

Series 44 Banding Backshells

for MIL-DTL-38999 Series III and IV Connectors

440H*069 Banding Backshell, Shrink Boot, Self-Locking



Self-Locking

Adapter Code H

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

PROFILE SELECTION GUIDE

| | |
|---|--|
| <p>S Straight</p> | <p>C 90°</p> <p>Low Profile Split</p> |
| <p>D 90°</p> <p>Split</p> | <p>F 45°</p> <p>Split</p> |
| <p>H 45°</p> <p>Cut and Weld</p> | <p>J 90°</p> <p>Cut and Weld</p> |
| <p>M 45°</p> <p>Full Radius</p> | <p>N 90°</p> <p>Full Radius</p> |

PART NUMBER

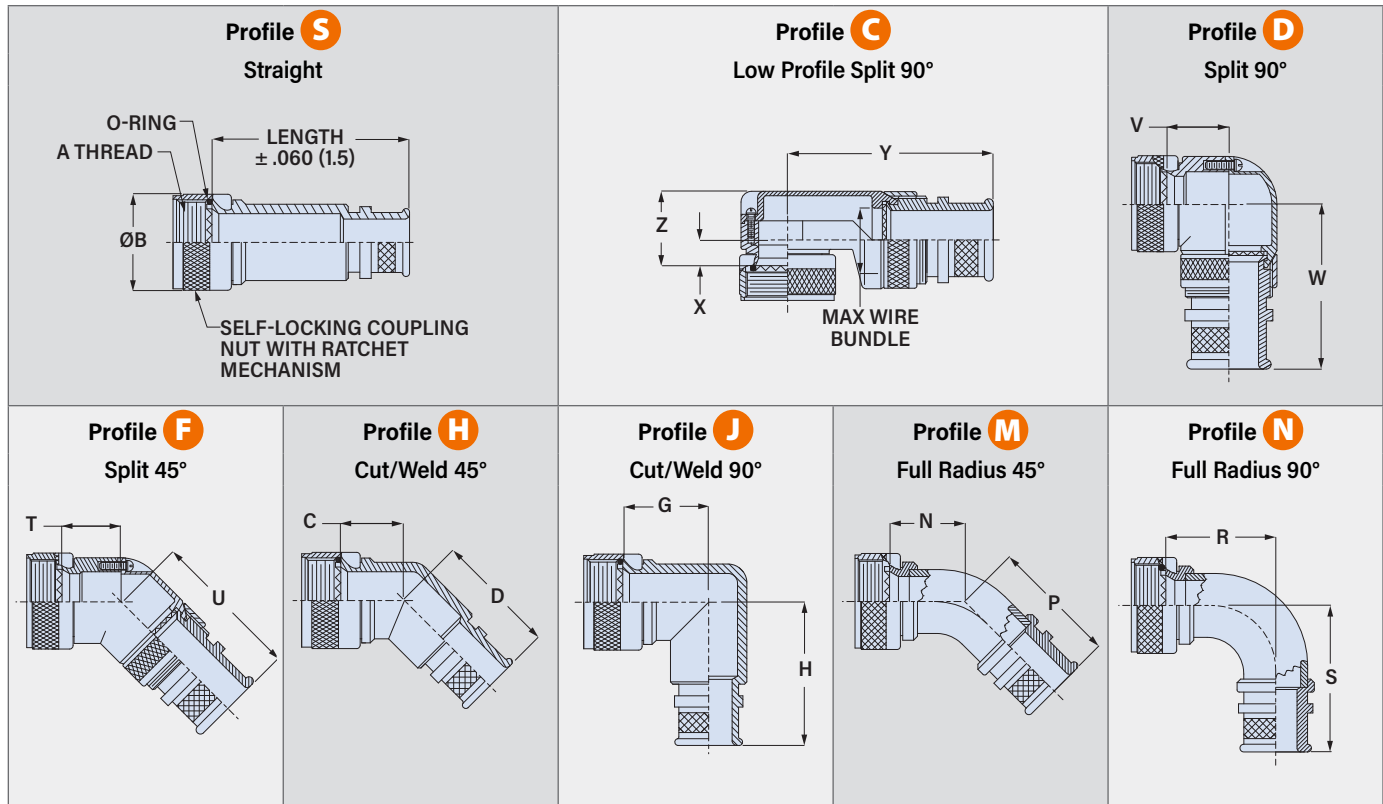
440HS069 Z1 17 06- 4 K P T

| | | | | | | |
|---|---|--|-------------|-----------|--------------|-------------|
| Base P/N | Base Part No. Profile | | | | | |
| | 440HS069 S Straight | | | | | |
| | 440HC069 C 90° Split Low Prof. | | | | | |
| | 440HD069 D 90° Split | | | | | |
| | 440HF069 F 45° Split | | | | | |
| | 440HH069 H 45° Cut/Weld | | | | | |
| | 440HJ069 J 90° Cut/Weld | | | | | |
| Material/Finish | 440HM069 M 45° Full Radius | | | | | |
| | 440HN069 N 90° Full Radius | | | | | |
| | M Alum/ Electroless Nickel | | | | | |
| | MT Alum/ Nickel-PTFE | | | | | |
| | NF Alum/ Olive Drab Cadmium | | | | | |
| Shell Size | ZR Alum/ Black Zinc-Nickel | | | | | |
| | TZ Alum/ Tin-Zinc | | | | | |
| | ZI SST/ Passivated (Profiles H, J, M, N, S only) | | | | | |
| Shell Size | Shell Size | 9 11 13 15 17 19 21 23 25 | | | | |
| | Size Code | 09 11 13 15 17 19 21 23 25 | | | | |
| Entry Size | Size | Inside Dia. | Shell Size* | Size | Inside Dia. | Shell Size* |
| | 01 | .125 (3.2) | 09-25 | 07 | .875 (22.2) | 19-25 |
| | 31 | .188 (4.8) | 09-25 | 37 | .938 (23.8) | 21-25 |
| | 02 | .250 (6.4) | 09-25 | 08 | 1.000 (25.4) | 21-25 |
| | 32 | .312 (7.9) | 11-25 | 38 | 1.062 (27.0) | 23-25 |
| | 03 | .375 (9.5) | 11-25 | 09 | 1.125 (28.6) | 23-25 |
| | 33 | .438 (11.1) | 13-25 | 10 | 1.250 (31.8) | 25 |
| | 04 | .500 (12.7) | 13-25 | 11 | 1.375 (34.9) | - |
| | 34 | .562 (14.3) | 15-25 | 12 | 1.500 (38.1) | - |
| | 05 | .625 (15.9) | 15-25 | 13 | 1.625 (41.3) | - |
| | 35 | .688 (17.5) | 17-25 | 14 | 1.750 (44.5) | - |
| | 06 | .750 (19.1) | 17-25 | 15 | 1.875 (47.6) | - |
| | 36 | .812 (20.6) | 19-25 | 16 | 2.000 (50.8) | - |
| *If selected entry size exceeds shell size range, a Style 2 transition adapter will be included. See Maximum Entry Size for details. △ Profile C entry size cannot exceed shell size range listed in table. | | | | | | |
| Length | 3 1.5 inches | Applies to Profile S only. | | | | |
| | 4 2.0 inches | If Entry Size is greater than "Maximum Entry Size" (see table), then 2 inch minimum applies. | | | | |
| | 5 2.5 inches | | | | | |
| | 6 3.0 inches | | | | | |
| Band | Omit if not required | | | | | |
| | K Pre-Coiled Band Included With Backshell | | | | | |
| Polysulfide | Omit if not required. Applies to Plating Codes NF, ZR, TZ only. | | | | | |
| | P Nickel Plated Shield Termination Area with Polysulfide Barrier | | | | | |
| Shrink Boot | Omit if not required | | | | | |
| | T Shrink Boot Included With Backshell | | | | | |
| | TI Adhesive-lined Shrink Boot Included With Backshell | | | | | |

Series 44 Banding Backshells

for MIL-DTL-38999 Series III and IV Connectors

440H*069 Banding Backshell, Shrink Boot, Self-Locking



| Shell Size | A Thread | ØB Max | C Max. | D Max. | G Max. | H Max. | N Max. | P Max. | R Max. | S Max. |
|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | in mm | in mm | in mm | in mm | in mm | in mm | in mm | in mm | in mm |
| 9 (A) | M12X1.0-6H | .94 24.8 | .806 20.5 | 1.038 26.4 | .906 23.0 | 1.146 29.1 | .968 24.6 | 1.017 25.8 | 1.281 32.5 | 1.335 33.9 |
| 11 (B) | M15X1.0-6H | 1.06 26.9 | .832 21.1 | 1.064 27.0 | .966 24.5 | 1.210 30.7 | 1.031 26.2 | 1.071 27.2 | 1.406 35.7 | 1.460 37.1 |
| 13 (C) | M18X1.0-6H | 1.17 29.7 | .856 21.7 | 1.088 27.6 | 1.026 26.0 | 1.268 32.2 | 1.094 27.8 | 1.121 28.5 | 1.531 38.9 | 1.585 40.3 |
| 15 (D) | M22X1.0-6H | 1.29 32.7 | .882 22.4 | 1.114 28.3 | 1.076 27.3 | 1.330 33.8 | 1.156 29.4 | 1.175 29.8 | 1.656 42.1 | 1.710 43.4 |
| 17 (E) | M25X1.0-6H | 1.42 36.1 | .908 23.1 | 1.150 29.2 | 1.136 28.8 | 1.392 35.4 | 1.218 30.9 | 1.224 31.1 | 1.781 45.2 | 1.835 46.6 |
| 19 (F) | M28X1.0-6H | 1.54 39.1 | .927 23.5 | 1.190 30.2 | 1.176 29.9 | 1.438 36.5 | 1.250 31.8 | 1.274 32.4 | 1.906 48.4 | 1.960 49.8 |
| 21 (G) | M31X1.0-6H | 1.67 42.4 | .953 24.2 | 1.250 31.8 | 1.236 31.4 | 1.500 38.1 | 1.312 33.3 | 1.328 33.7 | 2.031 51.6 | 2.085 53.0 |
| 23 (H) | M34X1.0-6H | 2.01 51.1 | .979 24.9 | 1.320 33.5 | 1.296 32.9 | 1.562 39.7 | 1.344 34.1 | 1.382 35.1 | 2.156 54.8 | 2.210 56.1 |
| 25 (J) | M37X1.0-6H | 2.12 53.8 | 1.004 25.5 | 1.380 35.1 | 1.356 34.4 | 1.625 41.3 | 1.406 35.7 | 1.431 36.3 | 2.281 57.9 | 2.335 59.3 |

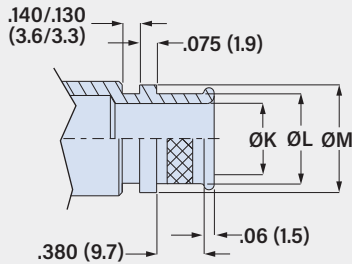
| Shell Size | T Max. | | U Max. | | V Max. | | W Max. | | X Max. | | Y Max. | | Z Max. | | Profile C Max. Wire Bundle | |
|------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|----------------------------|------|
| | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| 9 (A) | .596 | 15.1 | 1.635 | 41.5 | .836 | 21.2 | 1.575 | 40.0 | .496 | 12.6 | 1.915 | 48.6 | .837 | 21.3 | .250 | 6.4 |
| 11 (B) | .656 | 16.7 | 1.695 | 43.1 | .906 | 23.0 | 1.635 | 41.5 | .426 | 10.8 | 2.075 | 52.7 | .887 | 22.5 | .375 | 9.5 |
| 13 (C) | .716 | 18.2 | 1.765 | 44.8 | .966 | 24.5 | 1.705 | 43.3 | .426 | 10.8 | 2.075 | 52.7 | .887 | 22.5 | .375 | 9.5 |
| 15 (D) | .776 | 19.7 | 1.795 | 45.6 | 1.026 | 26.1 | 1.735 | 44.1 | .436 | 11.1 | 2.145 | 54.5 | .987 | 25.1 | .500 | 12.7 |
| 17 (E) | .836 | 21.2 | 1.895 | 48.1 | 1.086 | 27.6 | 1.835 | 46.6 | .576 | 14.6 | 2.195 | 55.8 | 1.137 | 28.9 | .625 | 15.9 |
| 19 (F) | .906 | 23.0 | 1.955 | 49.7 | 1.156 | 29.4 | 1.895 | 48.1 | .796 | 20.2 | 2.225 | 56.5 | 1.337 | 34.0 | .625 | 15.9 |
| 21 (G) | .976 | 24.8 | 2.015 | 51.2 | 1.216 | 30.9 | 1.955 | 49.7 | .796 | 20.2 | 2.225 | 56.5 | 1.337 | 34.0 | .625 | 15.9 |
| 23 (H) | 1.036 | 26.3 | 2.075 | 52.7 | 1.276 | 32.4 | 2.015 | 51.2 | .696 | 17.7 | 2.375 | 60.3 | 1.337 | 34.0 | .750 | 19.1 |
| 25 (J) | 1.096 | 27.8 | 2.135 | 54.2 | 1.336 | 33.9 | 2.075 | 52.7 | .696 | 17.7 | 2.375 | 60.3 | 1.337 | 34.0 | .750 | 19.1 |

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440H*069 Banding Backshell, Shrink Boot, Self-Locking

ENTRY SIZE



| Entry Size | Shell Sizes | øK ± .015 (0.4) | | øL ± .015 (0.4) | | øM ± .015 (0.4) | |
|------------|-------------|-----------------|------|-----------------|------|-----------------|------|
| | | in | mm | in | mm | in | mm |
| 01 | 09-25 | .125 | 3.2 | .250 | 6.4 | .312 | 7.9 |
| 02 | 09-25 | .188 | 4.8 | .312 | 7.9 | .375 | 9.5 |
| 03 | 11-25 | .250 | 6.4 | .375 | 9.5 | .438 | 11.1 |
| 04 | 11-25 | .312 | 7.9 | .438 | 11.1 | .500 | 12.7 |
| 05 | 11-25 | .375 | 9.5 | .500 | 12.7 | .562 | 14.3 |
| 06 | 13-25 | .438 | 11.1 | .562 | 14.3 | .625 | 15.9 |
| 07 | 13-25 | .500 | 12.7 | .625 | 15.9 | .687 | 17.4 |
| 08 | 15-25 | .562 | 14.3 | .688 | 17.5 | .750 | 19.1 |
| 09 | 15-25 | .625 | 15.9 | .750 | 19.1 | .812 | 20.6 |
| 10 | 17-25 | .688 | 17.5 | .812 | 20.6 | .875 | 22.2 |
| 11 | 17-25 | .750 | 19.1 | .875 | 22.2 | .938 | 23.8 |
| 12 | 19-25 | .812 | 20.6 | .938 | 23.8 | 1.000 | 25.4 |
| 13 | 19-25 | .875 | 22.2 | 1.000 | 25.4 | 1.062 | 27.0 |
| 14 | 21-25 | .938 | 23.8 | 1.062 | 27.0 | 1.125 | 28.6 |
| 15 | 21-25 | 1.000 | 25.4 | 1.125 | 28.6 | 1.188 | 30.2 |
| 16 | 23-25 | 1.062 | 27.0 | 1.188 | 30.2 | 1.250 | 31.8 |
| 17 | 23-25 | 1.125 | 28.6 | 1.250 | 31.8 | 1.312 | 33.3 |
| 18 | 25 | 1.250 | 31.8 | 1.375 | 34.9 | 1.438 | 36.5 |
| 19 | - | 1.375 | 34.9 | 1.500 | 38.1 | 1.562 | 39.7 |
| 20 | - | 1.500 | 38.1 | 1.625 | 41.3 | 1.688 | 42.9 |
| 21 | - | 1.625 | 41.3 | 1.750 | 44.5 | 1.812 | 46.0 |
| 22 | - | 1.750 | 44.5 | 1.875 | 47.6 | 1.938 | 49.2 |
| 23 | - | 1.875 | 47.6 | 2.000 | 50.8 | 2.062 | 52.4 |
| 24 | - | 2.000 | 50.8 | 2.125 | 54.0 | 2.188 | 55.6 |

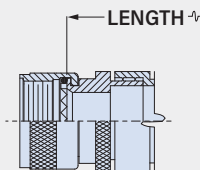
MAXIMUM ENTRY SIZE

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.

⚠ Profile G backshells are not available with entry sizes larger than shown in table.

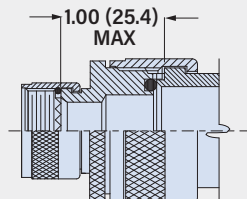
| Shell Size | Max. Entry Size | Shell Size | Max. Entry Size |
|------------|-----------------|------------|-----------------|
| 9(A) | 02 | 19(F) | 07 |
| 11(B) | 03 | 21(G) | 08 |
| 13(C) | 04 | 23(H) | 09 |
| 15(D) | 05 | 25(J) | 10 |
| 17(E) | 06 | | |

Style 2 Straight Backshell



For Style 2 straight backshells, the minimum length code increases from 3 (1 1/2 inches) to 4 (2 inches).

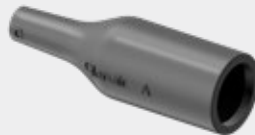
Style 2 45° and 90° Backshells



For Style 2 45° and 90° backshells, the length increases by one inch.

SHRINK BOOT

Optional heatshrink boot provides cable strain relief and environmental protection. Type 1 high-performance semi-rigid elastomer resists fuels and oils and withstands temperature extremes. Available with W1 hot melt adhesive pre-coat. Operating temperature range -75 to +150 °C (no adhesive), -55 to +125 °C (with W1 adhesive).



| Entry Sizes | Adhesive Lined Shrink Boot P/N | |
|-------------|--------------------------------|-----------------|
| | Shrink Boot P/N | Shrink Boot P/N |
| 01-31 | 770-003S111 | 770-003S111W1 |
| 02-32 | 770-003S112 | 770-003S112W1 |
| 03 | 770-001S103 | 770-001S103W1 |
| 33-35 | 770-001S104 | 770-001S104W1 |
| 06-37 | 770-001S105 | 770-001S105W1 |
| 08-38 | 770-001S106 | 770-001S106W1 |
| 09-12 | 770-001S107 | 770-001S107W1 |
| 13-14 | 770-001S108 | 770-001S108W1 |
| 15-16 | 770-001S109 | 770-001S109W1 |

BAND

Optional SST band strap 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

POLYSULFIDE

Optional selective electroless nickel plating on shield termination area and polysulfide dielectric barrier prevents galvanic mismatch between nickel-coated braid shield and backshell.

⚠ Plating codes NF, ZR and TZ only

