

# Series 44 Banding Backshells

for MIL-DTL-38999 Series III and IV Connectors

## 443H\*024 Banding Backshell, Shrouded Environmental



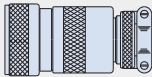
**Self-Locking**

**Adapter Code H**

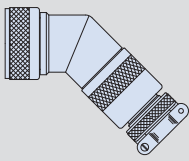
This accessory fits these connectors:  
MIL-DTL-38999 Series III and Series IV

### PROFILE SELECTION GUIDE

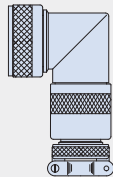
**S** Straight



**H** 45°







**J** 90°



**Environmental. "Band-in-a-Can" shield termination. Saddle clamp.** 443H\*024 banding backshell fits MIL-DTL-38999 Series III and IV connectors. Anti-decoupling mechanism provides audible detented coupling and prevents backoff under high vibration. Terminate cable braid shield with band strap (not supplied). Environmentally sealed with O-rings and cable grommet. Aluminum or stainless steel. Saddle clamp hardware is passivated SST. Silicone O-rings. Aluminum version has thermoplastic detent spring, stainless steel version has stainless steel detent spring.

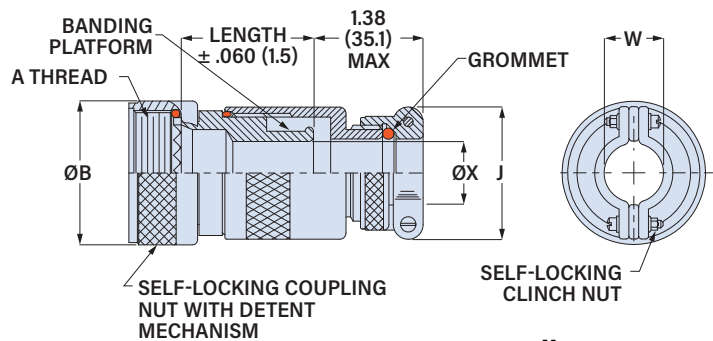
### PART NUMBER

PART NUMBER		443HS024	NF	19	06-	3	S			
Base P/N	Base Part No.	Profile								
	443HS024		Straight							
	443HH024		45°							
	443HJ024		90°							
Material/Finish	M	Alum/ Electroless Nickel								
	MT	Alum/ Nickel-PTFE								
	NF	Alum/ Olive Drab Cadmium								
	ZR	Alum/ Black Zinc-Nickel								
	TZ	Alum/ Tin-Zinc								
	ZM	SST/ Electroless Nickel								
Shell Size	Shell	9	11	13	15	17	19	21	23	25
	Size	A	B	C	D	E	F	G	H	J
	Size Code	09	11	13	15	17	19	21	23	25
Entry Size	See Table 1									
Length	2	1.0 inch		Applies to Profile  only. If Entry Size is greater than "Maximum Entry Size", then 1.5 inch minimum applies.						
	3	1.5 inches								
	4	2.0 inches								
	6	3.0 inches								
Self-Locking	S	Self-Locking Coupling Nut								

**TABLE 1: ENTRY SIZE**

Entry Size	Cable Range				J Max. in mm	W Closed in mm	ø X Min in mm	Shell Sizes*			
	Min. in mm	Max. in mm	Min. in mm	Max. in mm							
01	.125	3.2	.250	6.4	1.05	26.7	.264	6.7	.25	6.4	09-25
02	.188	4.8	.375	9.5	1.20	30.5	.344	8.7	.37	9.4	11-25
03	.312	7.9	.438	11.1	1.30	33.0	.460	11.7	.43	10.9	13-25
04	.343	8.7	.500	12.7	1.44	36.6	.545	13.8	.50	12.7	13-25
05	.438	11.1	.625	15.9	1.69	42.9	.698	17.7	.62	15.7	15-25
06	.562	14.3	.750	19.1	1.77	45.0	.780	19.8	.75	19.1	17-25
07	.688	17.5	.875	22.2	2.12	53.8	.950	24.1	.87	22.1	19-25
08	.812	20.6	1.000	25.4	2.50	63.5	1.015	25.8	1.00	25.4	21-25
09	.938	23.8	1.125	28.6	2.62	66.5	1.187	30.1	1.12	28.4	23-25
10	1.062	27.0	1.250	31.8	2.68	68.1	1.220	31.0	1.25	31.8	—
11	1.125	28.6	1.375	34.9	3.00	76.2	1.500	38.1	1.38	35.1	—
12	1.250	31.8	1.500	38.1	3.50	88.9	1.625	41.3	1.50	38.1	—

\* If Entry Size exceeds the shell size range in this table, the backshell will include a "Style 2" adapter. See "Maximum Entry Size" on next page.



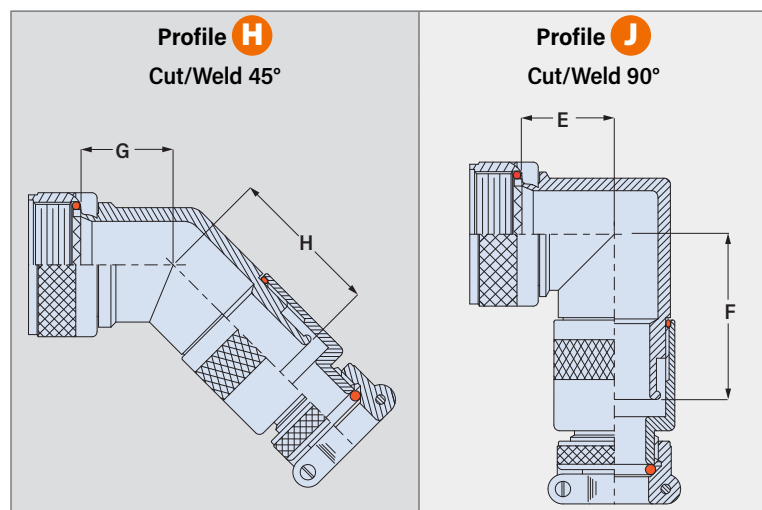
Shell Size	A Thread	øB Max		Max Entry Size*
		in	mm	
9 (A)	M12X1.0-6H	.94	24.8	01
11 (B)	M15X1.0-6H	1.06	26.9	02
13 (C)	M18X1.0-6H	1.17	29.7	04
15 (D)	M22X1.0-6H	1.29	32.7	05
17 (E)	M25X1.0-6H	1.42	36.1	06
19 (F)	M28X1.0-6H	1.54	39.1	07
21 (G)	M31X1.0-6H	1.67	42.4	08
23 (H)	M34X1.0-6H	2.01	51.1	09
25 (J)	M37X1.0-6H	2.12	53.8	09

\* If Entry Size exceeds the Max Entry Size in this table, the backshell will include a "Style 2" adapter. See "Maximum Entry Size" on next page.

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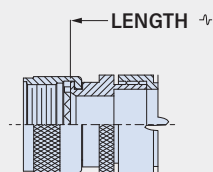
Shell Size	E Max. in mm	F Max. in mm	G Max. in mm	H Max. in mm
9 (A)	.75 19.1	1.50 38.1	.639 16.2	1.380 35.1
11 (B)	.81 20.6	1.55 39.4	.664 16.9	1.410 35.8
13 (C)	.87 22.1	1.61 40.9	.688 17.5	1.430 36.3
15 (D)	.92 23.4	1.68 42.7	.705 17.9	1.460 37.1
17 (E)	.98 24.9	1.74 44.2	.732 18.6	1.480 37.6
19 (F)	1.02 25.9	1.76 44.7	.748 19.0	1.490 37.8
21 (G)	1.08 27.4	1.82 46.2	.773 19.6	1.510 38.4
23 (H)	1.14 29.0	1.90 48.3	.800 20.3	1.550 39.4
25 (J)	1.20 30.5	1.97 50.0	.823 20.9	1.580 40.1

### MAXIMUM ENTRY SIZE

If the selected entry size exceeds the maximum size in this table, the backshell will have a front adapter. This is called a **Style 2** backshell.

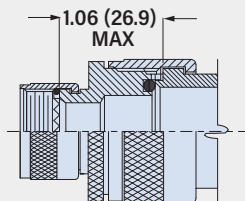
Shell Size	Max. Entry Size	Shell Size	Max. Entry Size
9(A)	<b>01</b>	19(F)	<b>07</b>
11(B)	<b>02</b>	21(G)	<b>08</b>
13(C)	<b>04</b>	23(H)	<b>09</b>
15(D)	<b>05</b>	25(J)	<b>09</b>
17(E)	<b>06</b>		

### Style 2 Straight Backshell



For Style 2 straight backshells, the minimum length code increases from 2 (1 inch) to 4 (2 inches).

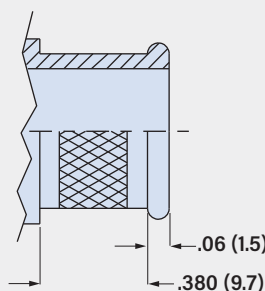
### Style 2 45° and 90° Backshells



For Style 2 45° and 90° backshells, the length increases by 1.06 inches.

### BAND

SST band strap (not included, ordered separately) provides fast, cost-effective and highly reliable termination of braided metallic shielding. The Band-Master ATS® Advanced Cable Shield Termination System is the overwhelming favorite throughout the military aerospace and defense industries, providing excellent static loading and corrosion resistance in electrical wire interconnect systems.



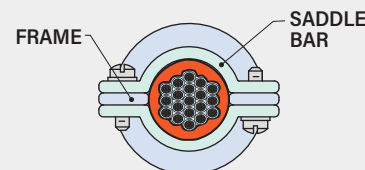
Band  
601-041



Banding Tool  
601-100

### APPLICATION NOTE

This backshell has a **full radius** saddle clamp. This type of strain relief is designed to be fully closed. Saddle bars should be bottomed onto frame. Build up cable diameter with tape or sleeve to meet the diameter of the fully closed clamp.



**FULL RADIUS  
SADDLE CLAMP**  
SADDLE BARS SHOULD BE FULLY  
BOTTOMED ONTO FRAME.