



DEUTSCH Lightweight Bulkhead Feedthroughs

High-Power Connectors for Harsh Environment Applications Requiring Up to 500 A Power and MIL-DTL-38999 Style Housings

DEUTSCH Lightweight Bulkhead Feedthroughs

High-Power Connectors that Reduce Weight Up to 50%

WEIGHT-SAVING DESIGN

- Aluminum contacts are up to 50% lighter than equivalent TE Connectivity's (TE's) standard offering on male terminal

COMPATIBLE

- Utilizes industry standard MIL-DTL-38999 mounting dimensions
- No special tooling required

HIGH PERFORMANCE

- Current handling capabilities up to 500 amps AC
- 600 VAC dielectric withstand voltage
- -55°C to +125°C temperature range
- High-corrosion-resistant options available

VERSATILE

- Customizable for electromagnetic interference (EMI) and/or electromagnetic pulse (EMP) protection
- Plating options include cadmium, zinc nickel, and nickel
- Square flange and jam nut panel mounting options

APPLICATIONS

- Commercial Aerospace
- Military Aerospace
- Military Ground Vehicles

Light Weight, High Performance

We know every ounce saved can mean more equipment capabilities or longer flight times, and working with industry standard footprints can save time and lower costs.

Our new lightweight bulkhead feedthroughs are up to 50% lighter than the existing TE standard male terminal feedthroughs. Available in shell sizes 17 and 23, our lightweight feedthroughs share standard MIL-DTL-38999 mounting dimensions.

Powerful Solutions

Rated for currents to 500 amps, and with a broad temperature range, these bulkhead feedthroughs offer an effective lightweight, harsh-environment method of connecting electrical power through an equipment bulkhead. They are ideally suited for power distribution systems in commercial and military aircraft, as well as military land vehicles.

Specifications

MATERIALS

- **Shell:** Aluminum
- **Plating:**
 - Olive drab cadmium
 - Electroless nickel
 - Black zinc nickel
- **Termini:**
 - Silver-plated aluminum threaded terminals, standard
 - Silver-plated copper alloy threaded terminals, available

MECHANICAL/ENVIRONMENTAL

- **Temperature Range:** -55°C to +125°C
- **Shell Sizes:** 17 and 23
- **Contact Sizes:** 3/8" (#18) and 1/2" (#16)
- **Mounting:** Square flange and jam nut
- **Mounting Positions:** Based on MIL-DTL-38999
- **Recommended Torque:**
 - 3/8" (#18): 21.7 Nm
 - 1/2" (#16): 40.0 Nm

ELECTRICAL

- **Current:** Up to 500 A
- **Dielectric Withstanding Voltage:** 600 VAC

STANDARDS AND SPECIFICATIONS

- **Product Specification:** 108-163005
- **Additional Documentation:** C-612466-XX-X, C-612467-XX-X, and C-6-9918-XX-X (filtered version)

Please consult TE for washers, nuts and crimp eyelets.

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

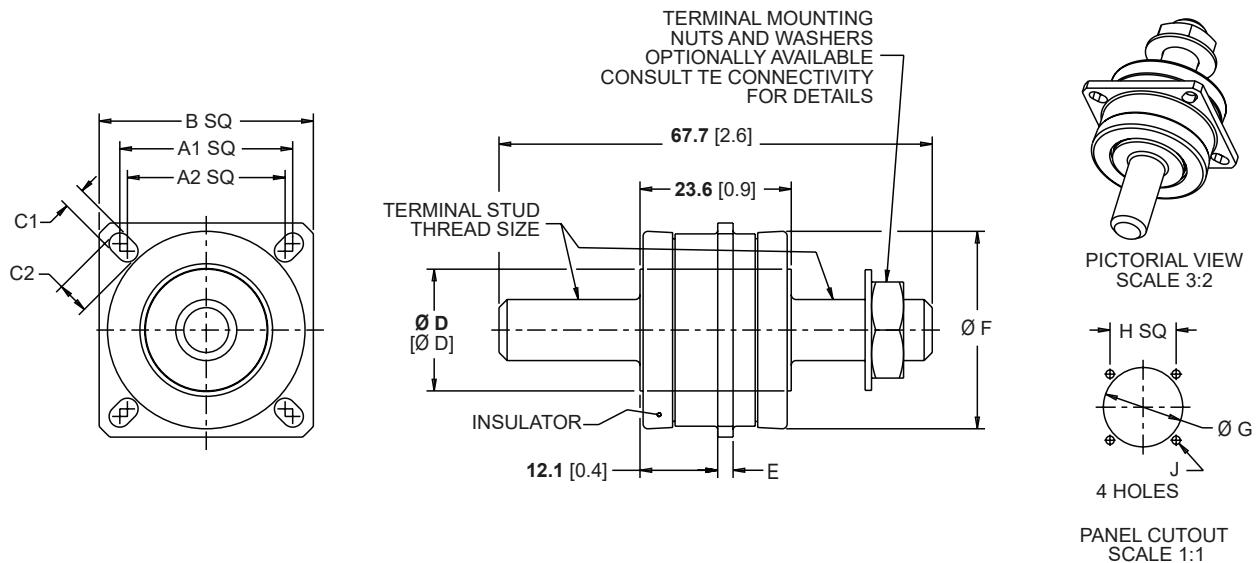
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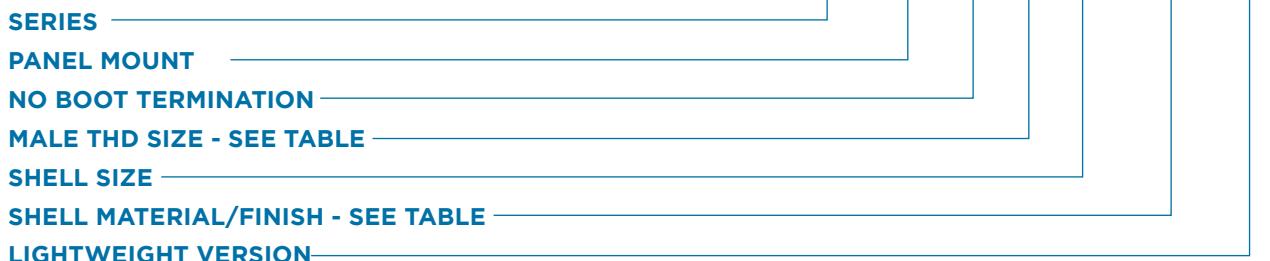
Square Flange Feedthrough



Shell Size	A1	A2	B	C1	C2	$\emptyset D$	$\emptyset E$	$\emptyset F$	$\emptyset G$ Min.	$\emptyset H$	$\emptyset J$	Terminal Stud Thread Size	Terminal Torque Value
17	26.9 1.0	24.6 0.9	33.3 1.3	3.2 0.1	4.9 0.1	19 0.7	2.3 0.1	30.8 1.2	30.9 1.2	25.8 1.0	3.2 0.1	3/8" - 16 UNC	21.7 Nm
23	34.9 1.3	31.7 1.2	42.9 1.6	3.8 0.1	6.1 0.2	28.9 1.1	3.0 0.1	38.7 1.5	39.2 1.5	33.3 1.3	3.9 0.1	1/2" - 13 UNC	40.0 Nm

Millimeters Inches

Part Numbering System

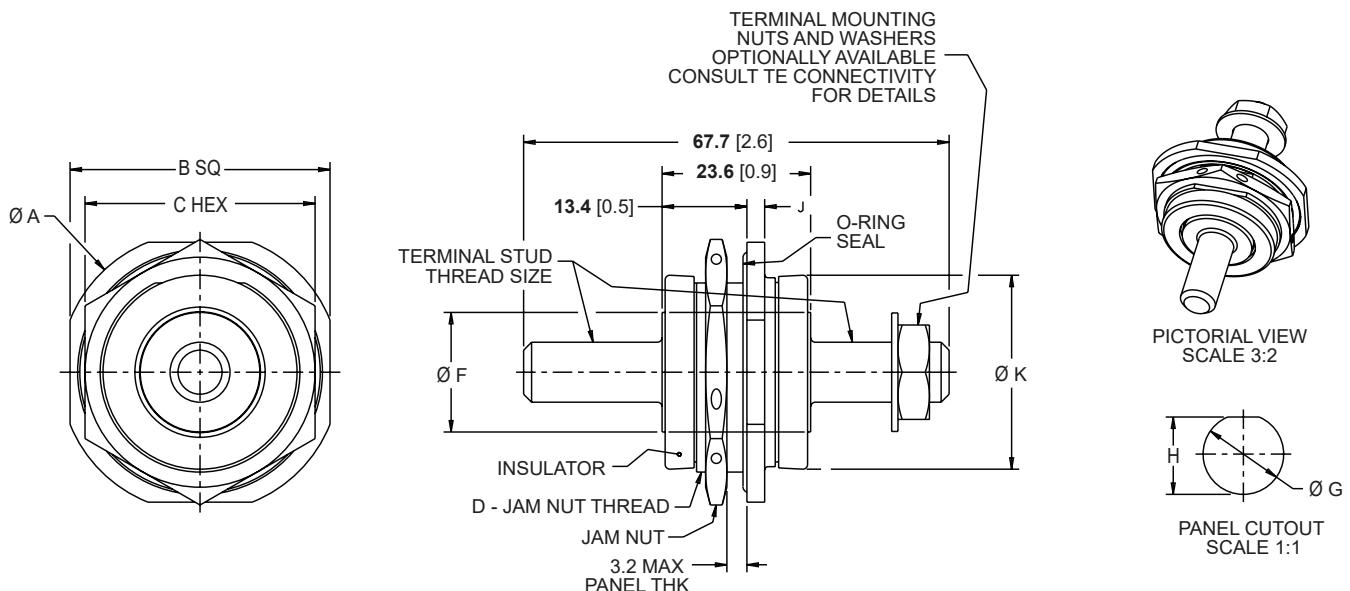


Code	Material/Finish*
1-C	Aluminum/Electroless Nickel
1-B	Aluminum/Cadmium Olive Drab Over Electroless Nickel
1-ZN	Aluminum/Zinc Nickel Black Passivate Over Electroless Nickel

*Note: Incomplete list; Consult te.com for complete list.



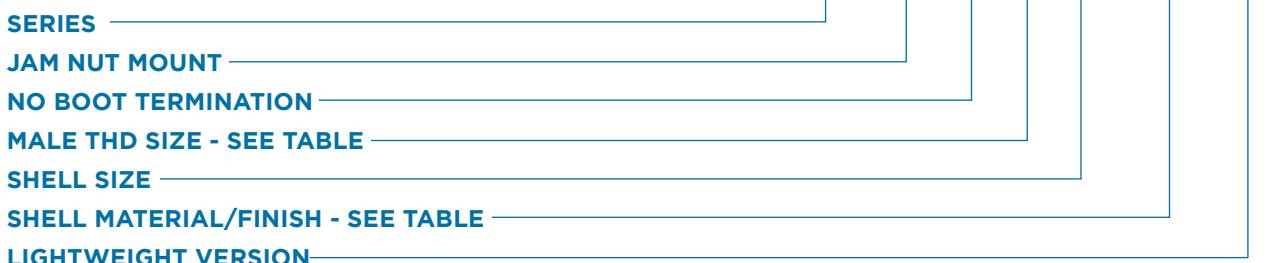
Jam Nut Feedthrough



Shell Size	A	B	C	D Jam Nut Thread	ØF	ØG	H	J	ØK	Terminal Stud Thread Size	Terminal Torque Value
17	44.5 1.7	41.3 1.6	36.1 1.4	M32 x 1.0	19.0 0.7	32.0 1.2	30.7 1.2	2.8 0.1	30.8 1.2	3/8" - 16 UNC	21.7 Nm
23	55.6 2.1	52.4 2.0	49.6 1.9	M41 x 1.0	28.9 1.1	41.5 1.6	40.2 1.5	3.6 0.1	38.7 1.5	1/2" - 13 UNC	40.0 Nm

Millimeters Inches

Part Numbering System

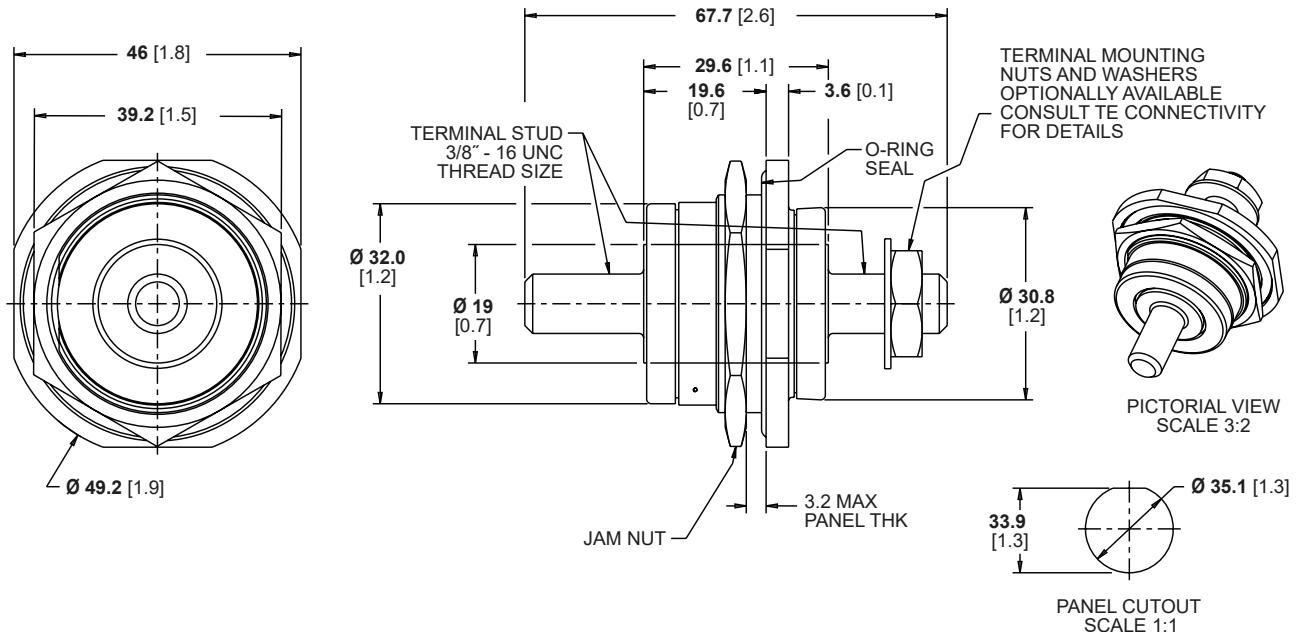


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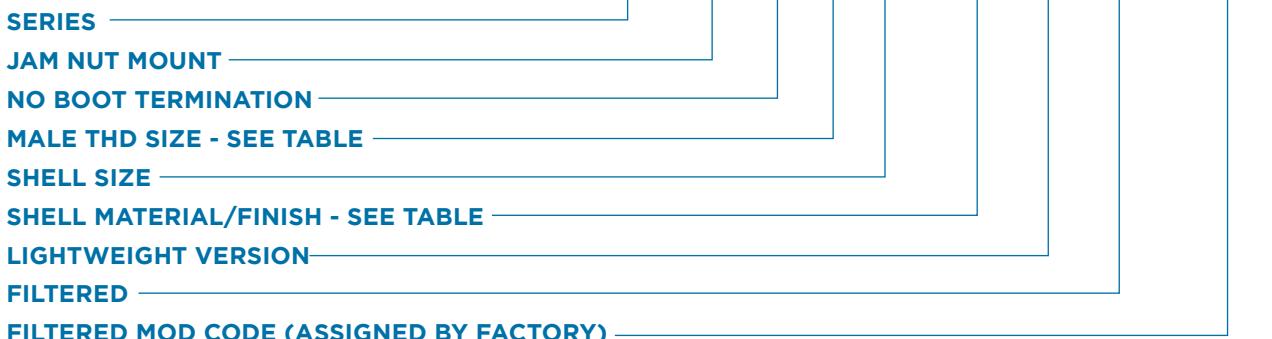
*Note: Incomplete list; Consult te.com for complete list.



Jam Nut Feedthrough, Filtered



Part Numbering System



Please consult TE Connectivity with EMI and or EMP filtering requirements.

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1-ZN	Aluminum/Zinc Nickel Black Passivate Over Electroless Nickel

*Note: Incomplete list; Consult te.com for complete list.

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te.com/bulkhead-feedthrough

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Consult TE for the latest dimensions and design specifications.

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