Connector World

Adapter Series

HEAT SHRINK & TERMINATION ADAPTERS

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Contents

KAT Adapter Series

KH Adapter Series

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ADAPTER / KAT Series

Definitions

KUKDONG Connector Code

KUKDONG uses a numerical code to identify connectors with similar adapter interfaces. This code is used to determine the adapter family and part number.

Adapter Type

This catalog explains Tinel-lock type only and KUKDONG offers three types. Tinel-Lock, Zeta-Lock, and Spin-coupling. Each is designed to offer a suitable interface between a connector and a heat-shrinkable molded part.

Adapter Part Number

This is KUKDONG sequence of numbers and letters that completely describes the adapter series, size, material, finish and modifications codes. The part numbering system is explained on HOW TO ORDER page.

Entry Size

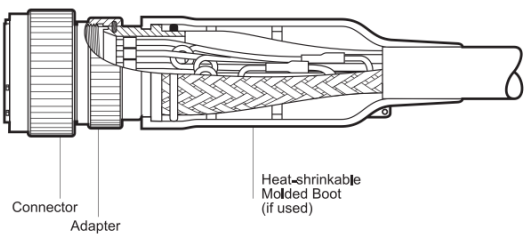
Entry sizes are specified on Tinel-lock and Zeta-lock adapters only. It is the diameter of the hole through which the cable enters into the adapter. For example, the 08 entry is 12.7 [0,5]. Entry sizes are specified on braided and Tinel-Lock adapters only.

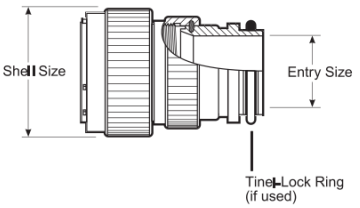
Ring Designator

A two-letter code is part of each Tinel-Lock adapter part number. It specifies the size of the Tinel-Lock ring suited to specific types of cable braid.

Shell Size

This is the size of a connector as specified by the connector manufacturer. It is normally a two-digit number between 08 and 24, although certain connectors are obtainable in either larger or smaller sizes and some use letter codes.





< Cut-away view showing complete screened cable terminations >

ADAPTER / KAT Series

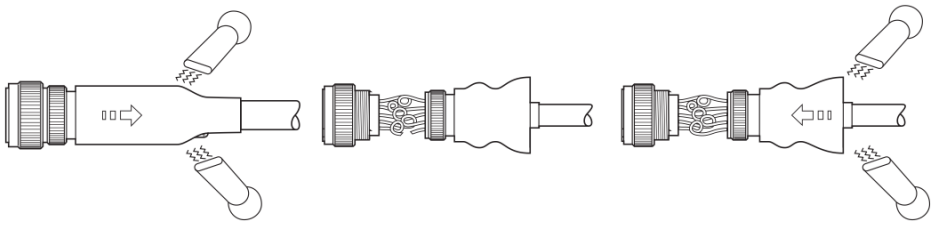
Selection of Adapter types

KUKDONG offers several types of adapter for unscreened and screened termination systems.
The choice is largely dependent upon the screening level required and the braid termination method.

The three principal adapter types are :
1. Tinel-lock adapter
2. Zeta-lock adapter
3. Spin-coupling adapter

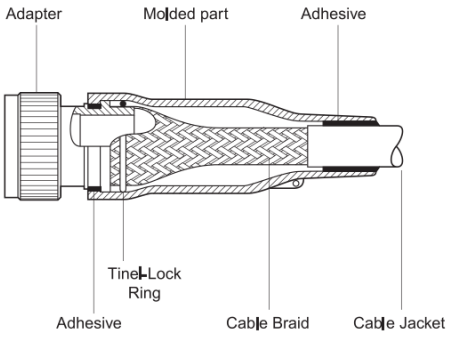
Roll-back Repair with Adapters

More than 85 percent of cable repairs are made within 75 mm [3.0 inch] of the connectors because of a broken pin or wire. By reheating the heatshrinkable boot and unscrewing the adapter coupling nut, the boot can be "rolled back," providing access to the rear of the connector for repair.
This technique is applicable to spin-coupling, shielded, and Tinel-Lock adapters.



Tinel-Lock Adapters

This termination system consists of a modified spin-coupling adapter with a Tinel-Lock ring. The Tinel-Lock ring is made from a special shape memory metal that shrinks uniformly when heated.
The Tinel-Lock ring is used to terminate copper cable braid directly onto the rear of the adapter.
The adapter entry size and ring designator must be selected to suit the cable diameter and braid type.
The resulting 360° termination withstands severe shock, vibration, temperature cycling, and corrosion.
Straight, 45°, and 90° configurations are available.



< Cut-away view showing complete screened Adapter terminations >

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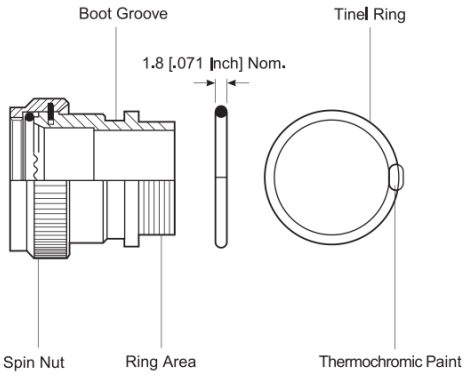
Tinel-Lock Ring and Braid

The Tinel-Lock Ring designator must be specified according to the type of cable braid used, and is added to the part number after the adapter entry size. There are two types of ring, AI and BI for each entry size.



Braid type	Ring designator ★
Single layer AWG #36	AI
Single layer AWG #34	AI
Single layer AWG #32	BI
Single layer AWG #30	BI
Double layer AWG #36	BI
Double layer AWG #34	BI

★ A or B = Size of braid
I = insulating layer

Tinel-Lock Rings are marked with thermochromic paint which changes color when the correct insulation temperature is reached. BI-type rings are identified with a red spot. Braid type, material and construction are variable. If in doubt, contact KUKDONG for more informations.

Cross reference table

American Wire Gauge (AWG) to diameter and area for solid conductor.

American Wire Gauge (AWG)	DIAMETER		AREA	
	mm	Inch	mm	Inch X 10^{-3}
40	0.079	0.0031	0.0049	0.0076
39	0.089	0.0035	0.0062	0.0096
38	0.102	0.0040	0.0081	0.0126
37	0.114	0.0045	0.0103	0.0159
36	0.127	0.0050	0.0127	0.0196
35	0.142	0.0056	0.0159	0.0246
34	0.160	0.0063	0.0201	0.0312
33	0.180	0.0071	0.0255	0.0396
32	0.203	0.0080	0.0324	0.0503
31	0.226	0.0089	0.0401	0.0622
30	0.254	0.0100	0.0507	0.0786
29	0.287	0.0113	0.0647	0.1000
28	0.320	0.0126	0.0804	0.1250

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How To Order

Tinel-Lock Adapter

KAT 58 A B 00 - 18 10 AI

Ring designator

AI - Single Braid
BI - Double Braid

Entry Size

see the page of adapters

Shell Size

see the page of adapters

Angle

00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °

Finish

B - Cadmium chromate, class 3 over electroless nickel
C - Nickel plating
J - Passivated

Matetial

A - Aluminium alloy
S - Stainless steel

Connector's code

15 - MIL-DTL-5015 Ⅰ (with Endbell)
18 - MIL-DTL-5015 Ⅰ (without Endbell)
21 - MIL-DTL-26482 Ⅰ (MS3110, MS3116, MS3120, MS3126)
24 - MIL-DTL-26482 Ⅰ (MS3114)
32 - MIL-DTL-22992 class C & R
40 - MIL-DTL-38999 Ⅲ & Ⅳ
41 - MIL-DTL-38999 Ⅰ & Ⅱ
54 - MIL-DTL-5015 Ⅱ
MIL-DTL-26482 Ⅱ
MIL-DTL-81703 Ⅱ
MIL-DTL-83723 Ⅰ & Ⅲ
58 - KDB & VG95234
76 - BS 9522-F0017
78 - BS 9522-F0032

KUKDONG Tinel-lock Adapter

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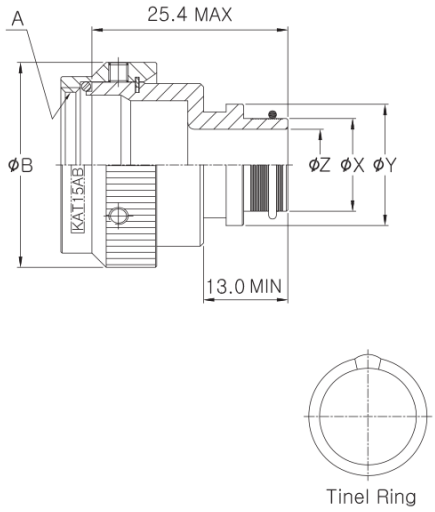
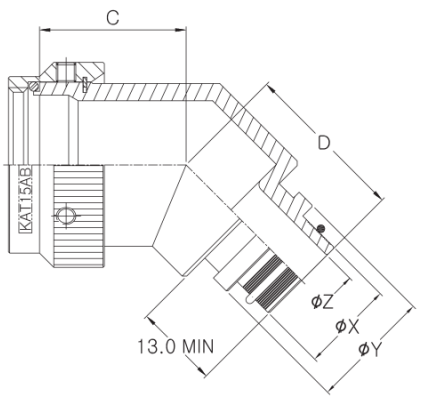
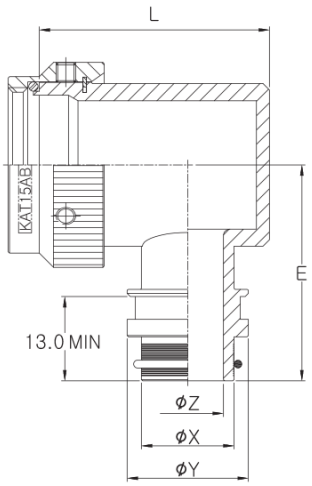
Tinel-Lock Adapter Code 15 (MIL-DTL-5015. I, with Endbell)



KAT15XX00-XXXXXX



KAT15XX45-XXXXXX



KAT15XX90-XXXXXX

How To Order

KAT 15 A B 00 - 04 07 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-Lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	31.5	9.5	14.0	6.3
05	34.3	11.1	15.6	7.9
06	35.8	12.7	17.2	9.5
07	37.3	14.3	18.8	11.1
08	39.1	15.9	20.3	12.7
10	41.4	19.0	23.5	15.9
12	45.5	22.2	26.7	19.0
14	48.8	25.4	29.8	22.2
16	51.8	28.5	33.0	25.4
18	54.9	31.7	36.2	28.5
20	58.2	34.9	39.3	31.7
22	66.8	38.1	42.5	34.9
24	70.1	41.3	45.7	38.1

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	Entry Size MAX
04	10SL, 12s, 12	5/8-24UNEF	23.1	21.1	24.1	31.2	07
06	14s, 14	3/4-20UNEF	26.4	21.8	24.9	33.0	08
08	16s, 16	7/8-20UNEF	29.5	22.6	25.9	36.1	10
10	18	1 -20UNEF	34.0	23.4	26.7	37.6	12
12	20, 22	1 3/16-18UNEF	37.3	24.9	28.2	40.9	16
16	24, 28	1 7/16-18UNEF	46.2	27.4	29.7	47.2	20
20	32	1 3/4-18UNS	54.9	28.2	31.2	48.8	24
24	36	2 -18UNS	62.0	31.2	32.3	52.1	24

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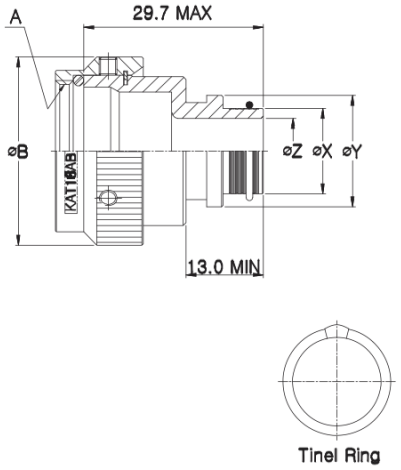
Tinel-Lock Adapter Code 18 (MIL-DTL-5015. I, without Endbell)



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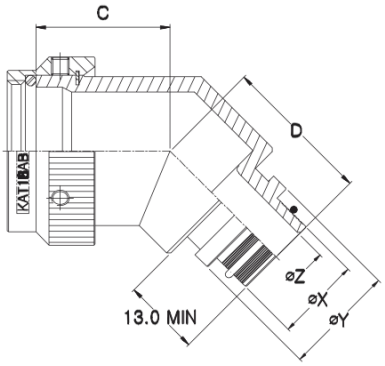
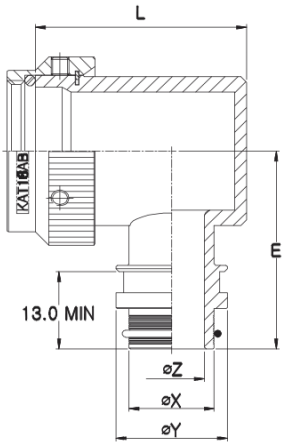


KAT18XX45-XXXXXX



KAT18XX90-XXXXXX

How To Order

KAT 18 A B 00 - 18 10 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	31.5	9.5	14.0	6.3
05	34.3	11.1	15.6	7.9
06	35.8	12.7	17.2	9.5
07	37.3	14.3	18.8	11.1
08	39.1	15.9	20.3	12.7
10	41.4	19.0	23.5	15.9
12	45.5	22.2	26.7	19.0
14	48.8	25.4	29.8	22.2
16	51.8	28.5	33.0	25.4
18	54.9	31.7	36.2	28.5
20	58.2	34.9	39.3	31.7
22	66.8	38.1	42.5	34.9
24	70.1	41.3	45.7	38.1

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	Entry Size MAX
10	10SL	9/16-24UNEF	21.6	21.1	24.1	31.2	07
12	12s, 12	5/8-24UNEF	23.4	21.1	24.1	31.2	08
14	14s, 14	3/4-20UNEF	26.4	21.8	24.9	33.0	10
16	16s, 16	7/8-20UNEF	31.2	22.6	25.9	36.1	12
18	18	1 -20UNEF	34.3	23.4	26.7	37.6	12
20	20	1 1/8-18UNEF	37.6	24.1	27.4	39.4	16
22	22	1 1/4-18UNEF	40.6	24.9	28.2	40.9	18
24	24	1 3/8-18UNEF	43.9	24.9	28.2	42.4	20
28	28	1 5/8-18UNEF	53.3	27.4	29.7	47.2	24
32	32	1 7/8-16UN	56.6	28.2	31.2	48.8	24
36	36	2 1/8-16UN	63.0	31.2	32.3	52.1	24

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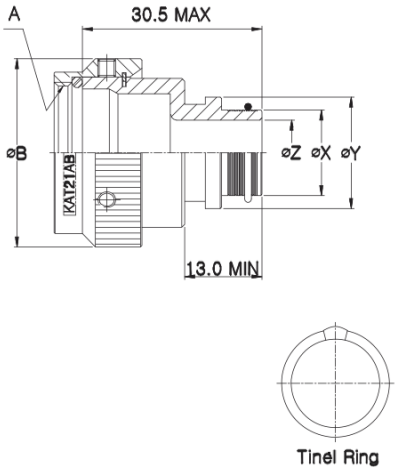
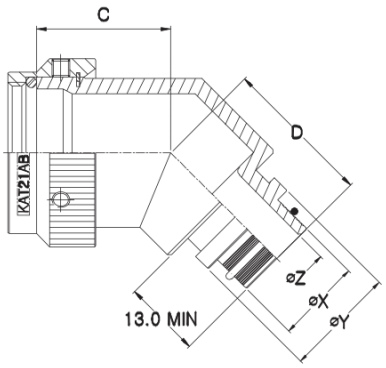
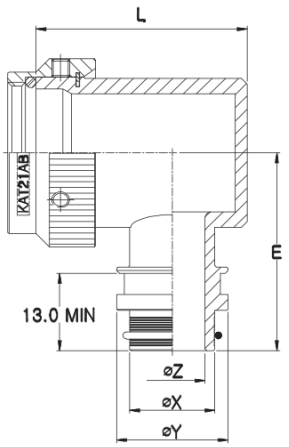
Tinel-Lock Adapter Code 21 (MIL-DTL-26482. I - MS3110,MS3116, MS3120, MS3126)



KAT21XX00-XXXXXX



KAT21XX45-XXXXXX



KAT21XX90-XXXXXX

How To Order

KAT 21 A B 00 - 16 08 AI

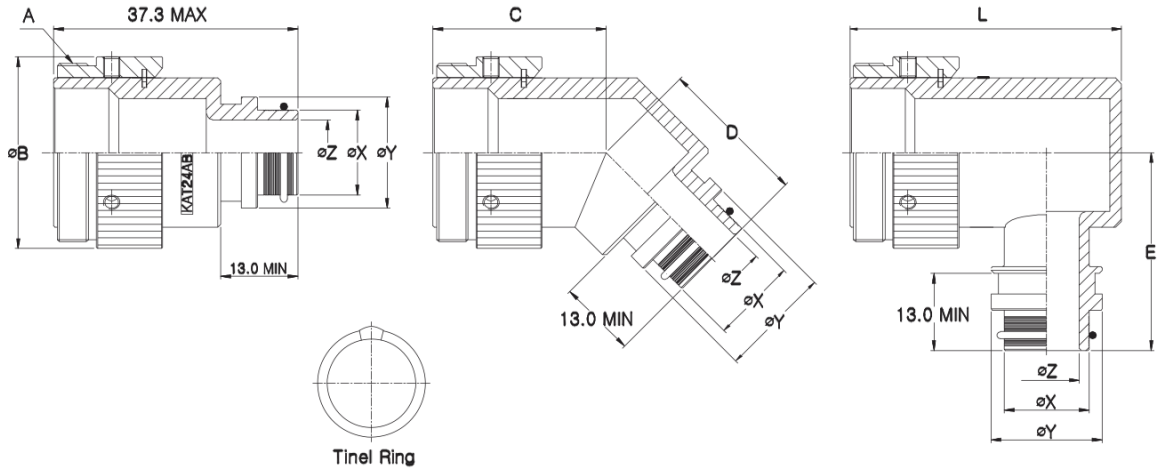
- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	31.0	9.5	14.0	6.3
05	32.8	11.1	15.6	7.9
06	34.3	12.7	17.2	9.5
07	35.8	14.3	18.8	11.1
08	37.3	15.9	20.3	12.7
10	40.6	19.0	23.5	15.9
12	43.7	22.2	26.7	19.0
14	47.0	25.4	29.8	22.2
16	50.0	28.5	33.0	25.4
18	53.3	31.7	36.2	28.5

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	Entry Size MAX
08	8	7/16-28UNEF	18.3	21.6	23.1	29.0	04
10	10	9/16-24UNEF	21.6	22.4	23.9	30.5	06
12	12	11/16-24UNEF	24.9	23.1	24.6	32.3	08
14	14	13/16-20UNEF	28.2	23.4	24.9	33.5	10
16	16	15/16-20UNEF	31.2	24.1	25.7	34.8	12
18	18	1 1/16-18UNEF	34.5	24.4	25.9	36.3	12
20	20	1 3/16-18UNEF	37.6	25.1	26.7	38.1	14
22	22	1 5/16-18UNEF	40.6	25.7	27.4	39.6	16
24	24	1 7/16-18UNEF	43.2	26.2	27.7	40.9	18

ADAPTER / KAT Series

Tinel-Lock Adapter Code 24 (MIL-DTL-26482. I - MS3114,MS3124)



KAT24XX00-XXXXXX　　KAT24XX45-XXXXXX　　KAT24XX90-XXXXXX

How To Order

KAT 24 A B 00 - 18 10 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 °　45 - ∠45 °　90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	43.5	9.5	14.0	6.3
05	44.5	11.1	15.6	7.9
06	46.0	12.7	17.2	9.5
07	47.5	14.3	18.8	11.1
08	49.5	15.9	20.3	12.7
10	52.5	19.0	23.5	15.9
12	55.5	22.2	26.7	19.0
14	59.0	25.4	29.8	22.2
16	62.0	28.5	33.0	25.4
18	65.0	31.7	36.2	28.5

Order No.	Shell Size CONNECTOR	A THD-2A	ΦB MAX	C MAX	D MAX	E MAX	Entry Size MAX
08	8	5/8-24UNEF	19.8	24.0	22.1	27.2	04
10	10	3/4-20UNEF	23.1	24.5	22.9	28.7	06
12	12	7/8-20UNEF	26.2	25.0	23.4	30.5	08
14	14	1 -20UNEF	29.5	26.0	24.1	32.0	10
16	16	1 1/8-18UNEF	32.5	26.5	24.6	33.5	12
18	18	1 1/4-18UNEF	35.8	27.0	25.4	35.1	14
20	20	1 3/8-18UNEF	38.9	29.0	25.9	36.1	14
22	22	1 1/2-18UNEF	42.2	29.5	26.7	38.4	18
24	24	1 5/8-18UNEF	45.2	30.5	27.2	39.9	18

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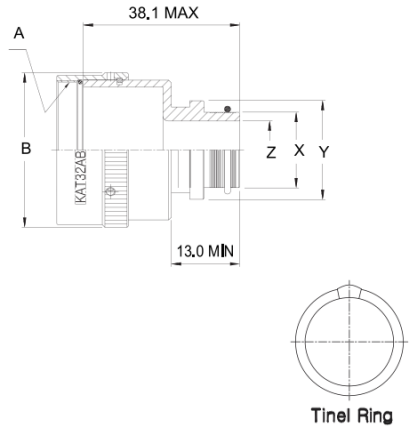
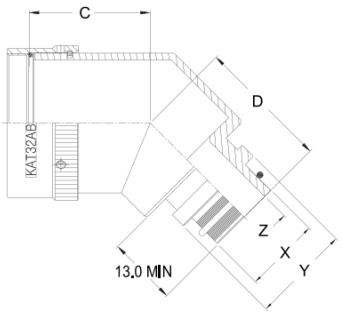
Tinel-Lock Adapter Code 32 (MIL-DTL-22992 Class C & R)



KAT32XX00-XXXXXX



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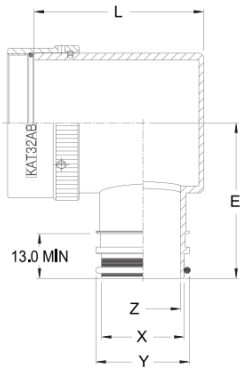

KAT32XX90-XXXXXX

How To Order

KAT 32 A B 00 - 16 08 Al

- **Ring designator**
  - Al - Single Braid
  - Bl - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	39.6	9.5	14.0	6.3
05	42.9	11.1	15.6	7.9
06	42.9	12.7	17.2	9.5
07	46.0	14.3	18.8	11.1
08	46.0	15.9	20.3	12.7
10	49.3	19.0	23.5	15.9
12	52.3	22.2	26.7	19.0
14	55.6	25.4	29.8	22.2
16	59.9	28.5	33.0	25.4
18	69.6	31.7	36.2	28.5
20	72.6	34.9	39.3	31.7
22	75.9	38.1	42.5	34.9
24	79.0	41.3	45.7	38.1

Order No.	Shell Size CONNECTOR	A THD-2B-LH	ΦB MAX	C MAX	D MAX	E MAX	Entry Size MAX
12	12	3/4-20UNEF	27.2	29.0	25.4	33.5	08
14	14	7/8-20UNEF	30.2	29.7	25.9	35.3	10
16	16	1 -20UNEF	33.5	30.0	26.2	37.1	12
18	18	1 1/8-18UNEF	36.6	30.7	26.9	38.6	14
20	20	1 1/4-18UNEF	39.9	31.2	27.7	40.1	16
22	22	1 3/8-18UNEF	42.9	32.0	28.2	41.7	18
24	24	1 5/8-18UNEF	52.6	33.5	30.0	46.5	22
28	28	1 7/8-16UN	58.9	34.8	31.2	49.8	24
32	32	2 1/16-16UNS	65.3	36.3	32.5	52.8	24
36	36	2 5/16-16UNS	71.6	37.6	33.8	56.1	24

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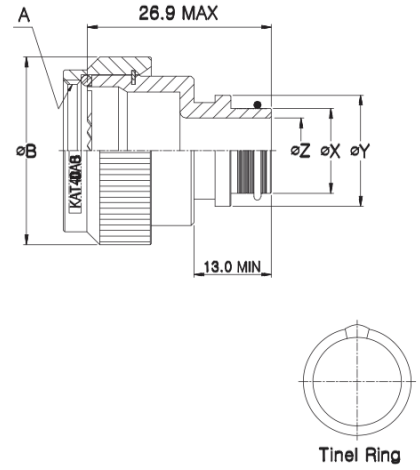
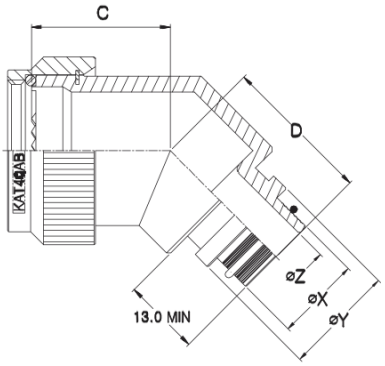
ADAPTER / KAT Series

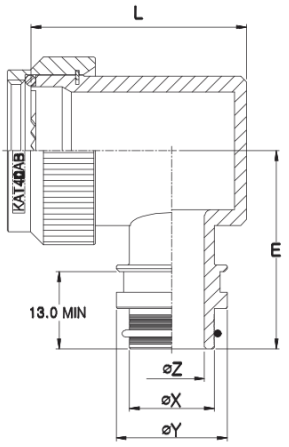
Tinel-Lock Adapter Code 40 (MIL-DTL-D38999. III & IV)



KAT40XX00-XXXXXX



KAT40XX45-XXXXXX



KAT40XX90-XXXXXX

How To Order

KAT 40 A B 00 - 08 04 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	31.2	9.5	14.0	6.3
05	32.8	11.1	15.6	7.9
06	34.3	12.7	17.2	9.5
07	36.1	14.3	18.8	11.1
08	37.6	15.9	20.3	12.7
10	40.6	19.0	23.5	15.9
12	43.9	22.2	26.7	19.0
14	47.0	25.4	29.8	22.2
16	50.8	28.5	33.0	25.4
18	54.1	31.7	36.2	28.5
20	57.2	34.9	39.3	31.7

Order No.	Shell Size		A	ΦB	C	D	E	Entry Size
	Military Spec.	Commercial Spec.	THD-2B	MAX	MAX	MAX	MAX	MAX
08	A	9	M12 X 1.0	19.1	20.8	22.6	27.9	04
10	B	11	M15 X 1.0	21.6	21.3	23.4	30.5	07
12	C	13	M18 X 1.0	25.4	22.1	24.1	32.0	08
14	D	15	M22 X 1.0	29.0	22.6	24.1	34.0	10
16	E	17	M25 X 1.0	31.8	23.4	24.9	35.6	12
18	F	19	M28 X 1.0	35.6	24.1	25.7	36.8	14
20	G	21	M31 X 1.0	38.1	24.6	26.4	38.4	16
22	H	23	M34 X 1.0	41.9	25.4	27.2	39.9	18
24	J	25	M37 X 1.0	44.5	25.9	27.2	42.4	20

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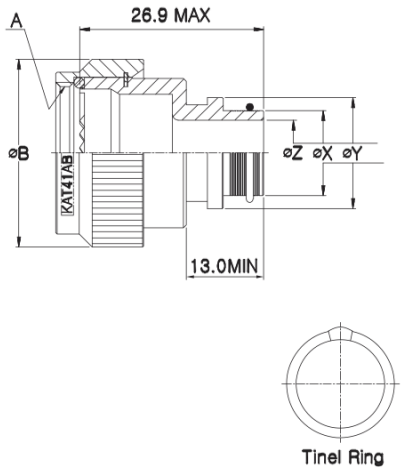
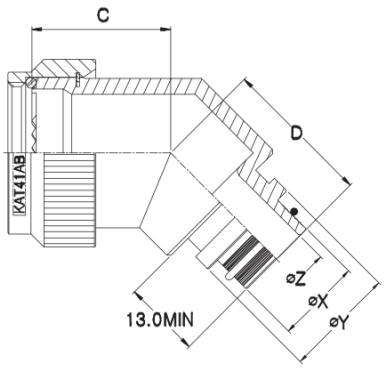
ADAPTER / KAT Series

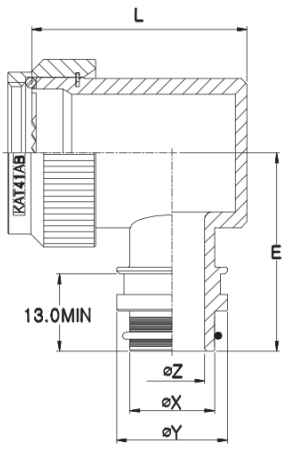
Tinel-Lock Adapter Code 41 (MIL-DTL-38999. I & II)



KAT41XX00-XXXXXX



KAT41XX45-XXXXXX



KAT41XX90-XXXXXX

How To Order

KAT 41 A B 00 - 16 08 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	43.5	9.5	14.0	6.3
05	44.5	11.1	15.6	7.9
06	46.0	12.7	17.2	9.5
07	47.5	14.3	18.8	11.1
08	49.5	15.9	20.3	12.7
10	52.5	19.0	23.5	15.9
12	55.5	22.2	26.7	19.0
14	59.0	25.4	29.8	22.2
16	62.0	28.5	33.0	25.4
18	72.5	31.7	36.2	28.5
20	76.1	34.9	39.3	31.7
22	80.0	38.1	42.5	34.9
24	83.5	41.3	45.7	38.1

Order No.	Shell Size		A	ΦB	C	D	E	Entry Size
	Series I	Series II	THD-2B	MAX	MAX	MAX	MAX	MAX
08	9	8	7/16-28UNEF	19.1	17.5	23.1	29.2	04
10	11	10	9/16-24UNEF	21.6	18.3	23.6	30.7	06
12	13	12	11/16-24UNEF	25.4	18.8	24.4	32.5	08
14	15	14	13/16-20UNEF	29.2	19.3	24.9	34.0	10
16	17	16	15/16-20UNEF	31.8	20.1	25.4	35.6	12
18	19	18	1 1/16-18UNEF	35.6	20.6	26.2	37.1	12
20	21	20	1 3/16-18UNEF	38.1	21.3	26.9	38.9	14
22	23	22	1 5/16-18UNEF	41.9	22.1	27.4	40.4	16
24	25	24	1 7/16-18UNEF	44.5	22.6	28.2	41.9	18

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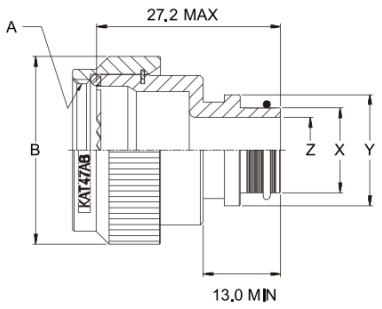
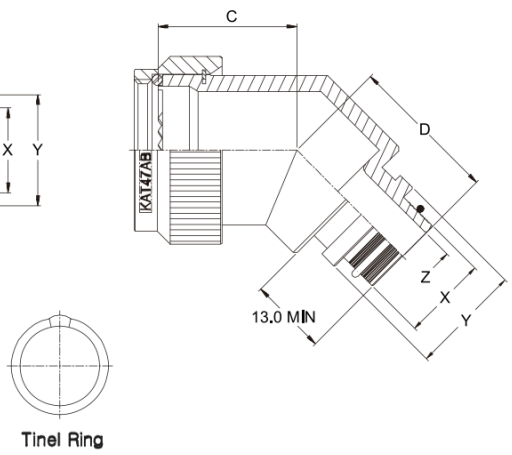
ADAPTER / KAT Series

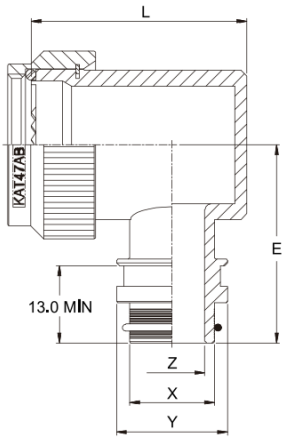
Tinel-Lock Adapter Code 47 (VG96912)



KAT47XX00-XXXXXX



KAT47XX45-XXXXXX



KAT47XX90-XXXXXX

How To Order

KAT 47 A B 00 - 18 14 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	ΦX $^{0}_{-0.1}$	ΦY ±0.1	ΦZ $^{+0.1}_{0}$
04	9.5	14.0	6.3
05	11.1	15.6	7.9
06	12.7	17.2	9.5
07	14.3	18.8	11.1
08	15.9	20.3	12.7
10	19.0	23.5	15.9
12	22.2	26.7	19.0
14	25.4	29.8	22.2
16	28.5	33.0	25.4
18	31.7	36.2	28.5
20	34.9	39.3	31.7
22	38.1	42.5	34.9
24	41.3	45.7	38.1

Order No.	Shell Size CONNECTOR	A THD-2A	ΦB MAX	C MAX	D MAX	E MAX	L MAX	Entry Size MAX
08	8	7/16-28UNEF	18.3	17.5	23.1	29.2	27.2	04
10	10	9/16-24UNEF	21.6	18.3	23.6	30.7	30.2	06
12	12	11/16-24UNEF	24.6	18.8	24.4	32.5	33.5	08
14	14	13/16-20UNEF	27.9	19.3	24.9	34.0	36.6	10
16	16	15/16-20UNEF	31.0	20.1	25.4	35.6	39.9	12
18	18	1 1/16-18UNEF	34.3	20.6	26.2	37.1	39.9	12
20	20	1 3/16-18UNEF	37.3	21.3	26.9	38.9	42.9	14
22	22	1 5/16-18UNEF	40.6	22.1	27.4	40.4	46.2	16
24	24	1 7/16-18UNEF	43.7	22.6	28.2	41.9	49.3	18

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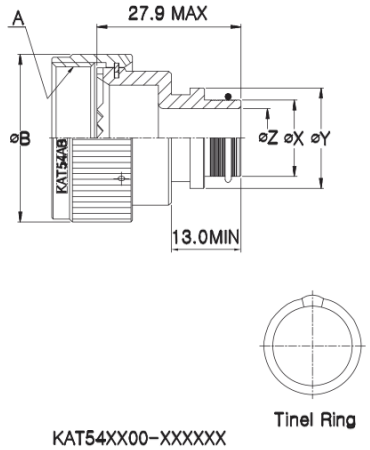
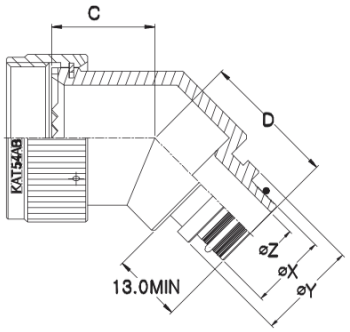
ADAPTER / KAT Series

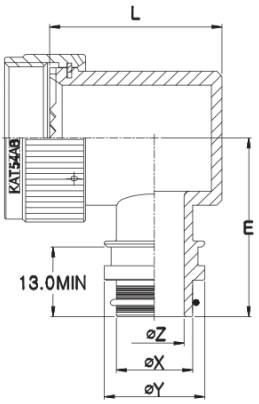
Tinel-Lock Adapter Code 54 (MIL-DTL-26482. II, MIL-DTL-5015. II (MS3400), MIL-DTL-81703. III, MIL-DTL-83723. I & III)



KAT54XX00-XXXXXX



KAT54XX45-XXXXXX



KAT54XX90-XXXXXX

How To Order

KAT 54 A B 00 - 10 06 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-Lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	28.4	9.5	14.0	6.3
05	30.2	11.1	15.6	7.9
06	31.8	12.7	17.2	9.5
07	33.3	14.3	18.8	11.1
08	35.1	15.9	20.3	12.7
10	38.1	19.0	23.5	15.9
12	41.1	22.2	26.7	19.0
14	44.5	25.4	29.8	22.2
16	47.8	28.5	33.0	25.4
18	50.8	31.7	36.2	28.5
20	53.8	34.9	39.3	31.7
22	57.2	38.1	42.5	34.9
24	60.5	41.3	45.7	38.1

Order No.	Shell Size		A	ΦB	C	D	E	Entry Size
	MIL-DTL-26482. I	MIL-DTL-5015. II	THD-2B	MAX	MAX	MAX	MAX	MAX
08	8		1/2-20UNF	15.7	19.1	23.1	27.9	04
10	10	10SL	5/8-24UNEF	18.6	19.6	23.6	29.5	06
12	12	12s, 12	3/4-20UNEF	21.8	20.3	24.1	31.0	08
14	14	14s, 14	7/8-20UNEF	25.0	20.8	24.6	32.5	08
16	16	16s, 16	1 -20UNEF	28.2	21.3	25.4	34.3	10
18	18	18	1 1/16-18UNEF	30.9	21.8	25.7	35.6	12
20	20	20	1 3/16-18UNEF	34.2	22.4	26.4	37.1	14
22	22	22	1 5/16-18UNEF	37.3	23.1	26.9	38.9	16
24	24	24	1 7/16-18UNEF	40.5	23.6	27.7	40.4	18
28		28	1 3/4-18UNS	50.0	24.9	29.2	45.2	22
32		32	2 -18UNS	56.4	26.2	30.5	48.3	24
36		36	2 1/4-16UN	62.7	27.4	31.8	51.6	24

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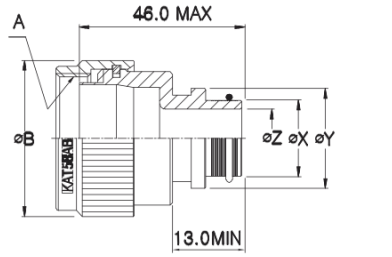
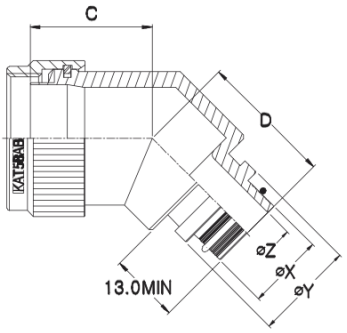
ADAPTER / KAT Series

Tinel-Lock Adapter Code 58 (KDB series, VG95234)

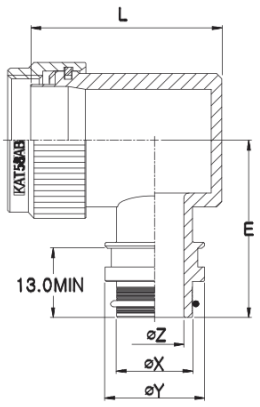


Tinel Ring

KAT58XX00-XXXXXX



KAT58XX45-XXXXXX



KAT58XX90-XXXXXX

How To Order

KAT 58 A B 00 - 16 08 AI

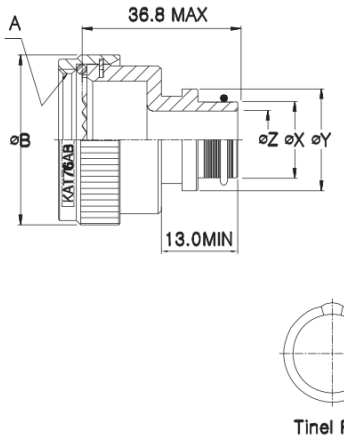
- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	43.5	9.5	14.0	6.3
05	44.5	11.1	15.6	7.9
06	46.0	12.7	17.2	9.5
07	47.5	14.3	18.8	11.1
08	49.5	15.9	20.3	12.7
10	52.5	19.0	23.5	15.9
12	55.5	22.2	26.7	19.0
14	59.0	25.4	29.8	22.2
16	62.0	28.5	33.0	25.4
18	65.0	31.7	36.2	28.5
20	69.0	34.9	39.3	31.7
22	71.0	38.1	42.5	34.9
24	73.5	41.3	45.7	38.1

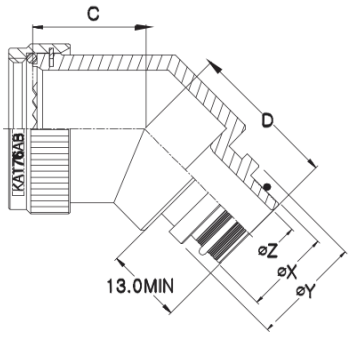
Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	Entry Size MAX
10	10SL	9/16-24UNEF	20.1	19.5	22.5	27.0	05
12	12s, 12	5/8-24UNEF	23.4	21.5	22.5	28.0	06
14	14s, 14	3/4-20UNEF	24.9	22.5	23.0	28.5	07
16	16s, 16	7/8-20UNEF	27.7	23.5	23.5	30.0	08
18	18	1 -20UNEF	31.2	31.5	23.5	30.5	10
20	20	1 1/8-18UNEF	35.8	32.0	25.0	33.0	12
22	22	1 1/4-18UNEF	38.9	33.0	25.5	33.5	14
24	24	1 3/8-18UNEF	41.9	33.5	26.0	36.0	16
28	28	1 5/8-18UNEF	48.5	35.0	27.0	37.5	18
32	32	1 7/8-16UN	54.6	36.5	28.0	40.0	22
36	36	2 1/8-16UN	68.6	38.0	29.0	45.0	24

ADAPTER / KAT Series

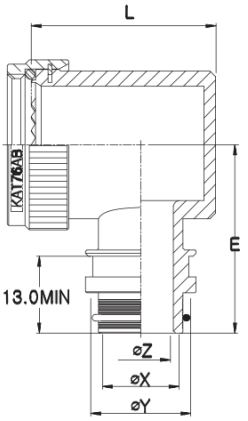
Tinel-Lock Adapter Code 76 (BS 9522-F0017)



KAT76XX00-XXXXXX



KAT76XX45-XXXXXX



KAT76XX90-XXXXXX

How To Order

KAT 76 A B 00 - 12 08 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	31.0	9.5	14.0	6.3
05	32.8	11.1	15.6	7.9
06	34.3	12.7	17.2	9.5
07	35.8	14.3	18.8	11.1
08	37.3	15.9	20.3	12.7
10	40.6	19.0	23.5	15.9
12	43.7	22.2	26.7	19.0
14	47.0	25.4	29.8	22.2
16	50.0	28.5	33.0	25.4
18	53.3	31.7	36.2	28.5
20	58.2	34.9	39.3	31.7

Order No.	Shell Size CONNECTOR	A THD-2A	ΦB MAX	C MAX	D MAX	E MAX	Entry Size MAX
08	8	7/16-28UNEF	20.1	18.8	22.1	26.7	04
10	10	9/16-24UNEF	23.1	19.3	22.9	28.2	07
12	12	11/16-24UNEF	27.2	20.1	23.4	30.2	08
14	14	13/16-20UNEF	30.2	20.8	24.1	31.8	10
16	16	15/16-20UNEF	33.5	21.3	24.6	33.5	12
18	18	1 1/16-18UNEF	36.6	22.1	25.4	35.1	12
20	20	1 3/16-18UNEF	39.9	22.6	25.9	36.6	16
22	22	1 5/16-18UNEF	42.9	23.4	26.7	38.1	18
24	24	1 7/16-18UNEF	45.5	24.6	27.2	39.4	20

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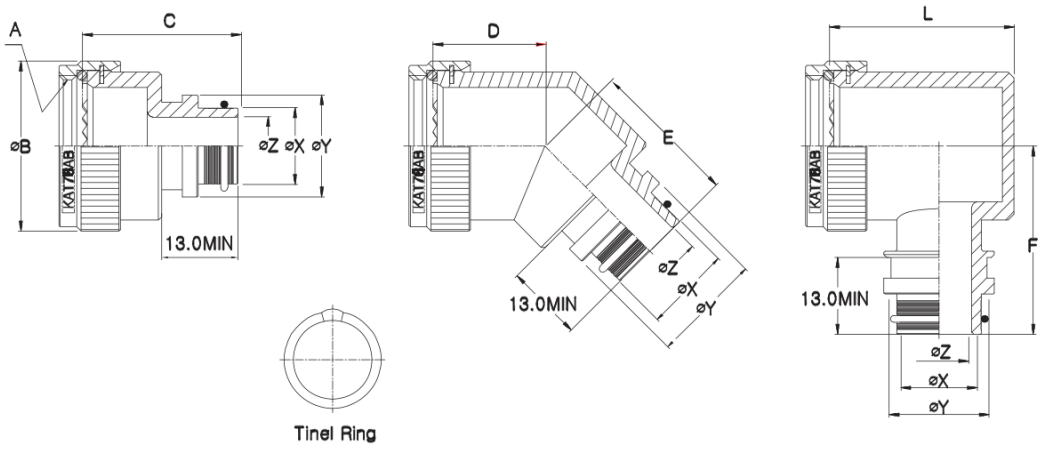
ADAPTER / KAT Series

Tinel-Lock Adapter Code 78 (BS 9522-F0032)



KAT78 XX00-XXXXXX

KAT78 XX45-XXXXXX

KAT78 XX90-XXXXXX

How To Order

KAT 78 A B 00 - 10 05 AI

- **Ring designator**
  - AI - Single Braid
  - BI - Double Braid
- **Entry Size**
- **Order No.**
- **Angle**
  - 00 - ∠0 ° 45 - ∠45 ° 90 - ∠90 °
- **Finish**
  - B - Cadmium chromate, class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - A - Aluminium alloy
  - S - Stainless steel
- **Connector's code**
- **KUKDONG Tinel-Lock Adapter**

Entry Size	L MAX	ΦX 0 -0.1	ΦY ±0.1	ΦZ +0.1 0
04	34.0	9.5	14.0	6.3
05	35.5	11.1	15.6	7.9
06	36.0	12.7	17.2	9.5
07	37.5	14.3	18.8	11.1
08	40.5	15.9	20.3	12.7
10	43.5	19.0	23.5	15.9
12	46.5	22.2	26.7	19.0
14	49.5	25.4	29.8	22.2
16	53.0	28.5	33.0	25.4
18	55.5	31.7	36.2	28.5
20	59.0	34.9	39.3	31.7
22	62.5	38.1	42.5	34.9
24	65.0	41.3	45.7	38.1

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	E MAX	Entry Size MAX
10	10SL	9/16-24UNEF	23.1	28.2	18.5	23.5	28.0	05
12	12s, 12	5/8-24UNEF	23.1	28.2	18.5	23.5	28.0	05
14	14s, 14	3/4-20UNEF	26.4	28.2	19.1	24.0	30.0	07
16	16s, 16	7/8-20UNEF	31.0	36.8	22.0	24.5	31.0	08
18	18	1 -20UNEF	34.3	36.8	23.0	25.0	33.0	10
20	20	1 1/8-18UNEF	37.3	38.9	25.0	26.0	34.6	12
22	22	1 1/4-18UNEF	40.6	38.9	25.0	26.5	36.1	14
24	24	1 3/8-18UNEF	43.9	41.2	26.0	27.0	38.1	16
28	28	1 5/8-18UNEF	50.0	41.2	28.0	28.0	40.9	18
32	32	1 7/8-16UN	56.4	44.7	28.0	29.0	44.5	22
36	36	2 1/8-16UN	62.7	44.7	29.0	30.5	47.0	24

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ADAPTER / KH Series

Definitions

KUKDONG Connector Code

KUKDONG uses a numerical code to identify connectors with similar adapter interfaces. This code is used to determine the adapter family and part number.

Adapter Type

This catalog explains Zeta-lock type only and KUKDONG offers three types. Zeta-Lock, Tinel-Lock, and Spin-coupling. Each is designed to offer a suitable interface between a connector and a heat-shrinkable molded part.

Adapter Part Number

This is KUKDONG sequence of numbers and letters that completely describes the adapter series, size, material, finish and modifications codes. The part numbering system is explained on HOW TO ORDER page.

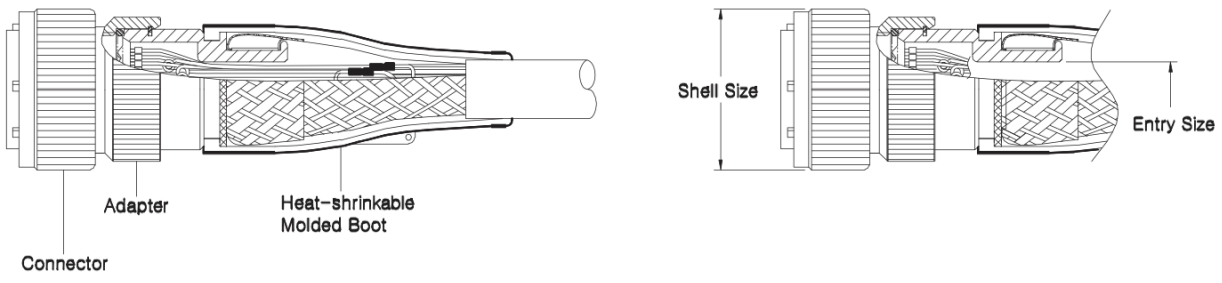
Introduction

Zeta-lock is a unique re-enterable termination system for connecting a cable shielding braid to a circular connector. When used in conjunction with our heatshrink molded shape, a sealed environmental termination system is achieved. Predominantly used in the Aerospace, Defense and Professional electronics sectors.

Zeta-lock incorporates a specially developed backshell designed to accommodate the braid using a constant force spring.

The main feature is that the termination can be re-entered when required. It is thereby possible to effect repairs to connector contacts(pin/socket) without the need to discard any part of the shielding system.

This method gives comparable performance to the other braid trap arrangements, in terms of tensile strength and DC resistance. Furthermore, due to the self-tensioning nature of the spring, It is exceedingly resistant to vibration and shock.



< Cut-away view showing complete screened cable terminations >

ADAPTER / KH Series

Features

- Purpose developed backshell incorporating a self tensioning spring

- Tensile force to pull off braid exceeds 150lbs (68Kg). When used in combination with conventional heatshrink strain relief, tensile force required to remove is in excess of 250lbs (113.38Kg)

- Operator friendly and easy to install

- Constant force spring produces a DC contact resistance at 20℃ of less than 1mΩ, due to 360° contact with the backshell

- Constant force spring electrical and mechanical characteristics are unaffected by vibration, shock and temperatures between -65℃ and +150℃

- Comprehensive independent witnessed test report available on request, covering thermal cycling to MIL-STD-202E method 107G, vibration testing to MIL-STD-176-1, shock testing to MIL-STD-1344A condition G

- Constant force spring can be used in corrosive atmospheres

- Constant force spring can be used with single or double braids when used in combination with backshells designed for use with the Zeta-lock spring

Benefits

- Spring can be re-opened with no special tools and subsequently re-used

- Possible to effect repairs to connector contacts(pin/socket) without the need to scrap any part of the shielding system

- Product achieves a 360° screen termination

- Four sizes of springs cover a range of entry sizes

- Spring has a pre-set compressive force and so needs no external calibration

- Constant force spring can be used in conjunction with backshells and braid tails, without the use of swaging equipment, in the factory or in the field

Selection of adapter types

KUKDONG offers several types of adapter for unscreened and screened termination systems. The choice is largely dependent upon the screening level required and the braid termination method.

The three principal adapter types are Zeta-lock, Tinel-lock, Spin-coupling adapters.

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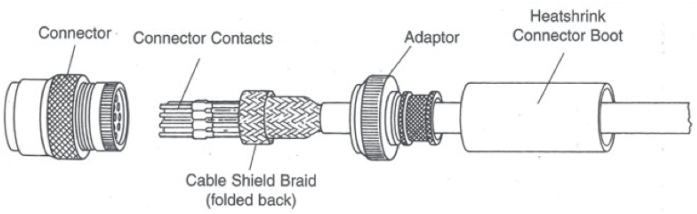
Installation procedure

- Prepare the cable making sure that a sufficient length of shield is available, so that it fits against the front shoulder of the lip groove

- Before insertion of connector contacts(pin/socket), slide the heat-shrinkable molded boot onto the cable followed by the zeta-lock adapter

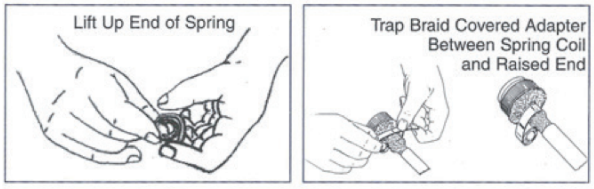


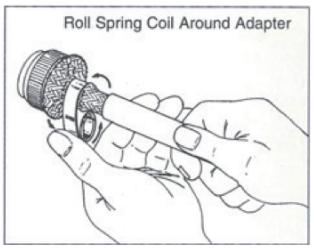
- Position the heatshrinkable boot, zeta-lock adapter and shield braid out of the way and insert the connector contacts(pin/socket). Depending upon the shielding braid size it can either be folded back onto itself or bunched up concertina style out of the way for easy access to the cable conductors

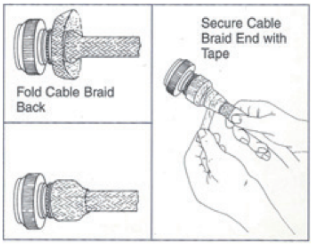
- Screw the zeta-lock adapter onto the connector and tighten to the torque value specified by the connector manufacturer. Suggested torque values are shown in table on the next page. It is recommended that the connector threads are lubricated with a suitable compound if a liquid thread lock is not used. The adapter should be hand tightened to ensure proper thread alignment and then tightened with a strap wrench and torgue to the specified torque

- Bring the cable shield braid up onto the adapter body so that it fits against the front shoulder of the lip groove. Alteratively extend the braid past the lip groove

- Open up the constant force spring and wrap it around the cable braid section that is positioned over the constant force spring slot area of the adapter. This is most easily accomplished by lifting up the end of the spring and trapping the braid covered between the spring coil and raised end. The spring will now stay in place and can be installed by simply rolling the spring coil around the braid covered adapter. Refer to approprite code of practice for procedure to install heatshrink shape







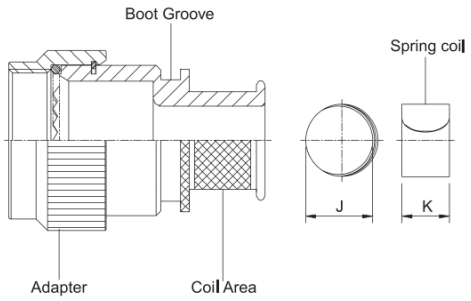
※ Note

After assembly, braid can be trimmed with side cutters or folded back and secured with high temperature tape

< Cut-away view showing complete screened cable terminations >

Spring coil Ref. and Entry size

The Spring coil ref. entry must be specified according to the type of cable braid used, and is added to the part number after the adapter entry size



Entry Size	Spring coil Ref.	J	K
03, 04	HE050	7.3	9.5
06	HE100	9.2	9.5
08, 10	HE200	14.5	9.5
12, 14, 16	HE300	18.5	9.5
18, 20, 22, 24	HE400	25.0	9.5

※ Note : Braid type, material and construction are variable. If in doubt, please contact KUKDONG for more informations

Cross reference table

Entry Size	Knurl ΦY ±0.1	Bore ΦZ +0.1
03	14.0	4.7
04	14.0	6.3
05	15.6	7.9
06	17.2	9.5
07	18.8	11.1
08	20.3	12.7
09	21.9	14.3
10	23.5	15.9
11	25.1	17.5
12	26.7	19.0
13	28.3	20.6

Entry Size	Knurl ΦY ±0.1	Bore ΦZ +0.1
14	29.8	22.2
15	31.4	23.8
16	33.0	25.4
17	34.6	27.0
18	36.2	28.5
19	37.8	30.1
20	39.3	31.7
21	40.9	33.3
22	42.5	34.9
23	44.1	36.5
24	45.7	38.1

Shell Size Connector	Suggested Torque	
	In-lb	N.m
8 & 9	35-40	3.92-4.48
10 & 11	45-50	5.04-5.60
12 & 13	55-60	6.16-6.72
14 & 15	65-70	7.28-7.84
16 & 17	75-80	8.40-8.96
18 & 19	85-90	9.52-10.08
20 & 21	95-100	10.64-11.20
22 & 23	105-110	11.76-12.32
24 & 25	115-120	12.88-13.44
28	125-130	14.00-14.56
32	145-150	16.24-16.80
36	170-175	19.04-19.60
40	185-190	20.72-21.28

※ Note : Please check connector manufacturer's recommended values

How To Order

Zeta-Lock Adapter

KH Q 1 - 28 - 10 - 1 - B

Finish

B - Cadmium chromate, class 3 over electroless nickel
C - Nickel plating
J - Passivated

Matetial

1 - Aluminium alloy
2 - Stainless steel

Entry Size

see the page of adapters

Shell Size

see the page of adapters

Angle

1 - ∠0 ° 2 - ∠45 ° 3 - ∠90 °

Connector's code

A - MIL-DTL-5015 Ⅱ
MIL-DTL-26482 Ⅱ
MIL-DTL-81703 Ⅱ
MIL-DTL-83723 Ⅰ & Ⅲ
C - MIL-DTL-5015 Ⅰ (with Endbell)
D - MIL-DTL-26482 Ⅰ (MS3110, MS3116, MS3120, MS3126)
F - MIL-DTL-38999 Ⅰ & Ⅱ
H - MIL-DTL-38999 Ⅲ & Ⅳ
K - MIL-DTL-26482 Ⅰ (MS3114)
L - MIL-DTL-5015 Ⅰ (without Endbell)
Q - KDB & VG95234

KUKDONG Zeta-lock Adapter

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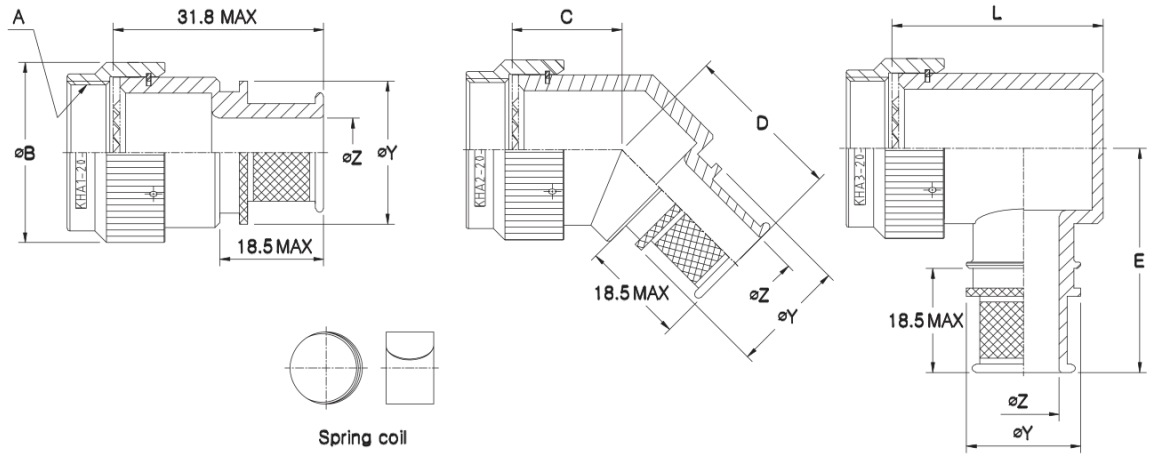
ADAPTER / KH Series

Zeta-Lock Adapter Code A (MIL-DTL-26482. II, MIL-DTL-5015. II (MS3400), MIL-DTL-81703. III, MIL-DTL-83723. I & III)



KHA1-XX-XX-X-X KHA2-XX-XX-X-X KHA3-XX-XX-X-X

How To Order

KH A 1 - 20 - 10 - 1 - B

- **Finish**
  B - Cadmium chromate class 3 over electroless nickel
  C - Nickel plating
  J - Passivated
- **Matetial**
  1 - Aluminium alloy
  2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size		A	ΦB	C	D	E	L	Entry Size
	MIL-DTL-26482. II	MIL-DTL-5015. II	THD-2B	MAX	MAX	MAX	MAX	MAX	MAX
08	8		1/2-20UNF	17.1	17.5	26.5	33.0	25.0	04
10	10	10SL	5/8-24UNEF	20.6	17.5	26.5	34.5	27.0	06
12	12	12s, 12	3/4-20UNEF	23.5	18.0	26.5	36.0	29.5	08
14	14	14s, 14	7/8-20UNEF	26.5	19.0	28.0	37.5	31.0	08
16	16	16s, 16	1 -20UNEF	29.3	19.5	28.5	39.0	34.5	10
18	18	18	1 1/16-18UNEF	30.9	20.0	29.0	40.0	37.5	12
20	20	20	1 3/16-18UNEF	34.9	20.5	29.5	41.5	42.5	14
22	22	22	1 5/16-18UNEF	38.0	21.0	30.0	43.0	44.5	16
24	24	24	1 7/16-18UNEF	41.5	22.5	31.5	44.5	45.5	18
28		28	1 3/4-18UNS	47.9	23.0	38.0	54.2	53.5	22
32		32	2 -18UNS	53.7	24.5	39.5	57.3	55.0	24
36		36	2 1/4-16UN	60.6	26.0	41.0	60.6	65.5	24

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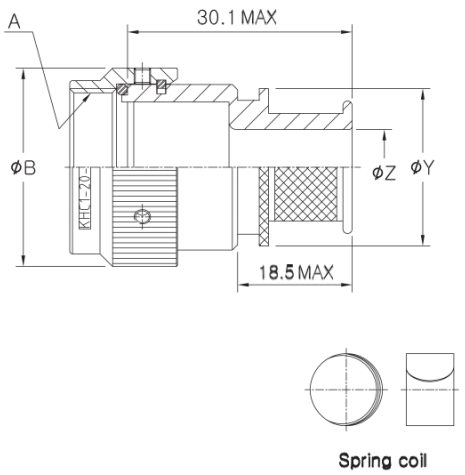
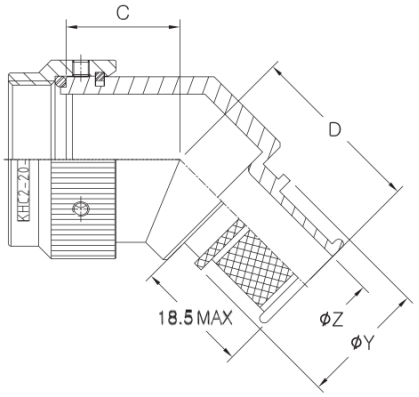
ADAPTER / KH Series

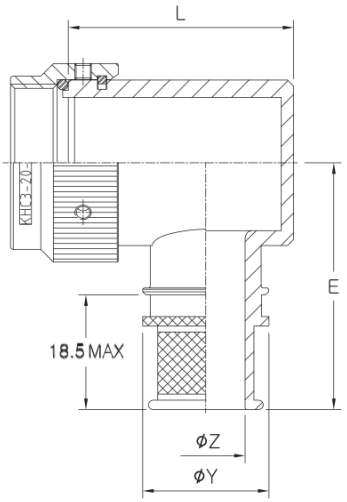
Zeta-Lock Adapter Code C (MIL-DTL-5015. I, with Endbell)



KHC1-XX-XX-X-X



KHC2-XX-XX-X-X



KHC3-XX-XX-X-X

How To Order

KH C 1 - 04 - 07 - 1 - B

- **Finish**
  - B - Cadmium chromate class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - 1 - Aluminium alloy
  - 2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  - 1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	L MAX	Entry Size MAX
04	10SL, 12s, 12	5/8-24UNEF	23.1	17.5	26.5	33.5	37.0	07
06	14s, 14	3/4-20UNEF	26.4	18.0	26.5	35.0	39.0	08
08	16s, 16	7/8-20UNEF	29.5	19.0	28.0	38.5	41.0	10
10	18	1 -20UNEF	34.0	20.0	28.5	40.0	45.0	12
12	20, 22	1 3/16-18UNEF	37.3	21.0	30.5	43.0	51.5	16
16	24, 28	1 7/16-18UNEF	46.2	23.5	32.5	49.5	58.0	20
20	32	1 3/4-18UNS	54.9	24.5	33.5	51.0	64.5	24
24	36	2 -18UNS	62.0	27.5	35.0	54.5	64.5	24

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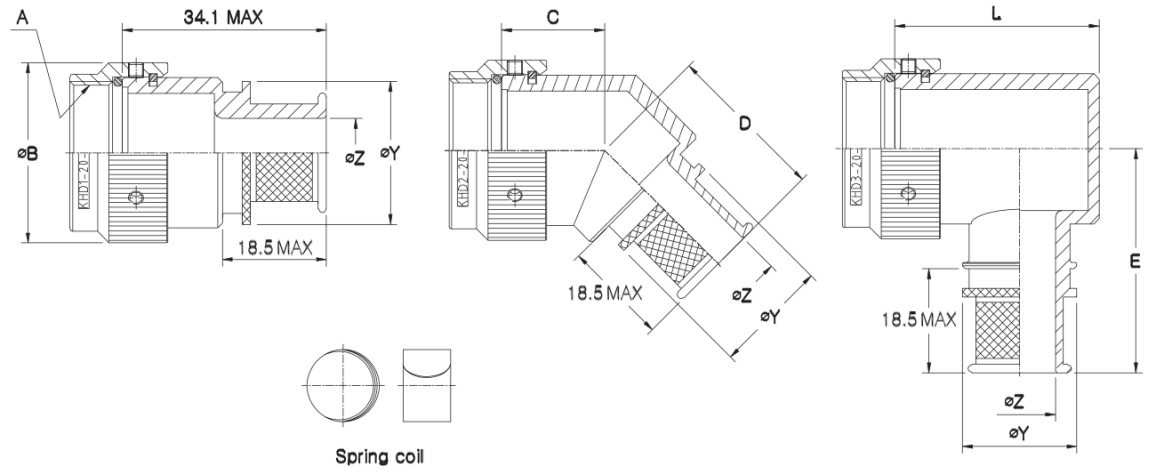
Zeta-Lock Adapter Code D (MIL-DTL-26482. I - MS3110,MS3116, MS3120, MS3126)



KHD1-XX-XX-X-X KHD2-XX-XX-X-X KHD3-XX-XX-X-X

How To Order

KH D 1 - 24 - 18 - 1 - B

- **Finish**
  - B - Cadmium chromate class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - 1 - Aluminium alloy
  - 2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  - 1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	L MAX	Entry Size MAX
08	8	7/16-28UNEF	18.3	14.5	22.0	32.5	25.5	04
10	10	9/16-24UNEF	21.5	15.5	23.0	34.5	28.5	06
12	12	11/16-24UNEF	24.7	16.0	23.5	36.0	32.0	08
14	14	13/16-20UNEF	28.0	16.5	24.0	37.5	35.5	10
16	16	15/16-20UNEF	31.2	17.0	25.0	38.0	38.5	12
18	18	1 1/16-18UNEF	34.3	17.5	25.5	39.0	42.0	12
20	20	1 3/16-18UNEF	37.5	18.5	26.0	41.5	45.5	14
22	22	1 5/16-18UNEF	40.7	19.0	26.5	43.0	48.5	16
24	24	1 7/16-18UNEF	43.9	20.0	27.5	43.5	51.5	18

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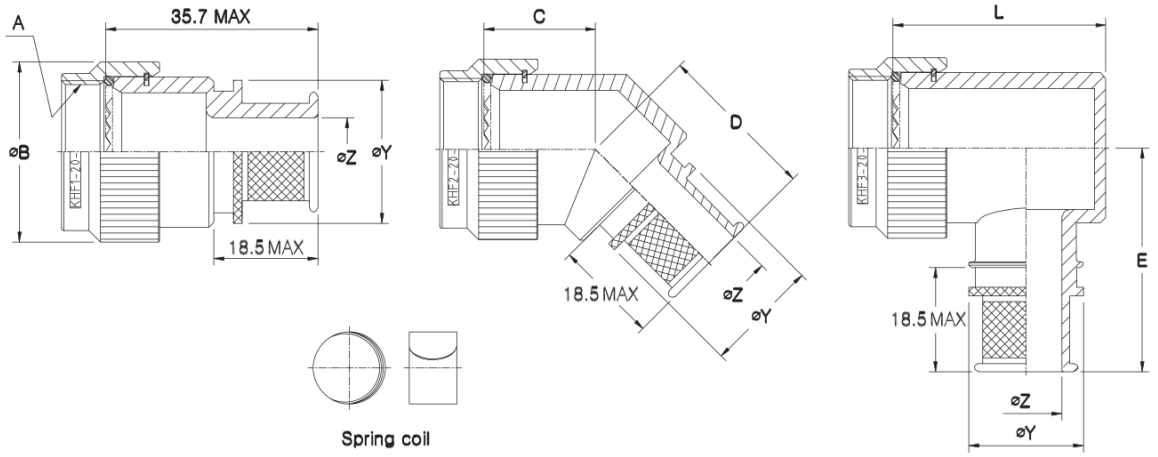
ADAPTER / KH Series

Zeta-Lock Adapter Code F (MIL-DTL-38999 series I, II)



KHF1-XX-XX-X-X KHF2-XX-XX-X-X KHF3-XX-XX-X-X

How To Order

KH F 1 - 12 - 05 - 1 - B

- **Finish**
  - B - Cadmium chromate class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - 1 - Aluminium alloy
  - 2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  - 1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size		A	ΦB	C	D	E	L	Entry Size
	Series I	Series II	THD-2B	MAX	MAX	MAX	MAX	MAX	MAX
08	9	8	7/16-28UNEF	18.3	14.5	22.0	32.5	23.0	04
10	11	10	9/16-24UNEF	21.5	15.5	23.0	34.5	28.5	06
12	13	12	11/16-24UNEF	24.5	16.0	23.5	36.0	32.0	08
14	15	14	13/16-20UNEF	27.8	16.5	24.0	37.5	35.5	10
16	17	16	15/16-20UNEF	30.8	17.0	25.0	38.0	38.5	12
18	19	18	1 1/16-18UNEF	34.1	17.5	25.5	39.0	42.0	12
20	21	20	1 3/16-18UNEF	37.3	18.5	26.0	41.5	45.5	14
22	23	22	1 5/16-18UNEF	40.5	19.0	26.5	43.0	48.5	16
24	25	24	1 7/16-18UNEF	43.7	20.0	27.5	43.5	51.5	18

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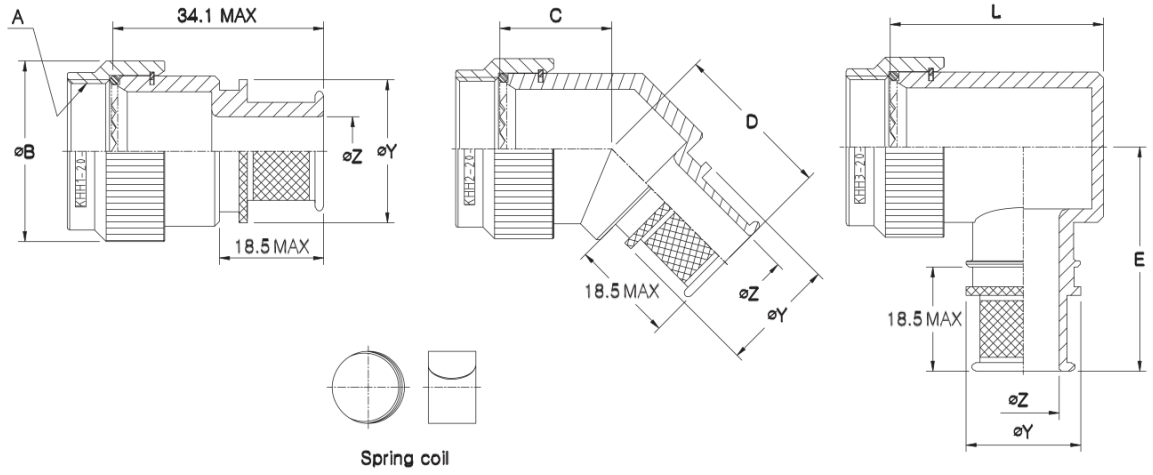
ADAPTER / KH Series

Zeta-Lock Adapter Code H (MIL-DTL-D38999 series III, IV)



KHH1-XX-XX-X-X KHH2-XX-XX-X-X KHH3-XX-XX-X-X

How To Order

KH H 1 - 22 - 12 - 1 - B

- **Finish**
  - B - Cadmium chromate class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - 1 - Aluminium alloy
  - 2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  - 1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size		A	ΦB	C	D	E	L	Entry Size
	Military Spec.	Commercial Spec.	THD-2B	MAX	MAX	MAX	MAX	MAX	MAX
08	A	9	M12 X 1.0	19.5	17.0	22.0	32.5	22.5	04
10	B	11	M15 X 1.0	23.0	18.0	23.0	34.5	26.0	07
12	C	13	M18 X 1.0	25.8	18.6	23.5	36.0	29.0	08
14	D	15	M22 X 1.0	30.2	19.0	24.0	37.5	32.0	10
16	E	17	M25 X 1.0	33.0	20.0	25.0	39.0	35.5	12
18	F	19	M28 X 1.0	35.8	20.5	25.5	39.5	39.5	14
20	G	21	M31 X 1.0	39.1	21.0	26.0	41.5	42.0	16
22	H	23	M34 X 1.0	42.3	21.5	26.5	43.0	45.0	18
24	J	25	M37 X 1.0	45.0	22.5	27.5	43.5	48.0	20

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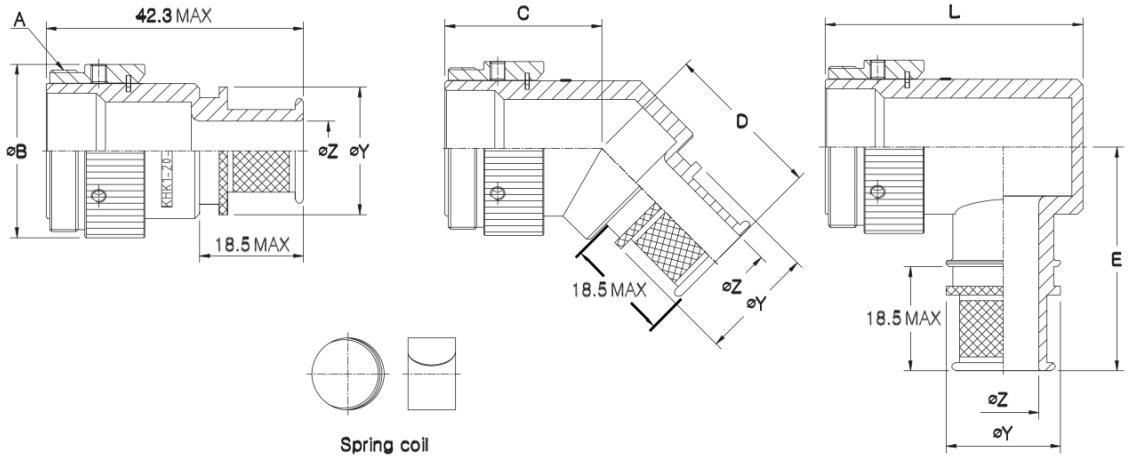
ADAPTER / KH Series

Zeta-Lock Adapter Code K (MIL-DTL-26482. I - MS3114,MS3124)



KHK1-XX-XX-X-X KHK2-XX-XX-X-X KHK3-XX-XX-X-X

How To Order

KH K 1 - 14 - 10 - 1 - B

- **Finish**
  - B - Cadmium chromate class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - 1 - Aluminium alloy
  - 2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  - 1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size CONNECTOR	A THD-2A	ΦB MAX	C MAX	D MAX	E MAX	L MAX	Entry Size MAX
08	8	5/8-24UNEF	19.8	24.0	27.0	32.0	43.5	04
10	10	3/4-20UNEF	23.1	24.5	28.0	33.5	46.0	06
12	12	7/8-20UNEF	26.2	25.0	28.5	35.5	49.5	08
14	14	1 -20UNEF	29.5	26.0	29.0	37.0	52.5	10
16	16	1 1/8-18UNEF	32.5	26.5	29.5	38.5	55.5	12
18	18	1 1/4-18UNEF	35.8	27.0	30.5	40.0	59.0	14
20	20	1 3/8-18UNEF	38.9	29.0	31.0	41.0	59.0	14
22	22	1 1/2-18UNEF	42.2	29.5	31.5	43.5	65.0	18
24	24	1 5/8-18UNEF	45.2	30.5	32.0	45.0	65.0	18

KH Series

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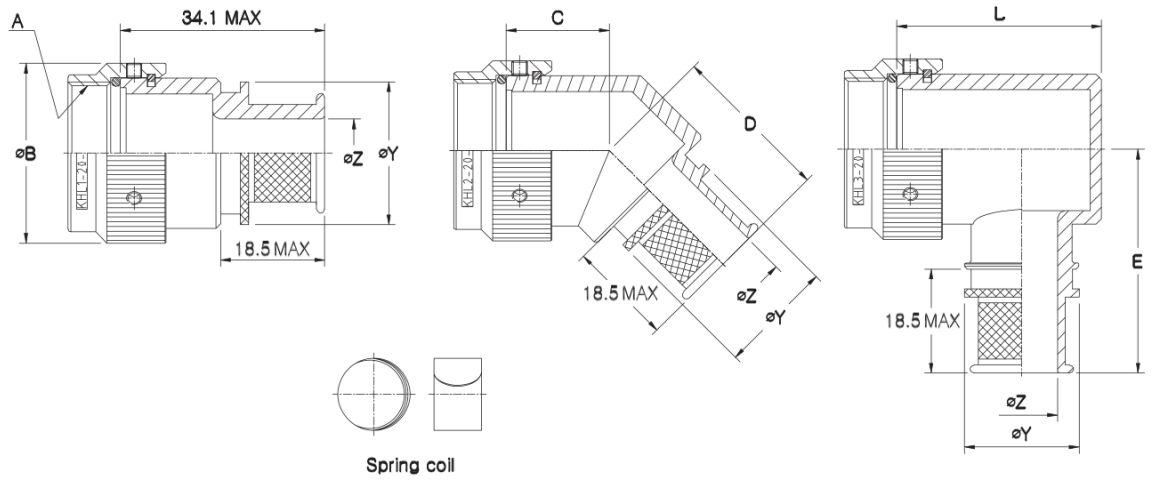
ADAPTER / KH Series

Zeta-Lock Adapter Code L (MIL-DTL-5015 series I, without Endbell)



KHL1-XX-XX-X-X KHL2-XX-XX-X-X KHL3-XX-XX-X-X

How To Order

KH L 1 - 16 - 04 - 1 - B

- **Finish**
  - B - Cadmium chromate class 3 over electroless nickel
  - C - Nickel plating
  - J - Passivated
- **Matetial**
  - 1 - Aluminium alloy
  - 2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  - 1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	L MAX	Entry Size MAX
10	10SL	9/16-24UNEF	21.5	17.5	26.5	34.0	27.5	07
12	12s, 12	5/8-24UNEF	21.5	17.5	26.5	34.0	27.5	08
14	14s, 14	3/4-20UNEF	24.9	18.0	26.5	35.0	29.0	10
16	16s, 16	7/8-20UNEF	28.1	19.0	28.0	36.0	32.5	12
18	18	1 -20UNEF	31.5	19.5	28.5	37.5	35.0	12
20	20	1 1/8-18UNEF	36.9	20.0	29.0	39.0	40.5	16
22	22	1 1/4-18UNEF	40.8	20.5	29.5	41.0	42.5	18
24	24	1 3/8-18UNEF	50.5	21.0	30.0	46.0	46.5	20
28	28	1 5/8-18UNEF	54.5	22.5	31.5	48.0	50.0	24
32	32	1 7/8-16UN	55.2	23.0	38.0	48.0	58.5	24
36	36	2 1/8-16UN	64.0	24.5	39.5	52.0	64.0	24

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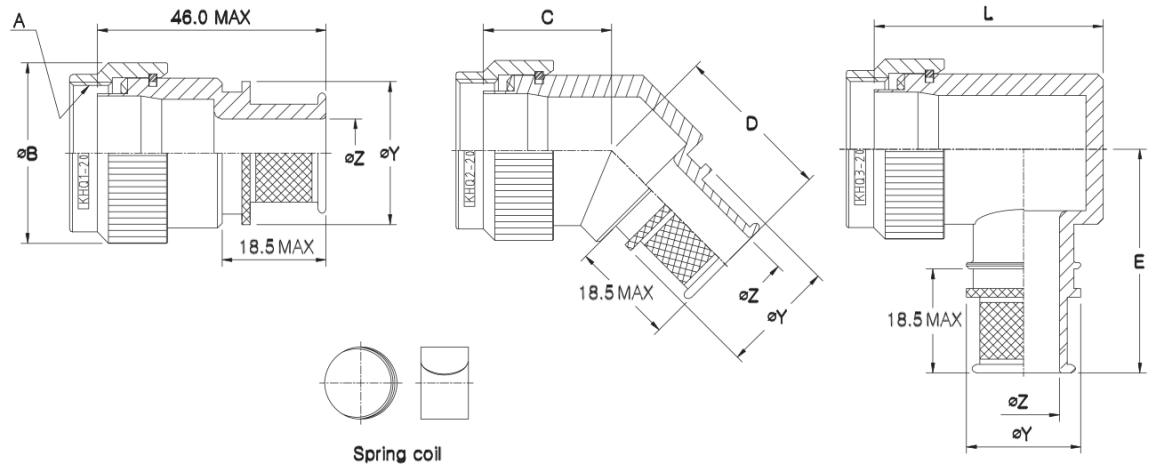
ADAPTER / KH Series

Zeta-Lock Adapter Code Q (KDB series, VG95234)



KHQ1-XX-XX-X-X KHQ2-XX-XX-X-X KHQ3-XX-XX-X-X

How To Order

KH Q 1 - 10 - 05 - 1 - B

- **Finish**
  B - Cadmium chromate class 3 over electroless nickel
  C - Nickel plating
  J - Passivated
- **Matetial**
  1 - Aluminium alloy
  2 - Stainless steel
- **Entry Size**
- **Order No.**
- **Angle**
  1 - ∠0° 2 - ∠45° 3 - ∠90°
- **Connector's code**
- **KUKDONG Zeta-lock Adapter**

Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.	Entry Size	ΦY ±0.1	ΦZ +0.1	Spring Coil Ref.
03	14.0	4.7	HE050	14	29.8	22.2	HE300
04	14.0	6.3	HE050	15	31.4	23.8	HE300
05	15.6	7.9	HE100	16	33.0	25.4	HE300
06	17.2	9.5	HE100	17	34.6	27.0	HE400
07	18.8	11.1	HE100	18	36.2	28.5	HE400
08	20.3	12.7	HE200	19	37.8	30.1	HE400
09	21.9	14.3	HE200	20	39.3	31.7	HE400
10	23.5	15.9	HE200	21	40.9	33.3	HE400
11	25.1	17.5	HE200	22	42.5	34.9	HE400
12	26.7	19.0	HE300	23	44.1	36.5	HE400
13	28.3	20.6	HE300	24	45.7	38.1	HE400

Order No.	Shell Size CONNECTOR	A THD-2B	ΦB MAX	C MAX	D MAX	E MAX	L MAX	Entry Size MAX
10	10SL	9/16-24UNEF	17.5	17.5	26.0	30.5	21.0	05
12	12s, 12	5/8-24UNEF	20.5	17.5	26.5	32.5	25.0	06
14	14s, 14	3/4-20UNEF	24.0	18.0	26.5	34.5	29.0	07
16	16s, 16	7/8-20UNEF	27.0	19.0	28.0	36.0	32.0	08
18	18	1 -20UNEF	30.5	19.5	28.5	37.5	35.0	10
20	20	1 1/8-18UNEF	35.5	20.0	29.0	39.0	38.0	12
22	22	1 1/4-18UNEF	38.5	20.5	29.5	40.5	41.0	14
24	24	1 3/8-18UNEF	41.5	21.0	30.0	41.5	44.0	16
28	28	1 5/8-18UNEF	48.0	22.5	31.5	43.0	47.0	18
32	32	1 7/8-16UN	54.5	23.0	38.0	43.5	50.0	22
36	36	2 1/8-16UN	62.5	24.5	39.5	46.0	53.0	24

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