



TINEL-LOCK BACKSHELLS

NCAGE CODE: TD589

AS 9100

Quality System

www.atpsavunma.com

INFORMATION ABOUT ATP ADAPTER FAMILY

TINEL-LOCK RING ADAPTERS

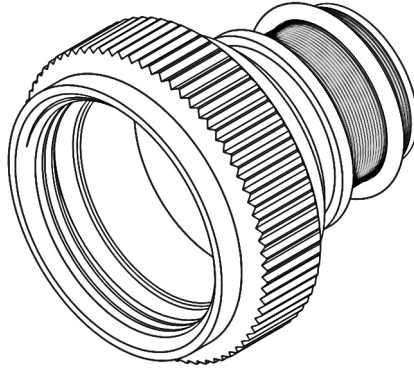
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-5015 (MS3100)	ATX18 (Page:2, 3, 4)
❖ MIL-DTL-26482 SERIES I	ATX21 (Page:5, 6)
❖ MIL-DTL-38999 SERIES III & IV ❖ EN3645	ATX40 (Page:7, 8)
❖ MIL-DTL-38999 SERIES I & II ❖ MIL-DTL-27599	ATX41 (Page:9, 10)
❖ VG96912 SERIES I	ATX47 (Page:11, 12)
❖ MIL-DTL-26482 SERIES II ❖ MIL-DTL-81703 SERIES I & II ❖ MIL-DTL-5015 CRIMP ❖ MIL-DTL-27599	ATX54 (Page:13, 14)



ATX18 – TINEL-LOCK SHIELDED BACKSHELL

CONNECTOR INTERFACE:

- ❖ MIL-DTL-5015 (MS3100)



	ATX	18	A	B	00	16	08	AI	
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SERIES _____

ATX- RING INCLUDED (SEE RINGS OPTION)
AT- RING NOT INCLUDED

CONNECTOR INTERFACE _____

MATERIAL (TABLE III) _____

FINISH (TABLE IV) _____

ANGLE _____

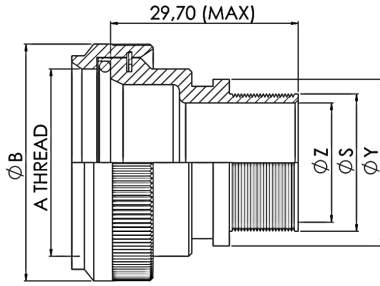
ORDER NUMBER (TABLE I) _____

ENTRY SIZE (TABLE II) _____

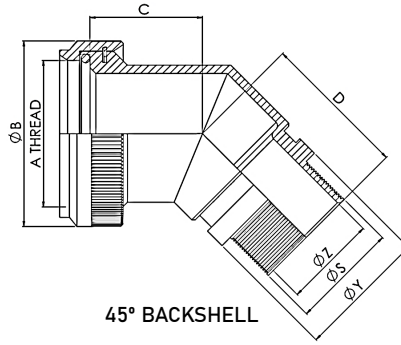
RING OPTION (SEE PAGE 15-16) _____

AI – TO SUIT SINGLE BRAID
BI – TO SUIT DOUBLE BRAID

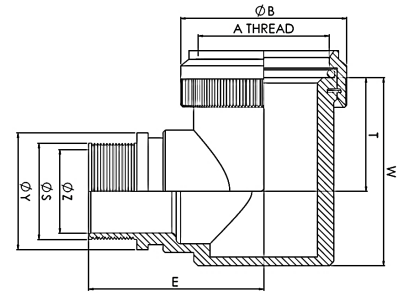
MANUFACTURER CODE (TABLE V) _____



STRAIGHT BACKSHELL



45° BACKSHELL



90° BACKSHELL

TABLE-I

ORDER NO.	SHELL SIZE	MANUFACTURER CODE	A THREAD	ØB MAX	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	8S	B	3/8-32 UNEF	18,5	15,0	20,1	21,7	15,2	26,0	21,7	15,2	29,0
	8S	C	7/16-28 UNEF	18,1	15,0	20,1	21,7	15,2	26,0	21,7	15,2	29,0
	8S	A, R	7/16-27 UNS	18,5	15,0	20,1	21,7	15,2	26,0	21,7	15,2	29,0
	8S	D	*	18,5	15,0	20,1	21,7	15,2	26,0	21,7	15,2	29,0
10	10S	-	1/2-28 UNEF	19,8	15,4	21,6	23,2	15,7	27,7	23,2	15,7	31,2
11	10SL	C	9/16-24 UNEF	21,6	18,4	21,6	25,0	16,5	27,7	27,2	17,5	33,0
	10SL	A, B, R	5/8-24 UNEF	23,2	18,4	21,6	27,2	17,5	27,7	27,2	17,5	33,0
	10SL	D	*	23,2	18,4	21,6	27,2	17,5	27,7	27,2	17,5	33,0
12	12 & 12S	B, C	5/8-24 UNEF	23,0	18,4	21,6	27,2	17,5	27,7	27,2	17,5	33,0
	12 & 12S	A, R	1 1/16-24 UNEF	24,9	18,4	21,6	27,2	17,5	27,7	27,2	17,5	33,0
	12 & 12S	D	*	24,9	18,4	21,6	27,2	17,5	27,7	27,2	17,5	33,0
14	14 & 14S	-	3/4-20 UNEF	27,7	19,3	22,2	30,7	19,5	30,7	30,7	19,5	34,9
16	16 & 16S	-	7/8-20 UNEF	31,1	20,0	23,6	34,2	21,5	32,4	34,2	21,5	35,5
18	18	-	1-20 UNEF	34,4	20,6	23,7	37,2	23,0	34,0	37,2	23,0	37,2
20	20	A, B, C	1 1/8-18 UNEF	37,6	21,3	24,6	40,7	24,5	35,6	40,7	24,5	38,7
	20	R	1 1/8-24 UNS	37,6	21,3	24,6	40,7	24,5	35,6	40,7	24,5	38,7
	20	D	*	37,6	21,3	24,6	40,7	24,5	35,6	40,7	24,5	38,7
22	22	-	1 1/4-18 UNEF	40,6	21,9	25,0	43,7	26,0	37,1	43,7	26,0	40,2
24	24	-	1 3/8-18 UNEF	43,6	22,5	25,4	46,7	27,5	38,6	46,7	27,5	44,9
28	28	-	1 5/8-18 UNEF	48,6	23,6	25,4	51,7	30,0	41,1	51,7	30,0	46,0
32	32	B, C	1 7/8-16 UN	54,9	24,9	27,5	58,4	32,7	44,5	58,4	32,2	51,3
	32	A, R	1 29/32-18 UN	54,9	24,9	27,5	58,4	32,7	44,5	58,4	32,2	51,3
	32	D	*	54,9	24,9	27,5	58,4	32,7	44,5	58,4	32,2	51,3
36	36	B	2 1/16-16 UNS	64,6	27,5	29,0	67,7	38,0	49,1	67,7	38,0	54,3
	36	R	2 1/16-20 UNS	64,6	27,5	29,0	67,7	38,0	49,1	67,7	38,0	54,3
	36	C	2 1/8-16 UN	64,6	27,5	29,0	67,7	38,0	49,1	67,7	38,0	54,3
	36	A	2 1/8-18 UNS	64,6	27,5	29,0	67,7	38,0	49,1	67,7	38,0	54,3
	36	D	*	64,6	27,5	29,0	67,7	38,0	49,1	67,7	38,0	54,3
40	40	B	2 5/16-16 UN	70,6	30,1	30,1	72,2	41,1	51,3	72,2	41,1	57,5
	40	A, C, R	2 3/8-16UN	70,6	30,1	30,1	72,2	41,1	51,3	72,2	41,1	57,5
	40	D	*	69,3	30,1	30,1	72,2	41,1	51,3	72,2	41,1	57,5

1) All dimensions are in millimeters (mm).

2) **Manufacturer code D (*)**

Additional pieces supplied when manufacturer is unknown. All thread sizes for order number apply.



TABLE-II			
ENTRY SIZE	ØZ MIN	ØS	ØY ±0,3
04	6,35	9,49 ± 0,04	14,0
05	7,92	11,06 ± 0,04	15,5
06	9,53	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	15,88	18,96 ± 0,08	23,5
12	19,05	22,14 ± 0,08	26,7
14	22,23	25,30 ± 0,08	29,8
16	25,40	28,48 ± 0,08	33,0
18	28,58	31,65 ± 0,08	36,2
20	31,75	34,83 ± 0,08	39,4
22	34,93	37,98 ± 0,08	42,5
24	38,10	41,15 ± 0,08	45,7

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

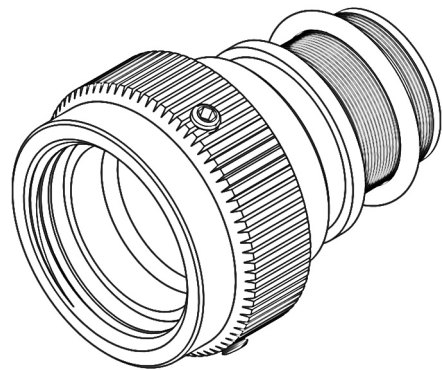
TABLE-IV FINISH CODES			
Finish Description	Color	Finish Code	Typical Applications
Cadmium per QQ-P-416, Type II, Class 3 over electroless nickel (500 hour salt-spray-resistant finish)	Olive Drab	B	Corrosion resistance for exposed environments
Electroless nickel, per AMS-C-26074 Class 4, Grade B	Bright	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

TABLE-V MANUFACTURER	
MANUFACTURER CODE	CONNECTOR MANUFACTURER
A	AMPHENOL-Class A
B	BENDIX-Class A/E/R
C	CANNON-Class A/E/R
D	UNKOWN-Class A/E/R
R	AMPHENOL-Class R
-	Manufacturer code not required

ATX21 – TINEL-LOCK SHIELDED BACKSHELL

CONNECTOR INTERFACE:

❖ MIL-DTL-26482 SERIES I



ATX	21	A	B	00	-	16	08	AI
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SERIES —
 ATX- RING INCLUDED (SEE RINGS OPTION)
 AT- RING NOT INCLUDED

CONNECTOR INTERFACE —

MATERIAL (TABLE III) —

FINISH (TABLE IV) —

ANGLE —

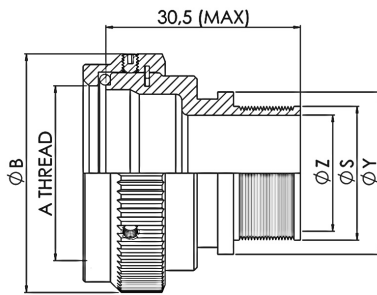
ORDER NUMBER (TABLE I) —

ENTRY SIZE (TABLE II) —

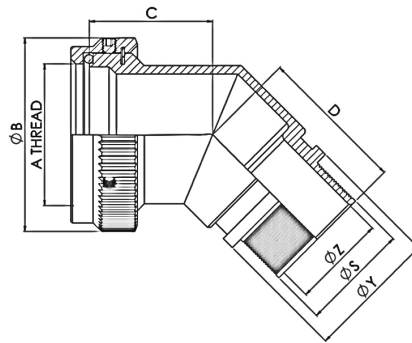
RING OPTION (SEE PAGE 15-16) —

AI - TO SUIT SINGLE BRAID
 BI - TO SUIT DOUBLE BRAID

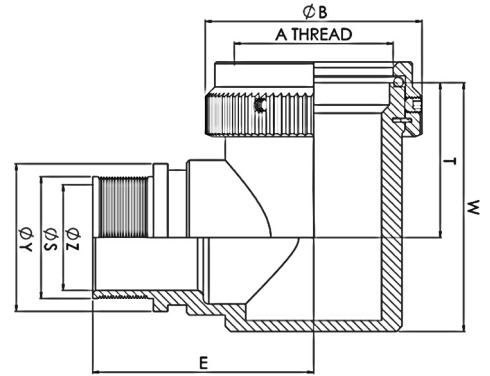




STRAIGHT BACKSHELL



45° BACKSHELL



90° BACKSHELL

TABLE-I

ORDER NO.	SHELL SIZE	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	08	7/16-28UNEF	18,05	04	13,9	26,8	25,0	17,5	26,20	22,5	17,5	26,4
10	10	9/16-24UNEF	21,55	06	14,7	27,5	28,0	18,6	27,95	25,8	18,6	28,2
12	12	11/16-24UNEF	24,65	08	15,1	28,0	31,5	20,5	29,45	29,5	20,5	29,7
14	14	13/16-20UNEF	27,65	10	16,0	29,0	35,0	22,5	31,00	32,7	22,5	31,2
16	16	15/16-20UNEF	31,05	12	16,3	29,7	38,0	24,0	32,70	35,5	24,0	32,9
18	18	1 1/16-18UNEF	34,35	12	17,3	30,5	41,5	26,0	34,25	39,3	26,0	34,5
20	20	1 3/16-18UNEF	37,55	14	18,1	30,9	45,0	28,0	35,80	42,7	28,0	36,1
22	22	1 5/16-18UNEF	40,55	16	18,5	31,1	48,0	29,5	37,40	45,7	29,5	37,6
24	24	1 7/16-18UNEF	43,55	18	19,3	32,1	51,0	31,0	38,90	48,4	31,0	39,1

All dimensions are in millimeters (mm).

TABLE-II

ENTRY SIZE	ØZ MIN	ØS	ØY ±0,3
04	6,35	9,49 ± 0,04	14,0
05	7,92	11,06 ± 0,04	15,5
06	9,53	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	15,88	18,96 ± 0,08	23,5
12	19,05	22,14 ± 0,08	26,7
14	22,23	25,30 ± 0,08	29,8
16	25,40	28,48 ± 0,08	33,0
18	28,58	31,65 ± 0,08	36,2
20	31,75	34,83 ± 0,08	39,4
22	34,93	37,98 ± 0,08	42,5
24	38,10	41,15 ± 0,08	45,7

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

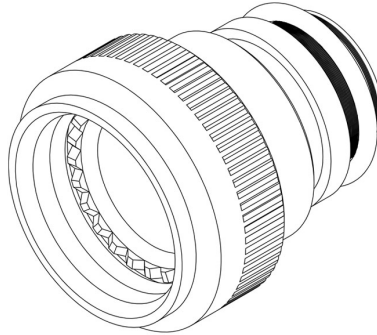
TABLE-IV FINISH CODES

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

ATX40 – TINEL-LOCK SHIELDED BACKSHELL

CONNECTOR INTERFACE:

- ❖ MIL-DTL-38999 SERIES III & IV
- ❖ EN3645



ATX	40	A	B	00	-	16	08	AI
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SERIES _____
 ATX- RING INCLUDED (SEE RINGS OPTION)
 AT- RING NOT INCLUDED

CONNECTOR INTERFACE _____

MATERIAL (TABLE III) _____

FINISH (TABLE IV) _____

ANGLE _____

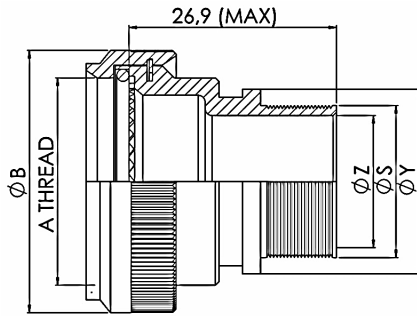
ORDER NUMBER (TABLE I) _____

ENTRY SIZE (TABLE II) _____

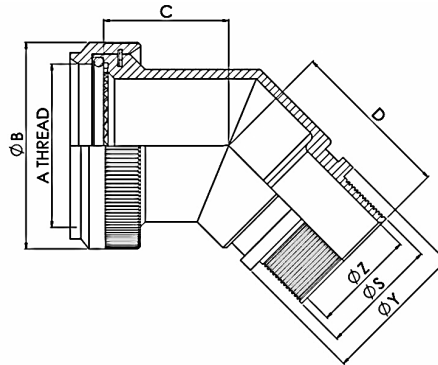
RING OPTION (SEE PAGE 15-16) _____

- AI – TO SUIT SINGLE BRAID
- BI – TO SUIT DOUBLE BRAID

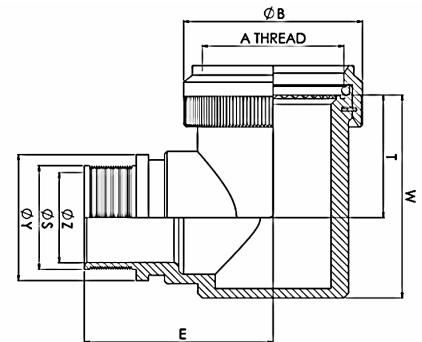




STRAIGHT BACKSHELL



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

All dimensions are in millimeters (mm).

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
24	38,10	41,15 ± 0,08	45,7

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

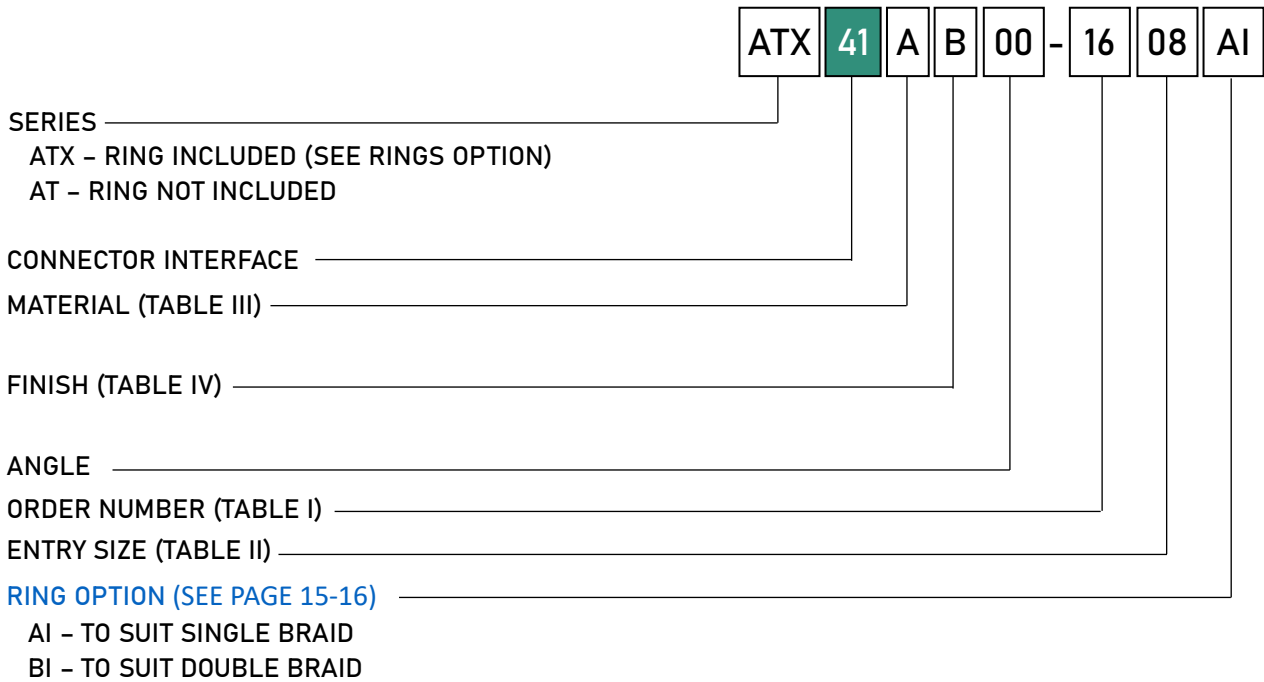
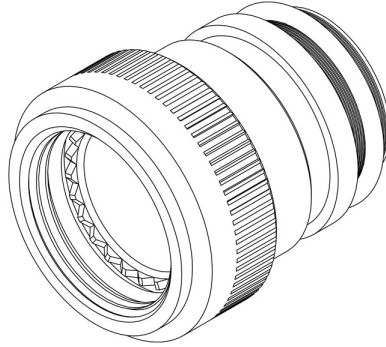
TABLE-IV FINISH CODES

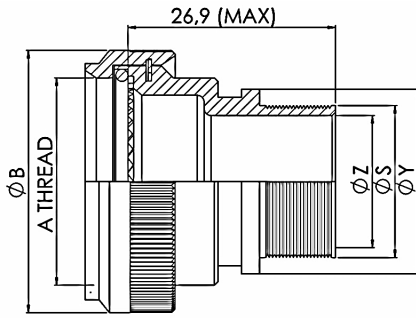
Finish Description	Color	Finish Code	Typical Applications
Cadmium per QQ-P-416, Type II, Class 3 over electroless nickel (500 hour salt-spray-resistant finish)	Olive Drab	B	Corrosion resistance for exposed environments
Electroless nickel, per AMS-C-26074 Class 4, Grade B	Bright	C	High conductivity for 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

ATX41 – TINEL-LOCK BACKSHELL

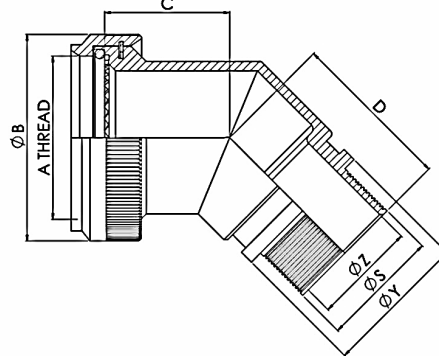
CONNECTOR INTERFACE:

- ❖ MIL-DTL-38999 SERIES I & II
- ❖ MIL-DTL-27599

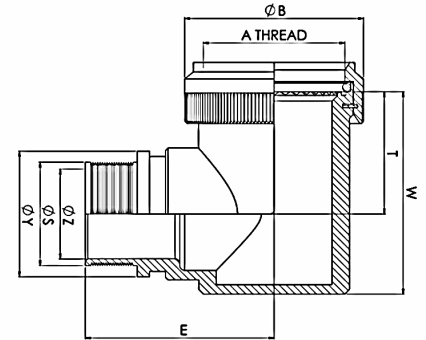




STRAIGHT BACKSHELL



45° BACKSHELL



90° BACKSHELL

TABLE-I

TABLE-I												
ORDER NO.		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		
										SHELL SIZE		W ±0,5
Series II	Series I											
08	09	7/16-28UNEF	18,3	04	16,4	26,8	21,0	14,0	26,20	21,3	16,4	26,4
10	11	9/16-24UNEF	21,5	07	17,2	27,5	24,0	15,5	27,95	24,4	17,3	28,2
12	13	11/16-24UNEF	24,5	08	17,6	28,0	27,0	17,0	29,45	28,4	19,5	29,7
14	15	13/16-20UNEF	27,8	10	18,5	29,0	31,0	19,5	31,00	31,2	21,0	31,2
16	17	15/16-20UNEF	30,8	12	19,2	29,7	34,0	21,0	32,70	34,3	22,8	32,9
18	19	1 1/16-18UNEF	34,1	14	19,6	30,5	35,0	20,0	34,25	38,6	25,3	34,5
20	21	1 3/16-18UNEF	37,3	16	20,4	30,9	38,0	21,5	35,80	40,8	26,1	36,1
22	23	1 5/16-18UNEF	40,5	18	20,8	31,1	42,0	24,0	37,40	43,8	27,6	37,6
			41,0									
24	25	1 7/16-18UNEF	43,7	20	21,7	32,1	45,0	25,5	38,90	46,5	29,1	39,1

All dimensions are in millimeters (mm).

TABLE-II

ENTRY SIZE	ØZ MIN	ØS	ØY ±0,3
04	6,35	9,49 ± 0,04	14,0
05	7,92	11,06 ± 0,04	15,5
06	9,53	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	15,88	18,96 ± 0,08	23,5
12	19,05	22,14 ± 0,08	26,7
14	22,23	25,30 ± 0,08	29,8
16	25,40	28,48 ± 0,08	33,0
18	28,58	31,65 ± 0,08	36,2
20	31,75	34,83 ± 0,08	39,4
22	34,93	37,98 ± 0,08	42,5
24	38,10	41,15 ± 0,08	45,7

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

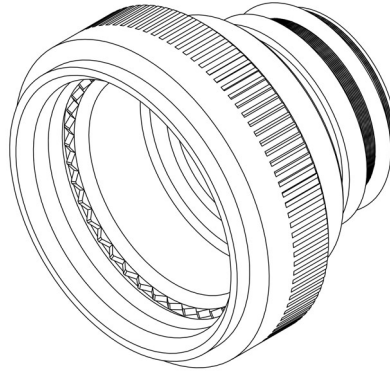
TABLE-IV FINISH CODES

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

ATX47 – TINEL-LOCK BACKSHELL

CONNECTOR INTERFACE:

❖ VG96912 SERIES I



ATX	47	A	B	00	-	16	08	AI
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SERIES

ATX – RING INCLUDED (SEE RINGS OPTION)
AT- RING NOT INCLUDED

CONNECTOR INTERFACE

MATERIAL (TABLE III)

FINISH (TABLE IV)

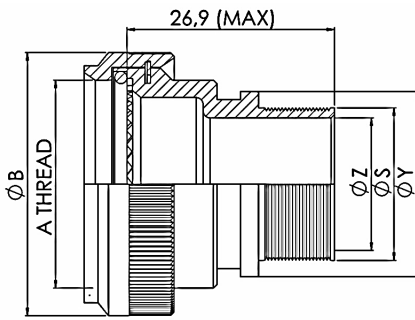
ANGLE

ORDER NUMBER (TABLE I)

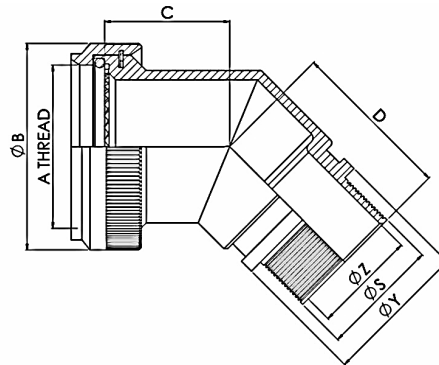
ENTRY SIZE (TABLE II)

[RING OPTION \(SEE PAGE 15-16\)](#)

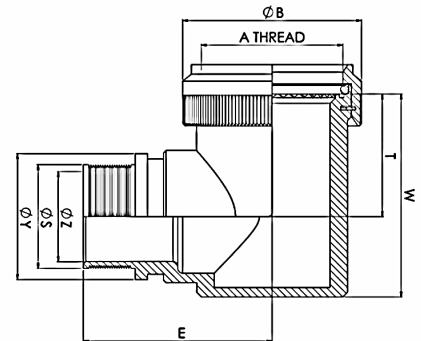
AI – TO SUIT SINGLE BRAID
BI – TO SUIT DOUBLE BRAID



STRAIGHT BACKSHELL



45° BACKSHELL



90° BACKSHELL

TABLE-I

ORDER NO.	SHELL SIZE	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	08	7/16-28UNEF	18,3	04	16,4	26,8	21,0	14,0	26,20	21,3	16,4	26,4
10	10	9/16-24UNEF	21,5	07	17,2	27,5	24,0	15,5	28,00	24,4	17,3	28,2
12	12	11/16-24UNEF	24,5	08	17,6	28,0	27,0	17,0	29,50	28,4	19,5	29,7
14	14	13/16-20UNEF	27,8	10	18,5	29,0	31,0	19,5	31,00	31,2	21,0	31,2
16	16	15/16-20UNEF	30,8	12	19,2	29,7	34,0	21,0	32,70	34,3	22,8	32,9
18	18	1 1/16-18UNEF	34,1	14	19,6	30,5	35,0	20,0	34,30	38,6	25,3	34,5
20	20	1 3/16-18UNEF	37,3	16	20,4	30,9	38,0	21,5	35,80	40,8	26,1	36,1
22	22	1 5/16-18UNEF	40,5	18	20,8	31,1	42,0	24,0	37,40	43,8	27,6	37,6
24	24	1 7/16-18UNEF	43,7	20	21,7	32,1	45,0	25,5	38,90	46,5	29,1	39,1

All dimensions are in millimeters (mm).

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
24	38,10	41,15 ± 0,08	45,7

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

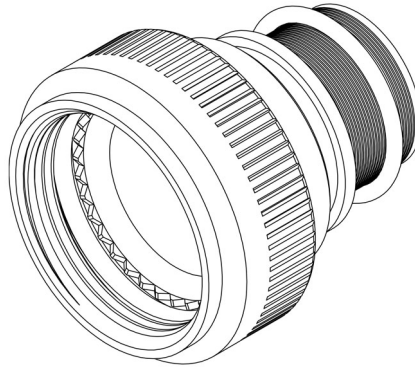
TABLE-IV FINISH CODES

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

ATX54 – TINEL-LOCK BACKSHELL

CONNECTOR INTERFACE:

- ❖ MIL-DTL-26482 SERIES II
- ❖ MIL-DTL-81703 SERIES I & II
- ❖ MIL-DTL-5015 CRIMP
- ❖ MIL-DTL-27599



ATX	54	A	B	00	-	16	08	AI
-----	----	---	---	----	---	----	----	----

SERIES _____
 ATX – RING INCLUDED (SEE RINGS OPTION)
 AT – RING NOT INCLUDED

CONNECTOR INTERFACE _____

MATERIAL (TABLE III) _____

FINISH (TABLE IV) _____

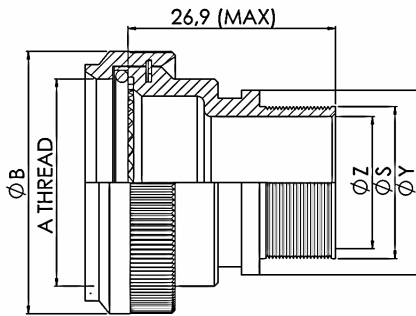
ANGLE _____

ORDER NUMBER (TABLE I) _____

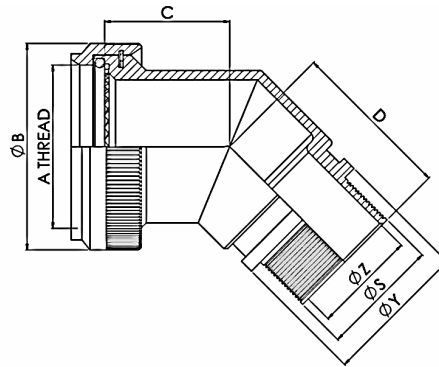
ENTRY SIZE (TABLE II) _____

RING OPTION (SEE PAGE 15-16) _____

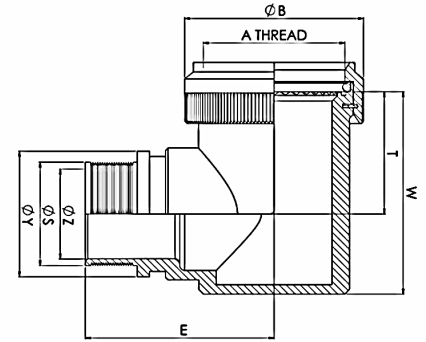
AI – TO SUIT SINGLE BRAID
 BI – TO SUIT DOUBLE BRAID



STRAIGHT BACKSHELL



45° BACKSHELL



90° BACKSHELL

TABLE-I

TABLE-I													
ORDER NO.			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
SHELL SIZE													
MIL-DTL-5015 Crimp	MIL-C-81703 Series III	MIL-DTL-26482 Series II											
-	3	-	9/16-24 UNEF	17,0	04	16,8	27,0	26,4	17,8	25,9	26,3	16,0	25,9
8 & 8S	-	8	1/2-20 UNF	15,6	04	16,6	26,8	24,5	17,5	26,2	22,4	17,5	26,2
10, 10S & 10SL	-	10	5/8-24 UNEF	18,6	06	16,8	27,5	26,5	17,8	28,0	25,0	18,8	28,0
12 & 12S	7	12	3/4-20 UNEF	21,7	08	17,3	28,0	29,0	18,7	29,5	28,3	20,4	29,5
14 & 14S	12	14	7/8-20 UNEF	24,9	08	18,1	29,0	30,5	19,0	30,3	30,4	21,5	31,0
16 & 16S	19	16	1-20 UNEF	28,2	10	19,0	29,7	34,0	21,0	32,7	33,5	23,0	32,7
18	27	18	1 1/16-18 UNEF	30,9	12	19,2	30,5	37,0	23,5	32,7	35,5	24,0	32,7
20	37	20	1 3/16-18 UNEF	34,1	14	20,1	30,9	42,0	27,0	34,3	38,8	25,7	34,3
22	-	22	1 5/16-18 UNEF	37,3	16	20,3	31,1	44,0	27,0	35,8	41,9	27,2	35,8
24	-	24	1 7/16-18 UNEF	40,4	18	21,8	32,1	45,0	27,0	37,4	44,8	28,7	37,4
28	-	-	1 3/4-18UNS	50,0	22	23,3	32,5	54,2	31,4	41,9	50,7	31,6	41,9
32	-	-	2-18 UNS	56,3	24	25,0	29,3	60,9	36,4	45,3	60,0	33,5	45,3
36	-	-	2 1/4-16 UN	62,7	28	26,2	30,7	67,2	38,0	48,4	65,5	36,0	48,4
40	-	-	2 1/2-16 UN	69,0	28	28,6	32,0	73,2	41,0	51,4	72,0	39,3	51,4
44	-	-	2 3/4-16 UN	75,4	28	30,1	33,7	79,5	44,1	54,6	75,5	40,8	54,6
48	-	-	3-16UN	81,7	28	31,3	34,9	85,8	47,2	57,7	75,5	40,8	57,7
-	61	-	1 1/2-18 UNEF	42,0	18	22,1	26,6	47,8	28,0	38,7	48,3	27,0	38,7

TABLE-II

ENTRY SIZE	ØZ MIN	ØS	ØY ±0,3
04	6,35	9,49 ± 0,04	14,0
05	7,92	11,06 ± 0,04	15,5
06	9,53	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	15,88	18,96 ± 0,08	23,5
12	19,05	22,14 ± 0,08	26,7
14	22,23	25,30 ± 0,08	29,8
16	25,40	28,48 ± 0,08	33,0
18	28,58	31,65 ± 0,08	36,2
20	31,75	34,83 ± 0,08	39,4
22	34,93	37,98 ± 0,08	42,5
24	38,10	41,15 ± 0,08	45,7
28	44,45	47,50 ± 0,08	52,0

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

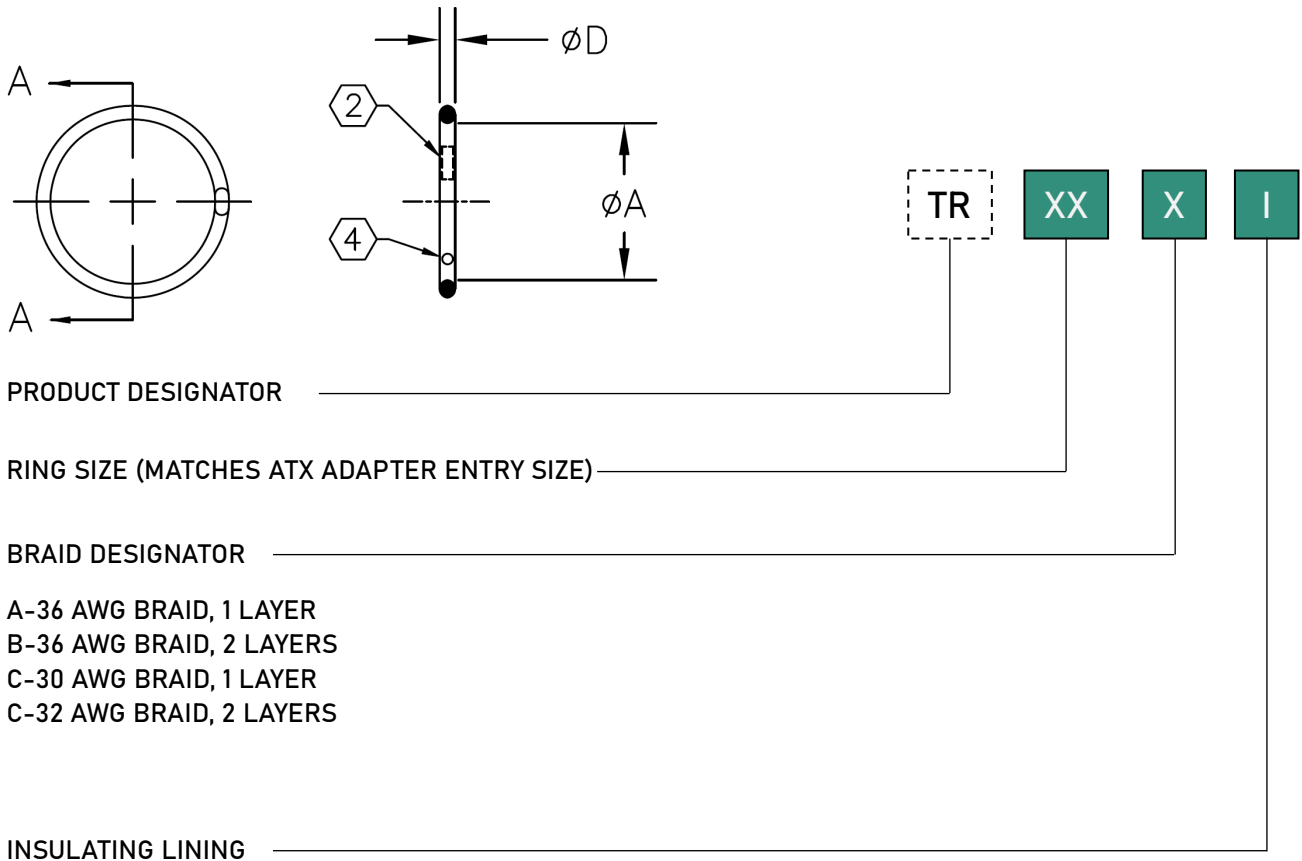
TABLE-IV FINISH CODES

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.



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

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BACKSHELLS

