



### 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

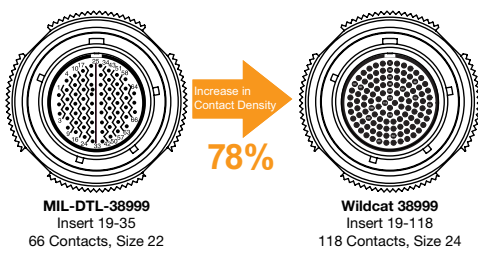
- **Temperature:**
  - 65°C to +175°C (cadmium)
  - 65°C to +200°C (nickel)
- **Durability:** 500 mating cycles min.
- **Vibration:** MIL-DTL-38999 Series III
- **Thermal Shock:** MIL-DTL-38999 Series III
- **Shock:** 300 g, 3 ms in 3 axes
- **Fluid resistance:** Withstands a wide range of military and 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

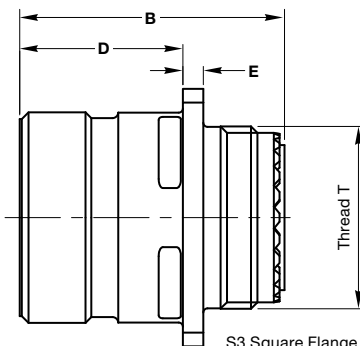
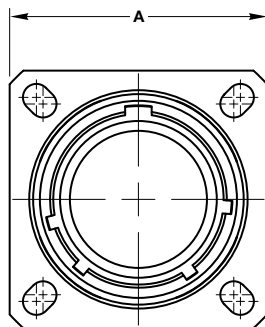
- **Shell and Coupling Ring:** Aerospace grade aluminum alloy as standard
- **Plating:** Olive drab cadmium, RoHS electroless nickel, black zinc nickel (other finishes available on request)
- **Seals:** Fluorinated silicone
- **Insulators:** High-performance thermoplastic
- **Contacts:** Gold-plated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

## Wildcat 38999-Style Connectors

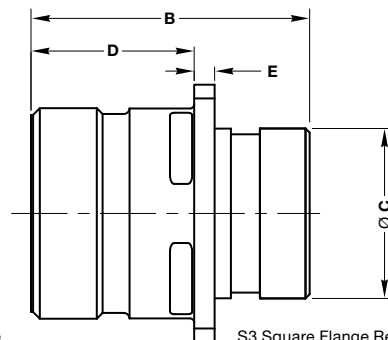


MIL-DTL-38999				DEUTSCH Wildcat 38999	
Standard Density Size 22D Contacts		High Density Size 23 Contacts		High Density Size 24 Contacts	
Insert	No. of Contacts	Insert	No. of Contacts	Insert	No. of Contacts
9-35	6	9-23	9	09-11	11
11-35	13	11-23	19	11-23	23
13-35	22	13-23	32	13-41	41
15-35	37	15-23	55	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	<b>24.00</b> .945				M12 x 1.0-6g
11	<b>26.40</b> 1.039	<b>31.55</b> 1.242	<b>19.90</b> .783	<b>2.50</b> .098	M15 x 1.0-6g
13	<b>28.90</b> 1.138				M18 x 1.0-6g
15	<b>31.30</b> 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	<b>24.00</b> .945		<b>11.30</b> .445		
11	<b>26.40</b> 1.039	<b>33.80</b> 1.331	<b>14.35</b> .565	<b>19.90</b> .783	<b>2.50</b> .098
13	<b>28.90</b> 1.138		<b>17.50</b> .689		
15	<b>31.30</b> 1.232		<b>20.65</b> .813		

Millimeters Inches

Consult TE for further information on 19-118 connectors

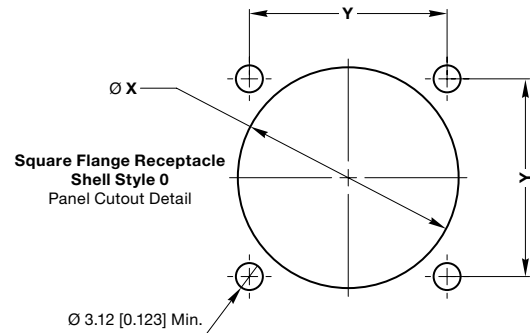


## Wildcat 38999-Style Connectors

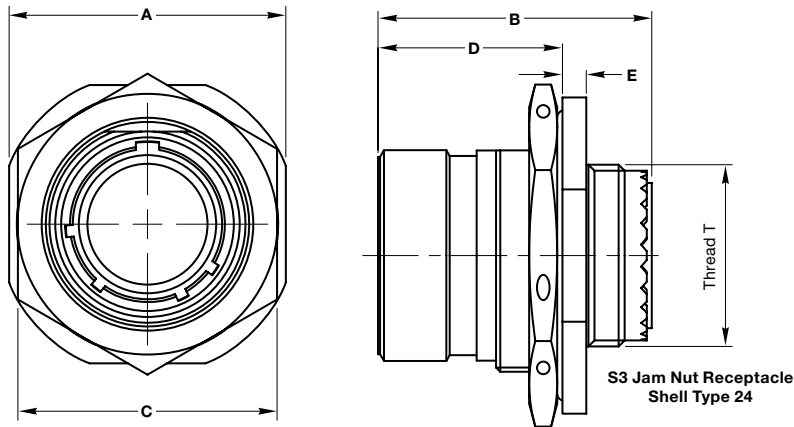
### Square Flange Receptacle Panel Cutouts

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

Millimeters Inches



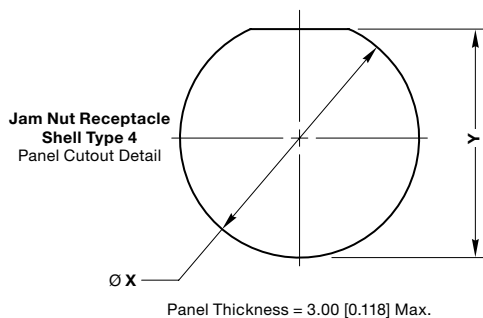
### Jam Nut Receptacle: Shell Type 4



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

Millimeters Inches

Consult TE for further information on 19-118 connectors



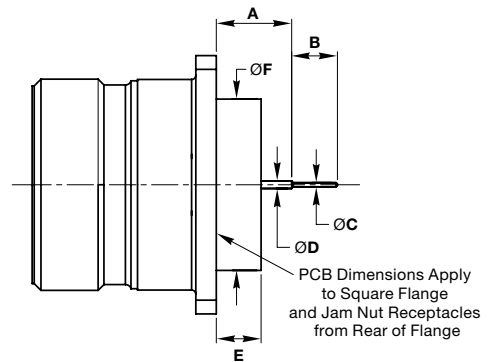


## Wildcat 38999-Style Connectors

### Jam Nut Receptacle Panel Cutouts

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

Millimeters Inches

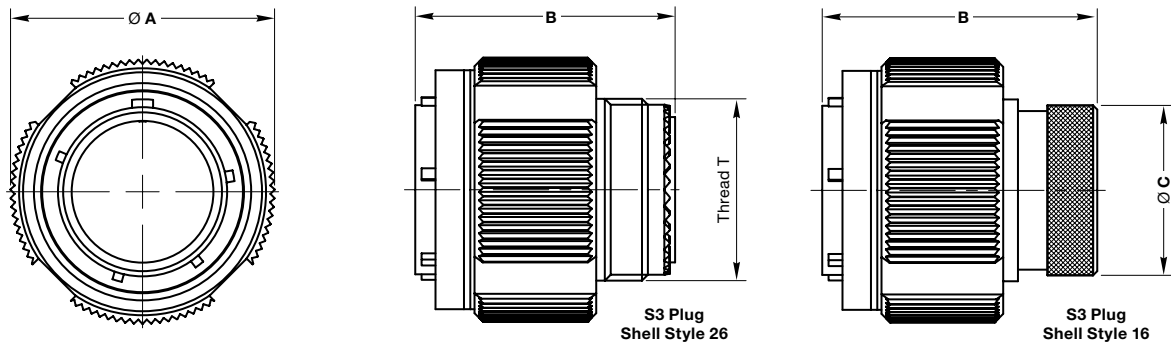


### PCB Tail Dimensions

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	<b>11.73</b> .462	<b>10.73</b> .422	<b>5.55</b> .219	<b>.60</b> .024	<b>1.00</b> .039	<b>5.74</b> .226	09	<b>11.07</b> .436
	-151	W324	611556-31	611627	<b>9.73</b> .383	<b>8.73</b> .344	<b>5.55</b> .219	<b>.60</b> .024	<b>1.00</b> .039	<b>5.74</b> .226	11	<b>14.33</b> .564
	-151	W330	Potted	Potted	<b>9.73</b> .383	<b>8.73</b> .344	<b>5.55</b> .219	<b>.60</b> .024	<b>1.00</b> .039	<b>5.74</b> .226	13	<b>17.42</b> .686
	-151	W334	Potted	Potted	<b>6.73</b> .265	<b>5.73</b> .226	<b>5.55</b> .219	<b>.60</b> .024	<b>1.00</b> .039	<b>5.74</b> .226	15	<b>20.57</b> .810

Millimeters Inches

### Free Plug: Shell Type 6



### Plug with Accessory Thread

Shell Size	ØA Max.	B Max.	Thread 'T'
09	<b>21.30</b> .839	<b>31.10</b> 1.224	M12x1.0-6g
11	<b>23.75</b> .935		M15x1.0-6g
13	<b>29.10</b> 1.146		M18x1.0-6g
15	<b>32.30</b> 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	<b>21.30</b> .839	<b>33.30</b> 1.311	<b>11.30</b> .445
11	<b>23.75</b> .935		<b>14.35</b> .565
13	<b>29.10</b> 1.146		<b>17.50</b> .689
15	<b>32.30</b> 1.272		<b>27.00</b> 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

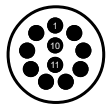
### TOOLING

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

### Contact Arrangement

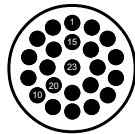
(Viewed from the mating face of a connector with male (pin) contacts)

Shell Size 09



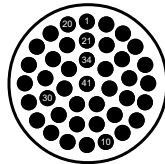
09-11

Shell Size 11



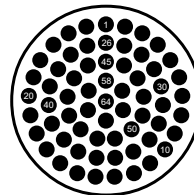
11-23

Shell Size 13



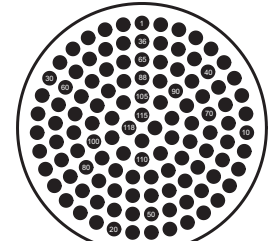
13-41

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

