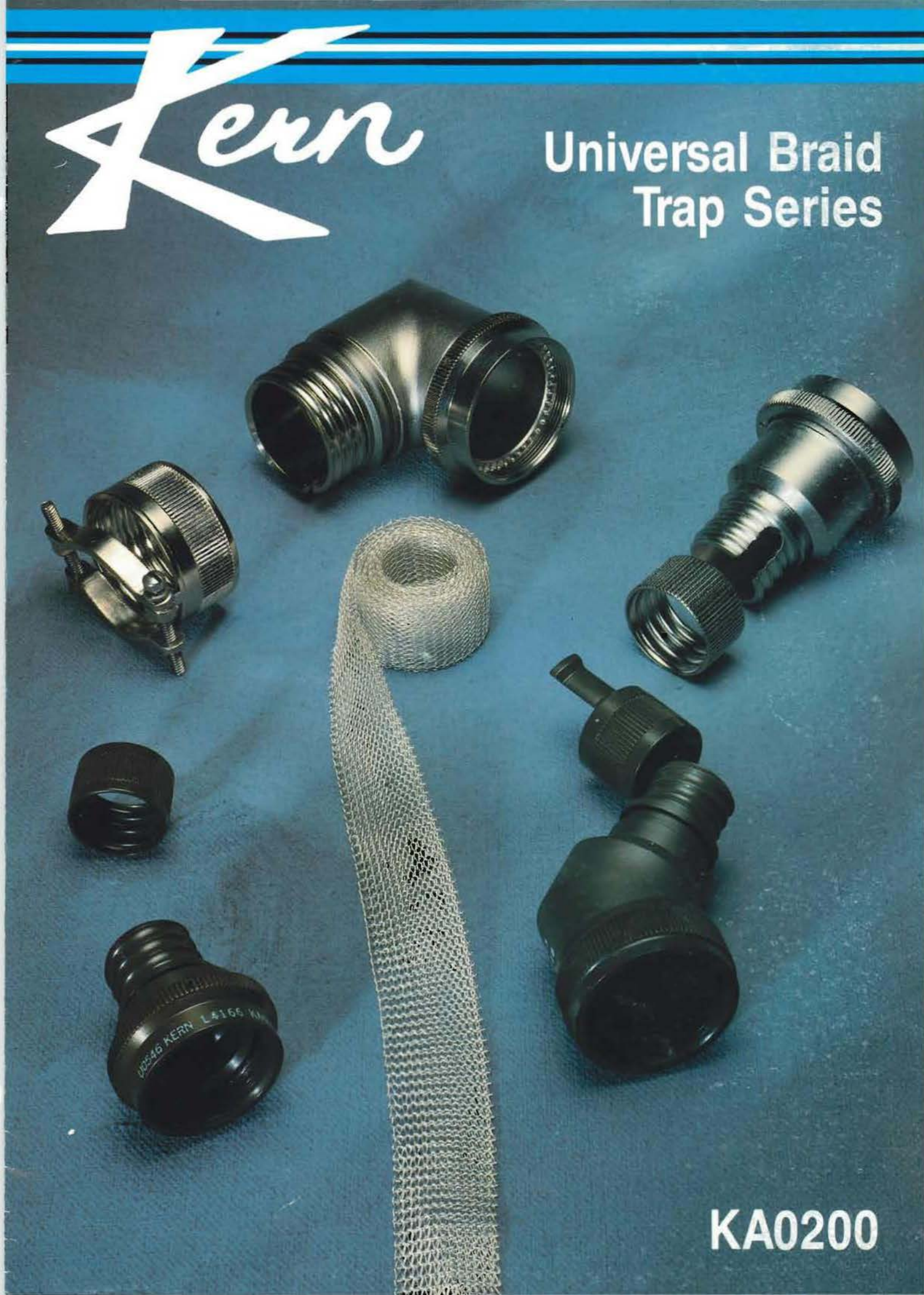
Kern

Universal Braid Trap Series



KA0200

KA0200 – 28 – 24 W 5 – 24 C

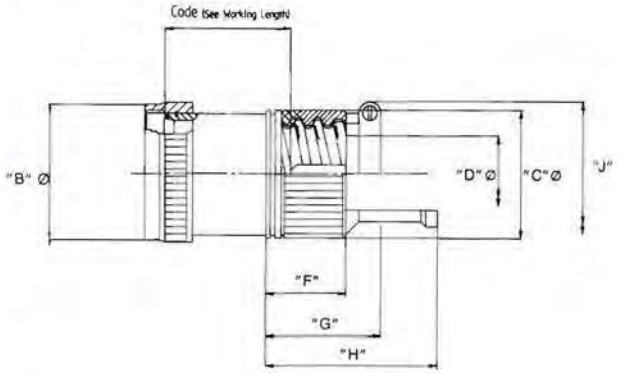
Backshell Style

KA0200 – **28** – 24 W 5 – 24 C

Series Code

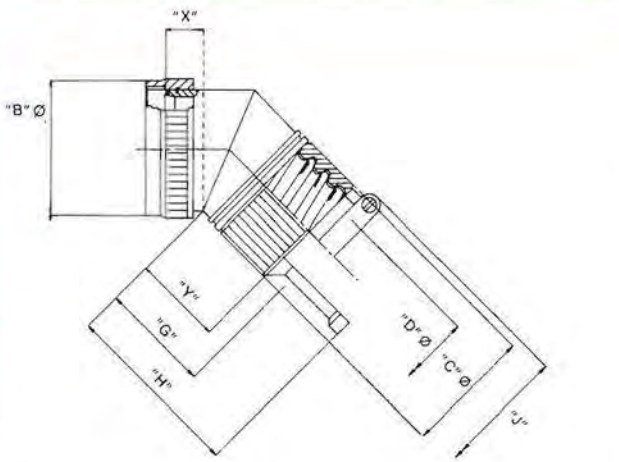
KA0200 STRAIGHT Non-Rotating

Series Code	Connector Type	Shell Size
22	MIL-C-26482 Series 1 PAT 105 & 603	8-24
26	MIL-C-38999 Series 1 & 2 PAT 614 & 616 PAN 6433-1	8-24
28	MIL-C-83723 Series 1 & 3 MIL-C-26482 Series 2 PAT 602 & PAN 6432-1 & -4	8-24
32	MIL-C-38999 Series 3 & 4 METRIC THREADS.	9-25
38	PAN 6433 -2 LN29729	8-24



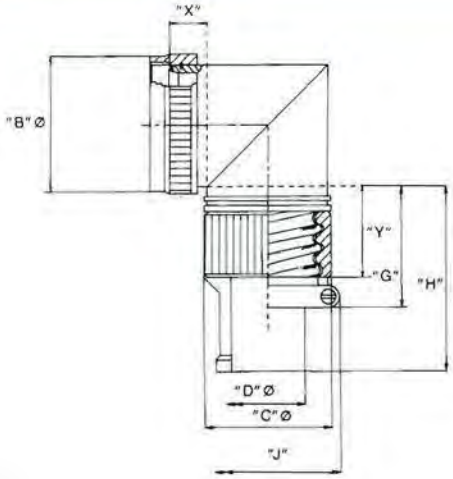
KA0200 45°

Series Code	Connector Type	Shell Size
42	MIL-C-26482 Series 1 PAT 105 & 603	8-24
46	MIL-C-38999 Series 1 & 2 PAT 614 & 616 PAN 6433-1	8-24
48	MIL-C-83723 Series 1 & 3 MIL-C-26482 Series 2 PAT 602 & PAN 6432-1 & -4	8-24
52	MIL-C-38999 Series 3 & 4 METRIC THREADS.	9-25
58	PAN 6433 -2 LN29729	8-24



KA0200 90°

Series Code	Connector Type	Shell Size
82	MIL-C-26482 Series 1 PAT 105 & 603	8-24
86	MIL-C-38999 Series 1 & 2 PAT 614 & 616 PAN 6433-1	8-24
88	MIL-C-83723 Series 1 & 3 MIL-C-26482 Series 2 PAT 602 & PAN 6432-1 & -4	8-24
92	MIL-C-38999 Series 3 & 4 METRIC THREADS.	9-25
98	PAN 6433 -2 LN29729	8-24



KA0200 - 28 - 24 W 5 - 24 C - **

KA0200 - 28 - **24** W 5 - 24 C

Shell Sizes

measurements in inches. (mm)

SHELL SIZE	B ∅ Max. ALL SERIES	X Dim. Max. 42-98 SERIES	Y Dim. Max. 42-98 SERIES
08 / 09	.785 (19.9)	.795 (20.2)	1.250 (31.8)
10 / 11	.915 (23.3)		1.350 (34.3)
12 / 13	1.045 (26.6)		1.350 (34.3)
14 / 15	1.175 (29.9)		1.500 (38.1)
16 / 17	1.305 (33.2)		1.500 (38.1)
18 / 19	1.372 (34.9)		1.650 (42.0)
20 / 21	1.502 (38.2)		1.650 (42.0)
22 / 23	1.632 (41.5)		1.800 (45.8)
24 / 25	1.762 (44.8)		1.800 (45.8)

KA0200 - 28 - 24 W **5** - 24 C

Working Length

Series 26 28 32 38
Omit on all angled series

measurements in inches. (mm)

Code	Length
1	.590 (15)
2	.866 (22)
3	1.036 (26.3)
4	1.311 (33.3)
5	1.587 (40.3)
6	1.863 (47.3)

NOTE:
Working length code 1. is only available where shell size and cable entry code is the same. For other combinations of cable entry code and shell size working length code 2. is the minimum.

KA0200 - 28 - 24 **W** 5 - 24 C

Finish

Code	Description
A	Cad. Plate/Bright Dip
J	Electroless Nickel
M	Cad. Plate / Yellow Passivate
R	Black Anodise
W	Cad. Plate / Olive Drab Passivate

NOTE:
Finish information for standard aluminium material only.

For alternative materials omit finish code and add the following modification code as a suffix to the part number.

e.g. 005 Aluminium Bronze
014 Stainless Steel

KA0200 – 28 – 24 W 5 – **24** C

Cable Accommodation

measurements in inches. (mm)

ENTRY CODE	"C" ϕ Max.	"D" ϕ Optimum Cable Accommodation	"F" Dim. Max.	"G" Dim. Max.	"H" Dim. Max.	"J" Max. Width
08 / 09	.550 (14.0)	.220 (5.60)	.590 (15.0)	1.122 (28.5)	1.516 (38.5)	.750 (19.1)
10 / 11	.620 (15.8)	.319 (8.10)				.870 (22.1)
12 / 13	.790 (20.2)	.437 (11.1)	.730 (18.5)	1.260 (32.0)	1.658 (42.1)	1.00 (25.4)
14 / 15	.860 (22.0)	.477 (12.1)				1.130 (28.7)
16 / 17	.980 (25.1)	.599 (15.2)				1.250 (31.8)
18 / 19	1.060 (27.1)	.674 (17.1)				1.380 (35.1)
20 / 21	1.240 (31.6)	.776 (19.7)				1.500 (38.1)
22 / 23	1.370 (34.9)	.930 (23.6)				1.630 (41.4)
24 / 25	1.460 (37.2)	1.063 (27.0)				1.750 (44.5)

NOTE:
Please consult Kern Sales Office for other cable size codes and other materials.

Backshells for other connector series are available.

Use even number shell and entry codes except for series 32, 52 and 92 which have odd number entry codes.

KA0200 – 28 – 24 W 5 – 24 **C**

Strain Relief

"C" Clamps

"T" Tie Post

Plain Nut Omit

Mod Code

KA0200

The new KA0200 series of screened backshells has been designed and developed as a result of today's demands to provide a simple yet effective method of terminating cable screens, both individually and overall with a common ground plane in the form of a backshell.

KA0200 is an advanced solution for the 360° protection of individual and / or overall cable bundle screens, from the harsh and harmful effects of EMI and RFI in all cabling applications.

KA0200 employs the Kern 'Universal Braid Trap' system of cable screen termination which provides for simple yet extremely effective assembly but also allows for complete reworkability, without affecting the integrity of the original termination.

KA0200's main advantage is that it utilizes a method of 'collecting' the cable screens via a length of metal braid **WITHOUT** disturbing those screens in any way thus providing for its inherant 100% reworkability. This method also overcomes the possible degrading of conventional screen terminations such as 'pigtailing' 'daisy-chaining' and does not involve soldering processes of any kind.

This coupled with the backshell advantages of having a lower profile and lighter weight offers the specifier a 'state of the art' system for today's requirements.

Already selected for several major (military and commercial) programmes, KA0200 gives you tomorrow's answers for today's screening problems.

If you would like to know more about the KA0200, please contact our sales department.

Company Profile

Kern Electrical Components Ltd has its UK headquarters in Aldermaston, Berkshire. The company manufactures a wide range of connector accessories, designed to suit all levels of screening requirements for EMI / RFI, EMP, TEMPEST and environmental protection.

The product range includes a variety of backshells, spin coupling adaptors, bulkhead glands and system harnesses.

Many customers take advantage of our Specialist Product Division, commissioning us to design products solving specific technical problems. Using state of the art CAD techniques, our engineering team has designed numerous accessories in many configurations to suit a variety of applications. These include EMI / RFI backshells for special ARINC connectors, screened adaptors between circular connectors and flex printed circuits and electrically protective backshells for DIN 41612 PCB connectors for telecoms use.

Kern manufactures to the highest specifications and is approved to full manufacturing and traceability standards by British Aerospace, Rolls Royce and Westland Helicopters plus many other Original Equipment Manufacturers. It is our policy to continue to develop our levels of approval, as new specifications and requirements are defined. To this end we are becoming qualified through both BS9000 and AQAP-4 quality assessment systems.

KA0200 ASSEMBLY GUIDE

FOR INDIVIDUAL SCREENED CABLES WITH OR WITHOUT OVERALL BRAID

1. Strip cable jacket and prepare individual conductors and crimp contacts (see connector manufacturers instructions).

2. Pass braid trap nut and body along cable bundle and insert contacts into respective cavities in connector.

3. Bring body forward and engage mating threads. Do not engage anti-rotation teeth at this stage.

4. Interlace the woven braid between groups of no more than 4 cables. This ensures contact with each individual screen. Once completed, adjust the position of the woven braid if required to be inline with the slot. "Pull Tight" passing through the slot. Ensuring the braid remains tight. Rotate the backshell clockwise to take in as much braid as possible. The final part of the rotation may be achieved by using soft jawed grips.

Strong resistance to anticlockwise rotation indicates that the backshell is correctly filled. Trim off surplus braid leaving sufficient to encircle rear of body to provide the Braid Trap Nut with resistance when tightened, this will vary if an overall braid is used.

5. Fully tighten backshell to connector. Bring forward overall braid, if used, to cover woven braid.

6. Bring forward braid trap nut and tighten.

... If environmental seal is required, fit Shrink Boot to engage with groove at front of braid trap nut.

PATENT APPLICATION No. 8718238

02/1190

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