



# 177-705H Solder Cup or PC Tail and 177-706H Insulated Wire Micro-D Hermetic Connectors Rear Panel Mount



**MATES WITH ALL 83513 Pin Connectors**

**Fluorosilicone O-Ring** eliminates the cost of soldering the connector to a bulkhead.

**Kovar® Shells and Contacts** comply with applicable MIL-DTL-83513 requirements and are 100% intermateable with standard connectors.

**Solder Cup, PC Tail or Pre-Wired and Fully Potted** Suitable for #26 gage wire or smaller, solder cup versions feature gold-plated contacts. Choose PC tails for attachment to flex circuits or rigid boards. Solder cup versions are also available pre-wired and potted.

### How To Order Hermetic Micro-D Connectors with Solder Cup or PC Tail

<b>Sample Part Number</b>	<b>177-705 H 15 SS U -V</b>
<b>Series</b>	<b>177-705H</b> Hermetic Micro-D
<b>Number of Contacts</b>	<b>9, 15, 21, 25, 31, 37, 51-2, 51, 100</b> (Table I)
<b>Contact Type</b>	<b>SS</b> - Solder Cup, Socket <b>SP</b> - PC Tail, Socket
<b>Mounting Threads</b>	<b>U</b> - #4 - 40 UNC <b>M</b> - M3 Metric <b>A</b> = #2-56 UNC
<b>O-Ring Material</b>	<b>C, E, V, N, S, B, K</b> ; Omit for standard fluorosilicone (See Table II)

### How To Order Hermetic Micro-D Connectors with Insulated Wire

<b>Sample Part Number</b>	<b>177-706H 31 S 6 K 1 -30 M -V</b>
<b>Series</b>	<b>177-706H</b> Hermetic Micro-D
<b>Number of Contacts</b>	<b>9, 15, 21, 25, 31, 37, 51-2, 51, 100</b> (Table I)
<b>Contact Type</b>	<b>S</b> - Socket Contacts, Pre-Wired
<b>Wire Gage (AWG)</b>	<b>6</b> - #26 <b>8</b> - #28 <b>0</b> - #30
<b>Wire Type</b>	<b>K</b> - M22759/11 600 Vrms Fluoropolymer (TFE) (Not Available in #30 AWG) <b>J</b> - M22759/33 600 Vrms Modified Cross-Linked Tefzel (ETFE)
<b>Wire Color</b>	<b>1</b> - White, <b>2</b> - Yellow, <b>5</b> - Color-Coded Stripes Per MIL-STD-681 (#26 gage only) <b>7</b> - Ten Color Repeat
<b>Wire Length Inches</b>	Wire Length In Inches. " <b>30</b> " Specifies 30 Inches.
<b>Mounting Threads</b>	<b>A</b> = #2-56 UNC <b>M</b> = M3 <b>Omit</b> for #4-40 UNC
<b>O-Ring Material</b>	<b>C, E, V, N, S, B, K</b> ; Omit for standard fluorosilicone (See Table II)

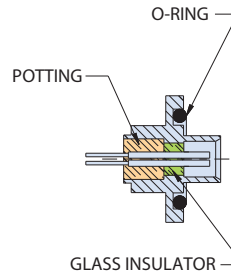
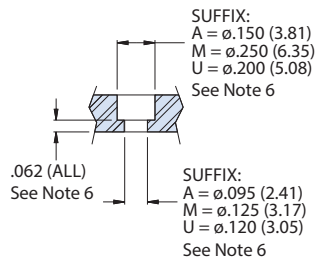
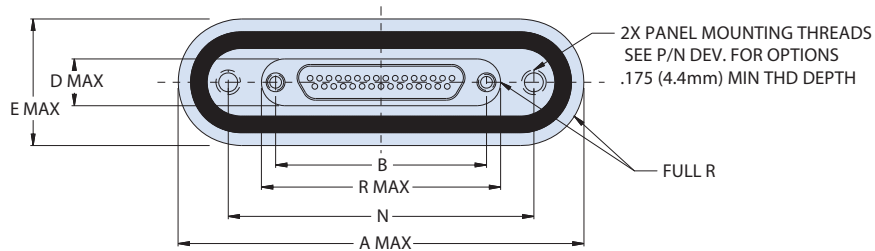
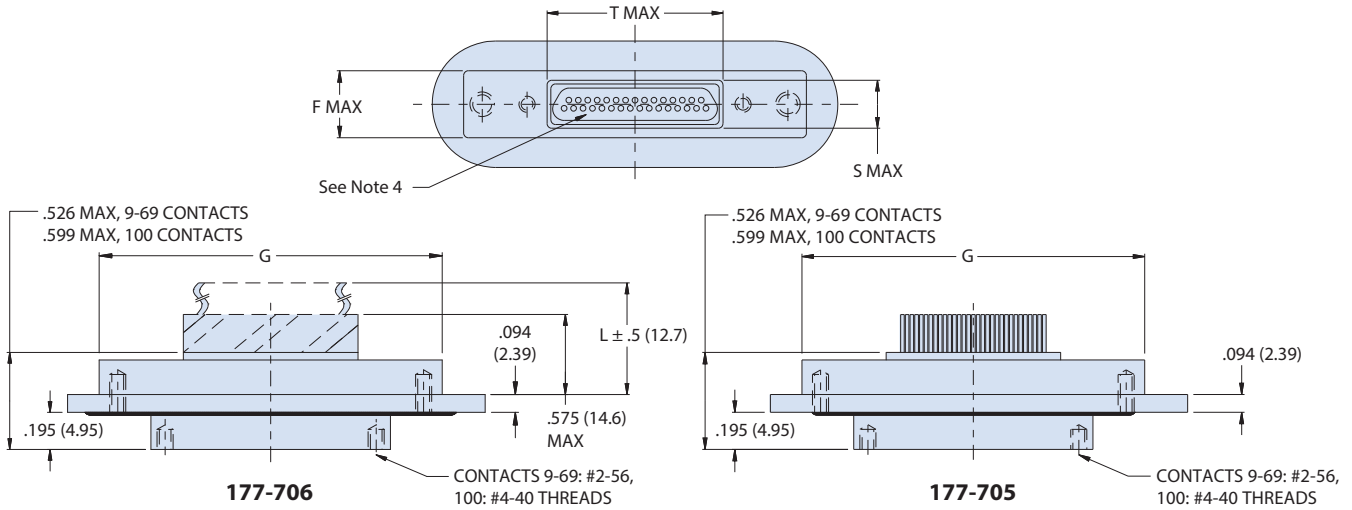
Table II

Designator	Material
<b>C</b>	Fluorosilicone, Conductive (CHOSEAL 1298)
<b>E</b>	EPDM (Ethylene-Propylene)
<b>V</b>	Viton (Fluorocarbon; FKM)
<b>N</b>	Nitrile (Buna-N)
<b>S</b>	Silicone (ZZ-R-765)
<b>B</b>	Butyl Rubber (IIR)
<b>K</b>	Kalrez (FFKM)

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Micro-D  
Hermetic



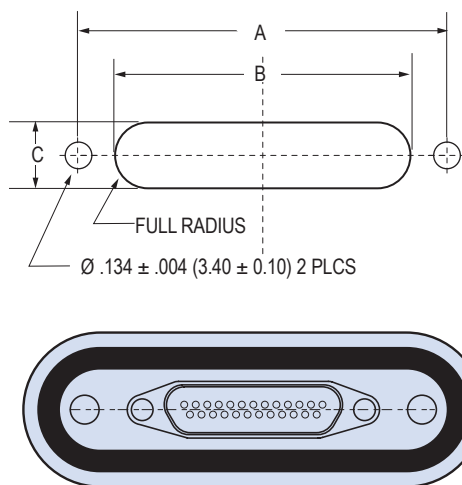
DIMENSIONS										
LAYOUT	A MAX	B	D MAX	E MAX	F MAX	G	N	R MAX	S MAX	T MAX
<b>9</b>	1.488 (37.80)	0.565 (14.35)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.254 (31.85)	1.011 (25.68)	0.728 (18.49)	0.275 (6.99)	0.410 (10.41)
<b>15</b>	1.638 (41.61)	0.715 (18.16)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.414 (35.92)	1.161 (29.49)	0.878 (22.30)	0.275 (6.99)	0.540 (13.72)
<b>21</b>	1.788 (45.42)	0.865 (21.97)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.564 (39.73)	1.311 (33.30)	1.028 (26.11)	0.275 (6.99)	0.710 (18.03)
<b>25</b>	1.888 (47.96)	0.965 (24.51)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.664 (42.27)	1.411 (35.84)	1.128 (28.65)	0.275 (6.99)	0.810 (20.57)
<b>31</b>	2.038 (51.77)	1.115 (28.32)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.814 (46.08)	1.561 (39.65)	1.278 (32.46)	0.275 (6.99)	0.955 (24.26)
<b>37</b>	2.188 (55.58)	1.265 (32.13)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	1.984 (50.39)	1.711 (43.46)	1.428 (36.27)	0.275 (6.99)	1.095 (27.81)
<b>51-2 (2 ROW)</b>	2.538 (64.47)	1.615 (41.02)	0.250 (6.35)	0.675 (17.15)	0.358 (9.09)	2.334 (59.28)	2.061 (52.35)	1.778 (45.16)	0.275 (6.99)	1.650 (41.91)
<b>51 (3 ROW)</b>	2.138 (54.31)	1.215 (30.86)	0.310 (7.87)	0.715 (18.16)	0.398 (10.11)	1.920 (48.77)	1.661 (42.19)	1.378 (35.00)	0.295 (7.49)	1.095 (27.81)
<b>100</b>	2.820 (71.63)	1.800 (45.72)	0.330 (8.38)	0.795 (20.19)	0.555 (14.10)	2.569 (65.25)	2.312 (58.72)	2.002 (50.85)	0.355 (9.02)	1.675 (42.55)

H



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Table II: Panel Cutout Dimensions for 177-705 and 177-706



H

Layout	A		B		C	
	In. ± .003	mm. ± 0.08	In. +.005/-0.0	mm. +0.13/-0.0	In. +.005/-0.0	mm. + 0.13/-0.0
9	1.011	25.69	.731	18.56	.252	6.40
15	1.161	29.50	.881	22.37	.252	6.40
21	1.311	33.31	1.031	26.18	.252	6.40
25	1.411	35.85	1.131	28.72	.252	6.40
31	1.561	39.66	1.281	32.53	.252	6.40
37	1.711	43.47	1.431	36.34	.252	6.40
51-2 (2 ROW)	2.061	52.35	1.781	45.24	.252	6.40
51 (3 ROW)	1.661	42.19	1.381	35.08	.310	7.87
100	2.312	58.72	2.005	50.93	.330	8.38

**NOTES:**

For panel thickness greater than .062 (1.57) thick, the mounting holes for -100 must be counter-bored as shown when mating connector has a backshell to prevent interference. Diameters shown are for socket-head cap screws. User to adjust for different screw type.

