	325°
20-29	17	17					A	80°			280°
20-33	11	11					A				
22-2	3			3			D	70°	145°	215°	290°
22-5	6	4	2				D	35°	110°	250°	325°
22-7	1					1	E				
22-9	3		3				E	70°	145°	250°	290°
22-14	19	19					A	80°	110°	250°	280°
22-18	8	8					D/A	80°	110°	250°	280°
22-19	14	14					A	80°	110°	250°	280°
22-22	4			4			A		110°	250°	
22-23	8		8				D/A	35°		250°	
24-2	7		7				D	80°			280°
24-4	4	3				1	D	80°	110°	250°	280°
24-6	8		8				D/A	80°	110°	250°	280°
24-7	16	14	2				A	80°	110°	250°	280°
24-10	7			7			A	80°			280°
24-11	9		6	3			A	35°	110°	250°	325°
24-12	5		3		2		A	80°	110°	250°	280°
24-20	11	9	2				D	80°	110°	250°	280°
24-22	4			4			D	45°	110°	250°	
24-28	24	24					Inst.	80°	110°	250°	280°
28-2	14	12	2				D	35°	110°	250°	325°
28-3	3			3			E	70°	145°	215°	290°
28-9	12	6	6				D	80°	110°	250°	280°
28-11	22	18	4				A	80°	110°	250°	280°
28-12	26	26					A	90°	180°	270°	
28-15	35	35					A	80°	110°	250°	280°
28-20	14	4	10				A	80°	110°	250°	280°
28-21	37	37					A	80°	110°	250°	280°
28-22	6	3			3		D	70°	145°	250°	290°
32-1	5		3			2	E/D	80°	110°	250°	280°
32-2	5	2			3		E	70°	145°	215°	290°
32-6	23	16	2	3	2		A	80°	110°	250°	280°
32-7	35	28	7				Inst./A	80°	125°	235°	280°
32-17	4				4		D	45°	110°	250°	
32-63	5				5		D				
36-3	6		3			3	D	70°	145°	215°	290°
36-5	4					4	A		120°	240°	
36-6	6				4	2	A	35°	110°	250°	325°
36-7	47	40	7				A	80°	110°	250°	280°
36-9	31	14	14	2	1		A	80°	125°	235°	280°
36-10	48	48					A	80°	125°	235°	280°
36-52	52	52					A				

* Option is unavailable if left blank.

Rev. 1718

BRING OUT THE BIG GUNS



Power & Signal Connectors for Big Jobs

When you need signal and power in the same connector, Milnec TF Series crimp connectors are the perfect choice. TF connectors can handle up to 150A, and are built from heavy duty materials to ensure reliability in the harshest environments. When you are faced with a tough interconnect application, be sure to choose Milnec.



Insert Arrangement Drawings

TF Series • MIL-DTL-5015 Crimp Type Connectors

Arrangement
Service Rating
Number of Contacts



10S-2
A
1 x #16



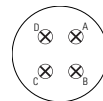
10SL-3
A
3 x #16



10SL-4
A
2 x #16

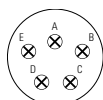


12S-3
A
2 x #16

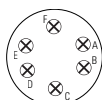


14S-2
Inst.
4 x #16

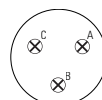
Arrangement
Service Rating
Number of Contacts



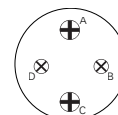
14S-5
Inst.
5 x #16



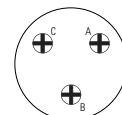
14S-6
Inst.
6 x #16



14S-7
A
3 x #16

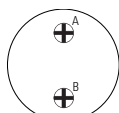


16-9
A
2 x #12
2 x #16

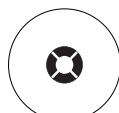


16-10
A
3 x #12

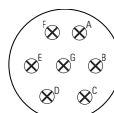
Arrangement
Service Rating
Number of Contacts



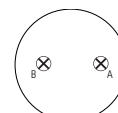
16-11
A
2 x #12



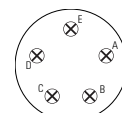
16-12
A
1 x #4



16S-1
A
7 x #16

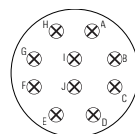


16S-4
D
2 x #16

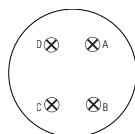


16S-8
A
5 x #16

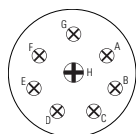
Arrangement
Service Rating
Number of Contacts



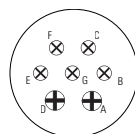
18-1
B,C,F,G=A; Bal.=Inst.
10 x #16



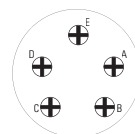
18-4
D
4 x #16



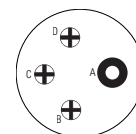
18-8
A
1 x #12
7 x #16



18-9
Inst.
2 x #12
5 x #16

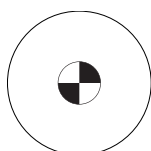


18-11
A
5 x #12

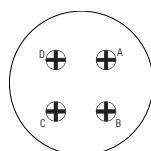


18-13
A
1 x #8
3 x #12

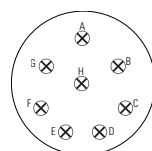
Arrangement
Service Rating
Number of Contacts



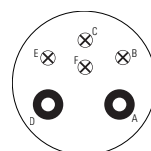
20-2
D
1 x #0



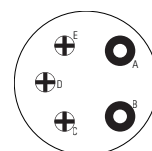
20-4
D
4 x #12



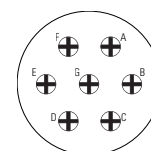
20-7
A,B,H,G=D; C,D,E,F=A
8 x #16



20-8
Inst.
2 x #8
4 x #16



20-14
A
2 x #8
3 x #12



20-15
A
7 x #12

Contact Legend



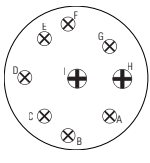
(Continued on next page)

Rev. 1718

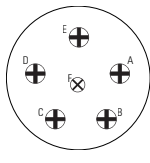
Insert Arrangement Drawings

TF Series • MIL-DTL-5015 Crimp Type Connectors

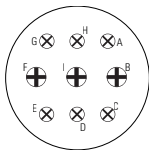
(Continued from previous page)



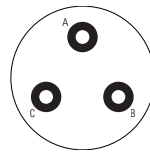
20-16
A
2 x #12
7 x #16



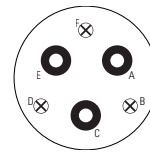
20-17
A
5 x #12
1 x #16



20-18
A
3 x #12
6 x #16

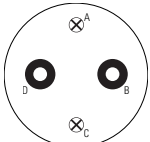


20-19
A
3 x #8

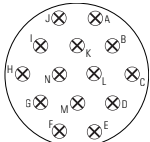


20-22
A
3 x #8
3 x #16

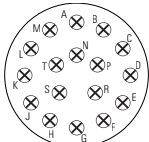
Arrangement
Service Rating
Number of Contacts



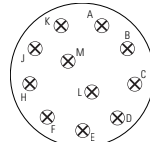
20-24
A
2 x #8
2 x #16



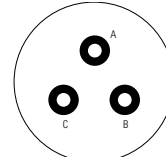
20-27
A
14 x #16



20-29
A
17 x #16

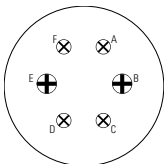


20-33
A
11 x #16

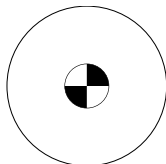


22-2
D
3 x #8

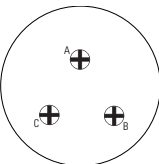
Arrangement
Service Rating
Number of Contacts



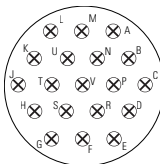
22-5
D
2 x #12
4 x #16



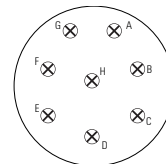
22-7
E
1 x #0



22-9
E
3 x #12

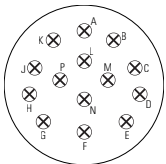


22-14
A
19 x #16

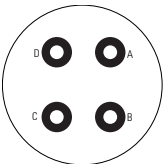


22-18
A,B,F,G,H=D; C,D,E=A
8 x #16

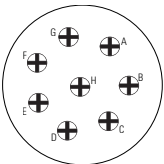
Arrangement
Service Rating
Number of Contacts



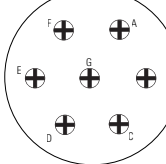
22-19
A
14 x #16



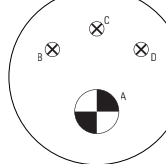
22-22
A
4 x #8



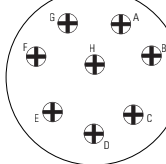
22-23
H=D; Bal.=A
8 x #12



24-2
D
7 x #12

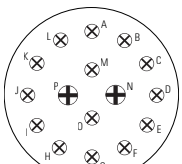


24-4
D/A
1 x #0
3 x #16

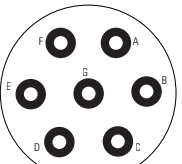


24-6
A,G,H=D; Bal.=A
8 x #12

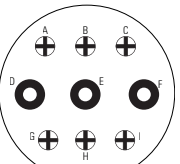
Arrangement
Service Rating
Number of Contacts



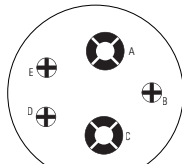
24-7
A
2 x #12
14 x #16



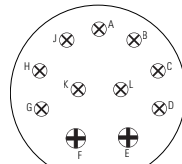
24-10
A
7 x #8



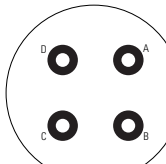
24-11
A
3 x #8
6 x #12



24-12
A
2 x #4
3 x #12



24-20
D
2 x #12
9 x #16



24-22
D
4 x #8

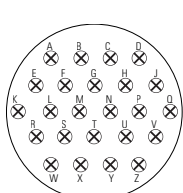
Arrangement
Service Rating
Number of Contacts

Insert Arrangement Drawings

TF Series • MIL-DTL-5015 Crimp Type Connectors

(Continued from previous page)

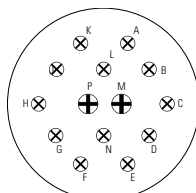
Arrangement
Service Rating
Number of Contacts



24-28

Inst.

24 x #16

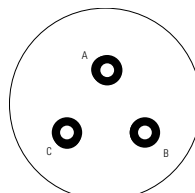


28-2

D

2 x #12

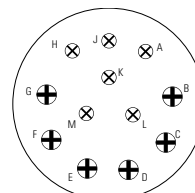
12 x #16



28-3

E

3 x #8

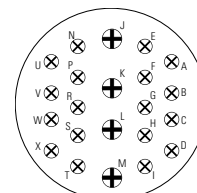


28-9

D

6 x #12

6 x #16



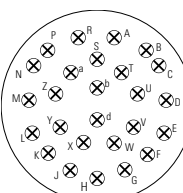
28-11

A

4 x #12

18 x #16

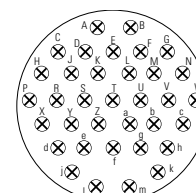
Arrangement
Service Rating
Number of Contacts



28-12

A

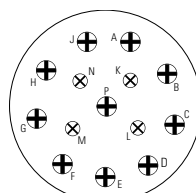
26 x #16



28-15

A

35 x #16

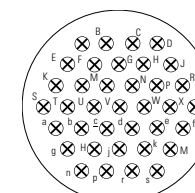


28-20

A

10 x #12

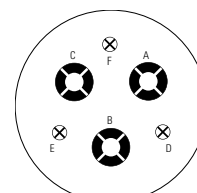
4 x #16



28-21

A

37 x #16



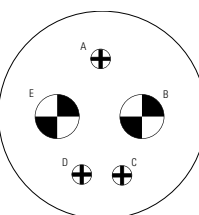
28-22

D

3 x #4

3 x #16

Arrangement
Service Rating
Number of Contacts

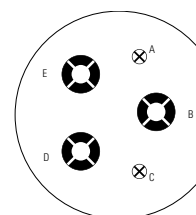


32-1

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

2 x #0

3 x #12

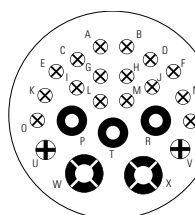


32-2

E

3 x #4

2 x #16

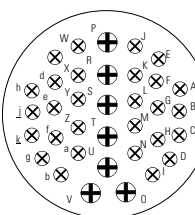


32-6

A

2 x #4; 3 x #8

2 x #12; 16 x #16

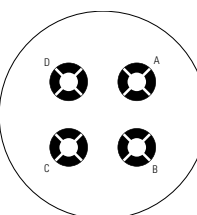


32-7

A,B,H,J=Inst.; Bal.=A

7 x #12

28 x #16

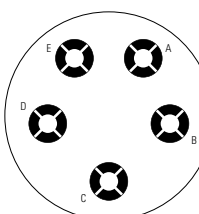


32-17

D

4 x #4

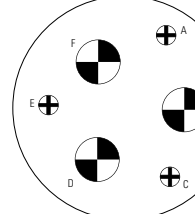
Arrangement
Service Rating
Number of Contacts



32-63

D

5 x #4

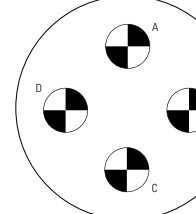


36-3

D

3 x #0

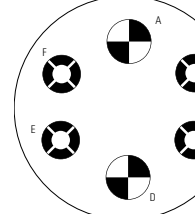
3 x #12



36-5

A

4 x #0



36-6

A

2 x #0

4 x #4

Contact Legend #0 #4 #8 #10 #12 #16

(Continued on next page)

Rev. 1718