

Insert Arrangements

TB Series • MIL-DTL-38999 Series IV Style Accessories

Selecting Your Insert Arrangement

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 quantity.

Each insert arrangement has a unique number to identify its size and contact arrangement. The first number is the shell size. The second number is the contact arrangement. It does not, however, always equal the total number of contacts. ■

Insert Arrangement Selection

Insert Arrangement	Military Shell Size	Total Contacts	Hermetic Available	PC Tail Kit Available	Service Rating	Contact Size						
						#22D	#20	#16	#12	#12 Coax ¹	#8 Coax ²	#8 Twinax ³
9-35	A	6	✓	✓	M	6						
9-98	A	3	✓	✓	I		3					
11-2	B	2	✓	✓	I			2				
11-3 [†]	B	3			II			3				
11-5	B	5	✓	✓	I		5					
11-35	B	13	✓	✓	M	13						
11-98	B	6	✓	✓	I		6					
11-99	B	7	✓	✓	I		7					
13-4	C	4	✓	✓	I			4				
13-35	C	22	✓	✓	M	22						
13-98	C	10	✓	✓	I		10					
15-5	D	5	✓	✓	II			5				
15-15	D	15	✓		I		14	1				
15-18	D	18	✓	✓	I		18					
15-19	D	19	✓	✓	I		19					
15-35	D	37	✓	✓	M	37						
15-97	D	12	✓	✓	I		8	4				
17-2	E	39			M	38						1
17-6	E	6	✓	✓	I				6			
17-8	E	8	✓	✓	II			8				
17-26	E	26	✓	✓	I		26					
17-35	E	55	✓	✓	M	55						
17-98 [†]	E	26			M	24						2
17-99	E	23	✓		I		21	2				
19-3 [†]	F	3			M							3
19-4 [†]	F	4			M							4
19-11	F	11	✓	✓	II			11				
19-18	F	18			M	14						4
19-32	F	32	✓	✓	I		32					
19-35	F	66	✓	✓	M	66						
21-5 [†]	G	5			M							5
21-11	G	11	✓	✓	I				11			
21-16	G	16	✓	✓	II			16				
21-26 [†]	G	25			M		23					2
21-35	G	79	✓	✓	M	79						
21-39	G	39	✓	✓	I		37	2				
21-41	G	41	✓	✓	I		41					
23-21	H	21			II			21				
23-35	H	100			M	100						

(Continued on next page)

Rev. 1807

Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Military Shell Size	Total Contacts	Hermetic Available	PC Tail Kit Available	Service Rating	Contact Size						
						#22D	#20	#16	#12	#12 Coax ¹	#8 Coax ²	#8 Twinax ³
23-53	H	53	✓	✓	I		53					
23-55	H	55	✓	✓	I		55					
23-97 [†]	H	16			I			16				
23-99 [†]	H	11			II			11				
25-4	J	56	✓	✓	I		48	8				
25-8	J	8			Twinax							8
25-19	J	19	✓	✓	I				19			
25-20 ⁵	J	30			N		10	13		4		3
25-24	J	24	✓	✓	I			12	12			
25-29	J	29	✓	✓	I			29				
25-35	J	128	✓	✓	M	128						
25-43	J	43	✓	✓	I		23	20				
25-46	J	46			I		40	4			2	
25-61	J	61	✓	✓	I		61					

¹ Includes the following #12 coax contacts: TXPX12-006 (pin) or TXSX12-007 (socket) contacts, see p. B-11 for more information.

² Includes the following #8 coax contacts: TXPX08-010 (pin) or TXSX08-011 (socket) contacts, see p. B-11 for more information.

³ Includes the following #8 twinax contacts: TXPW08-002 (pin) or TXSW08-003 (socket) contacts, see p. B-11 for more information.

⁴ 13-13 insert is designed to accept 2 of our standard size #16 fiber optic contacts in place of #16 power contacts, see p. B-12 for more information.

⁵ 25-20 insert is designed for MIL-STD-1760 applications and includes the following contacts:

2 x #12 coax contacts (matched impedance): TXPX12-006 (pin) or TXSX12-007 (socket) contacts

2 x #12 coax contacts (matched impedance): TXPX12-010 (pin) or TXSX12-011 (socket) contacts

3 x #8 twinax contacts: TXPW08-002 (pin) or TXSW08-003 (socket) contacts

[†] Special order only Consult distributor for lead time.

HIGH-FREQUENCY CONTACTS FOR HIGH-SPEED TRANSMISSION

Eight concentric twinax contacts for high-speed data transmission in a rugged connector.



Contacts for Advanced Applications

Milnec's high-frequency contacts are the ideal choice for advanced applications that require superior electrical performance along with shielding to protect from outside electrical interference.

- High-speed RF contacts
- Fiber optic contacts
- PC tail contacts



Insert Arrangement Drawings

TB Series • MIL-DTL-38999 Series IV Style Accessories

Arrangement

Service Rating

Number of Contacts



9-35

M

6 x #22D



9-98

I

3 x #20



11-2

I

2 x #16



11-3

II

3 x #16



11-5

I

5 x #20



11-35

M

13 x #22D



11-98

I

6 x #20



11-99

I

7 x #20



13-4

I

4 x #16



13-35

M

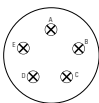
22 x #22D



13-98

I

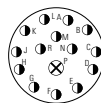
10 x #20



15-5

II

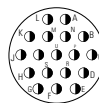
5 x #16



15-15

I

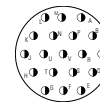
14 x #20
1 x #16



15-18

I

18 x #20



15-19

I

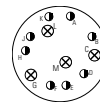
19 x #20



15-35

M

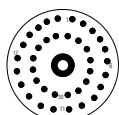
37 x #22D



15-97

I

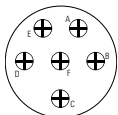
8 x #20
4 x #16



17-2

M

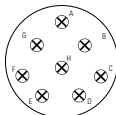
38 x #22D
1 x #8 Twinax



17-6

I

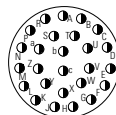
6 x #12



17-8

II

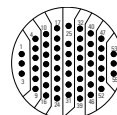
8 x #16



17-26

I

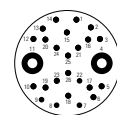
26 x #20



17-35

M

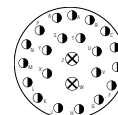
55 x #22D



17-98

M

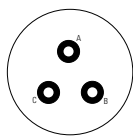
24 x #22D
2 x #8 Twinax



17-99

I

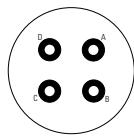
21 x #20
2 x #16



19-3

M

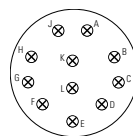
3 x #8 Twinax



19-4

M

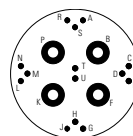
4 x #8 Twinax



19-11

II

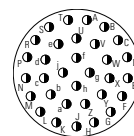
11 x #16



19-18

M

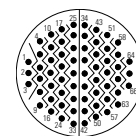
14 x #22D
4 x #8 Twinax



19-32

I

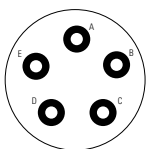
32 x #20



19-35

M

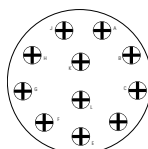
66 x #22D



21-5

M

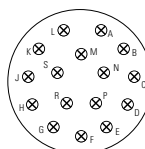
5 x #8 Twinax



21-11

I

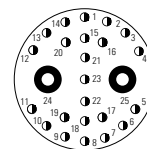
11 x #12



21-16

II

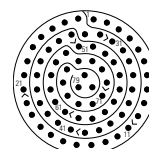
16 x #16



21-26

M

23 x #20
2 x #8 Twinax



21-35

M

79 x #22D

Contact Legend



8



10



12



#16



#20



#22D

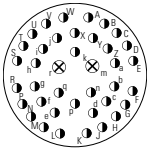
(Continued on next page)

Rev. 1807

Insert Arrangement Drawings

TB Series • MIL-DTL-38999 Series IV Style Accessories

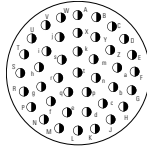
(Continued from previous page)



21-39

I

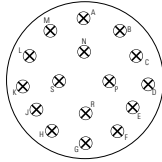
37 x #20
2 x #16



21-41

I

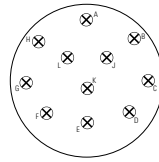
41 x #20



23-97

I

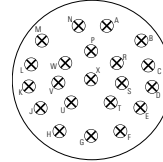
16 x #16



23-21

II

11 x #16

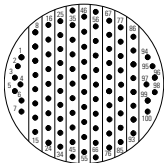


23-21

II

21 x #16

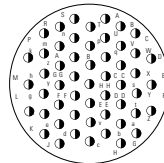
Arrangement
Service Rating
Number of Contacts



23-35

M

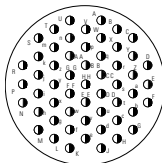
100 x #22D



23-53

I

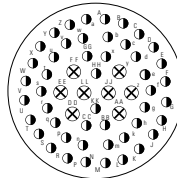
53 x #20



23-55

I

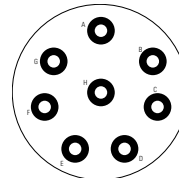
55 x #20



25-4

I

48 x #20
8 x #16

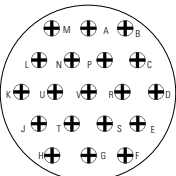


25-8

Twinax

8 x #8 Twinax

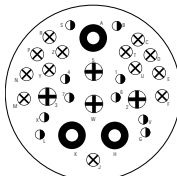
Arrangement
Service Rating
Number of Contacts



25-19

I

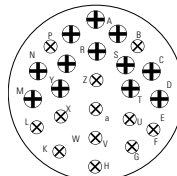
19 x #12



25-20

N

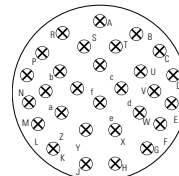
10 x #20, 13 x #16,
3 x #8 Twinax, 4 x #12 Coax



25-24

I

12 x #16
12 x #12

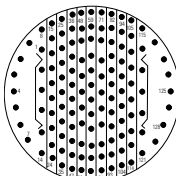


25-29

I

29 x #16

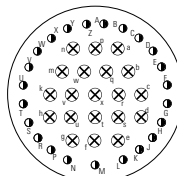
Arrangement
Service Rating
Number of Contacts



25-35

M

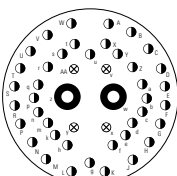
128 x #22D



25-43

I

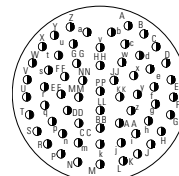
23 x #20
20 x #16



25-46

I

40 x #20; 4 x #16
2 x #8 Coax



25-61

I

61 x #20

Arrangement
Service Rating
Number of Contacts