



ATP

BACKSHELLS



HIGH PERFORMANCE BACKSHELLS

NCAGE CODE: TD589

AS 9100

Quality System

ATP company products define several types the standard for highly reliable screened and unscreened termination systems.

Our company provides environment resisting electrically passive components in defence industries, including aerospace, naval and land forces, communication, industrial, medical areas.

We also define innovative solutions a full range of connector series as shown below.

- ❖ MIL-DTL-38999 SERIES I, II, III & IV
- ❖ MIL-DTL-26482 SERIES
- ❖ MIL-DTL-5015 CRIMP SERIES
- ❖ MIL-DTL-5015 (MS3100)
- ❖ MIL-DTL-27599
- ❖ MIL-DTL-83723 SERIES I & III
- ❖ AS81703 SERIES III
- ❖ EN3645

ATP offers its products designed for a wide range of military connectors series.

Our products are available in many configurations for the mating application and easy to install and kitted for customer convenience.

We offer a full range of backshells in different materials and plating.

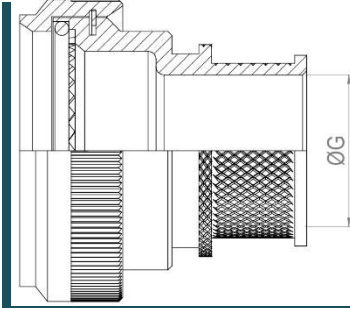
- ❖ ALUMINUM SERIES
- ❖ STAINLESS STEEL SERIES
- ❖ NICKEL ALUMINUM BRONZE SERIES
- ❖ ALUMINUM ELECTROLESS NICKEL
- ❖ ALUMINUM BLACK ANODIZE
- ❖ ALUMINUM ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
- ❖ ALUMINUM OLIVE DRAP CADMIUM OVER ELECTROLESS NICKEL
- ❖ ALUMINUM ZINC NICKEL BLACK OVER ELECTROLESS NICKEL



ENTRY SIZE

How can you determine the Wire Bundle Size (ØG)?

You can calculate with following formula easily.



$$D (\text{ØG}) = 1,2 \sqrt{N_1 \cdot d_1^2 + N_2 \cdot d_2^2 + N_3 \cdot d_3^2 + \dots \infty}$$

D = Bundle diameter (ØG)

N = Number of wires

d = Diameter of wires

ADAPTER SELECTION

YOU CAN DETERMINE YOUR ENTRY SIZE WITH FOLLOWING FIGURE

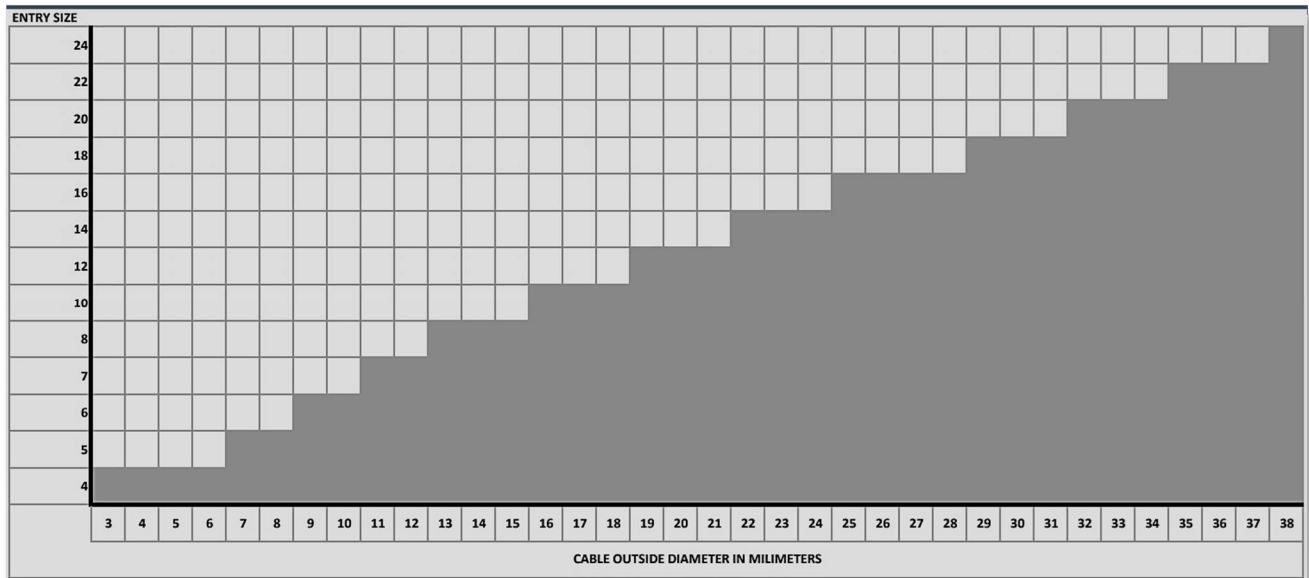


FIGURE: ENTRY SIZE BY CABLE OUTSIDE DIAMETER (IN MM)

INFORMATION ABOUT ATP ADAPTER FAMILY

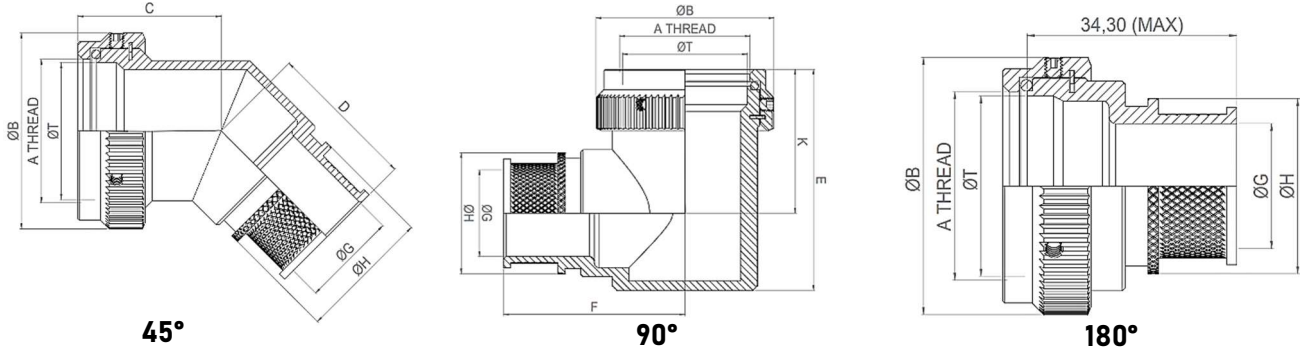
SPIN COUPLING SHRINK BOOT ADAPTERS

SPRING TERMINATION BACKSHELL	
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-26482 Series I	ATX16 (Page-4)
SHIELDED BACKSHELL WITH SELF LOCKING	
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-26482 Series II ❖ AS81703 Series III ❖ MIL-DTL-5015 Crimp ❖ MIL-DTL-83723 Series I & III	ATX82 (Page-5, 6)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-38999 Series I & II ❖ MIL-DTL-27599	ATX85 (Page-7, 8)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-38999 Series III & IV	ATX88 (Page-9, 10)
SHIELDED BACKSHELL	
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-5015 (MS3100)	ATX5015 (Page-11, 12)
UNSHIELDED BACKSHELL WITH SELF LOCKING	
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-26482 Series I	ATX15 (Page-13)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-26482 Series II ❖ AS81703 Series III ❖ MIL-DTL-5015 Crimp ❖ MIL-DTL-83723 Series I & III	ATX60 (Page-14)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-38999 Series I & II ❖ MIL-DTL-27599	ATX62 (Page-15)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-38999 Series III & IV	ATX69 (Page-16)
SOLID (FIXED)*	
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-26482 Series I	ATX10 (Page-17)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-26482 Series II ❖ AS81703 Series III ❖ MIL-DTL-5015 Crimp ❖ MIL-DTL-83723 Series I & III	ATX25 (Page-18)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-38999 Series I & II ❖ MIL-DTL-27599	ATX30 (Page-19)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-38999 Series III & IV	ATX35 (Page-20)
SERIES FOR	ATP BASIC PART NUMBER
❖ MIL-DTL-5015 (MS3100)	ATX50 (Page-21)

* Use only straight application.



ATX16-SPRING TERMINATION BACKSHELL



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	ENTRY SIZE	PLATING	MATERIAL
ATX	16	00	20	12	B	A
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6

TABLE-1 (SERIES FOR)

MIL-DTL-26482 SERIES I

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX16 / SHELL SIZE

SHELL SIZE	A THREAD	ØB MAX	ØT MIN	C ±0,5	D ±0,5	E MAX	F MAX	K ±0,5
08	0.437-28 UNEF	18,1	7,0	14,1	24,7	25,2	30,4	17,5
10	0.562-24 UNEF	21,6	9,7	14,9	25,9	28,2	32,2	18,6
12	0.687-24 UNEF	24,7	13,4	15,3	26,3	31,7	33,7	20,5
14	0.812-20 UNEF	27,7	15,8	16,2	27,2	35,2	35,2	22,5
16	0.937-20 UNEF	31,1	18,9	16,5	28,0	38,2	36,9	24,0
18	1.062-18 UNEF	34,4	21,3	17,3	28,3	41,7	38,5	26,0
20	1.187-18 UNEF	37,6	24,5	18,2	29,1	45,2	41,1	28,0
22	1.312-18 UNEF	40,6	27,7	18,5	29,5	48,2	41,6	29,5
24	1.437-18 UNEF	43,6	30,9	19,4	30,4	51,2	43,1	31,0

TABLE-4 / ATX16 / ENTRY SIZE

ENTRY SIZE	ØG MIN	ØH MAX	SPRING REF.	BOOT SIZE	
				STRAIGHT	90°
03	4,77	13,9	HE050	202 K 121	222 K 121
04	6,35	13,9	HE050	202 K 121	222 K 121
05	7,92	15,5	HE100	202 K 121	222 K 121
06	9,52	17,2	HE100	202 K 132	222 K 132
07	11,10	18,7	HE100	202 K 132	222 K 132
08	12,70	20,3	HE200	202 K 132	222 K 132
09	14,27	21,9	HE200	202 K 142	222 K 142
10	15,88	23,5	HE200	202 K 142	222 K 142
11	17,47	25,1	HE200	202 K 142	222 K 142
12	19,05	26,7	HE300	202 K 142	222 K 142
13	20,62	28,3	HE300	202 K 153	222 K 152
14	22,23	29,9	HE300	202 K 153	222 K 152
15	23,82	31,5	HE300	202 K 153	222 K 152
16	25,40	33,1	HE300	202 K 153	222 K 152
17	27,00	34,7	HE400	202 K 163	222 K 163
18	28,60	36,3	HE400	202 K 163	222 K 163
19	30,20	37,9	HE400	202 K 163	222 K 163
20	31,80	39,5	HE400	202 K 163	222 K 163
21	33,38	41,1	HE400	202 K 174	222 K 174
22	35,00	42,7	HE400	202 K 174	222 K 174
23	36,58	44,3	HE400	202 K 174	222 K 174
24	38,10	45,9	HE400	202 K 174	222 K 174

TABLE-5 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

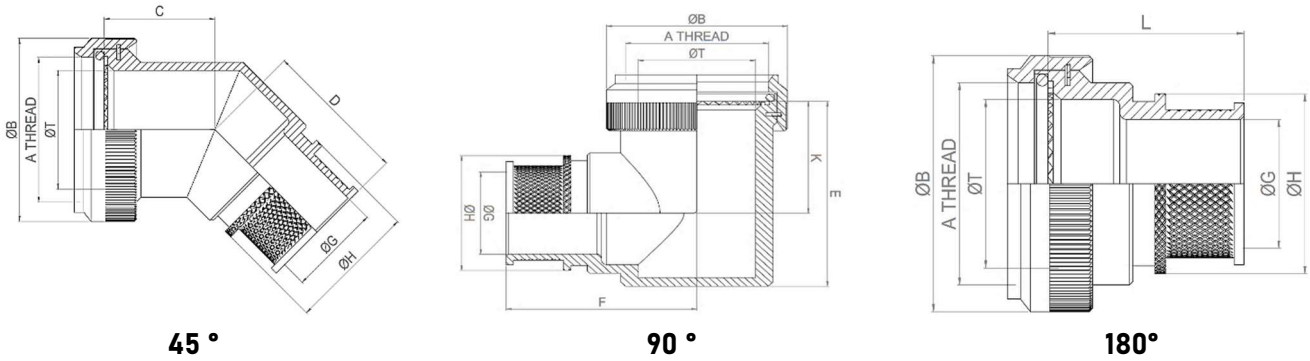
TABLE-6 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL, ALUMINUM, BRONZE SERIES

All dimensions are in millimeters (mm).



ATX82-SHIELDED BACKSHELL WITH SELF LOCKING



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	ENTRY SIZE	PLATING	MATERIAL	MODIFICATION
ATX	82	00	16	10	B	A	S
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6	SEE TABLE-7

TABLE-1 (SERIES FOR)

MIL-DTL-26482 SERIES II	MIL-DTL-5015 CRIMP
AS81703 SERIES III	MIL-DTL-83723 SERIES I & III

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX82 / SHELL SIZE

SHELL SIZE			A THREAD	ØB MAX	ØT MIN	C MAX	D MAX	E MAX	F MAX	K ±0,5	L MAX
MIL-DTL-5015 Crimp	MIL-C-81703 Series III	MIL-DTL-26482 Series II									
-	3	-	0.562-24 UNEF	17,0	6,6	16,7	26,5	26,5	29,3	17,7	28,0
8 & 8S	-	8	0.500-20 UNF	15,5	6,4	16,5	26,3	24,6	30,4	17,4	28,0
10, 10S & 10SL	-	10	0.625-24 UNEF	18,5	9,1	16,7	26,1	26,6	32,1	17,7	28,0
12 & 12S	7	12	0.750-20 UNEF	21,6	12,6	17,2	26,0	29,1	32,0	18,6	28,0
14 & 14S	12	14	0.875-20 UNEF	24,8	14,5	18,0	27,8	30,6	33,5	19,0	28,0
16 & 16S	19	16	1.000-20 UNEF	28,1	17,6	19,0	28,1	34,1	36,8	21,0	28,0
18	27	18	1.062-18 UNEF	30,8	19,6	19,1	29,0	37,1	36,8	23,4	28,0
20	37	20	1.187-18 UNEF	34,0	22,8	20,0	29,2	42,1	38,4	27,0	28,0
22	-	22	1.312-18 UNEF	37,2	26,0	20,2	29,5	44,1	40,0	27,0	28,0
24	-	24	1.437-18 UNEF	40,3	29,0	21,7	31,4	45,1	41,7	27,0	28,0
28	-	-	1.750 UNS	50,0	34,8	23,2	32,0	54,3	45,5	31,3	28,0
32	-	-	2.000-18 UNS	56,2	41,1	25,0	33,6	62,4	48,0	36,3	40,0
36	-	-	2.250-16 UN	62,6	46,6	26,1	34,8	67,3	51,7	38,0	50,0
40	-	-	2.500-16 UN	69,0	52,0	28,5	36,1	73,3	54,7	41,0	50,0
44	-	-	2.750-16 UN	75,3	58,5	30,0	37,7	79,6	58,0	44,1	60,0
48	-	-	3.000-16 UN	81,6	65,0	31,2	39,0	86,0	61,0	47,1	60,0
-	61	-	1.500-18 UNEF	42,0	30,0	22,0	31,3	48,0	52,0	28,0	28,0

All dimensions are in millimeters (mm).



ATX82-SHIELDED BACKSHELL WITH SELF LOCKING

TABLE-4 / ATX82 / ENTRY SIZE

ENTRY SIZE	ØG MIN	ØH MAX	SPRING REF.	BOOT SIZE	
				STRAIGHT	90°
03	4,6	13,8	HE050	202 K 121	222 K 121
04	6,2	13,8	HE050	202 K 121	222 K 121
05	7,8	15,4	HE100	202 K 121	222 K 121
06	9,4	17,1	HE100	202 K 132	222 K 132
07	11,0	18,6	HE100	202 K 132	222 K 132
08	12,6	20,2	HE200	202 K 132	222 K 132
09	14,1	21,8	HE200	202 K 142	222 K 142
10	15,7	23,4	HE200	202 K 142	222 K 142
11	17,3	25,0	HE200	202 K 142	222 K 142
12	19,0	26,6	HE300	202 K 142	222 K 142
13	20,5	28,2	HE300	202 K 153	222 K 152
14	22,1	29,8	HE300	202 K 153	222 K 152
15	23,7	31,4	HE300	202 K 153	222 K 152
16	25,4	33,0	HE300	202 K 153	222 K 152
17	27,0	34,6	HE400	202 K 163	222 K 163
18	28,5	36,2	HE400	202 K 163	222 K 163
19	30,1	37,9	HE400	202 K 163	222 K 163
20	31,7	39,4	HE400	202 K 163	222 K 163
21	33,2	41,0	HE400	202 K 174	222 K 174
22	35,0	42,6	HE400	202 K 174	222 K 174
23	36,4	44,2	HE400	202 K 174	222 K 174
24	38,0	45,8	HE400	202 K 174	222 K 174

All dimensions are in millimeters (mm).

TABLE-5 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

TABLE-6 / MATERIAL CODES

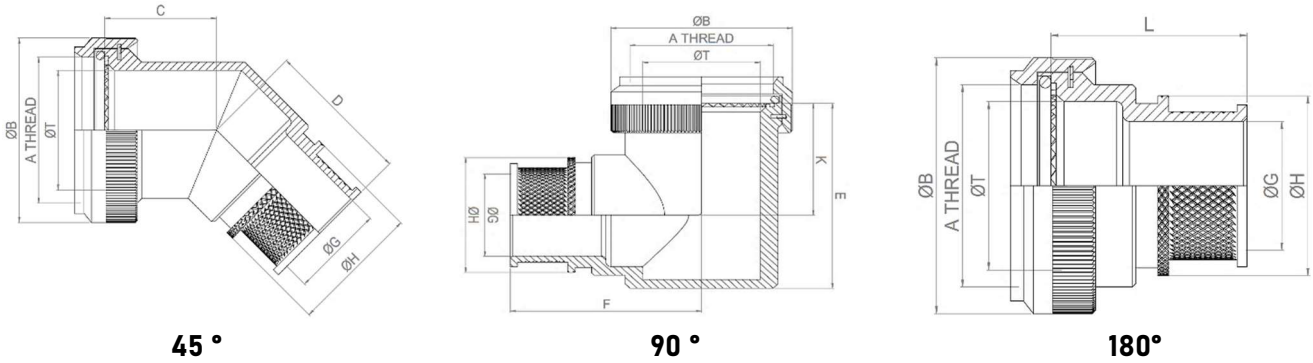
CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-7 / ADDITION CODE

CODE	EXPLANATION
S	LOCK WIRE HOLES 3 AT 120° ± 5°
H	HEXAGONAL
D	DOUBLE SHEILED



ATX85-SHIELDED BACKSHELL WITH SELF LOCKING



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	ENTRY SIZE	PLATING	MATERIAL	MODIFICATION
ATX	85	00	17	10	B	A	S
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6	SEE TABLE-7

TABLE-1 (SERIES FOR)

MIL-DTL-38999 SERIES I & II

MIL-DTL-27599

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX85 / SHELL SIZE

SHELL SIZE		A THREAD	ØB MAX	ØT MIN	C MAX	D MAX	E MAX	F MAX	K ±0,5	L MAX
Series I	Series II									
09	08	0.437-28 UNEF	18,0	6,7	16,3	25,6	22,6	30,4	15,0	28,0
11	10	0.562-24 UNEF	21,0	10,1	17,1	26,8	26,1	32,1	16,5	28,0
13	12	0.687-24 UNEF	24,4	13,0	17,5	27,2	29,1	33,6	17,5	28,0
15	14	0.812-20 UNEF	27,7	16,1	18,4	28,1	32,1	35,1	19,5	28,0
17	16	0.937-20 UNEF	30,7	19,2	19,1	29,0	35,6	36,8	21,5	28,0
19	18	1.062-18 UNEF	34,0	22,2	19,5	29,2	39,6	38,4	22,5	28,0
21	20	1.187-18 UNEF	37,2	25,7	20,3	30,0	42,1	41,0	25,0	28,0
23	22	1.312-18 UNEF	41,0	28,2	20,7	30,4	45,1	41,5	25,5	28,0
25	24	1.437-18 UNEF	43,6	31,4	21,6	31,3	48,1	43,1	27,5	28,0

All dimensions are in millimeters (mm).

ATX85-SHIELDED BACKSHELL WITH SELF LOCKING

TABLE-4 / ATX85 / ENTRY SIZE

ENTRY SIZE	ØG MIN	ØH MAX	SPRING REF.	BOOT SIZE	
				STRAIGHT	90°
03	4,6	13,8	HE050	202 K 121	222 K 121
04	6,2	13,8	HE050	202 K 121	222 K 121
05	7,8	15,4	HE100	202 K 121	222 K 121
06	9,4	17,1	HE100	202 K 132	222 K 132
07	11,0	18,6	HE100	202 K 132	222 K 132
08	12,6	20,2	HE200	202 K 132	222 K 132
09	14,1	21,8	HE200	202 K 142	222 K 142
10	15,7	23,4	HE200	202 K 142	222 K 142
11	17,3	25,0	HE200	202 K 142	222 K 142
12	19,0	26,6	HE300	202 K 142	222 K 142
13	20,5	28,2	HE300	202 K 153	222 K 152
14	22,1	29,8	HE300	202 K 153	222 K 152
15	23,7	31,4	HE300	202 K 153	222 K 152
16	25,4	33,0	HE300	202 K 153	222 K 152
17	27,0	34,6	HE400	202 K 163	222 K 163
18	28,5	36,2	HE400	202 K 163	222 K 163
19	30,1	37,9	HE400	202 K 163	222 K 163
20	31,7	39,4	HE400	202 K 163	222 K 163
21	33,2	41,0	HE400	202 K 174	222 K 174
22	35,0	42,6	HE400	202 K 174	222 K 174
23	36,4	44,2	HE400	202 K 174	222 K 174
24	38,0	45,8	HE400	202 K 174	222 K 174

All dimensions are in millimeters (mm).

TABLE-5 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

TABLE-6 / MATERIAL CODES

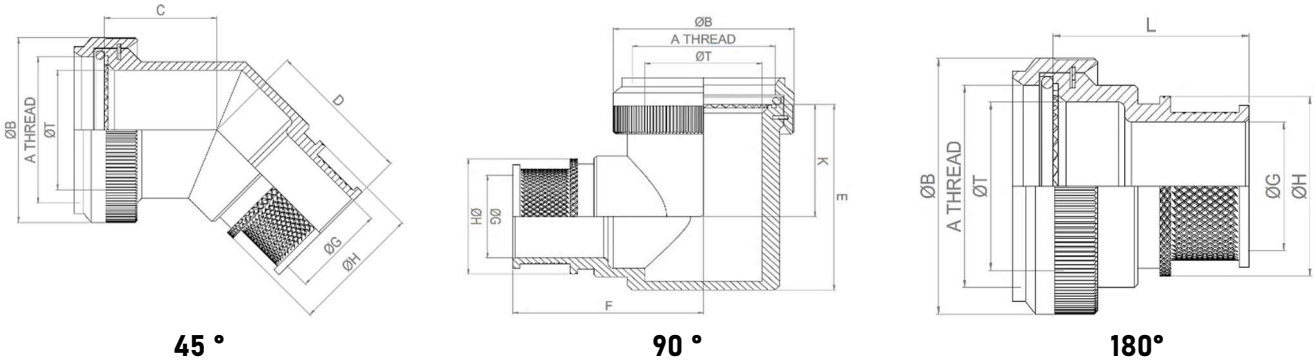
CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-7 / ADDITION CODE

CODE	EXPLANATION
S	LOCK WIRE HOLES 3 AT 120° ± 5°
H	HEXAGONAL
D	DOUBLE SHEILED



ATX88-SHIELDED BACKSHELL WITH SELF LOCKING



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	ENTRY SIZE	PLATING	MATERIAL	MODIFICATION
ATX	88	00	17	10	B	A	S
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6	SEE TABLE-7

TABLE-1 (SERIES FOR)

MIL-DTL-38999 SERIES III & IV

EN3645

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX88 / SHELL SIZE

SHELL SIZE	A THREAD	ØB MAX	ØT MIN	C MAX	D MAX	E MAX	F MAX	K ±0,5	L MAX
9 / A	M12 x 1,0	18,0	6,6	13,0	25,6	25,6	30,4	17,4	28,0
11 / B	M15 x 1,0	21,0	10,1	13,8	26,8	26,6	32,1	17,4	28,0
13 / C	M18 x 1,0	24,4	13,4	14,4	27,2	31,1	33,6	20,0	28,0
15 / D	M22 x 1,0	28,5	16,1	15,4	28,1	37,1	35,1	24,5	28,0
17 / E	M25 x 1,0	32,4	19,3	16,0	29,0	40,1	36,8	26,6	28,0
19 / F	M28 x 1,0	35,4	21,7	16,7	29,2	44,6	38,4	27,0	28,0
21 / G	M31 x 1,0	37,0	25,1	17,0	30,0	49,1	40,0	30,3	28,0
23 / H	M34 x 1,0	39,8	28,1	17,6	30,4	51,6	41,5	31,4	28,0
25 / J	M37 x 1,0	43,4	31,3	18,3	31,3	53,1	43,1	28,4	28,0

All dimensions are in millimeters (mm).

ATX88-SHIELDED BACKSHELL WITH SELF LOCKING

TABLE-4 / ATX88 / ENTRY SIZE

ENTRY SIZE	ØG MIN	ØH MAX	SPRING REF.	BOOT SIZE	
				STRAIGHT	90°
03	4,6	13,8	HE050	202 K 121	222 K 121
04	6,2	13,8	HE050	202 K 121	222 K 121
05	7,8	15,4	HE100	202 K 121	222 K 121
06	9,4	17,1	HE100	202 K 132	222 K 132
07	11,0	18,6	HE100	202 K 132	222 K 132
08	12,6	20,2	HE200	202 K 132	222 K 132
09	14,1	21,8	HE200	202 K 142	222 K 142
10	15,7	23,4	HE200	202 K 142	222 K 142
11	17,3	25,0	HE200	202 K 142	222 K 142
12	19,0	26,6	HE300	202 K 142	222 K 142
13	20,5	28,2	HE300	202 K 153	222 K 152
14	22,1	29,8	HE300	202 K 153	222 K 152
15	23,7	31,4	HE300	202 K 153	222 K 152
16	25,4	33,0	HE300	202 K 153	222 K 152
17	27,0	34,6	HE400	202 K 163	222 K 163
18	28,5	36,2	HE400	202 K 163	222 K 163
19	30,1	37,9	HE400	202 K 163	222 K 163
20	31,7	39,4	HE400	202 K 163	222 K 163
21	33,2	41,0	HE400	202 K 174	222 K 174
22	35,0	42,6	HE400	202 K 174	222 K 174
23	36,4	44,2	HE400	202 K 174	222 K 174
24	38,0	45,8	HE400	202 K 174	222 K 174

All dimensions are in millimeters (mm).

TABLE-5 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

TABLE-6 / MATERIAL CODES

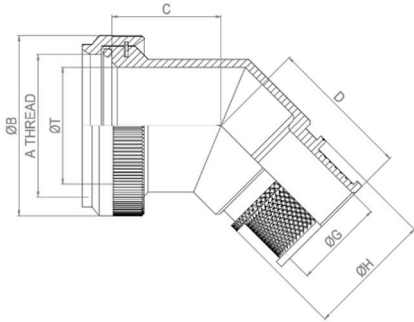
CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-7 / ADDITION CODE

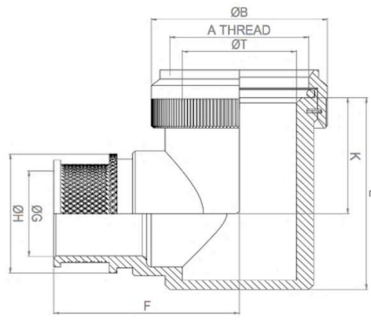
CODE	EXPLANATION
S	LOCK WIRE HOLES 3 AT 120° ± 5°
H	HEXAGONAL
D	DOUBLE SHEILED



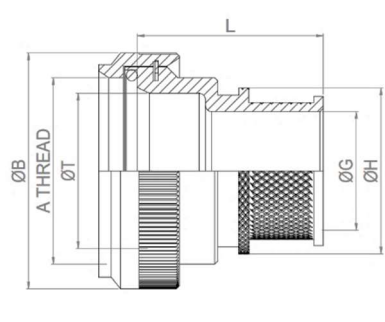
ATX5015-SHIELDED BACKSHELL



45°



90°



180°

DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	MANUFACTURER CODE	ANGLE	SHELL SIZE	ENTRY SIZE	PLATING	MATERIAL	MODIFICATION
ATX	5015	C	00	20	12	B	A	S
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6	SEE TABLE-7	SEE TABLE-8

TABLE-1 (SERIES FOR)

MIL-DTL-5015 (MS3100)

TABLE-3 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-2 / 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

TABLE-4 / ATX5015 / SHELL SIZE

ORDER NUMBER	SHELL SIZE	MANUFACTURER CODE	A THREAD	ØB MAX	ØT MIN	C ±0,5	D MAX	E MAX	F MAX	K ±0,5	L MAX
08	8S	B	0.375-37 UNEF	18,0	7,9	15,0	25,3	22,2	30,2	15,2	18,0
08	8S	C	0.437-28 UNEF	18,0	7,9	15,0	25,3	22,2	30,2	15,2	18,0
08	8S	A, R	0.437-27 UNS	18,0	7,9	15,0	25,3	22,2	30,2	15,2	18,0
08	8S	D	*	18,0	7,9	15,0	25,3	22,2	30,2	15,2	18,0
10	10S	-	0.500-28 UNEF	19,5	9,4	15,4	25,6	23,7	32,2	15,7	19,5
10SL	10SL	C	0.562-24 UNEF	23,0	12,7	18,4	26,4	27,7	33,7	17,5	23,0
10SL	10SL	A, B, R	0.625-24 UNEF	23,0	12,7	18,4	26,4	27,7	33,7	17,5	23,0
10SL	10SL	D	*	23,0	12,7	18,4	26,4	27,7	33,7	17,5	23,0
12	12 & 12S	B, C	0.625-24 UNEF	23,0	12,7	18,4	26,4	27,7	33,7	17,5	23,0
12	12 & 12S	A, R	0.687-24 UNEF	23,0	12,7	18,4	26,4	27,7	33,7	17,5	23,0
12	12 & 12S	D	*	23,0	12,7	18,4	26,4	27,7	33,7	17,5	23,0
14	14 & 14S	-	0.750-20 UNEF	26,0	15,9	19,3	27,3	31,2	35,2	19,5	26,0
16	16 & 16S	-	0.875-20 UNEF	30,5	18,9	20,0	28,0	34,7	36,9	21,5	30,5
18	18	-	1.000-20 UNEF	34,0	20,6	20,6	28,6	37,7	38,5	23,0	34,0
20	20	A, B, C	1.125-18 UNEF	37,0	25,3	21,3	29,3	41,2	41,1	24,5	37,0
20	20	R	1.125-24 UNS	37,0	25,3	21,3	29,3	41,2	41,1	24,5	37,0
20	20	D	*	37,0	25,3	21,3	29,3	41,2	41,1	24,5	37,0
22	22	-	1.250-18 UNEF	40,0	28,4	21,9	29,9	44,2	41,6	26,0	40,0
24	24	-	1.375-18 UNEF	43,5	31,7	22,5	30,6	47,2	43,1	27,5	43,5
28	28	-	1.625-18 UNEF	50,0	34,9	23,6	31,3	52,2	45,5	30,0	50,0
32	32	B, C	1.875-16 UN	56,0	41,4	24,9	32,7	58,9	48,0	32,7	56,0
32	32	A, R	1.906-18 UN	56,0	41,4	24,9	32,7	58,9	48,0	32,7	56,0
32	32	D	*	56,0	41,4	24,9	32,7	58,9	48,0	32,7	56,0
36	36	B	2.062-16 UNS	64,0	47,9	27,5	33,7	68,2	-	38,0	64,0
36	36	R	2.062-20 UNS	64,0	47,9	27,5	33,7	68,2	-	38,0	64,0
36	36	C	2.125-16 UN	64,0	47,9	27,5	33,7	68,2	-	38,0	64,0
36	36	A	2.125-18 UNS	64,0	47,9	27,5	33,7	68,2	-	38,0	64,0
36	36	D	*	64,0	47,9	27,5	33,7	68,2	-	38,0	64,0
40	40	B	2.312-16 UNS	69,5	53,9	30,1	-	72,7	-	41,1	69,5
40	40	A, C, R	2.375-16 UN	69,5	53,9	30,1	-	72,7	-	41,1	69,5
40	40	D	*	69,5	53,9	30,1	-	72,7	-	41,1	69,5

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.



ATX5015-SHIELDED BACKSHELL

TABLE-5 / ATX5015 / ENTRY SIZE

ENTRY SIZE	ØG MIN	ØH MAX	SPRING REF.	BOOT SIZE	
				STRAIGHT	90°
03	4,77	13,9	HE050	202 K 121	222 K 121
04	6,35	13,9	HE050	202 K 121	222 K 121
05	7,92	15,5	HE100	202 K 121	222 K 121
06	9,52	17,2	HE100	202 K 132	222 K 132
07	11,10	18,7	HE100	202 K 132	222 K 132
08	12,70	20,3	HE200	202 K 132	222 K 132
09	14,27	21,9	HE200	202 K 142	222 K 142
10	15,88	23,5	HE200	202 K 142	222 K 142
11	17,47	25,1	HE200	202 K 142	222 K 142
12	19,05	26,7	HE300	202 K 142	222 K 142
13	20,62	28,3	HE300	202 K 153	222 K 152
14	22,23	29,9	HE300	202 K 153	222 K 152
15	23,82	31,5	HE300	202 K 153	222 K 152
16	25,40	33,1	HE300	202 K 153	222 K 152
17	27,00	34,7	HE400	202 K 163	222 K 163
18	28,60	36,3	HE400	202 K 163	222 K 163
19	30,20	37,9	HE400	202 K 163	222 K 163
20	31,80	39,5	HE400	202 K 163	222 K 163
21	33,38	41,1	HE400	202 K 174	222 K 174
22	35,00	42,7	HE400	202 K 174	222 K 174
23	36,58	44,3	HE400	202 K 174	222 K 174
24	38,10	45,9	HE400	202 K 174	222 K 174

All dimensions are in millimeters (mm).

TABLE-6 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB
ZN	ZINC NICKEL OLIVE DRAB
Z	ZINC NICKEL BLACK

TABLE-7 / MATERIAL CODES

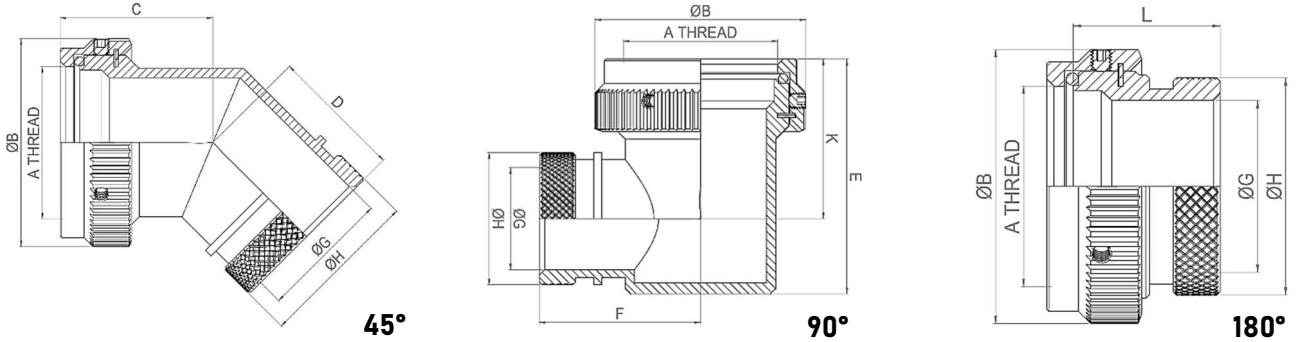
CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-8 / ADDITION CODE

CODE	EXPLANATION
S	LOCK WIRE HOLES 3 AT 120° ± 5°
H	HEXAGONAL
D	DOUBLE SHEILED



ATX15-UNSHIELDED BACKSHELL



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	15	00	17	B	A	H
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6

TABLE-1 (SERIES FOR)

MIL-DTL-26482 SERIES I

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX15 / SHELL SIZE

SHELL SIZE	A THREAD	ØB MAX	ØG MIN	ØH MAX	C MAX	D MAX	E MAX	F MAX	K MAX	L MAX	BOOT SIZE	
											STRAIGHT	90°
09	0.437-28 UNEF	18,0	6,7	13,4	16,3	17,7	22,6	25,4	15,0	21,0	202 K 121	222 K 121
11	0.562-24 UNEF	21,0	10,1	15,3	17,1	18,5	26,1	27,2	17,0	21,0	202 K 132	222 K 132
13	0.687-24 UNEF	24,4	13,0	19,6	17,5	19,2	29,1	28,6	18,0	21,0	202 K 132	222 K 132
15	0.812-20 UNEF	27,0	16,1	21,2	18,4	19,5	32,1	30,1	20,0	21,0	202 K 142	222 K 142
17	0.937-20 UNEF	30,7	19,2	24,4	19,1	20,4	35,6	31,9	21,4	21,0	202 K 142	222 K 142
19	1.062-18 UNEF	34,0	22,2	26,4	19,5	20,7	39,7	33,4	23,0	21,0	202 K 153	222 K 152
21	1.187-18 UNEF	37,2	25,7	31,0	20,3	21,5	42,1	35,1	25,0	21,0	202 K 153	222 K 152
23	1.312-18 UNEF	41,0	28,2	34,3	20,7	22,4	45,1	36,7	26,0	21,0	202 K 163	222 K 163
25	1.437-18 UNEF	43,6	31,4	36,5	21,6	22,8	48,1	38,0	28,0	21,0	202 K 163	222 K 163

All dimensions are in millimeters (mm).

TABLE-4 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

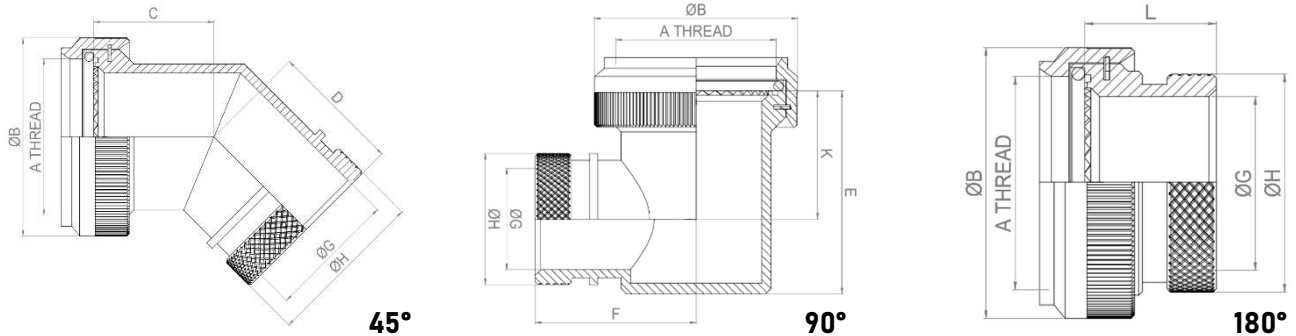
TABLE-5 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL, ALUMINUM, BRONZE SERIES

TABLE-6 / ADDITION CODE

CODE	EXPLANATION
H	HEXAGONAL

ATX60-UNSHIELDED BACKSHELL WITH SELF LOCKING



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	60	00	16	B	A	S
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6

TABLE-1 (SERIES FOR)

MIL-DTL-26482 SERIES II	MIL-DTL-5015 CRIMP
AS81703 SERIES III	MIL-DTL-83723 SERIES I & III

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX60 / SHELL SIZE

SHELL SIZE			A THREAD	ØB MAX	ØG MIN	ØH MAX	C MAX	D MAX	E MAX	F MAX	K MAX	L MAX	BOOT SIZE	
MIL-DTL-5015 Crimp	MIL-C-81703 Series III	MIL-DTL-26482 Series II											STRAIGHT	90°
-	3	-	0.562-24 UNEF	17,0	6,5	13,8	16,4	18,0	26,5	26,0	17,9	21,0	202 K 121	222 K 121
8 & 8S	-	8	0.500-20 UNEF	15,5	6,5	13,8	16,2	17,8	24,6	25,6	17,6	21,0	202 K 121	222 K 121
10, 10S & 10SL	-	10	0.625-24 UNEF	18,7	9,2	15,4	16,4	18,6	26,6	27,3	17,9	21,0	202 K 132	222 K 132
12 & 12S	7	12	0.750-20 UNEF	21,8	12,7	19,7	16,9	19,0	29,1	28,8	18,9	21,0	202 K 132	222 K 132
14 & 14S	12	14	0.875-20 UNEF	25,0	14,6	21,3	17,7	19,3	30,6	30,3	19,2	21,0	202 K 142	222 K 142
16 & 16S	19	16	1.000-20 UNEF	28,3	17,7	24,5	18,6	20,1	34,1	30,3	21,2	21,0	202 K 142	222 K 142
18	27	18	1.062-18 UNEF	30,8	19,7	26,5	18,8	20,9	37,1	32,0	23,6	21,0	202 K 153	222 K 152
20	37	20	1.187-18 UNEF	34,1	22,9	30,9	19,7	21,2	42,1	33,6	27,0	21,0	202 K 153	222 K 152
22	-	22	1.312-18 UNEF	37,2	26,1	34,4	19,9	22,0	44,1	35,0	27,0	21,0	202 K 163	222 K 163
24	-	24	1.437-18 UNEF	40,3	29,0	36,7	21,4	22,4	45,1	36,7	27,0	21,0	202 K 163	222 K 163
28	-	-	1.750-18 UNS	50,1	35,0	43,4	22,9	23,4	54,4	41,4	31,5	21,0	202 K 174	222 K 174
32	-	-	2.000-18 UNS	56,4	41,2	48,7	24,6	25,1	62,6	44,7	36,5	25,0	202 K 174	222 K 174
36	-	-	2.250-16 UN	62,9	46,7	55,0	25,8	26,3	67,4	47,9	38,2	25,0	202 K 185	222 K 185
40	-	-	2.500-16 UN	69,1	52,1	61,0	28,2	27,5	73,3	50,9	42,6	25,0	202 K 185	222 K 185
44	-	-	2.750-16 UN	75,4	58,6	67,5	29,7	29,2	79,6	54,1	-	25,0	202 A 196	222 A 196
48	-	-	3.000-16 UN	81,6	65,0	73,8	30,9	30,4	86,0	57,0	-	25,0	202 A 196	222 A 196
-	61	-	1.500-18 UNEF	42,1	30,0	38,7	22,2	22,8	48,0	38,2	28,2	21,0	202 K 163	222 K 163

All dimensions are in millimeters (mm).

TABLE-4 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

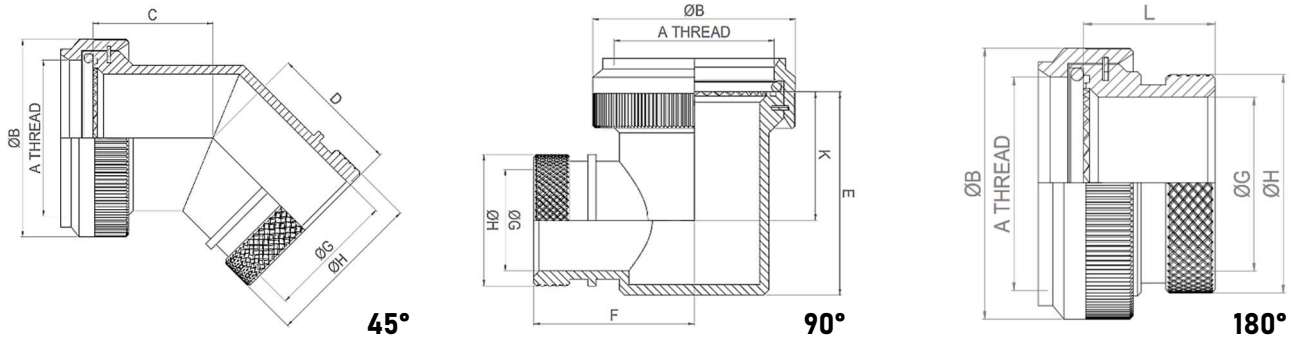
TABLE-5 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-6 / ADDITION CODE

CODE	EXPLANATION
S	LOCK WIRE HOLES 3 AT 120° ± 5°
H	HEXAGONAL

ATX62-UNSHIELDED BACKSHELL WITH SELF LOCKING



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	62	00	17	B	A	S
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6

TABLE-1 (SERIES FOR)

MIL-DTL-38999 SERIES I & II

MIL-DTL-27599

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX62 / SHELL SIZE

SHELL SIZE		A THREAD	ØB MAX	ØG MIN	ØH MAX	C MAX	D MAX	E MAX	F MAX	K MAX	L MAX	BOOT SIZE	
Series I	Series II											STRAIGHT	90°
09	08	0.437-28 UNEF	18,0	6,7	13,4	16,3	17,7	22,6	25,4	15,0	21,0	202 K 121	222 K 121
11	10	0.562-24 UNEF	21,0	10,1	15,3	17,1	18,5	26,1	27,2	17,0	21,0	202 K 132	222 K 132
13	12	0.687-24 UNEF	24,4	13,0	19,6	17,5	19,2	29,1	28,6	18,0	21,0	202 K 142	222 K 142
15	14	0.812-20 UNEF	27,0	16,1	21,2	18,4	19,5	32,1	30,1	20,0	21,0	202 K 142	222 K 142
17	16	0.937-20 UNEF	30,7	19,2	24,4	19,1	20,4	35,6	31,9	21,4	21,0	202 K 153	222 K 152
19	18	1.062-18 UNEF	34,0	22,2	26,4	19,5	20,7	39,7	33,4	23,0	21,0	202 K 153	222 K 152
21	20	1.187-18 UNEF	37,2	25,7	31,0	20,3	21,5	42,1	35,1	25,0	21,0	202 K 153	222 K 152
23	22	1.312-18 UNEF	41,0	28,2	34,3	20,7	22,4	45,1	36,7	26,0	21,0	202 K 163	222 K 163
25	24	1.437-18 UNEF	43,6	31,4	36,5	21,6	22,8	48,1	38,0	28,0	21,0	202 K 163	222 K 163

All dimensions are in millimeters (mm).

TABLE-4 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

TABLE-5 / MATERIAL CODES

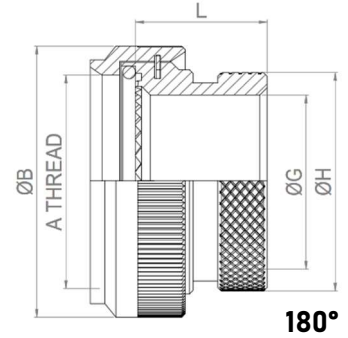
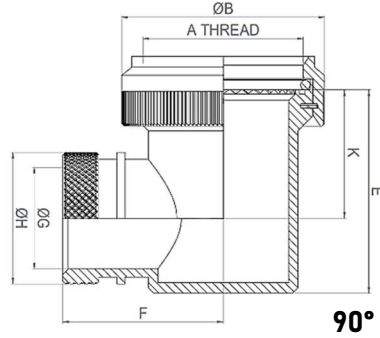
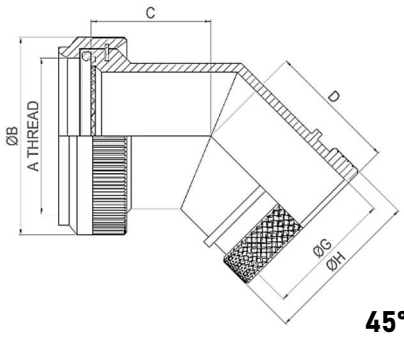
CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL, ALUMINUM, BRONZE SERIES

TABLE-6 / ADDITION CODE

CODE	EXPLANATION
S	LOCK WIRE HOLES 3 AT 120° ± 5°
H	HEXAGONAL



ATX69-UNSHIELDED BACKSHELL WITH SELF LOCKING



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	ANGLE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	69	00	17	B	A	S
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6

TABLE-1 (SERIES FOR)

MIL-DTL-38999 SERIES III & IV

EN3645

TABLE-2 / ANGLES

CODE	DEFINING FEATURE
00	180° CABLE EXIT
45	45° CABLE EXIT
90	90° CABLE EXIT

TABLE-3 / ATX69 / SHELL SIZE

SHELL SIZE	A THREAD	ØB MAX	ØG MIN	ØH MAX	C MAX	D MAX	E MAX	F MAX	K MAX	L MAX	BOOT SIZE	
											STRAIGHT	90°
9 / A	M12 x 1,0	18,0	6,7	13,4	13,0	17,5	25,6	25,4	17,4	21,0	202 K 121	222 K 121
11 / B	M15 x 1,0	21,0	9,9	15,3	13,8	18,3	26,6	27,2	17,4	21,0	202 K 132	222 K 132
13 / C	M18 x 1,0	24,4	13,5	19,6	14,4	19,3	31,1	28,6	20,0	21,0	202 K 142	222 K 142
15 / D	M22 x 1,0	28,5	15,8	21,2	15,4	19,5	37,1	30,1	24,5	21,0	202 K 142	222 K 142
17 / E	M25 x 1,0	32,0	18,8	24,3	16,0	20,3	40,1	31,9	26,6	21,0	202 K 142	222 K 142
19 / F	M28 x 1,0	35,5	21,8	26,4	16,7	20,7	44,6	33,4	27,0	21,0	202 K 153	222 K 152
21 / G	M31 x 1,0	36,5	25,1	31,0	17,0	21,5	49,1	35,0	30,4	21,0	202 K 153	222 K 152
23 / H	M34 x 1,0	39,5	27,3	34,3	17,6	22,4	51,6	36,6	31,4	21,0	202 K 163	222 K 163
25 / J	M37 x 1,0	43,4	30,3	36,5	18,4	22,8	53,1	38,0	28,4	21,0	202 K 163	222 K 163

All dimensions are in millimeters (mm).

TABLE-4 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

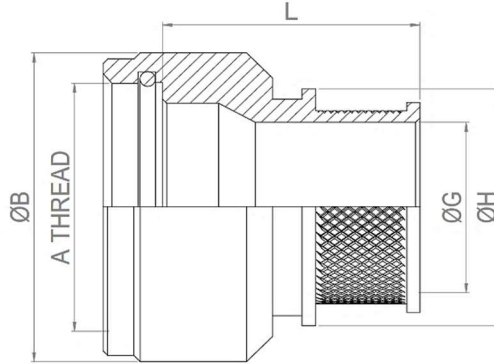
TABLE-5 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL, ALUMINUM, BRONZE SERIES

TABLE-6 / ADDITION CODE

CODE	EXPLANATION
S	LOCK WIRE HOLES 3 AT 120° ± 5°
H	HEXAGONAL

ATX10 - SOLID (FIXED)



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	10	17	B	A	D
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5

TABLE-1 (SERIES FOR)

MIL-DTL-26482 SERIES I

TABLE-2 / ATX10 / SHELL SIZE

BASE PART NUMBER	SHELL SIZE	A THREAD	ØB MAX	ØG MIN	ØH MAX	L MAX	BOOT SIZE	
							STRAIGHT	90°
ATX10-08	8	0.437-28 UNEF	17,4	6,4	11,1	38	202 K 121	222 K 121
ATX10-10	10	0.562-24 UNEF	20,4	7,9	12,7	38	202 K 121	222 K 121
ATX10-12	12	0.687-24 UNEF	23,4	11,1	15,8	38	202 K 132	222 K 132
ATX10-14	14	0.812-20 UNEF	25,4	14,3	18,5	38	202 K 142	222 K 142
ATX10-16	16	0.937-20 UNEF	30,4	15,9	20,6	38	202 K 142	222 K 142
ATX10-18	18	1.062-18 UNEF	33,4	19,1	24	38	202 K 142	222 K 142
ATX10-20	20	1.187-18 UNEF	36,4	20,6	25,2	38	202 K 153	222 K 152
ATX10-22	22	1.312-18 UNEF	40,0	23,8	28,4	38	202 K 153	222 K 152
ATX10-24	24	1.437-18 UNEF	43,0	25,4	30,4	38	202 K 153	222 K 152

All dimensions are in millimeters (mm).

TABLE-3 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

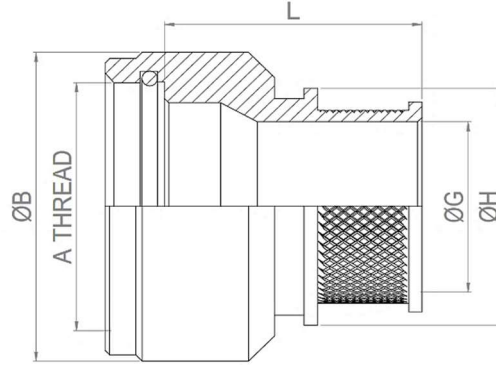
TABLE-4 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-5 / ADDITION CODE

CODE	EXPLANATION
H	HEXAGONAL
D	DOUBLE SHEILDED

ATX25 - SOLID (FIXED)



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	25	16	B	A	D
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5

TABLE-1 (SERIES FOR)

MIL-DTL-26482 SERIES II	MIL-DTL-5015 CRIMP
AS81703 SERIES III	MIL-DTL-83723 SERIES I & III

TABLE-2 / ATX25 / SHELL SIZE

BASE PART NUMBER	SHELL SIZE			A THREAD	ØB MAX	ØG MIN	ØH MAX	L MAX	BOOT SIZE	
	MIL-DTL-5015 Crimp	MIL-C-81703 Series III	MIL-DTL-26482 Series II						STRAIGHT	90°
ATX25-03	-	3	-	0.562-24 UNEF	18,0	6,4	19,0	38,0	202 K 121	222 K 121
ATX25-08	8 & 8S	-	8	0.500-20 UNF	16,5	6,4	11,1	38,0	202 K 121	222 K 121
ATX25-10	10, 10S & 10SL	-	10	0.625-24 UNEF	19,5	7,9	12,7	38,0	202 K 121	222 K 121
ATX25-12	12 & 12S	7	12	0.750-20 UNEF	22,6	11,1	15,8	38,0	202 K 132	222 K 132
ATX25-14	14 & 14S	12	14	0.875-20 UNEF	25,8	14,3	18,5	38,0	202 K 142	222 K 142
ATX25-16	16 & 16S	19	16	1.000-20 UNEF	29,1	15,9	20,6	38,0	202 K 142	222 K 142
ATX25-18	18	27	18	1.062-18 UNEF	31,4	19,1	24,0	38,0	202 K 142	222 K 142
ATX25-20	20	37	20	1.187-18 UNEF	34,6	20,6	25,2	38,0	202 K 153	222 K 152
ATX25-22	22	-	22	1.312-18 UNEF	36,5	23,8	28,4	38,0	202 K 153	222 K 152
ATX25-24	24	-	24	1.437-18 UNEF	41,0	25,4	30,4	38,0	202 K 153	222 K 152
ATX25-28	28	-	-	1.750-18 UNS	50,0	28,6	33,5	38,0	202 K 163	222 K 163
ATX25-32	32	-	-	2.000-18 UNS	56,3	33,3	37,9	38,0	202 K 174	222 K 174
ATX25-36	36	-	-	2.250-16 UN	62,6	38,5	42,7	38,0	202 K 185	222 K 185
ATX25-40	40	-	-	2.500-16 UN	69,0	52,0	71,3	38,0	202 K 185	222 K 185
ATX25-44	44	-	-	2.750-16 UN	75,3	58,5	77,3	38,0	202 A 196	222 A 196
ATX25-48	48	-	-	3.000-16 UN	81,7	64,8	84,0	38,0	202 A 196	222 A 196
ATX25-61	-	61	-	1.500-18 UNEF	42,0	30,0	44,3	38,0	202 K 163	222 K 163

All dimensions are in millimeters (mm).

TABLE-3 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

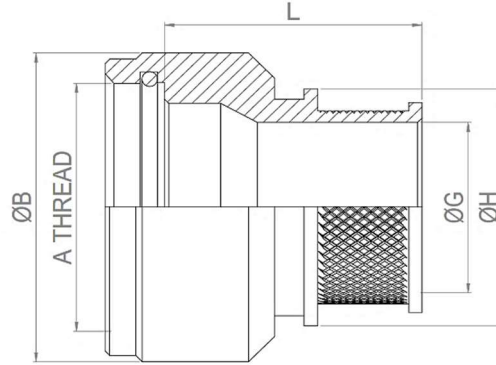
TABLE-4 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-5 / ADDITION CODE

CODE	EXPLANATION
H	HEXAGONAL
D	DOUBLE SHEILDED

ATX30 - SOLID (FIXED)



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	30	17	B	A	D
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5

TABLE-1 (SERIES FOR)

MIL-DTL-38999 SERIES I & II

MIL-DTL-27599

TABLE-2 / ATX30 / SHELL SIZE

BASE PART NUMBER	SHELL SIZE		A THREAD	ØB MAX	ØG MIN	ØH MAX	L MAX	BOOT SIZE	
	Series I	Series II						STRAIGHT	90°
ATX30-09	9	8	0.437-28 UNEF	17,4	6,4	11,1	38	202 K 121	222 K 121
ATX30-11	11	10	0.562-24 UNEF	20,4	7,9	12,7	38	202 K 121	222 K 121
ATX30-13	13	12	0.687-24 UNEF	23,4	11,1	15,8	38	202 K 132	222 K 132
ATX30-15	15	14	0.812-20 UNEF	25,4	14,3	18,5	38	202 K 142	222 K 142
ATX30-17	17	16	0.937-20 UNEF	30,4	15,9	20,6	38	202 K 142	222 K 142
ATX30-19	19	18	1.062-18 UNEF	33,4	19,1	24	38	202 K 142	222 K 142
ATX30-21	21	20	1.187-18 UNEF	36,4	20,6	25,2	38	202 K 153	222 K 152
ATX30-23	23	22	1.312-18 UNEF	40,0	23,8	28,4	38	202 K 153	222 K 152
ATX30-25	25	24	1.437-18 UNEF	43,0	25,4	30,4	38	202 K 153	222 K 152

All dimensions are in millimeters (mm).

TABLE-3 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

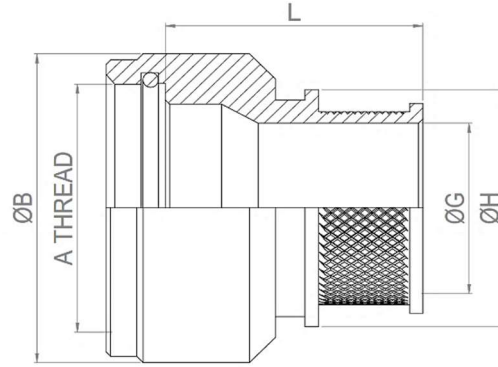
TABLE-4 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-5 / ADDITION CODE

CODE	EXPLANATION
H	HEXAGONAL
D	DOUBLE SHEILDED

ATX35 - SOLID (FIXED)



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	35	17	B	A	D
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5

TABLE-1 (SERIES FOR)

MIL-DTL-38999 SERIES III & IV

EN3645

TABLE-2 / ATX35 / SHELL SIZE

BASE PART NUMBER	SHELL SIZE	A THREAD	ØB MAX	ØG ±0,15	ØH MAX	L MAX	BOOT SIZE	
							STRAIGHT	90°
ATX35-09	9 / A	M12 x 1,0	19	6,4	11,1	38	202 K 121	222 K 121
ATX35-11	11 / B	M15 x 1,0	22,2	7,9	12,7	38	202 K 121	222 K 121
ATX35-13	13 / C	M18 x 1,0	25,4	11,1	15,8	38	202 K 132	222 K 132
ATX35-15	15 / D	M22 x 1,0	30,2	14,3	18,5	38	202 K 142	222 K 142
ATX35-17	17 / E	M25 x 1,0	33,2	15,9	20,6	38	202 K 142	222 K 142
ATX35-19	19 / F	M28 x 1,0	36,4	19,1	24,0	38	202 K 142	222 K 142
ATX35-21	21 / G	M31 x 1,0	38,0	20,6	25,2	38	202 K 153	222 K 152
ATX35-23	23 / H	M34 x 1,0	41,2	23,8	28,4	38	202 K 153	222 K 152
ATX35-25	25 / J	M37 x 1,0	44,4	25,4	30,4	38	202 K 153	222 K 152

All dimensions are in millimeters (mm).

TABLE-3 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

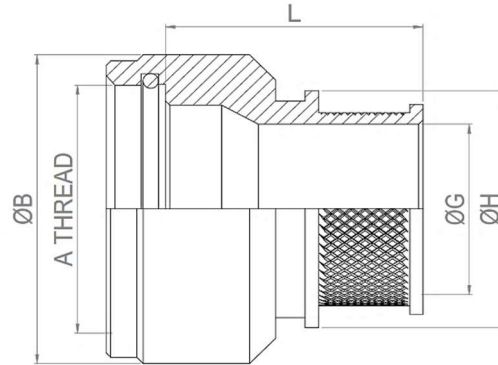
TABLE-4 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-5 / ADDITION CODE

CODE	EXPLANATION
H	HEXAGONAL
D	DOUBLE SHEILDED

ATX50 / SOLID (FIXED)



DESCRIPTION OF THE PART NUMBER

BASIC SERIES	CONNECTOR INTERFACE	MANUFACTURER CODE	SHELL SIZE	PLATING	MATERIAL	MODIFICATION
ATX	50	C	20	B	A	D
BASIC CODE	SEE TABLE-1	SEE TABLE-2	SEE TABLE-3	SEE TABLE-4	SEE TABLE-5	SEE TABLE-6

TABLE-1 (SERIES FOR)

MIL-DTL-5015 (MS3100)

TABLE-2 / 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

TABLE-4 / SURFACE PLATING CODES

CODE	PLATING
C	ELECTROLESS NICKEL
A	BLACK ANODIZE
B	CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
ZN	ZINC NICKEL OLIVE DRAB OVER ELECTROLESS NICKEL
Z	ZINC NICKEL BLACK OVER ELECTROLESS NICKEL

TABLE-5 / MATERIAL CODES

CODE	MATERIAL
A	ALUMINUM SERIES
SS	STAINLESS STEEL SERIES (PASSIVATED)
NB	NICKEL ALUMINUM BRONZE SERIES

TABLE-6 / ADDITION CODE

CODE	EXPLANATION
H	HEXAGONAL
D	DOUBLE SHEILDDED

TABLE-3 / ATX50 / SHELL SIZE

ORDER NUMBER	SHELL SIZE	MANUFACTURER CODE	A THREAD	ØB MAX	ØG MIN	ØH MAX	L MAX	BOOT SIZE	
								STRAIGHT	90°
08	8S	B	0.375-37 UNEF	16,5	6,35	13,9	38,0	202 K 121	222 K 121
08	8S	C	0.437-28 UNEF	16,5	6,35	13,9	38,0	202 K 121	222 K 121
08	8S	A, R	0.437-27 UNS	16,5	6,35	13,9	38,0	202 K 121	222 K 121
08	8S	D	*	16,5	6,35	13,9	38,0	202 K 121	222 K 121
10	10S	-	0.500-28 UNEF	19,5	7,7	15,5	38,0	202 K 121	222 K 121
10SL	10SL	C	0.562-24 UNEF	19,5	7,7	15,5	38,0	202 K 121	222 K 121
10SL	10SL	A, B, R	0.625-24 UNEF	19,5	7,7	15,5	38,0	202 K 121	222 K 121
10SL	10SL	D	*	19,5	7,7	15,5	38,0	202 K 121	222 K 121
12	12 & 12S	B, C	0.625-24 UNEF	22,6	9,3	17,2	38,0	202 K 132	222 K 132
12	12 & 12S	A, R	0.687-24 UNEF	22,6	9,3	17,2	38,0	202 K 132	222 K 132
12	12 & 12S	D	*	22,6	9,3	17,2	38,0	202 K 132	222 K 132
14	14 & 14S	-	0.750-20 UNEF	25,8	10,6	18,7	38,0	202 K 132	222 K 132
16	16 & 16S	-	0.875-20 UNEF	29,1	13,5	21,9	38,0	202 K 142	222 K 142
18	18	-	1.000-20 UNEF	31,4	14,6	23,5	38,0	202 K 142	222 K 142
20	20	A, B, C	1.125-18 UNEF	34,6	18,5	26,7	38,0	202 K 142	222 K 142
20	20	R	1.125-24 UNS	34,6	18,5	26,7	38,0	202 K 142	222 K 142
20	20	D	*	34,6	18,5	26,7	38,0	202 K 142	222 K 142
22	22	-	1.250-18 UNEF	36,5	20,8	28,3	38,0	202 K 153	222 K 152
24	24	-	1.375-18 UNEF	41,0	24,6	33,1	38,0	202 K 153	222 K 152
28	28	-	1.625-18 UNEF	50,0	27,0	34,7	38,0	202 K 163	222 K 163
32	32	B, C	1.875-16 UN	56,3	33,3	41,1	38,0	202 K 174	222 K 174
32	32	A, R	1.906-18 UN	56,3	33,3	41,1	38,0	202 K 174	222 K 174
32	32	D	*	56,3	33,3	41,1	38,0	202 K 174	222 K 174
36	36	B	2.062-16 UNS	62,6	38,5	45,9	38,0	202 K 185	222 K 185
36	36	R	2.062-20 UNS	62,6	38,5	45,9	38,0	202 K 185	222 K 185
36	36	C	2.125-16 UN	62,6	38,5	45,9	38,0	202 K 185	222 K 185
36	36	A	2.125-18 UNS	62,6	38,5	45,9	38,0	202 K 185	222 K 185
36	36	D	*	62,6	38,5	45,9	38,0	202 K 185	222 K 185
40	40	B	2.312-16 UNS	69,0	42,0	50,8	38,0	202 K 185	222 K 185
40	40	A, C, R	2.375-16 UN	69,0	42,0	50,8	38,0	202 K 185	222 K 185
40	40	D	*	69,0	42,0	50,8	38,0	202 K 185	222 K 185

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.



INFORMATION ABOUT ATX ADAPTER FAMILY & CROSS NUMBER

SHIELDED SPRING BACKSHELL WITH SELF LOCKING SPIN COUPLING

SERIES FOR	ATP PART NUMBER	POLAMCO SERIES	TYCO-TXR SERIES	TYCO-M SERIES	MILITARY PART NUMBER
❖ MIL-DTL-26482 Series I	ATX16-00	91K1	TXR21AB00	206M0	-
	ATX16-45	91K2	TXR21AB45	206M1	-
	ATX16-90	91K3	TXR21AB90	206M2	-
❖ MIL-DTL-26482 Series II	ATX82-00	91A1	TXR54AB00	203M0	M85049/82
❖ MIL-DTL-81703 Series I & II	ATX82-45	91A2	TXR54AB45	203M1	M85049/83
❖ MIL-DTL-5015 Crimp	ATX82-90	91A3	TXR54AB90	203M2	M85049/84
❖ MIL-DTL-27599					
❖ MIL-DTL-38999 Series I & II	ATX85-00	91F1	TXR41AB00	204M0	M85049/85
	ATX85-45	91F2	TXR41AB45	204M1	M85049/86
	ATX85-90	91F3	TXR41AB90	204M2	M85049/87
❖ MIL-DTL-38999 Series III & IV	ATX88-00	91H1	TXR40AB00	208M7	M85049/88
	ATX88-45	91H2	TXR40AB45	208M8	M85049/89
	ATX88-90	91H3	TXR40AB90	208M9	M85049/90
❖ MIL-DTL-5015 (MS3100)	ATX5015-00	91L1	TXR18AB00	218M7	-
	ATX5015-45	91L2	TXR18AB45	218M8	-
	ATX5015-90	91L3	TXR18AB90	218M9	-

UNSHIELDED SPRING BACKSHELL WITH SELF LOCKING SPIN COUPLING

SERIES FOR	ATP PART NUMBER	POLAMCO SERIES	TYCO-TXR SERIES	TYCO-M SERIES	MILITARY PART NUMBER
❖ MIL-DTL-26482 Series I	ATX15	97K1	-	203M9	-
❖ MIL-DTL-26482 Series II	ATX60	97A1	-	201M1	M85049/60-1
❖ MIL-DTL-81703 Series I & III					
❖ MIL-DTL-5015 Crimp					
❖ MIL-DTL-83723 Series I & III					
❖ MIL-DTL-38999 Series I & II	ATX62	97F1	-	202M2	M85049/62
❖ MIL-DTL-27599					
❖ MIL-DTL-38999 Series III & IV	ATX69	97H1	-	209M4	M85049/69
❖ EN3645					

SOLID (NON SPIN)

SERIES FOR	ATP PART NUMBER	POLAMCO SERIES	TYCO-TXR SERIES	TYCO-M SERIES	MILITARY PART NUMBER
❖ MIL-DTL-26482 Series I	ATX10	-	-	-	-
❖ MIL-DTL-26482 Series II	ATX25	-	-	201M9	-
❖ MIL-DTL-81703 Series I & III					
❖ MIL-DTL-5015 Crimp					
❖ MIL-DTL-83723 Series I & II					
❖ MIL-DTL-38999 Series I & II	ATX30	-	-	202M1	-
❖ MIL-DTL-27599					
❖ MIL-DTL-38999 Series III & IV	ATX35	-	-	209M3	-
❖ EN3645					
❖ MIL-DTL-5015 (MS3100)	ATX50	-	-	-	-





ATPDEFENSE

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BACKSHELLS



NCAGE: TD589

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