AS85049/45 and MS27663-1
Straight Composite Non-Self-Locking Strain Relief

CONNECTOR DESIGNATOR:	
F	MIL-DTL-38999 Series I and II

Basic Part Number: M85049/45

Dash No.: 10

Finish: W

Finish
A = Anodize, Black
W = 1,000 Hour Cadmium Olive Drab over Electroless Nickel
X = Nickel Fluorocarbon Polymer
Y = Pure Dense Electrodeposited Aluminum
Z = Zinc-Nickel, Black

Superseded Part Number

MS27663-1 (Basic Part No. / Dash No.)

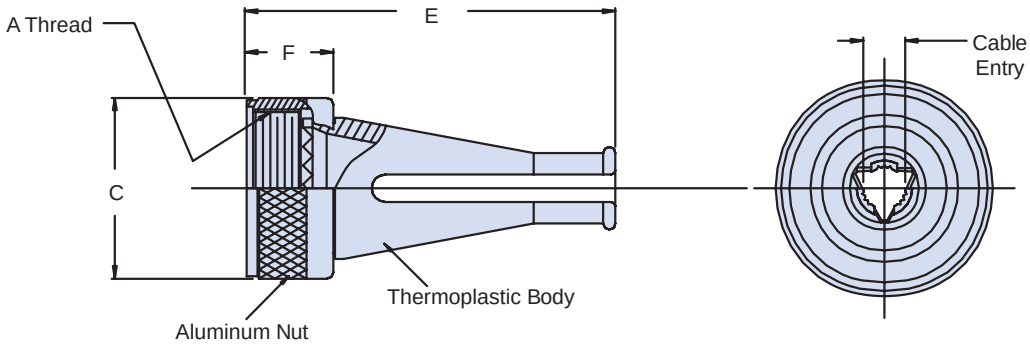

TABLE I: Shell Size, Cable Entry and Backshell Dimensions

Dash No.	Shell Size Ref.	A Thread Class 2B	Ø C Max		E Max		F Max		Cable Entry Min		Cable Entry Max	
8	8/9	.438 - 28 UNEF	.578	(14.7)	1.344	(34.1)	.422	(10.7)	.094	(2.4)	.203	(5.2)
10	10/11	.562 - 24 UNEF	.703	(17.9)	1.344	(34.1)	.422	(10.7)	.141	(3.6)	.250	(6.4)
12	12/13	.688 - 24 UNEF	.828	(21.0)	1.344	(34.1)	.422	(10.7)	.172	(4.4)	.323	(8.2)
14	14/15	.813 - 20 UNEF	.953	(24.2)	1.344	(34.1)	.422	(10.7)	.203	(5.2)	.422	(10.7)
16	16/17	.938 - 20 UNEF	1.078	(27.4)	1.344	(34.1)	.422	(10.7)	.234	(5.9)	.500	(12.7)
18	18/19	1.063 - 18 UNEF	1.203	(30.6)	1.344	(34.1)	.422	(10.7)	.265	(6.7)	.562	(14.3)
20	20/21	1.188 - 18 UNEF	1.328	(33.7)	1.422	(36.1)	.422	(10.7)	.297	(7.5)	.625	(15.9)
22	22/23	1.313 - 18 UNEF	1.453	(36.9)	1.422	(36.1)	.422	(10.7)	.328	(8.3)	.703	(17.9)
24	24/25	1.438 - 18 UNEF	1.578	(40.1)	1.422	(36.1)	.344	(8.7)	.359	(9.1)	.765	(19.4)

APPLICATION NOTES

1. Assembly to be identified with manufacturer's name and part number, space permitting.
2. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
3. For complete dimensions, see the applicable Military Specification.
4. Metric dimensions (mm) are in parentheses.

Dimensions in inches (millimeters) and are subject to change without notice.

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