



DEUTSCH DTS SERIES CONNECTORS FOR MIL-DTL-38999 SERIES III

RUGGED, HARSH ENVIRONMENT
SUBMINIATURE CONNECTORS

QUICK REFERENCE GUIDE

Wide Range

- Mil spec, commercial, and composite
- Full line of finishes, including black zinc nickel and PTFE nickel

High Performance

- Environmentally sealed

MIL-DTL-38999 Series III Connectors

Coupling Mechanism	Threaded, 360° turn
Shell Materials	Stainless steel Aluminum Composite
Features	Scoop proof Environmentally sealed Hermetic versions Filter versions Spring fingers for EMI control
Shell Platings	Olive drab cadmium Passivated Electroless nickel Electrodeposited nickel Nickel PTFE Black zinc-nickel
No. of Contact Sizes, Std.	23, 22, 20, 16, 12, 10, 8
Shell Sizes	9, 11, 13, 15, 17, 19, 21, 23, 25
No. of Signal Contacts, Max.	187
Contact Type	AS39029
Contact Styles	Crimp Solder cup or eyelet PCB tail
Operating Temperatures	-65°C to +200°C -65°C to +175°C -65°C to +150°C (Depends on shell finish)
Durability (Mating Cycles)	500 (Higher durability versions available)
Standard Configurations	
Plugs	Straight, with EMI spring fingers Lanyard release
Receptacles	Box mounting, both front and rear panel mounting Wall mounting, both front and rear panel mounting Jam nut, rear panel mounting Solder mount Weld mount Through-hole bulkhead

TE Components . . . TE Technology . . . TE Know-how . . .

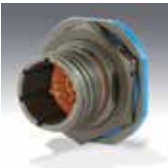
AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH
SEACON Phoenix | L.L. Rowe | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.

DEUTSCH 38999 Series III Connectors

Aluminum • Stainless Steel • Composite

				Commercial Composite	ACT	26	M	D	35	P	N	-6149
				Commercial Al/SS Military	DTS D38999	26 /26	F F	15 D - 35 35	P P	N N	-6149 -L/C	
Commercial Composite	Commercial Alum./Stainless	Military	Description									
RANGE												
ACT	DTS	D38999										
STYLE												
20	20	/20	Square Flange Receptacle									
24	24	/24	Jam Nut Receptacle									
26	26	/26	Straight Plug									
—	13	—	Box Mount Receptacle									
—	20	/21	Hermetic Square Flange Receptacle									
—	24	/23	Hermetic Jam Nut Receptacle									
—	21	/25	Hermetic Solder Flange									
—	23	/27	Hermetic Weld Flange									
CLASS												
ALUMINUM SHELL												
—	F	F	Electroless Nickel Plated (48-hr. Salt Spray)									
—	G	G	Space-Grade Electroless Nickel (48-hr. Salt Spray)									
—	T	T	Nickel PTFE (500-hr. Salt Spray)									
—	W	W	Olive Drab Cadmium (500-hr. Salt Spray)									
—	Z	Z	Black Zinc Nickel (500-hr. Salt Spray)									
COMPOSITE SHELL												
M	—	M	Electroless Nickel Plated (2000-hr. Salt Spray)									
J	—	J	Olive Drab Cadmium (2000-hr. Salt Spray)									
STAINLESS STEEL SHELL												
—	K	K	Passivated S.S., Firewall (500-hr. Salt Spray)									
—	S	S	Electrodeposited Nickel S.S., Firewall (500-hr. Salt Spray)									
—	L	L	Electrodeposited Nickel (48-hr. Salt Spray)									
HERMETIC												
—	Y	Y	Stainless Steel, Passivated									
—	N	N	Stainless Steel, Electrodeposited Nickel Plated									
—	H	H	Space Grade									
SHELL SIZES												
9 (A), 11 (B), 13 (C), 15 (D), 17 (E), 19 (F), 21 (G), 23 (H), 25 (J)				Numbers = DTS Commercial; (Letters) = Military/ACT Commercial								
INSERT ARRANGEMENTS				See Insert Arrangements Table								
CONTACTS												
P, A, H, S, B, J				P = Pin, H = 1500-Cycle Pin S = Socket, J = 1500-Cycle Socket A = Less Pin (with intent to use nonstandard contacts), B = Less Socket (with intent to use nonstandard contacts)								
CONTACTS FOR HERMETIC CONNECTORS												
P, S, C, D, X, Z				P = Pin, Solder Cup, S = Socket, Solder Cup C = PC Tail Pin, D = PC Tail Socket X = Eyelet Pin, Z = Eyelet Socket								
KEYING												
N, A, B, C, D, E, U				N = Normal, U = Universal								
MODIFICATION CODE												
6149 6149 L/C				Less Contacts								



Jam Nut



Plug



MIL-SPEC



Square Flange Receptacle



PCB Type



Lanyard

Insert Arrangements



Insert		Contact Size/Quantity											Includes K Class	Uses 38999/62-8* Boots	Inactive: Superseded by
DTS Commercial	Military (Commercial ACT)	8 Twinax	8 Coax	8 Power	12 Twinax	12 Coax	10	12	16	20	22D	23			
09-07	A7 (A07)										7				
09-23	A23											9			
09-35	A35										6		✓		
09-98	A98									3			✓		
11-02	B2 (B02)								2						
11-04	B4 (B04)									4					
11-05	B5 (B05)									5					
11-23	B23											19			
11-35	B35										13		✓		
11-98	B98									6			✓		
11-99	B99									7			✓		
13-04	C4 (C04)								4						
13-08	C8 (C08)									8			✓		
13-23	C23											32			
13-35	C35										22		✓		
13-98	C98									10			✓		
15-05	D5 (D05)								5				✓		
15-15	D15								1	14					
15-18	D18									18			✓		
15-19	D19									19			✓		
15-23	D23											55			
15-26	D26								2		24				
15-35	D35										37		✓		
15-97	D97								4	8			✓		
17-02	E2 (E02)	1									38				17-03
17-03	E3 (E03)	1									38			✓	
17-06	E6 (E06)							6					✓		
17-08	E8 (E08)								8				✓		
17-11	E11				2	1				8					
17-19	E19								4	11	4				
17-20	E20							4			16				
17-22	E22	2						2							
17-23	E23											73			
17-24	E24			2							22				
17-26	E26									26			✓		
17-35	E35										55		✓		
17-99	E99								2	21			✓		
19-11	F11								11				✓		
19-18	F18	4									14				19-19
19-19	F19	4									14			✓	
19-23	E23											88			
19-28	F28								2	26					



Insert		Contact Size/Quantity													Inactive: Superseded by
DTS Commercial	Military (Commercial ACT)	8 Twinax	8 Coax	8 Power	12 Twinax	12 Coax	10	12	16	20	22D	23	Includes K Class	Uses 38999/62-8* Boots	
19-32	F32									32			✓		
19-35	F35										66		✓		
21-11	G11							11							
21-16	G16								16						
21-20	G20	2								18					
21-23	G23											121			
21-35	G35										79		✓		
21-39	G39								2	37			✓		
21-41	G41									41			✓		
21-48	G48			4											
21-75	G75	4													21-76
21-76	G76	4												✓	
23-06	H6 (H06)	6													
23-21	H21								21						
23-23	H23											151			
23-35	H35										100				
23-53	H53									53			✓		
23-54	H54							4	9		40				
23-55	H55									55					
23-63	H63							4	4		49				
25-04	J4 (J04)								8	48			✓		
25-07	J7 (J07)	2									97				25-09
25-08	J8 (J08)	8													25-10
25-09	J9 (J09)	2									97			✓	
25-10	J10	8												✓	
25-11	J11						9			2					
25-17	J17	6									36				
25-19	J19							19							
25-20	J20	3				4			13	10					25-21
25-21	J21	3				4			13	10				✓	
25-23	J23											187			
25-24	J24							12	12						
25-29	J29								29						
25-35	J35										128		✓		
25-37	J37								37						
25-43	J43								20	23					
25-46	J46		2						4	40					25-47
25-47	J47		2						4	40				✓	
25-61	J61									61			✓		
25-90	J90	2							4	40					25-91
25-91	J91	2							4	40				✓	

Blue shaded entries are not Mil Spec.
Green shading indicates high-density inserts.

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

te.com/support-center

North America	+1 800 522 6752	Asia Pacific	+86 400 820 6015
North America (Toll)	+1 717 986 7777	Japan	044 844 8180
EMEA/South Africa	+800 0440 5100	Australia	+61 2 9554 2695
EMEA (Toll)	+31 73 624 6999	New Zealand	+64 (0) 9 634 4580
India (Toll-Free)	+800 440 5100		

te.com/38999

DEUTSCH, TE, TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.

1-1773860-8 10/16 Original