



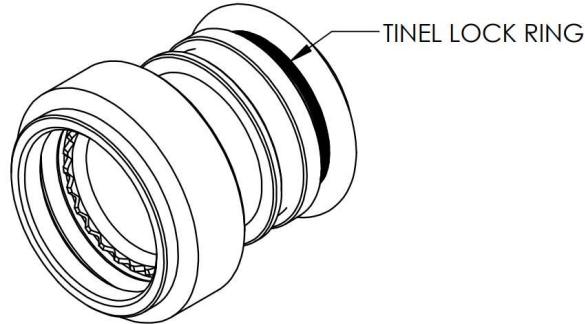
**TINEL-LOCK BACKSHELL**

**NCAGE CODE: TD589**

**AS 9100**

**Quality System**

## CODE 40 – TINEL-LOCK SHIELDED BACKSHELL



ATX	40	A	B	00	-	16	08	AI
-----	----	---	---	----	---	----	----	----

**SERIES** \_\_\_\_\_

ATX - SUPPLIED WITH RING (SEE RINGS OPTION)

AT - RING NOT INCLUDED

**CONNECTOR INTERFACE** \_\_\_\_\_

**MATERIAL (TABLE III)** \_\_\_\_\_

**FINISH (TABLE IV)** \_\_\_\_\_

**ANGLE** \_\_\_\_\_

**DASH NUMBER (TABLE I)** \_\_\_\_\_

**ENTRY SIZE (TABLE II)** \_\_\_\_\_

**RING OPTION** \_\_\_\_\_

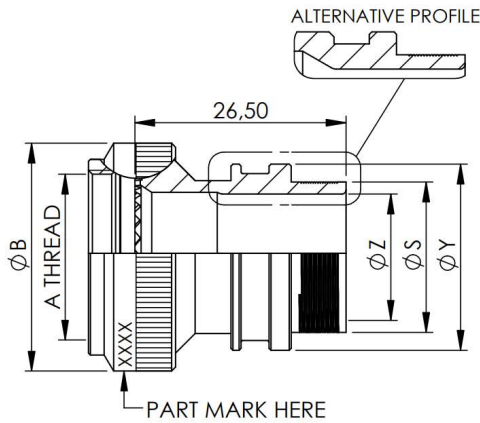
AI – TO SUIT SINGLE BRAID

BI – TO SUIT DOUBLE BRAID

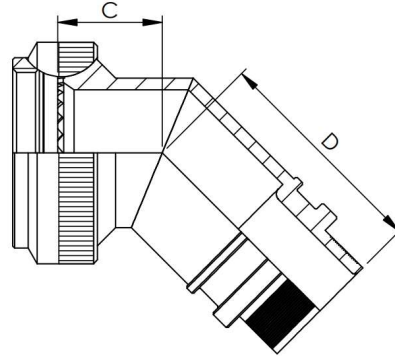
**NOTES:**

- SEE DRAWING TR FOR DETAIL ON TINEL-LOCK RING, RINGS ARE DESIGNED TO BE HEATED ELECTRICALLY, ALL RINGS ARE MARKED WITH THERMOCHROMIC PAINT WHICH CHANGES COLOUR WHEN INSTALLATION TEMPERATURE IS REACHED.
- BACKSHELL MATES TO MIL-DTL-38999 SERIES III & IV - CLASS C, F, K AND W, D38999/20, /24, /26, /40, /46 AND /47 CONNECTORS.

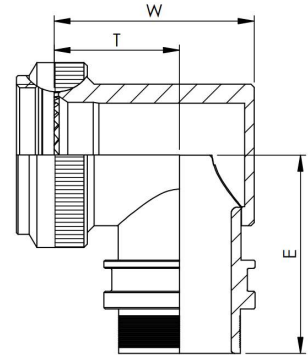




STRAIGHT BACKSHELL



45° BACKSHELL



90° BACKSHELL

TABLE-I

ORDER NO.	SHELL SIZE COM'L / MIL	A THREAD	ØB MAX	MAX ENTRY	C ±0,5	D ±0,5	W ±0,5	T ±0,5	E ±0,5	THESE DIMENSIONS APPLY IF BACKSHELL IS STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE		
										W ±0,5	T ±0,5	E ±0,5
08	09 / A	M12 x 1,0	18,0	04	12,0	26,8	21,0	14,0	26,20	21,2	16,3	26,4
10	11 / B	M15 x 1,0	21,0	07	12,5	27,5	24,0	15,5	27,95	24,3	17,2	28,2
12	13 / C	M18 x 1,0	24,5	08	13,1	28,0	27,0	17,0	29,45	28,3	19,4	29,7
14	15 / D	M22 x 1,0	29,0	10	13,5	29,0	31,0	19,5	31,00	31,1	21,0	31,2
16	17 / E	M25 x 1,0	32,5	12	14,5	29,7	34,0	21,0	32,70	34,2	22,8	32,9
18	19 / F	M28 x 1,0	35,5	14	15,5	30,5	35,0	20,0	34,25	38,5	25,3	34,5
20	21 / G	M31 x 1,0	37,0	16	16,1	30,9	38,0	21,5	35,80	40,7	26,1	36,1
22	23 / H	M34 x 1,0	40,0	18	16,5	31,1	42,0	24,0	37,40	43,7	27,6	37,6
24	25 / J	M37 x 1,0	43,5	20	17,0	32,1	45,0	25,5	38,90	46,4	29,1	39,1

TABLE-II

ENTRY SIZE	ØZ MIN	ØS	ØY ±0,3
04	6,35	9,49 ± 0,04	14,0
05	7,90	11,06 ± 0,04	15,5
06	9,50	12,66 ± 0,04	17,1
07	11,10	14,21 ± 0,07	18,7
08	12,70	15,81 ± 0,07	20,3
10	15,90	18,96 ± 0,08	23,5
12	19,05	22,14 ± 0,08	26,7
14	22,20	25,30 ± 0,08	29,8
16	25,40	28,48 ± 0,08	33,0
18	28,60	31,65 ± 0,08	36,2
20	31,75	34,83 ± 0,08	39,4
22	34,90	37,98 ± 0,08	42,5

TABLE-III MATERIAL CODES

Material	Material Code	Typical Applications
Aluminum alloy	A	Standard material for normal applications
Stainless steel	S	Corrosion-resistant and high-temperature (firewall) applications
Nickel aluminum bronze	B	Exposed marine environments

TABLE-IV FINISH CODES

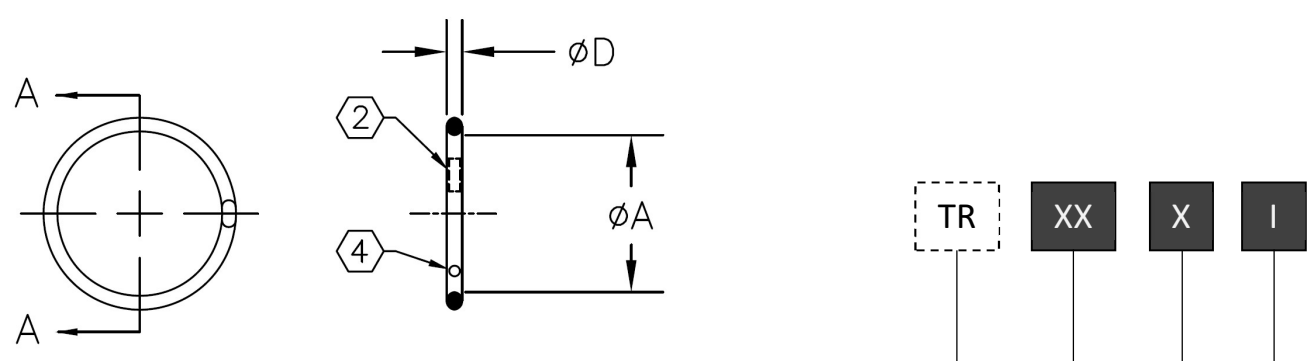
Finish Description	Color	Finish Code	Typical Applications
Cadmium per QQ-P-416, Type II, Class 3 over electroless nickel (500 hour salt-spray-resistant finish)	Olive Drab	B	Corrosion resistance for exposed environments
Electroless nickel, per AMS-C-26074 Class 4, Grade B	Bright	C	High conductivity for optimum screening performance
Anodized, hard, per MIL-A-8625 Type III, Class 2	Black	G	Nonconductive finish for aluminum adapters
Passivated, per QQ-P-35 or MIL-S 5002	-	J	Surface treatment for aluminum adapters
Unplated, shotblast	-	W	Nonreflective finish for nickel aluminum bronze adapters
Zinc Nickel	Black	Z	Cadmium free plating



## TINEL-LOCK RING

### SCOPE:

THIS SPECIFICATION PROVIDES A DESCRIPTION OF HEAT SHRINKABLE METAL RINGS FOR TERMINATING BRAIDED SHIELD ONTO ADAPTORS DESIGNED FOR THAT PURPOSE.



**PRODUCT DESIGNATOR** \_\_\_\_\_

**RING SIZE (MATCHES ATX ADAPTER ENTRY SIZE)** \_\_\_\_\_

**BRAID DESIGNATOR** \_\_\_\_\_

A-36 AWG BRAID, 1 LAYER  
 B-36 AWG BRAID, 2 LAYERS  
 C-30 AWG BRAID, 1 LAYER  
 C-32 AWG BRAID, 2 LAYERS

**INSULATING LINING** \_\_\_\_\_

### NOTES:

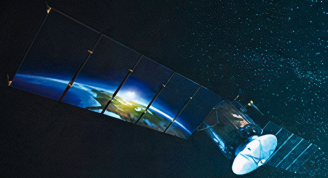
1. MATERIAL: TINEL ALLOY X.
2. THE OUTSIDE SURFACE OF THE RING IS MARKED WITH TWO STRIPES OF THERMOCHROMIC PAINT WHICH CHANGE COLOR WHEN THE APPROPRIATE INSTALLATION TEMPERATURE IS REACHED.
3. "AI" RINGS ARE IDENTIFIED BY THE ABSENCE OF A RED OR BLUE DOT. REFER TO NOTE 4.
4. "BI" RINGS ARE MARKED WITH A RED DOT.  
 "CI" RINGS ARE MARKED WITH A BLUE DOT.



PART DESCRIPTION	ØA				ØD	
	MIN AS SUPPLIED		MAX FREE RECOVERED			
TR04AI	.397	[10,08]	.379	[ 9,63]	.073 ± .005	[1,85 ± 0,13]
TR04BI	.416	[10,57]	.398	[10,11]	.073 ± .005	[1,85 ± 0,13]
TR05AI	.460	[11,68]	.440	[11,18]	.073 ± .005	[1,85 ± 0,13]
TR05BI	.479	[12,17]	.458	[11,63]	.073 ± .005	[1,85 ± 0,13]
TR06AI	.523	[13,28]	.499	[12,68]	.073 ± .005	[1,85 ± 0,13]
TR06BI	.548	[13,92]	.523	[13,28]	.073 ± .005	[1,85 ± 0,13]
TR07AI	.586	[14,88]	.559	[14,20]	.073 ± .005	[1,85 ± 0,13]
TR07BI	.606	[15,39]	.578	[14,68]	.073 ± .005	[1,85 ± 0,13]
TR08AI	.650	[16,51]	.620	[15,75]	.073 ± .005	[1,85 ± 0,13]
TR08BI	.670	[17,02]	.639	[16,23]	.073 ± .005	[1,85 ± 0,13]
TR10AI	.782	[19,86]	.744	[18,90]	.073 ± .005	[1,85 ± 0,13]
TR10BI	.802	[20,37]	.763	[19,38]	.073 ± .005	[1,85 ± 0,13]
TR10CI	.830	[21,08]	.791	[20,09]	.073 ± .005	[1,85 ± 0,13]
TR12AI	.912	[23,17]	.867	[22,02]	.073 ± .005	[1,85 ± 0,13]
TR12BI	.931	[23,65]	.886	[22,50]	.073 ± .005	[1,85 ± 0,13]
TR12CI	.960	[24,38]	.912	[23,17]	.073 ± .005	[1,85 ± 0,13]
TR14AI	1.040	[26,42]	.988	[25,10]	.073 ± .005	[1,85 ± 0,13]
TR14BI	1.060	[26,92]	1.007	[25,58]	.073 ± .005	[1,85 ± 0,13]
TR14CI	1.089	[27,66]	1.033	[26,24]	.073 ± .005	[1,85 ± 0,13]
TR16AI	1.171	[29,74]	1.111	[28,22]	.073 ± .005	[1,85 ± 0,13]
TR16BI	1.191	[30,25]	1.129	[28,68]	.073 ± .005	[1,85 ± 0,13]
TR16CI	1.216	[30,89]	1.154	[29,31]	.073 ± .005	[1,85 ± 0,13]
TR18AI	1.301	[33,05]	1.234	[31,34]	.073 ± .005	[1,85 ± 0,13]
TR18BI	1.320	[33,53]	1.252	[31,80]	.073 ± .005	[1,85 ± 0,13]
TR20AI	1.430	[36,32]	1.357	[34,47]	.073 ± .005	[1,85 ± 0,13]
TR20BI	1.450	[36,83]	1.376	[34,95]	.073 ± .005	[1,85 ± 0,13]
TR22AI	1.543	[39,19]	1.463	[37,16]	.088 ± .007	[2,24 ± 0,18]
TR22BI	1.561	[39,65]	1.481	[37,62]	.088 ± .007	[2,24 ± 0,18]
TR24AI	1.673	[42,49]	1.587	[40,31]	.088 ± .007	[2,24 ± 0,18]
TR24BI	1.691	[42,95]	1.605	[40,77]	.088 ± .007	[2,24 ± 0,18]
TR28AI	1.932	[49,07]	1.838	[46,68]	.088 ± .007	[2,24 ± 0,18]
TR28BI	1.950	[49,53]	1.858	[47,19]	.088 ± .007	[2,24 ± 0,18]

Dimensions in brackets [ ] are in millimeters.





**ATP** DEFENSE

© 2023

# BACKSHELLS



**NCAGE: TD589**

[www.atpsavunma.com](http://www.atpsavunma.com)