

**SPACE AND WEIGHT SAVINGS**

- Almost double the contact density of MIL-DTL-38999 connectors
- Lightweight materials

RUGGED

- Threaded anti-vibration coupling
- Scoop-proof interface
- Aggressive fluid resistance and dust ingress prevention

RELIABLE

- Fully sealed cable and mating interface
- EMI screening as per MIL-DTL-38999 Series III
- RFI mating interface band

VERSATILE

- Multiple keying options
- Various plating and material options
- Backshell or cable braid/boot rear feature that help eliminate need for backshell
- Rear-removable crimp and PCB contacts (consult TE for PCB details)

DEUTSCH Wildcat 38999-Style Connectors**Higher Contact Densities in a Familiar MIL-DTL-38999 Form Factor**

Combine high reliability and high contact density in a familiar MIL-DTL-38999 format with Wildcat 38999 connectors. With higher contact density than mil-spec high-density inserts and nearly double the contact density of standard inserts, Wildcat 38999 connectors offer extreme temperature, vibration, and corrosion resistance, and durability of 500 mating cycles in a space-saving design.

The easy-grip coupling ring and triple-start thread make mating and unmating fast and simple.

A variety of material and plating options means versatile choices to match the demands of your application.

ELECTRICAL

- **Dielectric Withstand Voltage:** 1000 VAC
- **Current Rating:** 3 amps/contact

ENVIRONMENTAL

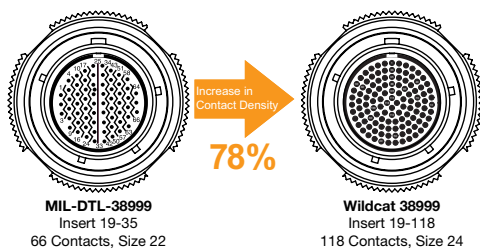
- **Temperature:**
 - 65°C to +175°C (cadmium)
 - 65°C to +200°C (nickel)
- **Durability:** 500 mating cycles min.
- **Vibration:** MIL-DTL-38999 Series III
- **Thermal Shock:** MIL-DTL-38999 Series III
- **Shock:** 300 g, 3 ms in 3 axes
- **Fluid resistance:** Withstands a wide range of military and aerospace fluids
- **Salt spray resistance:**
 - 500 hours (cadmium finish) per MIL-STD-1344 Method 100 B and NFC93422.
 - 48 hours (nickel finish)
- **Sealing:** Up to 30,000 m/100,000 ft. altitude



MATERIALS

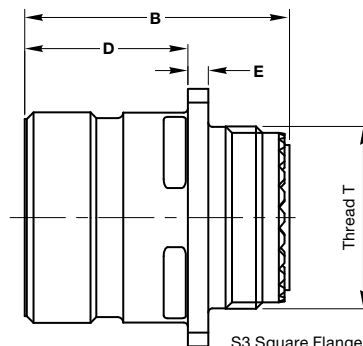
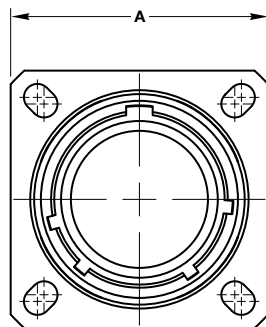
- **Shell and Coupling Ring:** Aerospace grade aluminum alloy as standard
- **Plating:** Olive drab cadmium, RoHS electroless nickel, black zinc nickel (other finishes available on request)
- **Seals:** Fluorinated silicone
- **Insulators:** High-performance thermoplastic
- **Contacts:** Gold-plated machined copper alloy
- **Wire Size:** 28 to 24 AWG

Wildcat 38999-Style Connectors

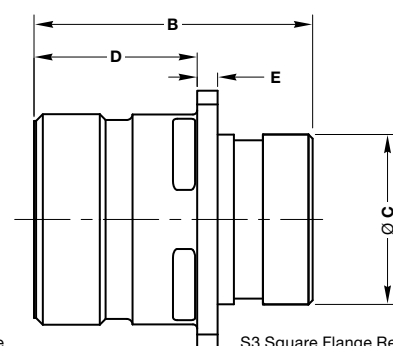


MIL-DTL-38999				DEUTSCH Wildcat 38999	
Standard Density Size 22D Contacts		High Density Size 23 Contacts		High Density Size 24 Contacts	
Insert	No. of Contacts	Insert	No. of Contacts	Insert	No. of Contacts
9-35	6	9-23	9	09-11	11
11-35	13	11-23	19	11-23	23
13-35	22	13-23	32	13-41	41
15-35	37	15-23	55	15-64	64
19-35	66	19-23	88	19-118	118

Square Flange Receptacle: Shell Type 0



S3 Square Flange Receptacle
Shell Type 20



S3 Square Flange Receptacle
Shell Type 10

Square Flange Receptacle with Accessory Thread

Shell Size	A Max.	B Max.	D Max.	E Max.	Thread 'T'
09	24.00 .945				M12 x 1.0-6g
11	26.40 1.039	31.55 1.242	19.90 .783	2.50 .098	M15 x 1.0-6g
13	28.90 1.138				M18 x 1.0-6g
15	31.30 1.232				M22 x 1.0-6g

Millimeters Inches

Consult TE for further information on 19-118 connectors

Square Flange Receptacle with Knurled Rear

Shell Size	A Max.	B Max.	C Max.	D Max.	E Max.
09	24.00 .945		11.30 .445		
11	26.40 1.039	33.80 1.331	14.35 .565	19.90 .783	2.50 .098
13	28.90 1.138		17.50 .689		
15	31.30 1.232		20.65 .813		

Millimeters Inches

Consult TE for further information on 19-118 connectors

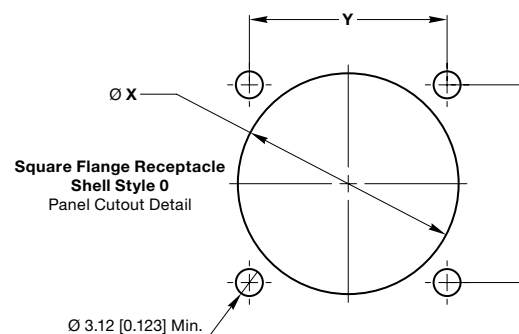


Wildcat 38999-Style Connectors

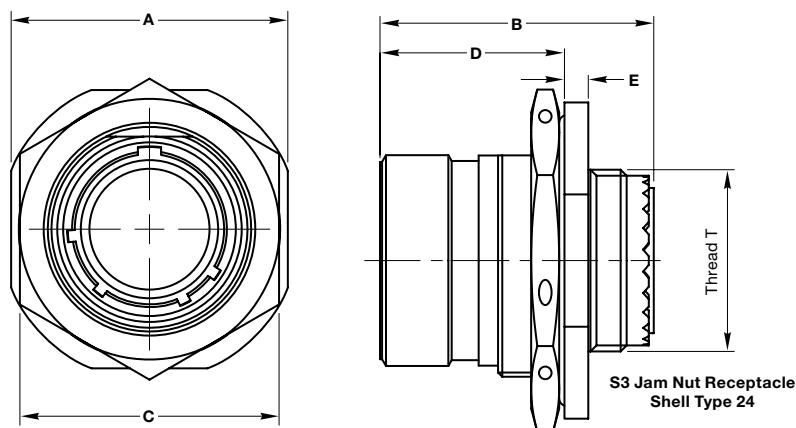
Square Flange Receptacle Panel Cutouts

Shell Size	ØX		Y	
	Front Mount	Rear Mount	Max.	Min.
09	13.11 .516	16.66 .656	18.26 .719	15.09 .594
11	15.08 .594	22.22 .875	20.26 .798	18.26 .719
13	19.05 .750	23.42 .922	23.01 .906	20.62 .812
15	23.01 .906	26.59 1.047	24.61 .969	23.01 .906

Millimeters Inches



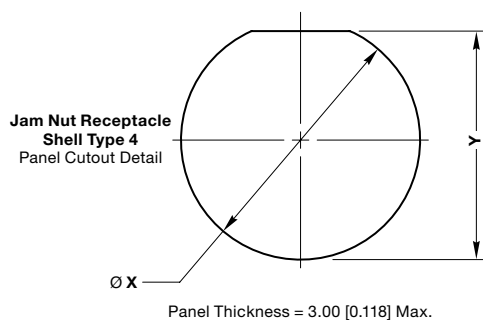
Jam Nut Receptacle: Shell Type 4



Shell Size	A Max.	B Max.	C Max.	D Max.	E Max.	Thread 'T'
09	27.20 1.071		23.25 .915			M12x1.0-6g
11	32.00 1.260	32.55 1.281	26.30 1.035	22.40 .882	2.95 .116	M15x1.0-6g
13	35.10 1.382		32.00 1.260			M18x1.0-6g
15	38.30 1.508		36.00 1.417			M22x1.0-6g

Millimeters Inches

Consult TE for further information on 19-118 connectors



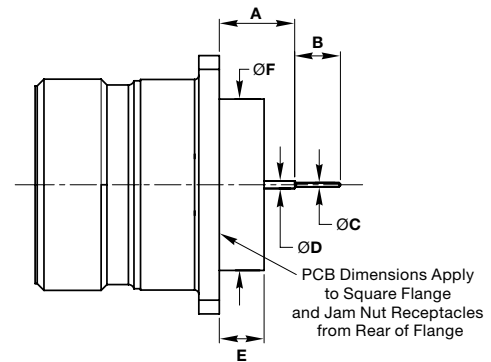


Wildcat 38999-Style Connectors

Jam Nut Receptacle Panel Cutouts

Shell Size	ØX (±.01)	Y (±.01)
09	17.80 .700	16.89 0.665
11	20.98 .826	19.43 .765
13	25.68 1.011	24.16 .951
15	28.90 1.138	27.43 1.080

Millimeters Inches

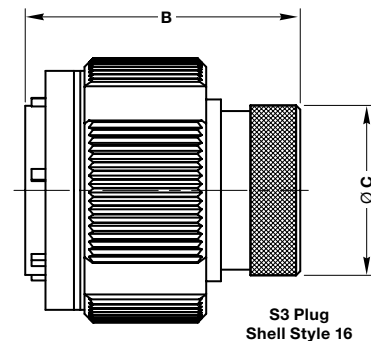
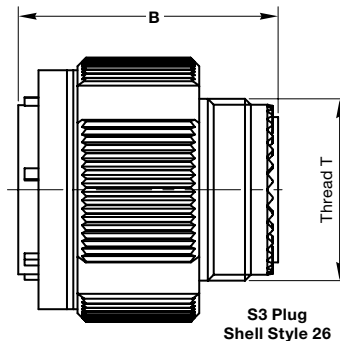
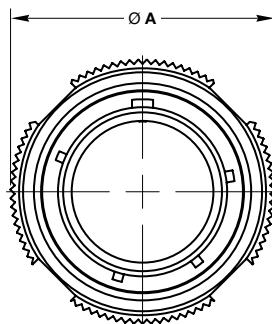


PCB Tail Dimensions

Layout	Part No. Option Code	Shell Accessory	Part No.		A		B Max.	ØC Max.	ØD Max.	E Max.	ØF Max.	
			Pins	Sockets	Max.	Min.					Shell Size	SØ Max.
09-11 11-23 13-41 15-64 19-118	-151	W320	611624-31	611625	11.73 .462	10.73 .422	5.55 .219	.60 .024	1.00 .039	5.74 .226	09	11.07 .436
	-151	W324	611556-31	611627	9.73 .383	8.73 .344	5.55 .219	.60 .024	1.00 .039	5.74 .226	11	14.33 .564
	-151	W330	Potted	Potted	9.73 .383	8.73 .344	5.55 .219	.60 .024	1.00 .039	5.74 .226	13	17.42 .686
	-151	W334	Potted	Potted	6.73 .265	5.73 .226	5.55 .219	.60 .024	1.00 .039	5.74 .226	15	20.57 .810

Millimeters Inches

Free Plug: Shell Type 6



Plug with Accessory Thread

Shell Size	ØA Max.	B Max.	Thread 'T'
09	21.30 .839	31.10 1.224	M12x1.0-6g
11	23.75 .935		M15x1.0-6g
13	29.10 1.146		M18x1.0-6g
15	32.30 1.272		M22x1.0-6g

Millimeters Inches

Consult TE for further information on 19-118 connectors

Plug with Knurled Rear

Shell Size	ØA Max.	B Max.	ØC Max.
09	21.30 .839	33.30 1.311	11.30 .445
11	23.75 .935		14.35 .565
13	29.10 1.146		17.50 .689
15	32.30 1.272		27.00 1.063

Millimeters Inches

Consult TE for further information on 19-118 connectors



Wildcat 38999-Style Connectors

CONTACTS

Contact		Current Rating	Wire Size (AWG)	Conductor		Wire Sealing Range	
Pin	Socket			Min. Ø	Max. Ø	Min. Ø	Max. Ø
605719-31	605721	3 A	24-28	.254 .010	.511 .020	.600 .024	.96 .038

Millimeters Inches

Filler Plug: Part No. 800300-24

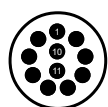
TOOLING

Ins/Ext Tool	Crimp Tool	Positioner	
		Pin	Socket
605837	M22520/ 2-01	610286	610287

Contact Arrangement

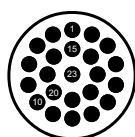
(Viewed from the mating face of a connector with male (pin) contacts)

Shell Size 09



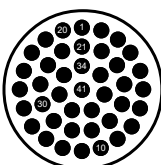
09-11

Shell Size 11



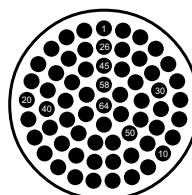
11-23

Shell Size 13



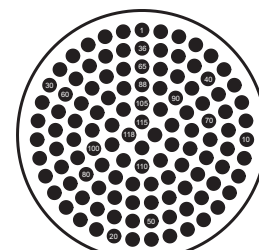
13-41

Shell Size 15



15-64

Shell Size 19



19-118

ACCESSORIES

Protective Caps and Backshells

Wildcat 38999 connectors are compatible with MIL-DTL-38999 Series III style backshells and procaps or equivalent.

Raychem Heat-Shrink Boots

Shell Size	Straight Boot	90° Boot
09	202K121	222K121
11	202K132	222K121
13	202K142	222K132
15	202K142	222K142
19	202K153	222K152

CRES-Lock Bandstraps



Easy to Use

- Quick, easy, cost-effective and reliable termination of braided shielding

High Performance

- Low profile, one-piece design helps eliminate EMI leakage paths

Rugged

- Shock, vibration and environmental performance to help meet aerospace and defense requirements



Wildcat 38999-Style Connectors

ORDERING INFORMATION

PART NUMBERING SYSTEM	W3	1	6	T	W	09-11	S	N -	****
SERIES _____									
Wildcat 38999									
SHELL REAR ACCESSORY _____									
1 Braid and Boot Mounting Feature									
2 Rear Accessory Thread, Anti-rotation Teeth									
3 No Accessory (e.g., Box Mount)									
SHELL TYPE _____									
0 Square Flange Receptacle									
4 Jam Nut Receptacle									
6 Free Plug									
7 Reduced Jam Nut Flange Receptacle									
COUPLING TYPE _____									
T Triple-start ACME Thread									
B Bayonet (Consult TE on Availability)									
CLASS CODE _____									
W Aluminum with Olive Drab Cadmium									
F Aluminum with Electroless Nickel									
Z Aluminum with Black Zinc Nickel									
K Stainless Steel									
SHELL SIZE—INSERT ARRANGEMENT _____									
09-11 Shell Size 9, 11 Way									
11-23 Shell Size 11, 23 Way									
13-41 Shell Size 13, 41 Way									
15-64 Shell Size 15, 64 Way									
19-118 Shell Size 19, 118 Way (Consult TE on Availability)									
CONTACT TYPE _____									
P Pin (Male)									
S Socket (Female)									
KEYING _____									
N Normal									
U Universal									
A, B, C, D, E									
OPTION CODE (3 DIGITS) OR MODIFICATION CODE _____									
090 Supplied without Contacts									
51 PCB Contacts									