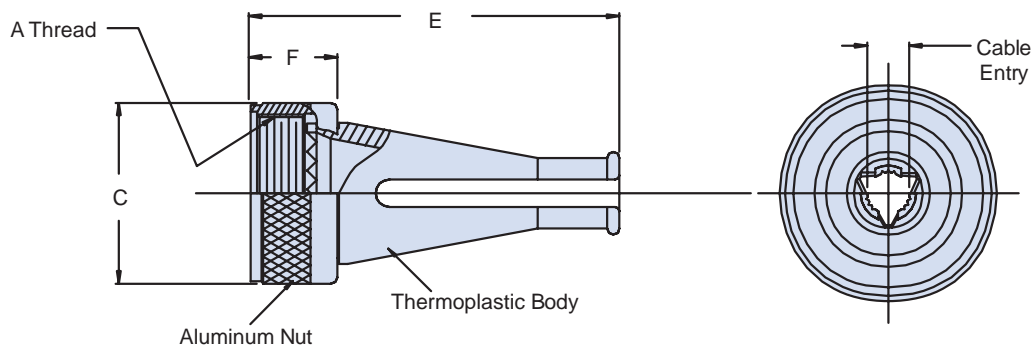


# AS85049/45 and MS27663-1 Straight Composite Non-Self-Locking Strain Relief

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

**Basic  
Part Number**
**M85049/45**
**Dash No.**
**W**
**10**
**Superseded  
Part Number**
**MS27663-1**
**Basic  
Part No.**
**Dash  
No.**
**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


**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		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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