AS85049/77
45° EMI/RFI Environmental Backshell

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

Finish

N = Electroless Nickel
W = 1,000 Hr. Cadmium Olive Drab over Electroless Nickel
X = Aluminum, Nickel Flurocarbon Polymer
Z = Aluminum, Zinc-Nickel, Black

M85049/77 - 10 W 01

- **Basic Part Number**
- **Dash Number** *(Table I)*
- **Clamp Size** *(Tables II & III)*

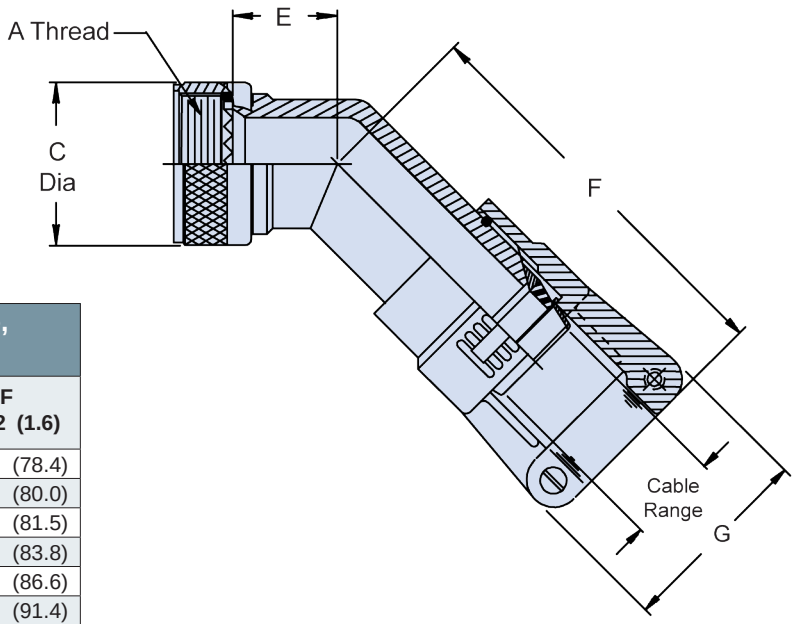

TABLE I: Shell Size, Thread and Dimensions

Dash No.	Shell Size Series I	Shell Size Series II	A Thread Class 2B	C Dia Max
08	09	08	.438 - 28 UNEF	.750 (19.1)
10	11	10	.562 - 24 UNEF	.850 (21.6)
12	13	12	.688 - 24 UNEF	1.000 (25.4)
14	15	14	.813 - 20 UNEF	1.150 (29.2)
16	17	16	.938 - 20 UNEF	1.250 (31.8)
18	19	18	1.063 - 18 UNEF	1.400 (35.6)
20	21	20	1.188 - 18 UNEF	1.550 (39.4)
22	23	22	1.313 - 18 UNEF	1.650 (41.9)
24	25	24	1.438 - 18 UNEF	1.850 (47.0)

TABLE II: Shell Size, Series 1 Reference, Clamp Size and Dimensions

Dash No.	Shell Size Series I	Shell Size Series II	Clamp Size Min	Clamp Size Max	E ±.062 (1.6)	F ±.062 (1.6)
08	09	08	01	02	.398 (10.1)	3.088 (78.4)
10	11	10	01	03	.458 (11.6)	3.148 (80.0)
12	13	12	02	04	.518 (13.2)	3.208 (81.5)
14	15	14	02	05	.588 (14.9)	3.298 (83.8)
16	17	16	02	06	.678 (17.2)	3.408 (86.6)
18	19	18	03	07	.868 (22.0)	3.598 (91.4)
20	21	20	03	08	.868 (22.0)	3.598 (91.4)
22	23	22	03	09	.958 (24.3)	3.748 (95.2)
24	25	24	04	10	.958 (24.3)	3.748 (95.2)

APPLICATION NOTES

1. For complete dimensions see the applicable Military Specification.
2. Metric dimensions (mm) are in parentheses.
3. Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

TABLE III: Clamp Size, Cable Range and Dimensions

Clamp Size	Cable Range Min	Cable Range Max	G Max
01	.062 (1.6)	.125 (3.2)	.800 (20.3)
02	.125 (3.2)	.250 (6.4)	1.000 (25.4)
03	.250 (6.4)	.375 (9.5)	1.100 (27.9)
04	.375 (9.5)	.500 (12.7)	1.200 (30.5)
05	.500 (12.7)	.625 (15.9)	1.250 (31.8)
06	.625 (15.9)	.750 (19.1)	1.400 (35.6)
07	.750 (19.1)	.875 (22.2)	1.500 (38.1)
08	.875 (22.2)	1.000 (25.4)	1.650 (41.9)
09	1.000 (25.4)	1.125 (28.6)	1.750 (44.5)
10	1.125 (28.6)	1.250 (31.8)	1.900 (48.3)

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

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