

MIL-C-38999 Series I DEUTSCH DJT SERIES CONNECTORS

Mil-Spec Connectors & Accessories



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MIL-C-38999 Series I

DEUTSCH DJT SERIES CONNECTORS Cylindrical, High Density Bayonet Coupling Connector Qualified to MIL-C-38999 Series I

The Deutsch Series I version is a long shell, scoop-proof, bayonet coupling connector available in both environment resisting resilient and hermetic types. These Series I connectors are intermateable and interchangeable with all other MIL-C-38999 Series I connectors.

Dielectric withstanding voltage: (Meets MIL-C-38999, paragraph 3.14) At sea level: 1800 volts AC (RMS) At 100,000 ft.: 200 volts AC (RMS)

Insulation resistance:

(Meets MIL-C-38999, paragraph 3.13) 5000 megohms min.at 25°

Thermal shock:

(Meets MIL-C-38999, paragraph 3.8) After cycling the connector between -65° C and +175° C, it will meet all applicable electrical and mechanical requirements.

Current rating:

(Meets MIL-C-	39029, paragraph 1.3.1)
Contact Size	Max. Amps
22D	5
20	7.5
16	13
12	23

Temperature:

(Meets MIL-C-38999, paragraph 3.11) Operative at temperatures from -65° C to $+175^{\circ}$ C.

Durability:

(Meets MIL-C-38999, paragraph 3.11) No electrical or mechanical defects after 500 cycles of engagement and disengagement.

Physical shock:

(Meets MIL-C-38999, paragraph 3.27) No loosening of parts, cracking or other deleterious results hindering further part operation after 300 G's in each of 3 mutually perpendicular planes.

Contact millivolt drop:

22D	- 73 millivolts at 5.0 amps
20	- 55 millivolts at 7.5 amps

20	00	minitionto	ш	1.0 ui	npo
16	- 49	millivolts	at	135.0	amps

12 — 42 millivolts at 23.0 amps

Corrosion:

(Meets MIL-C-38999, paragraph 3.16) Meets appropriate electrical and mechanical requirements and shows no exposure of base metal after 500 hours of salt spray.

Vibration:

(Meets MIL-C-38999, paragraph 3.26)

	sistance at 2 C-39029, parag						
Contact & Test Current Millivolt							
Wire Size	(Amps)	Drop (*)					
22D	5	73					
20	7.5	55					
16	13	49					
12	23	42					

Usable wire size:

 (Meets MIL-C-39029, paragraph 3.4.3.1)

 Contact Size
 Accepts (AWG)

 22D
 22-28

 20
 20-24

 16
 16-20

12&14

12 Materials:

Shell — aluminum alloy. Pin contacts — copper alloy. Inserts — plastic; silicone.

Finish:

Shell — O.D. cad over nickel. Contacts — gold over nickel.

Grommet sealing range:

		•••					
(Meets MIL-	Meets MIL-C-39029, paragraph 3.4.3.1) Contact Max. Wire Min. Wire						
Contact	Max. Wire	Min. Wire					
Size	O.D.	O.D.					
22D	.054	.030					
20	.083	.040					
16	.109	.065					
12	.142	.097					

Fluid compatibility:

(Meets MIL-C-38999, paragraph 3.33) Designed to function in all fluids encountered in any modern military or aerospace environment.

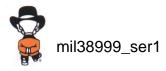
EMI shieldina:

(Meets MIL-C-38999, paragraph 3.31) Effective over a range of 100 MHz to 10 GHz with a minimum 50 dB effectiveness at 10 GHz.

Frequency	Leakage attenuation
MHz	minimum (dB)
100	90
200	88
300	87
400	85
800	85
1,000	85
1,500	69
2,000	65
3,000	61
4,000	58
6,000	55
10,000	50

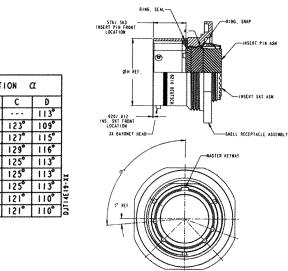
Fluid immersion:

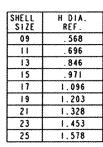
Fluid resistant to many fuels, coolants and solvents per MIL-C-38999.



This information is for reference only. Consult factory for envelope drawings, updated specifications, and additions to the product line.

DEUTSCH DJT SERIES CONNECTORS





SHELL SIZE

09

11

13

15

17

19

21

23

25

N

95°

95

95

95°

95

95

95°

95°

95°

A

77°

81

75°

74°

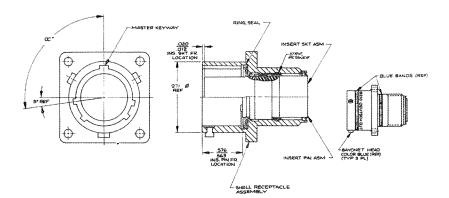
77°

77

770

80°

80°



KEY POSITION

8

- - -

67

63°

61°

65°

65

65°

69°

69°

α

D

113°

¢

.....

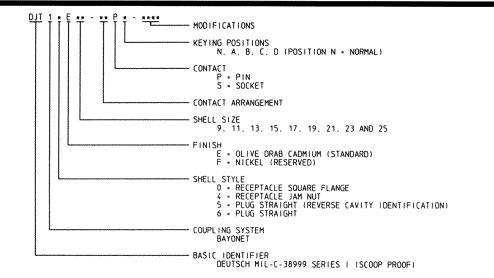
123°

127°

129°

125°

125

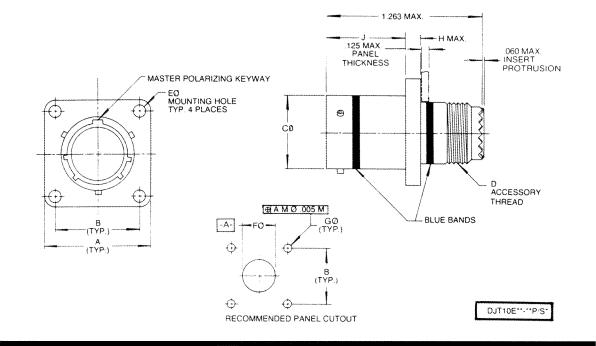


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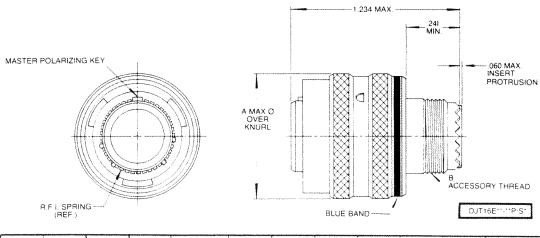


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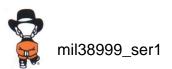
Receptacle Outline Dimensions



Plug Outline Dimensions

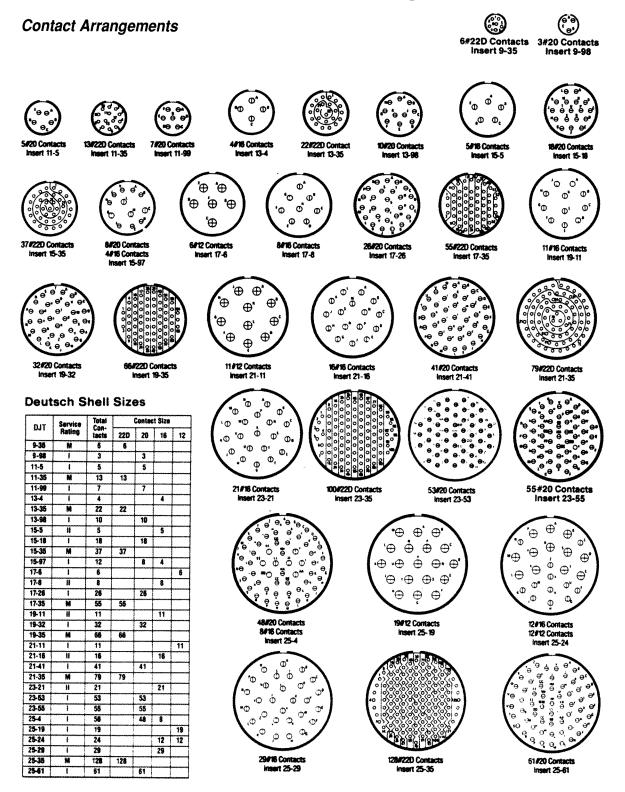


SHELL SIZE	A ± .020	B .± .005	CØ ±.003	D THREAD UNEF-2A	E 0 + .010 005	FØ MIN.	G 0 ± .005	H MAX.	J + .000 005	AØ Max	B THREAD UNEF-2A
9	.938	.719	.570	.4375-28	.128	.516	.128	.100	.032	.859	.4375-28
11	1.031	.812	.698	.5625-24	.128	.664	.128	.100	.632	.984	.5625-24
13	1.125	.906	.848	.6875-24	.128	.750	.128	.100	.632	1.156	.6875-24
15	1.219	.969	.973	.8125-20	.128	.906	128	,100	.032	1.281	, .8125-20
17	1.312	1.062	1.098	.9375-20	.128	1.016	.128	.100	.632	1.406	.9375-20
19	1.438	1.156	1.205	1.0625-18	.128	1.141	.128	.100	.632	1.516	1.0625-18
21	1.562	1.250	1.330	1.1875-18	.128	1.266	.128	.130	.602	1.641	1.1875-18
23	1.688	1.375	1.455	1.3125-18	.147	1.377	.154	130	.ö02	1.766	1.3125-18
25	1.812	1.500	1.580	1.4375-18	.147	1.484	.154	.130	.602	1.891	1.4375-18



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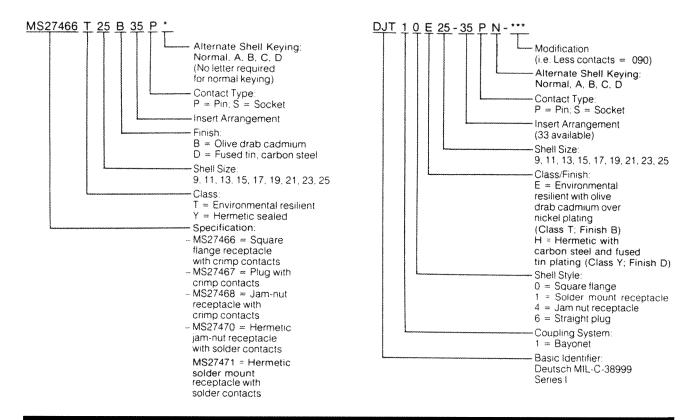
DJT Series Insert Arrangements



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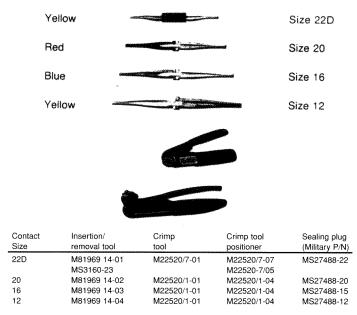


Part Number Cross Reference

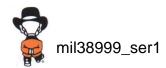


Assembly Tools

Wire/contact assembly tools are standard military type insertion/removal tools found in most assembly areas.



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