



CIRCULAR BACKSHELLS

EXTENSIVE RANGE OF TERMINATION
OPTIONS FOR CIRCULAR CONNECTORS

High performance sealing and strain relief
backshell solutions

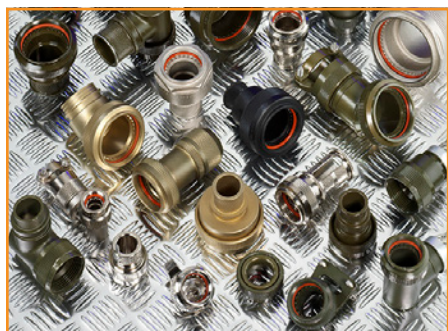


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CIRCULAR BACKSHELLS

Termination Options For Circular Connectors



For high-performance sealing and strain relief, the perfect mate for a TE Connectivity (TE) connector or molded part in a wiring application, is a TE backshell.

TE supplies a comprehensive range of circular POLAMCO and Raychem backshells that can provide effective strain relief, environmental sealing and electromagnetic interference (EMI)/radio frequency interference (RFI) shielding, meeting today's challenges in demanding environments, across many market sectors.

Spin-Coupling Adapters

Spin-coupling adapters are two-part components that have a rotatable coupling nut and a grooved body designed to accommodate lipped-type heat-shrinkable boots.

Spin-couplings with an appropriate molded part are used for environmental protection and strain relief of unscreened cable terminations. Cable repairs can be made without damaging the boot.

MULTIPLE CONFIGURATIONS

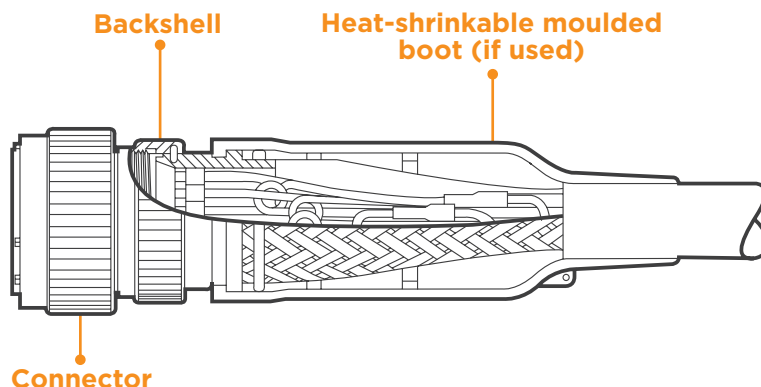
- Low profile options
- Compatible with many shell sizes and plating finishes
- Wide variety of modification options allow customisation of standard ranges to suit specific requirements

EASY INSTALLATION

- Tool free ranges available
- Simple and fast termination solutions
- Two-part components allow uncoupling for repairs without damaging the boot

HIGH-RELIABILITY SOLUTIONS

- Backshells can provide strain-relief and cable support to prevent bending or overflexing
- Offer individual or overall 360° screening against EMI/RFI interference
- Environmental backshells can protect the effectiveness of the cable, sealing against water and dirt ingress



Rollback Repair Possible With A Backshell

Many cable repairs are made within 75 mm of the connectors—usually because of a broken pin or wire. By reheating the heat-shrinkable boot and unscrewing the backshell 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 backshells utilising a heatshrink boot.

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem | Rochester | DEUTSCH
SEACON Phoenix | LL ROWE | Phoenix Optix | AFP | SEACON

Empower Engineers to Solve Problems, Moving the World Forward.



Selecting A Backshell

TE offers an extensive standard range of backshell styles to suit a wide variety of applications and requirements. These ranges can be extensively customised using an array of plating options, materials and modification codes. Use the product finder on pages 12-13 to select the most suitable standard series for your requirement.

Adapter Code

An alphabetical code is used to identify connectors with similar adapter interfaces. This code is used to determine the backshell family and part number. The table connector interface table on page 9 shows the appropriate code to match a variety of interfaces.

Backshell Part Number

The part number is the sequence of numbers and letters that describes the adapter family (or series), size, angle, material, finish, and modifications. The part numbering system is explained on page 10 for POLAMCO series backshells and on the individual product pages for Raychem.

Family/Series

TE offers several families (or series) of backshell products. Each part number begins with an numerical or alphanumeric prefix denoting the specific product family.

Entry Size

Entry size is the diameter of the hole through which the cable enters into the adapter. If unknown, the diameter required can be calculated using the formula shown on page 11

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.

Modifications

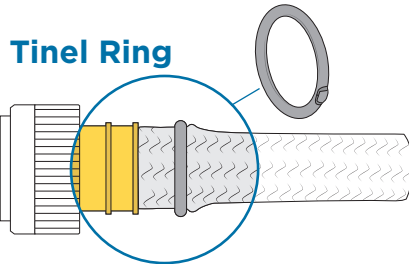
Other options (such as extended length, part marking etc) are available and are defined by standard modification codes - listed on pages 7-8. Alongside the standard ranges shown in this brochure, TE also offer custom solutions to fit more exact requirements. Contact the sales office to find out more.

Please refer to the fold out interface page (attached to the reverse cover of this brochure) for interface specific measurements.

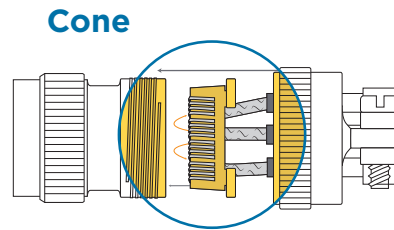


Termination Styles

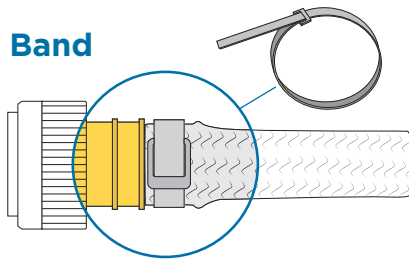
There are a variety of methods for terminating screening braid to backshells, many of which are covered within TE's standard range of backshells shown below.



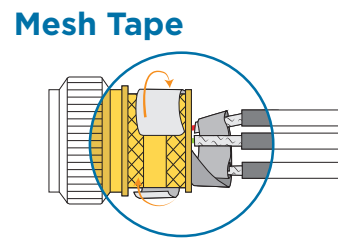
Memory ring shrunk by the application of heat
Used on: TXR



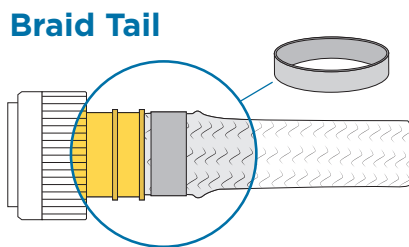
Braid/Pigtails clamped between cones
Used on: 64/308/318/CS64 Series



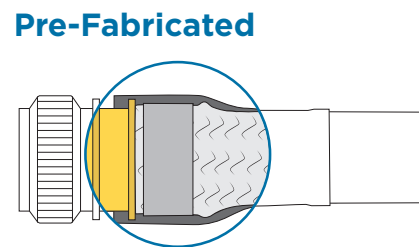
Band clamped with calibrated tool
Used on: BT/88/AP/DS Series



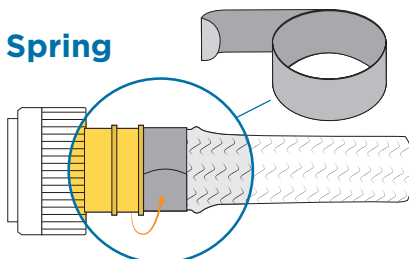
Wraps mesh tape wraps around individual screens to eliminate EMC windows
Used on: KMA Series



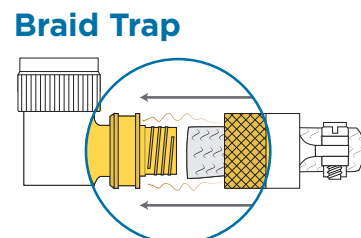
Product supplied with pre-terminated braid tail
Used on: 70 Series



Backshell with pre-installed braid tail and heatshrink boot. Installed on cable with heat gun.
Used on: KTKK/TAK



Spring wrapped around braid (without tooling)
Used on: 91 Series



Braid trapped in loose fitting thread
Used on: 95/77 Series



Material & Plating Codes

Material Description		
POLAMCO	Raychem	
1	A	ALUMINIUM ALLOY 6262 / 6082
2	B	NICKEL ALUMINIUM BRONZE DGS 1043 / NES 833 (MARINE APPLICATIONS)
4	S/K*	STAINLESS STEEL 303 S31 / 304
46	-	STAINLESS STEEL 316 (MARINE APPLICATIONS)
6	5*	STAINLESS STEEL NUT / ALUMINIUM BODY
74	-	ULTEM 2300 (30% GLASS FILLED) (STANDARD COMPOSITE) - CURRENTLY AVAILABLE IN STRAIGHT BTH1 & BTF1 RANGES

* Hexashield only. Code B not available in Hexashield.

Plating Description					
POLAMCO	Raychem		ROHS Compliant	Conductivity	Environmental Protection
B	B	CADMIUM, OLIVE DRAB (5-10 MICRONS) QQ-P-416, TYPE II, CLASS 3 OVER ELECTROLESS NICKEL	NO	CONDUCTIVE	500 HRS
C	C	ELECTROLESS NICKEL, AMS-C-26074, CLASS 4, GRADE B	YES	CONDUCTIVE	48 HRS
D	G	BLACK ANODISE HARD PER MIL-A-8625, TYPE III, CLASS 2	YES	NON CONDUCTIVE	500 HRS
J	J	PASSIVATE, PER AMS 2700 METHOD 2 (STAINLESS STEEL ONLY)	YES	-	-
U	/	UNPLATED CLEAN FINISH NOT SHOT BLASTED	YES	-	-
Z	W	SHOT BLAST FOR NON-REFLECTIVE FINISH	YES	CONDUCTIVE	-
ZB	U	ZINC COBALT (5-10 MICRONS) OVER ELECTROLESS NICKEL (2.5 - 7.5 MICRONS) WITH A OLIVE DRAB CHROMATE CONVERSION	YES	CONDUCTIVE	350 HRS
ZK	-	ZINC COBALT (5-10 MICRONS) OVER ELECTROLESS NICKEL (2.5 - 7.5 MICRONS) WITH A BLACK CHROMATE CONVERSION	YES	CONDUCTIVE	350 HRS
ZN	Z	ZINC NICKEL BLACK PASSIVATE (5-12 MICRONS) OVER ELECTROLESS NICKEL (8-12 MICRONS), ASTM B 841 CLASS 1	YES	CONDUCTIVE	500 HRS

These lists are not exhaustive - contact TE for further information



Modification Codes

TE's standard range of backshells can be extensively modified using the codes listed below. Many of these options can be used in combination to create a solution to suit most needs. Consult TE Engineering for correct use of modification codes.

Suffix		Meaning	Applies to Series	Affects
POLAMCO	Raychem			
TE	F	Internal blue teflon coating	All	Finish
TEG	-	Internal green teflon coating	All (TE & TEG are mutually exclusive)	Finish
TAH	-	Internal teflon coating, anti-decoupling, hex nut (wire retained)	Replaces codes TE, AD & HEX	Finish
BN	-	Nickel aluminium bronze nut, shot blast finish	Aluminium backshells	Material / finish
ESC	-	ESC style interface	A-interface only	Interface
NGP	-	No grommet profile	Consult engineering for availability	Interface
AD	S	Anti-decoupling	All non-direct coupling	Interface
TD	-	Torque-differential anti-decoupling	All non-direct coupling (AD & TD are mutually exclusive)	Interface
G	P	Coupling nut with grub screw	L and LV interface	Interface
FB	-	Wide body	All – consult engineering for dimensions	Body shape
SE	-	Swept elbow (cast centre section)	All 90° except 96 series *	Body shape
AP	-	Spanner holes in coupling nut	All except AP series, where spanner holes are standard	Nut
FN	-	Coupling nut with flats	All	Nut
HEX	-	Coupling nut hex	All (FN & HEX are mutually exclusive)	Nut
WN	-	Wire-retained nut (hex shape)	All non-direct coupling (WN & HEX are mutually excl.)	Nut
TH	-	Tooth inspection holes in coupling nut	All interfaces with anti-rotation teeth	Nut
W	-	Wire-locking holes in coupling nut	All except A-interface	Nut
NW	-	No wire-locking holes in coupling nut	A-interface only	Nut
WL	-	Drilled-head screws in cable clamp, tangential hole in adaptor body	Backshells with cable clamp	Body
WLT	-	Safety wire holes at all threaded junctions plus drilled head screws in cc	Backshells with cable clamp	Body

* consult TE for availability / available values / dimensions

** xx / xx.x specified in mm



Modification Codes (cont...)

Suffix		Meaning	Applies to Series	Affects
POLAMCO	Raychem			
BS	-	Body strap	All *	Body
F	-	Wrench flats on follower	All *	Body
2F	-	Two flats instead of four	All *	Body
DH	D	Drain holes in follower body	All *	Body
PH	-	Potting hole	All *	Body
PH2	-	Two potting holes, 180° apart	All *	Body
PHG	-	Potting hole + outgassing hole	All *	Body
TB	-	With added boot groove	Backshells without cable clamp	Boot groove
NG	-	No boot groove	Backshells that have a boot groove	Boot groove
ET	ET	Earth tag	BT, 91 & 97 series	Termination
WS	-	Drilled-head screws in cable clamp	Backshells with cable clamp	Cable clamp
CL	-	Clinch nuts in cable clamp	Backshells with cable clamp	Cable clamp
S	-	Short screw modification	Backshells with cable clamp	Cable clamp
TS	-	Telescoping screws	Backshells with cable clamp	Cable clamp
LP	-	Low-profile (non-preferred: use kxx or exx)	90° *	Body shape
RW	-	Reduced weight	*	Body shape
Lxx	-	Non-standard length **	All straight *	Body shape
Cxx	-	Non-standard front length **	All 45° *	Body shape
Dxx	-	Non-standard rear length **	All 45° *	Body shape
Kxx	-	Non-standard front length (to entry c/l) **	All 90° except 96 series *	Body shape
Exx	-	Non-standard can length **	All plug-in style 90° *	Body shape
Fxx	-	Non-standard rear length **	All 90° except 96 series *	Body shape
Bxx	-	Non-standard coupling nut diameter **	All *	Body shape
Txx.x	-	Non-standard throat diameter **	All *	Body shape
CON	-	Conductive o-ring	All backshells with o-rings	O-ring
FS	U	Fluorosilicone o-rings / seals	All backshells with o-rings	O-ring
NIS	N	Nitrile o-ring	All backshells with o-rings	O-ring
VS	V	Viton o-ring	All backshells with o-rings	O-ring
NS	-	No seal	All backshells with o-rings	O-ring
NM	-	No part-marking	All	Part marking

* consult TE for availability / available values / dimensions

** xx / xx.x specified in mm



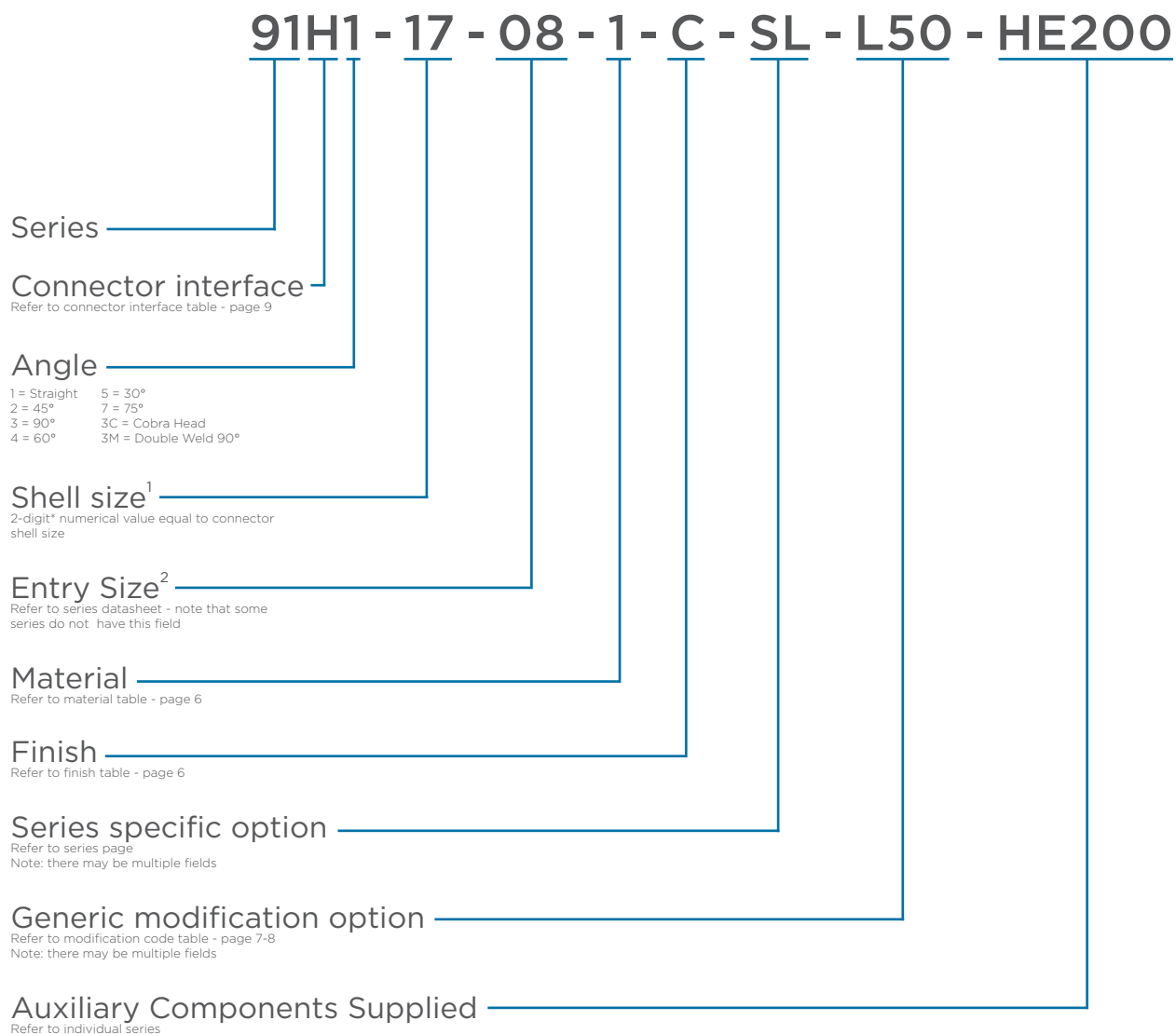
Connector Interface Table

Backshells designed to be used in conjunction with:	POLAMCO Backshell Connector Interface Code	Raychem Backshell Connector Interface Code
MIL-DTL-26482 SERIES I	DG, KG, DM, K, DS, UT	21
PATT 105 / PATT 603*	D	76
MIL-DTL-26482-SERIES II MIL-DTL-83723 SERIES I & II	A	54
MIL-DTL-38999 SERIES I	F	41
MIL-DTL-38999 SERIES II	F	41
MIL-DTL-38999 SERIES III / EN3645	H	40
MIL-DTL-38999 SERIES IV	H	40
AS50151	L, LS, LM, LV	-
MIL-DTL-5015D CANNON CA-BAYONET	LC, LCS	-
MIL-DTL-5015 "ABB M.S"	Q	78
MIL-DTL-5015H	A	54
MIL-DTL-83723 SERIES III (BAYONET)	A	54
MIL-DTL 83723 SERIES III (THREADED)	A	54
MIL-DTL-28840	Z	30
EN2997 (SAME AS 83723 SERIES III (STAINLESS))	A	54
ESC10	A	54
ESC11	A	54
VG96912	SM	47
PAT 608	S	79

Solutions for other interfaces may be available - contact the TE sales team for further information



POLAMCO Backshell Part Numbering System



1 - Prefix shell size with F for direct coupling with grommet follower
(available on interfaces A, D, F, H, K, SM, Q, Z)

2 - Replace dash before entry size with T2 or T3 (straight only) for type 2 assembly
(available when entry diameter exceeds throat diameter)

* exceptions: RM, L, LC, Q interface - refer to connector interface table for correct shell size

Please note that this system does not apply to the TXR and HEXASHIELD Series - refer to individual product pages for the correct method



Calculating Wire Bundle Diameter

Where it is not possible to physically measure the wire bundle diameter it can be estimated from the individual wire diameters using the following calculation.

When selecting the backshell cable entry size from provided tables, it is a good idea to err on the side of too large, as an undersized cable can always be enlarged with tape or a grommet to fit the cable clamp. When calculating wire bundle diameters, note that the gauge # of the wire describes only the diameter of the metal conductor, and not the overall diameter including insulation and/or braids. Refer to the appropriate wire specification for the actual diameter of the wire for use in the following calculations.

Steps:

1. Determine each type of wire diameter
2. Choose the multiplication factor from table 1 below
3. Calculate the bundle diameter using the following formula:

$$(\text{Bundle Diameter}) = \text{Factor} \times \sqrt{n_1 \times d_1^2 + n_2 \times d_2^2 + n_3 \times d_3^2 + \dots + n_n \times d_n^2}$$

Where $d_1 \dots d_n$ are diameters of each type of wire in the bundle (when using wires from different diameters)
 $n_1 \dots n_n$ the quantity of wires with the same diameter

Factor is chosen in according to the total number of wires in the bundle (TABLE 1)

4. Add thickness of any shielding or jacketing to core wire bundle diameter.

$$(\text{Final OD}) = (\text{Bundle Diameter}) + 2 \times (\text{Shield Thickness}) + 2 \times (\text{Jacket Thickness})$$

Table 1

MULTIPLICATION FACTORS							
NO OF WIRES	1	2	3	4	5	6	7 AND MORE
FACTOR	1	1.415	1.242	1.205	1.208	1.225	1.15



Product Finder

			SCREEN TERMINATION				STRAIN RELIEF & CABLE SEALING		ADDITIONAL COMPONENTS REQUIRED	
			Overall Screen	Individual/ Multiple Screens	Tool Free	Reworkable	Cable Clamp	Heat Shrink Boot Option	Boot	Band
BAND	BT Series Page 12		●					●	●	●
	88 Series Page 14		●					●	●	●
	AP Series Page 16		●					●	●	●
	DS Series Page 18		●	●				●	●	●
SPRING	91 Series Page 20		●		●	●		●	●	
BRAID TAIL	70 Series Page 22		●		●	●		●	●	
BRAID TRAP	95 Series Page 24		●		●	●	●	●		
CONE	64 Series Page 26			●	●	●	●	●		
	308 Series Page 28		●		●	●		●	●	



Product Finder

			SCREEN TERMINATION				STRAIN RELIEF & CABLE SEALING		ADDITIONAL COMPONENTS REQUIRED	
			Overall Screen	Individual/ Multiple Screens	Tool Free	Reworkable	Cable Clamp	Heat Shrink Boot Option	Boot	Band
STRAIN RELIEF	77 Series Page 30						●			
	KMA Series Page 32		●	●	●	●		●	●	
MESH TAPE	KMCC Series Page 34		●	●	●	●	●			
	76 Series Page 36							●	●	
HEAT SHRINK BOOT	PG Series Page 38									
	DC Series Page 40									
THREAD EXTENDERS & ADAPTERS	TXR Page 42		●					●	●	
	HexaShield Page 44			●		●		●		



BT Series

Band Strap Backshell

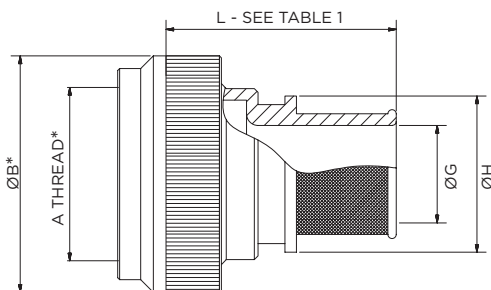


- Screen termination with a stainless steel band
- Sealing and strain relief of backshell by heat shrink boot
- Calibrated application tooling required
- Banding strap available – see page 48

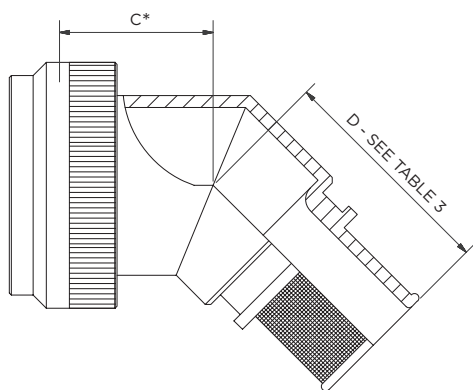
SPECIFICATIONS

- **Screen Termination:** Overall Screen
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot, Band

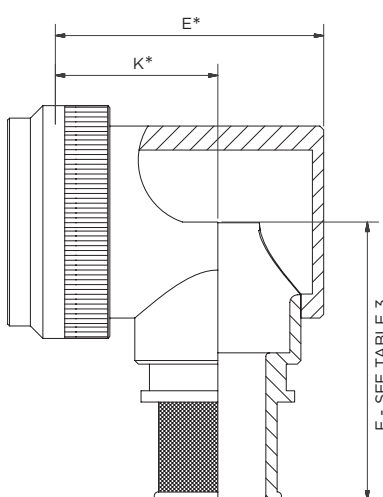
ANGLE 1



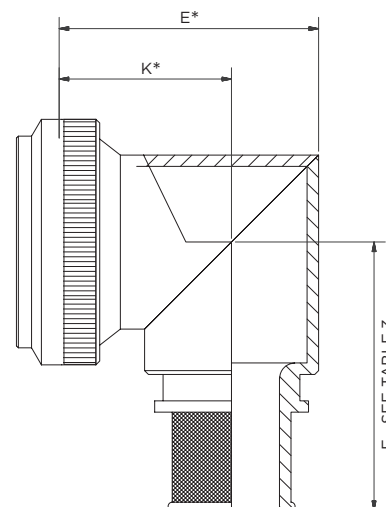
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



***REFER TO FOLD OUT INTERFACE PAGE**



Example:

BT H 1 - 17 - 10 - 1 - B - SB

Series

Connector interface*

Angle

Shell size

Entry size

Material

Finish

Band

SB - supplied with standard band
see p48 for options - omit for no band

Table 1 - Length

SHELL SIZE	Interface									
	A	A AD/SS	D	F	H	K	Q	S	SM	Z
03	28	32,0	-	-	-	-	-	-	-	-
08/09	28	32,0	34	30	30	34	-	32	30	-
10/10SL/11	28	32,0	34	30	30	34	36	32	30	-
12/13	28	32,0	34	30	30	34	-	32	30	38,2
14/14S/15	28	32,0	34	30	30	34	36	32	30	38,2
16/16S/17	28	32,0	34	30	30	34	36	32	30	38,2
18/19	28	32,0	34	30	30	34	36	32	30	38,2
20/21	28	32,0	34	30	30	34	36	32	30	38,2
22/23	28	32,0	34	30	30	34	36	32	30	38,2
24/25	28	32,0	34	30	30	34	40	32	30	38,2
28	28	32,0	-	-	-	-	45	-	-	38,2
32	40	32,0	-	-	-	-	50	-	-	-
36	50	32,0	-	-	-	-	50	-	-	-
40	50	40,0	-	-	-	-	-	-	-	-
44	60	45,0	-	-	-	-	-	-	-	-
48	60	60,0	-	-	-	-	-	-	-	-
61	28	32,0	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØG MIN	ØH MAX
03	4,7	13,9
04	6,3	13,9
05	7,9	15,5
06	9,5	17,2
07	11,1	18,7
08	12,7	20,3
09	14,2	21,9
10	15,8	23,5
11	17,4	25,1
12	19,0	26,7
13	20,6	28,3
14	22,2	29,9
15	23,8	31,5
16	25,4	33,1
17	27,0	34,7
18	28,6	36,3
19	30,2	37,9
20	31,8	39,5
21	33,3	41,1
22	35,0	42,7
23	36,5	44,3
24	38,1	45,9

Table 3

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	26,6	29,4
08/09	26,4	31,5
10/10SL/11	29,4	32,7
12/13	27,3	33,7
14/14S/15	30,0	35,5
16/16S/17	30,5	37,4
18/19	30,9	39,0
20/21	31,6	41,6
22/23	32,3	42,1
24/25	32,9	45,1
28	34,1	46,1
32	35,4	48,6
36	36,3	52,3
40	36,2	54,8
44	37,8	58,0
48	39,0	61,1
61	31,4	52,1

All dimensions in MM unless otherwise stated.



88 Series

'Band In A Can' Backshell

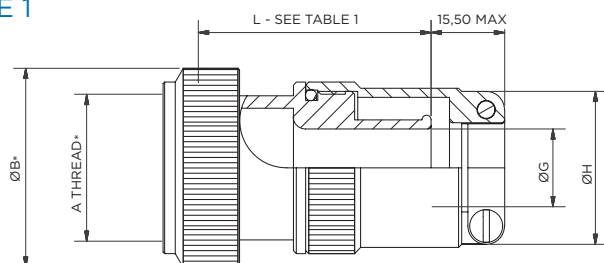


- Screen termination by standard stainless steel band
- Strain relief by screw on cable clamp 'can'
- 'Can' provides protection of screen termination area
- Banding strap available – see page 48

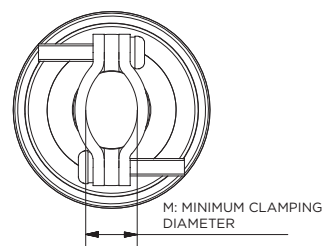
SPECIFICATIONS

- **Screen Termination:** Overall Screen
- **Strain Relief & Cable Sealing:** Cable Clamp
- **Additional Components Required:** Band

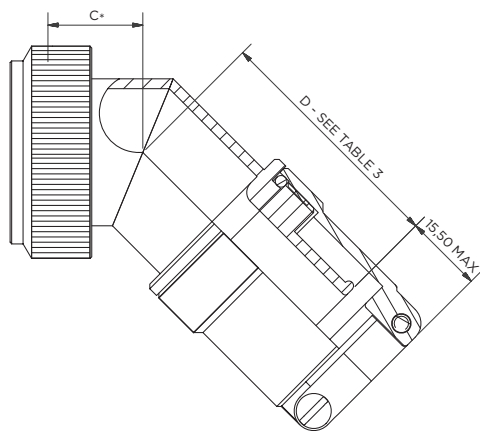
ANGLE 1



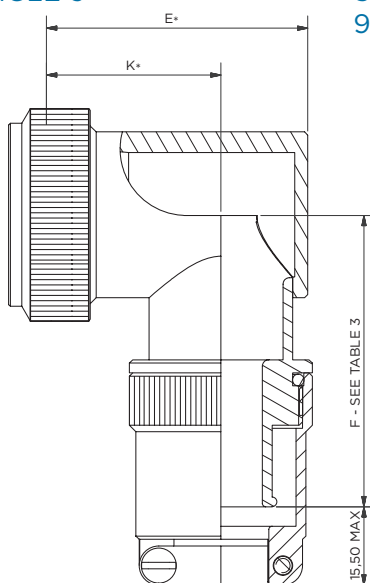
REAR VIEW



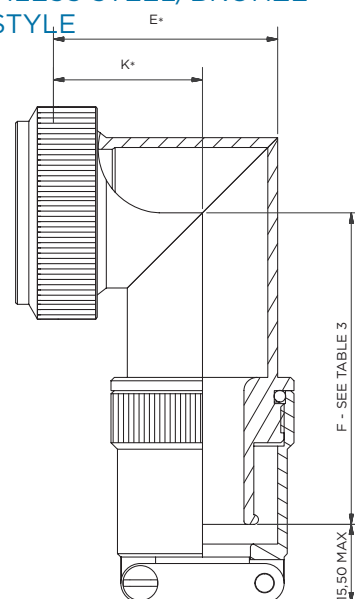
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

88 F 1 - 13 - 06 - 1 - C - SB

Series

Connector interface*

Angle

Shell size

Entry size

Material

Finish

Band

SB - supplied with standard band
see p48 for options - omit for no band

Table 1 - Length

SHELL SIZE	Interface									
	A	D	F	H	K	LC	Q	S	SM	Z
03	38,0	-	-	-	-	-	-	-	-	-
08/09	38,0	38,0	38,0	38,0	38,0	38,0	-	40,0	38,0	-
10/10SL/11	38,0	38,0	38,0	38,0	38,0	38,0	-	40,0	38,0	41,0
12/13	38,0	38,0	38,0	38,0	38,0	38,0	43,0	40,0	38,0	41,0
14/14S/15	38,0	38,0	38,0	38,0	38,0	38,0	43,0	40,0	38,0	41,0
16/16S/17	38,0	38,0	38,0	38,0	38,0	38,0	43,0	40,0	38,0	41,0
18/19	38,0	38,0	38,0	38,0	38,0	38,0	43,0	40,0	38,0	41,0
20/21	38,0	38,0	38,0	38,0	38,0	38,0	43,0	40,0	38,0	-
22/23	38,0	38,0	38,0	38,0	38,0	38,0	43,0	40,0	38,0	41,0
24/25	38,0	38,0	38,0	38,0	38,0	38,0	43,0	40,0	38,0	41,0
28	38,0	-	-	-	-	38,0	43,0	-	-	41,0
32	38,0	-	-	-	-	38,0	43,0	-	-	41,0
36	38,0	-	-	-	-	38,0	43,0	-	-	-
40	38,0	-	-	-	-	38,0	-	-	-	-
44	38,0	-	-	-	-	-	-	-	-	-
48	38,0	-	-	-	-	-	-	-	-	-
61	38,0	-	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØG MIN	ØH MAX	M ±0,5
03	4,7	17,2	6,8
04	6,3	18,8	6,7
05	7,9	20,4	7,8
06	9,5	22,0	7,9
07	11,1	23,5	8,6
08	12,7	25,0	9,0
09	14,2	26,7	10,2
10	15,8	28,3	10,4
11	17,4	30,0	12,5
12	19,0	31,5	12,4
13	20,6	33,0	15,0
14	22,2	34,7	15,4
15	23,8	36,4	16,8
16	25,4	37,8	17,3
17	27,0	39,4	18,8
18	28,6	41,0	19,5
19	30,2	42,6	23,9
20	31,8	44,2	22,4
21	33,3	45,8	23,8
22	35,0	47,3	24,4
23	36,5	50,9	26,4
24	38,1	50,9	26,4

Table 3

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	38,5	39,9
08/09	50,5	51,9
10/10SL/11	51,3	53,7
12/13	51,5	54,5
14/14S/15	52,1	56,7
16/16S/17	53,4	58,4
18/19	53,7	60,0
20/21	54,5	61,6
22/23	54,9	63,1
24/25	55,3	64,6
28	55,3	67,1
32	57,4	70,3
36	58,9	75,1
40	60,1	77,3
44	46,7	65,5
48	47,9	68,6
61	40,3	49,6

All dimensions in MM unless otherwise stated.



AP Series

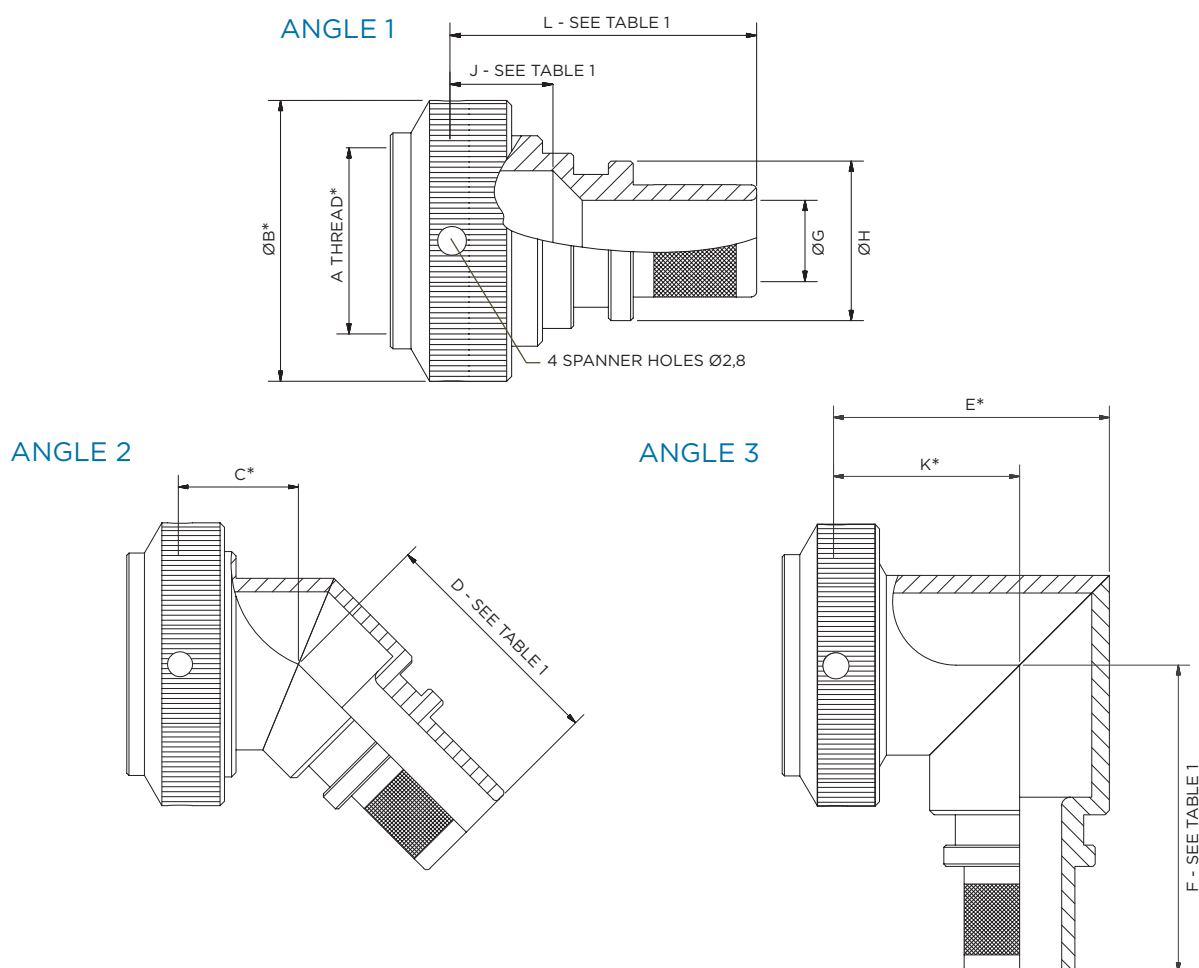
Band Backshell



- Screen termination by standard stainless steel band
- European preferred style, without band retention lip
- Sealing and strain relief of backshell by heat shrink boot
- Banding strap available – see page 48

SPECIFICATIONS

- **Screen Termination:** Overall Screen
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot, Band



*REFER TO FOLD OUT INTERFACE PAGE



Example:

AP H 1 - 09 - 08 - 10 - 1 - B - SB

Series

Connector interface*

Angle

Shell size

Entry size

Chamber length (Straight only - omit for angle 2 & 3)

Material

Finish

Band

SB - supplied with standard band
see p48 for options - omit for no band

Table 1 - Length

SHELL SIZE	All Interfaces											
	D MAX	F MAX	L MAX	J=10	J=15	J=20	J=25	J=30	J=35	J=40	J=45	J=50
03	26,6	29,6		28,5	33,5	38,5	43,5	48,5	53,5	58,5	63,5	68,5
08/09	26,4	32,2		29,9	34,9	39,9	44,9	49,9	54,9	59,9	64,9	69,9
10/10SL/11	26,3	33,7		30,8	35,8	40,8	45,8	50,8	55,8	60,8	65,3	70,3
12/13	27,2	35,2		31,6	36,6	41,6	46,6	51,6	56,6	61,6	66,6	71,6
14/14S/15	28,0	36,9		32,5	37,5	42,5	47,5	52,5	57,5	62,5	67,5	72,5
16/16S/17	28,3	38,5		33,5	38,5	43,5	48,5	53,5	58,5	63,5	68,5	73,5
18/19	29,1	40,1		34,3	39,3	44,3	49,3	54,3	59,3	64,3	69,3	74,3
20/21	29,5	41,6		35,2	40,2	45,2	50,2	55,2	60,2	65,2	70,2	75,2
22/23	30,4	43,1		36,2	41,2	46,2	51,2	56,2	61,2	66,2	71,2	76,2
24/25	32,1	44,6		37,2	42,2	47,2	52,2	57,2	62,2	67,2	72,2	77,2
28	32,1	44,6		36,5	41,5	46,5	51,5	56,5	61,5	66,5	71,5	76,5
32	33,7	47,8		37,4	42,4	47,4	52,4	57,4	62,4	67,4	72,4	77,4
36	34,9	51,0		38,3	43,3	48,3	53,3	58,3	63,3	68,3	73,3	78,3
40	36,2	54,2		39,2	44,2	49,2	54,2	59,2	64,2	69,2	74,2	79,2
44	37,8	57,4		40,1	45,1	50,1	55,1	60,1	65,1	70,1	75,1	80,1
48	39,0	60,6		41,0	46,0	51,0	56,0	61,0	66,0	71,0	76,0	81,0
61	31,4	41,4		36,0	41,0	46,0	51,0	56,0	61,0	66,0	71,0	76,0

Table 2 - Entry Size

ENTRY SIZE	ØG MIN	ØH MAX
04	3,2	12,4
06	4,8	12,4
08	6,4	14,0
10	7,9	15,5
12	9,5	17,1
14	11,1	18,7
16	12,7	20,3
18	14,2	21,6
20	15,9	23,5
24	19,0	26,7
28	22,2	29,8
32	25,4	33,0
34	27,0	34,6
36	28,6	36,2
40	31,8	39,4

All dimensions in MM unless otherwise stated.



DS Series

Band Strap Backshell

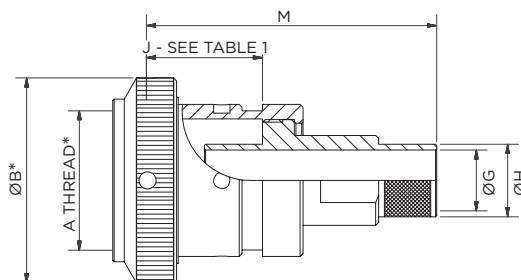


- Individual and overall screen termination by stainless steel band
- Individual screens terminated inside the backshell, close to the connector in order to minimise cross-talk
- Sealing and strain relief
- Banding strap available – see page 48

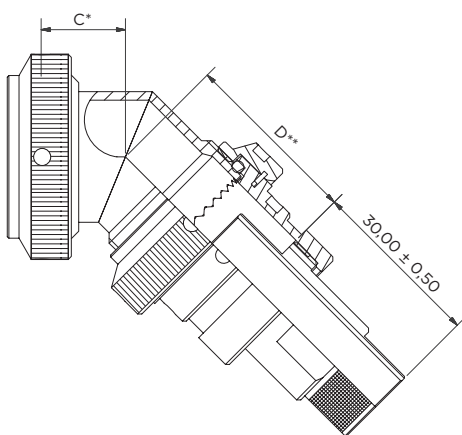
SPECIFICATIONS

- **Screen Termination:** Overall Screen, Individual or Multiple Screens
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot, Band

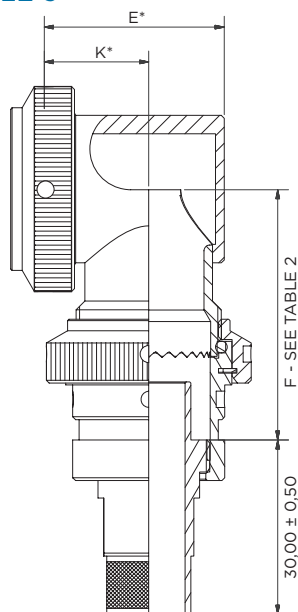
ANGLE 1



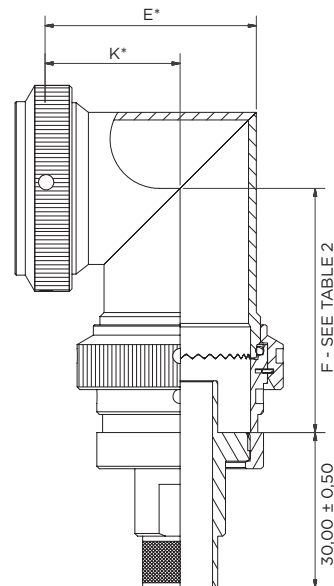
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

DS H 1 - 21 - 08 - 1 - C - SB

Series

Connector interface*

Angle

Shell size

Entry size

Material

Finish

Band

SB - supplied with 2 x standard bands
see p48 for options - omit for no bands

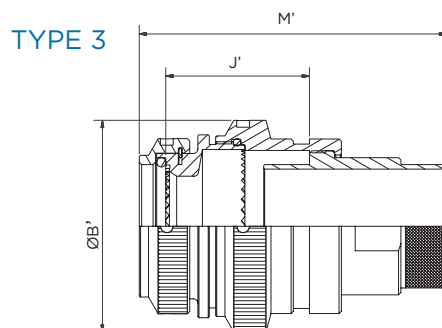


Table 1

J ± 0,2 CHAMBER	J' ± 2,0 CHAMBER	M MAX	M' MAX
20	-	60,0	-
25	-	65,0	-
30	30	70,0	70,0
35	35	75,0	75,0
40	40	80,0	80,0
45	45	85,0	85,0
50	50	90,0	90,0

Table 3

ENTRY SIZE	ØG	ØH	ØB' MAX	D' MAX
03	4,0	6,0	27,3	30,5
04	5,5	7,5	27,3	30,5
05	7,5	9,5	27,3	30,5
06	9,5	11,5	31,8	31,0
07	10,5	12,5	31,8	31,0
08	12,5	14,5	35,3	32,0
09	14,0	16,0	35,3	32,0
10	15,5	17,5	35,3	32,0
11	17,0	19,0	38,3	33,0
12	18,5	20,5	38,3	33,0
13	20,0	22,0	39,8	33,5
14	21,5	23,5	44,3	34,0
15	23,0	25,0	44,3	34,0
16	25,0	27,0	47,2	34,5

Table 2

SHELL SIZE	All Interfaces		
	D MAX	F MAX	MAX ENTRY
08/09	-	36,4	*
10/10SL/11	-	37,0	*
12/13	30,5	37,6	05
14/14S/15	31,0	41,6	07
16/16S/17	32,0	43,1	10
18/19	33,0	44,6	12
20/21	33,5	46,1	13
22/23	34,0	47,6	15
24/25	34,5	49,1	16

Straight only: if max entry exceeded
replace '-' with 'T3', SEE NOTE

NOTE

Max entry applies to straight configuration. When max entry is exceeded, straight configuration must be ordered as T3 version (see indicator in part number breakdown p10).

Shell sizes 09 and 11 only exist in T3 version. Exceeding max entry also affects dimension D in 45° configuration (see D') and rear nut diameter in 45° and 90° configurations (ØB becomes ØB').

All dimensions in MM unless otherwise stated.



91 Series

Spring Backshell

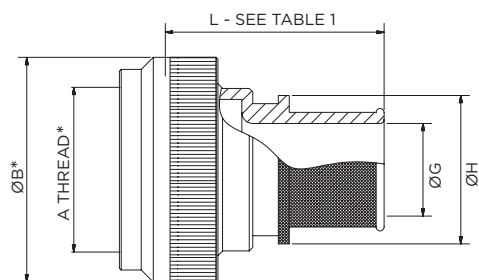


- Tool-free screen termination by stainless steel constant force spring
- Sealing and strain relief of backshell by heat shrink boot
- Standard range - many sizes available from stock

SPECIFICATIONS

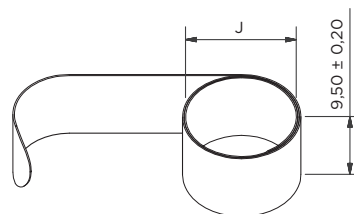
- **Screen Termination:** Overall screen, tool-free, reworkable
- **Strain Relief & Cable Sealing:** Heat shrink boot option
- **Additional Components Required:** Boot

ANGLE 1

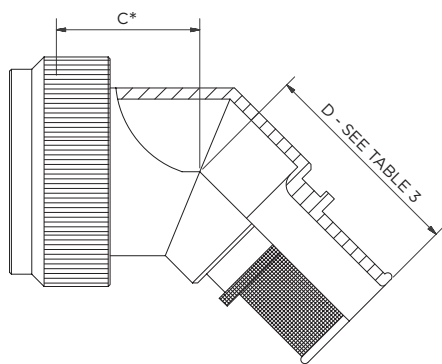


CONSTANT FORCE SPRING

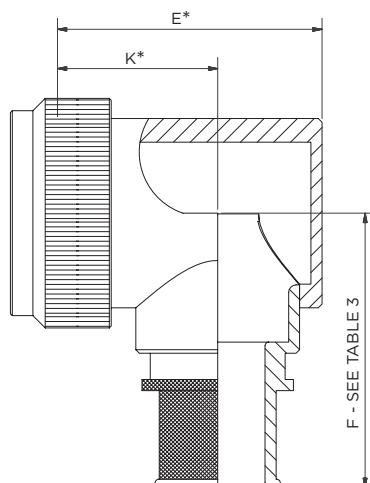
See Table 4



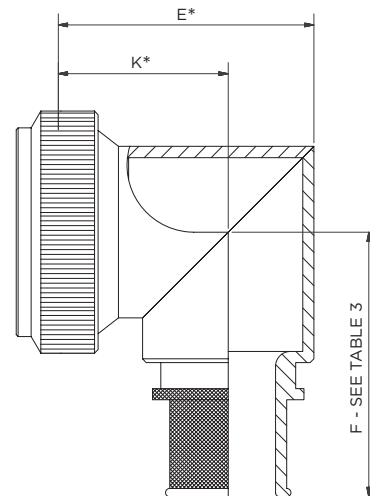
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

91 H 1 - 19 - 08 - 1 - B - HE200

Series

Connector interface*

Angle

Shell size

Entry size

Material

Finish

Spring Reference

Table 1 - Length

SHELL SIZE	Interface									
	A	A AD/SS	D	F	H	K	Q	S	SM	Z
03	28	32,0	-	-	-	-	-	-	-	-
08/09	28	32,0	34	30	30	34	-	32	30	-
10/10SL/11	28	32,0	34	30	30	34	36	32	30	-
12/13	28	32,0	34	30	30	34	-	32	30	38,2
14/14S/15	28	32,0	34	30	30	34	36	32	30	38,2
16/16S/17	28	32,0	34	30	30	34	36	32	30	38,2
18/19	28	32,0	34	30	30	34	36	32	30	38,2
20/21	28	32,0	34	30	30	34	36	32	30	38,2
22/23	28	32,0	34	30	30	34	36	32	30	38,2
24/25	28	32,0	34	30	30	34	40	32	30	38,2
28	28	32,0	-	-	-	-	45	-	-	38,2
32	40	32,0	-	-	-	-	50	-	-	-
36	50	32,0	-	-	-	-	50	-	-	-
40	50	40,0	-	-	-	-	-	-	-	-
44	60	45,0	-	-	-	-	-	-	-	-
48	60	60,0	-	-	-	-	-	-	-	-
61	28	32,0	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØG MIN	ØH MAX
03	4,7	13,9
04	6,3	13,9
05	7,9	15,5
06	9,5	17,2
07	11,1	18,7
08	12,7	20,3
09	14,2	21,9
10	15,8	23,5
11	17,4	25,1
12	19,0	26,7
13	20,6	28,3
14	22,2	29,9
15	23,8	31,5
16	25,4	33,1
17	27,0	34,7
18	28,6	36,3
19	30,2	37,9
20	31,8	39,5
21	33,3	41,1
22	35,0	42,7
23	36,5	44,3
24	38,1	45,9

Table 3

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	26,6	29,4
08/09	26,4	31,5
10/10SL/11	29,4	32,7
12/13	27,3	33,7
14/14S/15	30,0	35,5
16/16S/17	30,5	37,4
18/19	30,9	39,0
20/21	31,6	41,6
22/23	32,3	42,1
24/25	32,9	45,1
28	34,1	46,1
32	35,4	48,6
36	36,3	52,3
40	36,2	54,8
44	37,8	58,0
48	39,0	61,1
61	31,4	52,1

Table 4

SPRING REF	J MAX (unconstrained)
HE 050	4,7
HE 100	6,3
HE 200	7,9
HE 300	9,5
HE 400	11,1

All dimensions in MM unless otherwise stated.



70 Series

Braid Tail Backshell

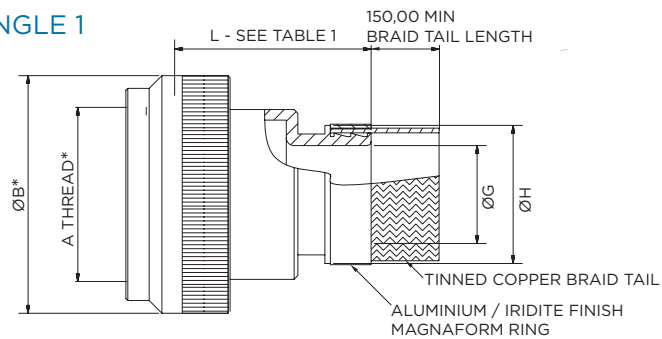


- High-reliability low profile magna form ring termination
- Sealing and strain relief of backshell by heat shrink boot
- Pre-terminated screenbraid sock

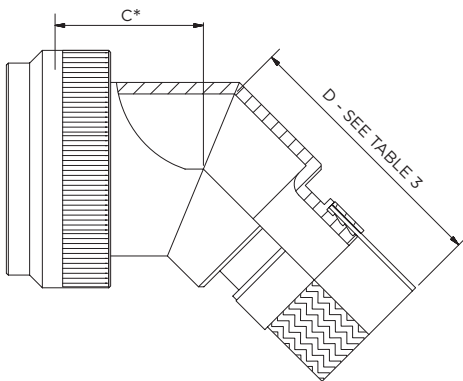
SPECIFICATIONS

- **Screen Termination:** Overall Screen, tool free, reworkable
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot

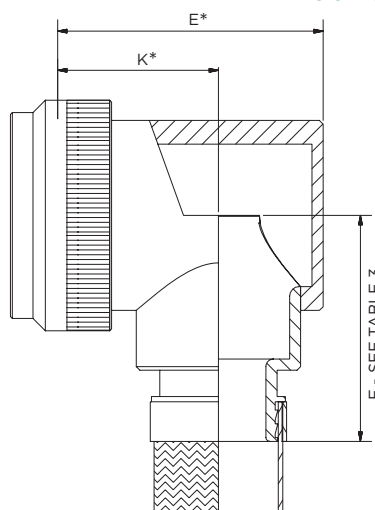
ANGLE 1



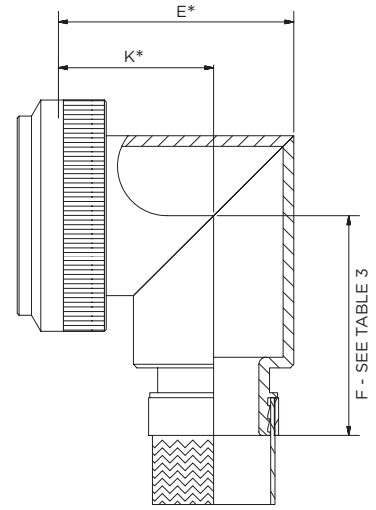
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

70 H 1 - 17 - 08 - 1 - C

Series

Connector interface*

Angle

Shell size

Entry size

Material

Finish

Table 1 - Length

SHELL SIZE	Interface									
	A	D	F	H	K	LC	Q	S	SM	Z
03	25,5	-	-	-	-	-	-	-	-	-
08/09	25,5	32,5	25,5	23,5	32,5	-	-	25,9	25,5	-
10/10SL/11	25,5	32,5	25,5	23,5	32,5	30,0	-	25,9	25,5	30,0
12/13	25,5	32,5	25,5	23,5	32,5	30,0	36,0	25,9	25,5	30,0
14/14S/15	25,5	32,5	25,5	23,5	32,5	30,0	36,0	25,9	25,5	30,0
16/16S/17	25,5	32,5	25,5	23,5	32,5	30,0	36,0	25,9	25,5	30,0
18/19	25,5	32,5	25,5	23,5	32,5	30,0	36,0	25,9	25,5	30,0
20/21	25,5	32,5	25,5	23,5	32,5	30,0	36,0	25,9	25,5	30,0
22/23	25,5	32,5	25,5	23,5	32,5	30,0	36,0	25,9	25,5	30,0
24/25	25,5	32,5	25,5	23,5	32,5	30,0	36,0	25,9	25,5	30,0
28	36,0	-	-	-	-	45,0	36,0	-	-	30,0
32	40,0	-	-	-	-	45,0	36,0	-	-	30,0
36	45,0	-	-	-	-	45,0	36,0	-	-	-
40	50,5	-	-	-	-	-	-	-	-	-
44	50,5	-	-	-	-	-	-	-	-	-
48	50,5	-	-	-	-	-	-	-	-	-
61	28,0	-	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØG MIN	ØH MIN
03	4,7	13,1
04	6,3	13,1
05	7,9	13,1
06	9,5	17,9
07	11,1	17,9
08	12,7	17,9
09	14,2	17,9
10	15,8	24,2
11	17,4	24,2
12	19,0	24,2
13	20,6	24,2
14	22,2	30,6
15	23,8	30,6
16	25,4	30,6
17	27,0	30,6
18	28,6	37,4
19	30,2	37,4
20	31,8	37,4
21	33,3	37,4
22	35,0	44,0
23	36,5	44,0
24	38,1	44,0

Table 3

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	26,6	29,4
08/09	17,6	24,0
10/10SL/11	18,7	25,7
12/13	19,7	27,2
14/14S/15	20,6	28,7
16/16S/17	21,4	32,3
18/19	22,1	32,4
20/21	22,6	33,6
22/23	26,8	35,1
24/25	27,3	36,6
28	27,0	39,9
32	27,0	43,1
36	28,8	47,1
40	26,6	49,3
44	28,3	52,5
48	29,5	55,6
61	21,9	36,6

All dimensions in MM unless otherwise stated.



95 Series

Braid Trap Backshell

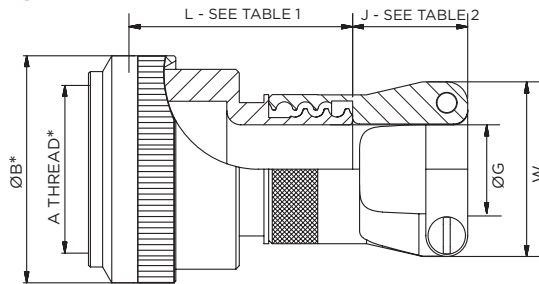


- Tool-free 360° screen termination by barrel thread braid trap system
- Sealing and strain relief of backshell by heat shrink boot
- Cable clamp backshell version also available

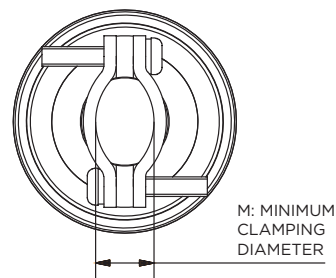
SPECIFICATIONS

- **Screen Termination:** Overall screen, tool-free, reworkable
- **Strain Relief & Cable Sealing:** Cable clamp, heat shrink boot option
- **Additional Components Required:** None

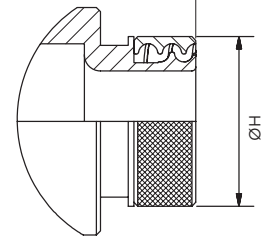
ANGLE 1



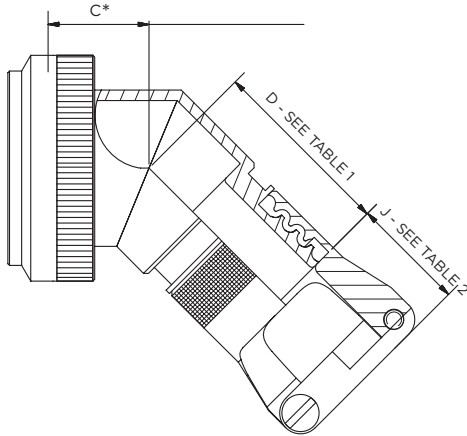
REAR VIEW



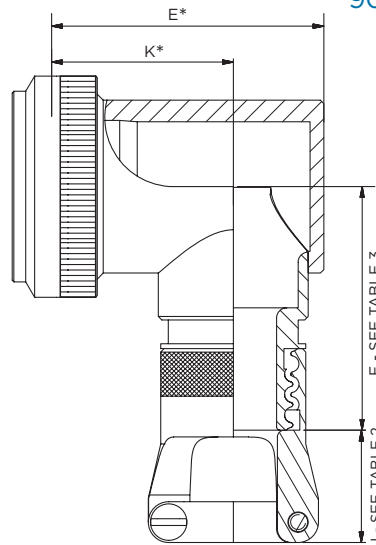
PLAIN NUT
OPTION



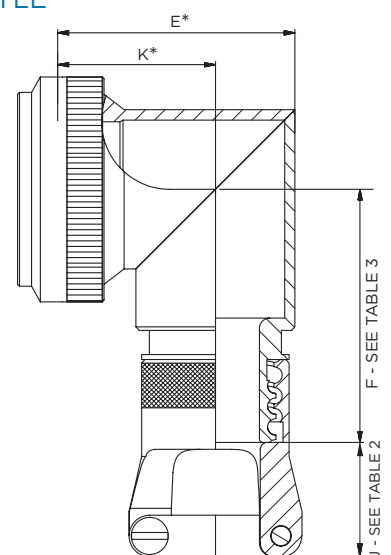
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

95 H 1 - 21 - 12 - 1 - B - CC

Series —————
 Connector interface* —————
 Angle —————
 Shell size —————
 Entry size —————
 Material —————
 Finish —————
 Cable clamp option (omit for plain nut) —————

Table 1 - Length

SHELL SIZE	Interface								
	A	D	F	H	K	Q	S	SM	Z
03	28	-	-	-	-	-	-	-	-
08/09	28	34	30	30	34	-	32	30	-
10/10SL/11	28	34	30	30	34	36	32	30	-
12/13	28	34	30	30	34	-	32	30	38,2
14/14S/15	28	34	30	30	34	36	32	30	38,2
16/16S/17	28	34	30	30	34	36	32	30	38,2
18/19	28	34	30	30	34	36	32	30	38,2
20/21	28	34	30	30	34	36	32	30	38,2
22/23	28	34	30	30	34	36	32	30	38,2
24/25	28	34	30	30	34	40	32	30	38,2
28	28	-	-	-	-	45	-	-	38,2
32	40	-	-	-	-	50	-	-	-
36	50	-	-	-	-	50	-	-	-
40	50	-	-	-	-	-	-	-	-
44	60	-	-	-	-	-	-	-	-
48	60	-	-	-	-	-	-	-	-
61	28	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØG MIN	ØH MAX	W MAX	J MAX	M
03	4,7	15,2	17,3	12,7	5,8
04	6,3	15,2	18,9	12,7	5,7
05	7,9	16,8	20,5	12,7	6,8
06	9,5	18,4	22,1	12,7	6,9
07	11,1	20,0	23,6	12,7	8,1
08	12,7	21,6	25,1	15,7	8,5
09	14,2	23,2	26,8	15,7	9,7
10	15,8	24,8	28,4	15,7	10,4
11	17,4	26,4	30,1	18,7	11,5
12	19,0	27,9	31,6	18,7	11,4
13	20,6	29,5	33,1	18,7	14,0
14	22,2	31,1	34,8	21,7	15,4
15	23,8	32,7	36,5	21,7	16,8
16	25,4	34,3	37,9	21,7	17,3
17	27,0	35,9	39,5	21,7	18,8
18	28,6	37,5	41,1	21,7	19,5
19	30,2	39,3	42,7	23,2	25,9
20	31,8	40,6	44,3	23,2	23,4
21	33,3	42,2	45,8	23,2	24,8
22	35,0	43,8	-	-	-
23	36,5	45,4	47,4	23,2	25,4
24	38,1	47,0	50,9	23,2	27,4

Table 3

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	26,6	29,4
08/09	26,4	31,5
10/10SL/11	29,4	32,7
12/13	27,3	33,7
14/14S/15	30,0	35,5
16/16S/17	30,5	37,4
18/19	30,9	39,0
20/21	31,6	41,6
22/23	32,3	42,1
24/25	32,9	45,1
28	34,1	46,1
32	35,4	48,6
36	36,3	52,3
40	36,2	54,8
44	37,8	58,0
48	39,0	61,1
61	31,4	52,1

All dimensions in MM unless otherwise stated.



64 Series

Cone Backshell

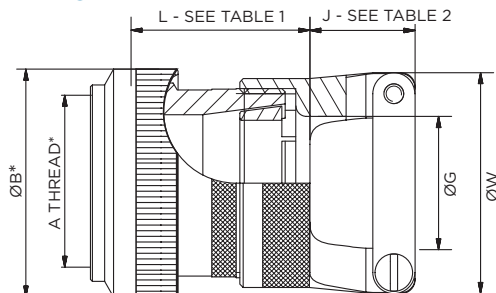


- Individual screen termination using castellated cone
- Sealing and strain relief of backshell by heat shrink boot
- Cable clamp backshell version also available

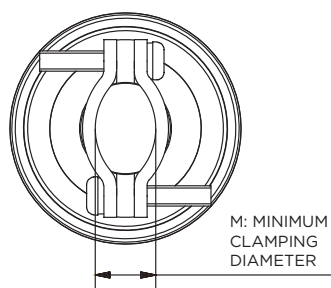
SPECIFICATIONS

- **Screen Termination:** Individual or multiple screens, tool-free, reworkable
- **Strain Relief & Cable Sealing:** Cable clamp, heat shrink boot option
- **Additional Components Required:** None

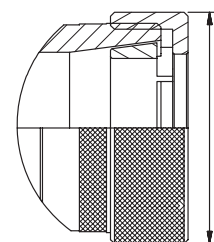
ANGLE 1



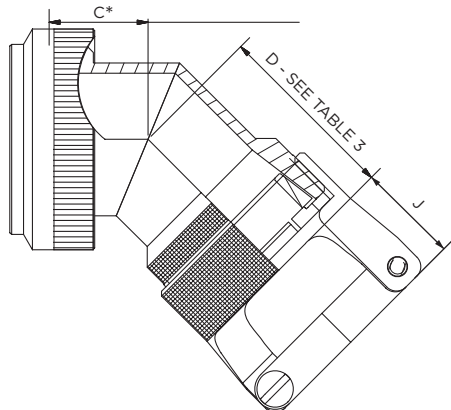
REAR VIEW



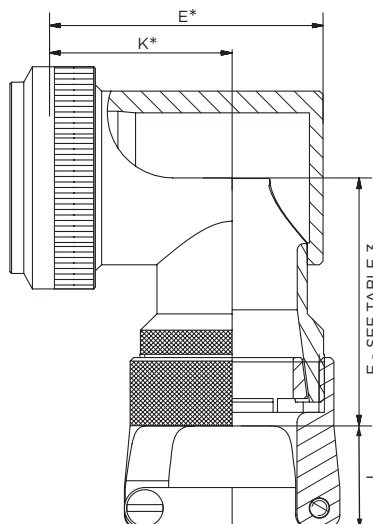
PLAIN NUT
OPTION



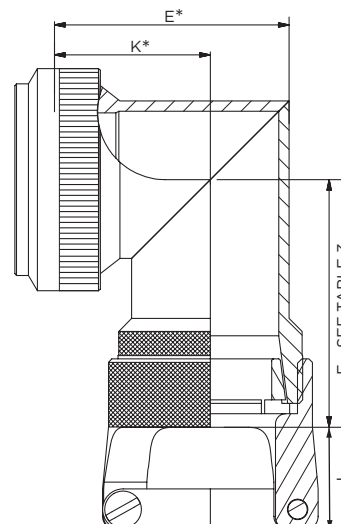
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

64 H 1 - 21 - 13 - 1 - C - CC

Series _____
 Connector interface* _____
 Angle _____
 Shell size _____
 Entry size _____
 Material _____
 Finish _____
 Cable clamp option _____

Table 1 - Length

SHELL SIZE	Interface								
	A	D	F	H	K	LC	Q	S	SM
03	-	-	-	-	-	-	-	-	-
08/09	25,5	37,5	33,5	25,5	25,4	-	-	32,0	33,5
10/10SL/11	25,5	37,5	33,5	25,5	25,4	38,7	-	32,0	33,5
12/13	25,5	37,5	33,5	25,5	25,4	38,7	35,5	32,0	33,5
14/14S/15	25,5	37,5	33,5	25,5	25,4	38,7	35,5	32,0	33,5
16/16S/17	25,5	37,5	33,5	25,5	25,4	38,7	35,5	32,0	33,5
18/19	25,5	37,5	33,5	25,5	25,4	38,7	35,5	32,0	33,5
20/21	25,5	37,5	33,5	25,5	25,4	38,7	35,5	32,0	33,5
22/23	25,5	37,5	33,5	25,5	25,4	38,7	35,5	32,0	33,5
24/25	25,5	37,5	33,5	25,5	25,4	38,7	35,5	32,0	33,5
28	36,0	-	-	-	-	38,7	35,5	-	-
32	36,0	-	-	-	-	38,7	35,5	-	-
36	36,0	-	-	-	-	-	35,5	-	-
40	36,0	-	-	-	-	-	-	-	-
44	36,0	-	-	-	-	-	-	-	-
48	36,0	-	-	-	-	-	-	-	-
61	36,0	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØG MIN	ØW MAX	ØH MAX	J MAX	M ±0,5
08	6,6	20,7	16,0	15,2	7,8
10	9,3	23,8	19,0	15,2	8,6
12	12,6	27,0	22,0	15,2	10,2
14	14,6	28,6	26,5	15,2	10,4
16	17,7	31,8	29,8	15,2	12,4
18	19,8	35,0	33,0	18,2	15,4
20	23,0	38,1	35,0	18,2	17,3
22	26,2	39,7	38,0	18,2	18,8
24	29,1	44,5	41,0	18,2	22,4

NOTE:
 Use odd-numbered entry size code when shell size has an odd number

Table 3

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	-	-
08/09	33,6	35,1
10/10SL/11	34,4	36,9
12/13	35,3	38,4
14/14S/15	35,7	39,9
16/16S/17	36,5	41,6
18/19	36,8	43,2
20/21	37,6	44,8
22/23	38,5	46,3
24/25	38,9	47,8
28	34,6	44,4
32	35,9	49,6
36	36,7	52,8
40	34,6	55,8
44	36,3	59,0
48	37,5	62,1
61	29,9	43,1

All dimensions in MM unless otherwise stated.



308 Series

Cone Backshell

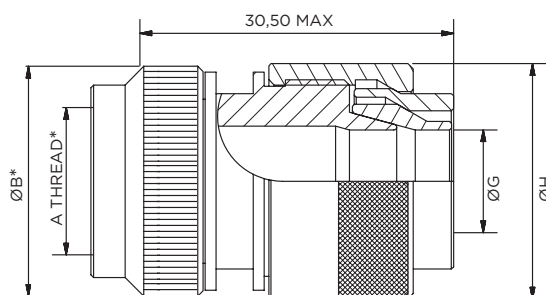


- Screen termination using two overlapping cones
- Sealing and strain relief of backshell by heat shrink boot

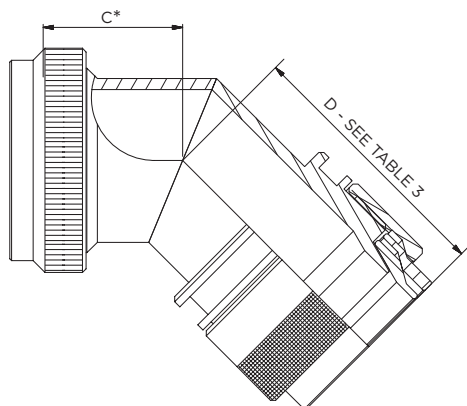
SPECIFICATIONS

- **Screen Termination:** Overall Screen, Tool-free, Reworkable
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot

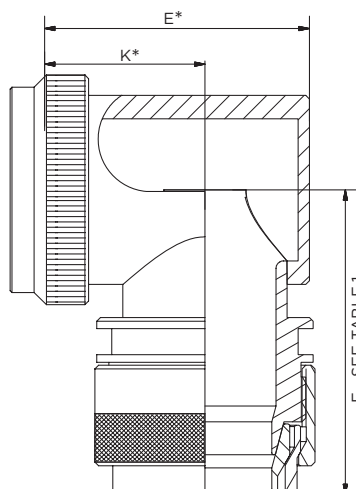
ANGLE 1



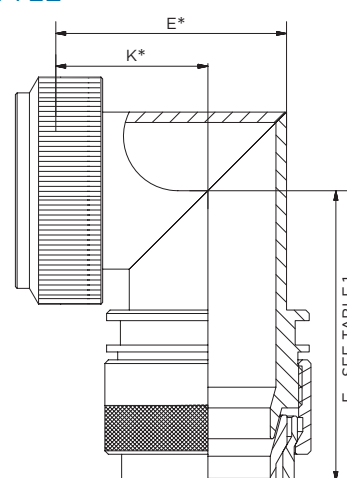
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

308 H 1 - 17 - 1 - C

Series _____
 Connector interface _____
 Angle _____
 Shell size _____
 Material _____
 Finish _____

Table 1

SHELL SIZE	All Interfaces			
	D MAX	F MAX	ØG MIN	ØH MAX
08/09	33,3	35,2	6,9	18,4
10/10SL/11	34,5	37,0	9,6	22,0
12/13	34,9	38,5	12,7	24,0
14/14S/15	35,8	40,0	14,8	27,0
16/16S/17	36,6	41,2	17,9	29,5
18/19	36,6	43,3	19,9	33,9
20/21	37,7	44,9	23,1	37,0
22/23	38,1	46,4	26,2	40,8
24/25	39,0	47,9	28,8	43,0

All dimensions in MM unless otherwise stated.



77 Series

Strain Relief Backshell

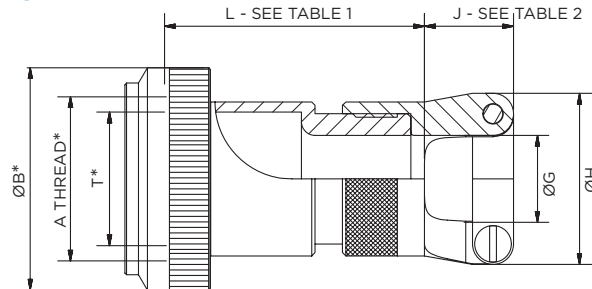


- Backshell entry sizes to match cable bundle diameter
- Extended follower offers protection to rear of connector

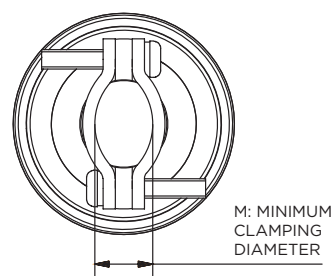
SPECIFICATIONS

- **Screen Termination:** None
- **Strain Relief & Cable Sealing:** Cable clamp
- **Additional Components Required:** None

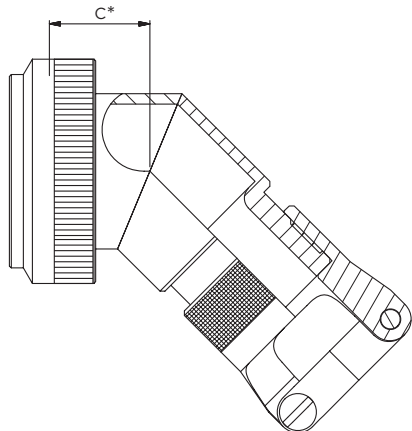
ANGLE 1



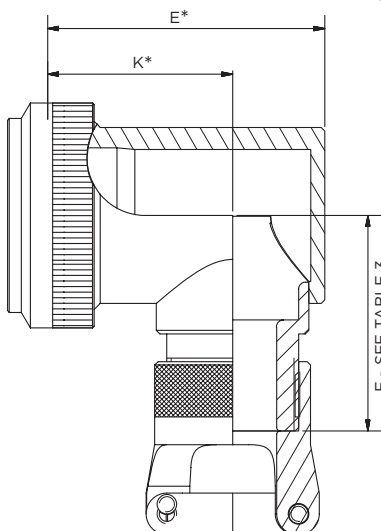
REAR VIEW



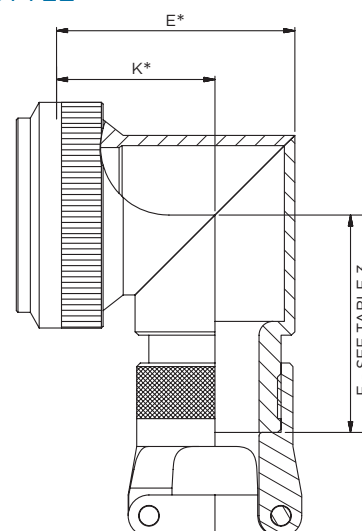
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

77 H 1 - 17 - 08 - 1 - C

Series
Connector interface*
Angle
Shell size
Entry size
Material
Finish

Table 1 - Length

SHELL SIZE	Interface								
	A	D	F	H	K	LC	Q	S	Z
03	-	-	-	-	-	-	-	-	-
08/09	36,0	36,0	36,0	36,0	36,0	-	-	36,0	-
10/10SL/11	36,0	36,0	36,0	36,0	36,0	31,2	-	36,0	30,0
12/13	36,0	36,0	36,0	36,0	36,0	-	36,0	36,0	30,0
14/14S/15	36,0	36,0	36,0	36,0	36,0	31,2	36,0	36,0	30,0
16/16S/17	36,0	36,0	36,0	36,0	36,0	31,2	36,0	36,0	30,0
18/19	36,0	36,0	36,0	36,0	36,0	31,2	36,0	36,0	30,0
20/21	36,0	36,0	36,0	36,0	36,0	31,2	36,0	36,0	30,0
22/23	36,0	36,0	36,0	36,0	36,0	31,2	36,0	36,0	30,0
24/25	36,0	36,0	36,0	36,0	36,0	31,2	36,0	36,0	30,0
28	36,0	-	-	-	-	31,2	36,0	-	30,0
32	-	-	-	-	-	31,2	36,0	-	30,0
36	-	-	-	-	-	31,2	36,0	-	-
40	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-
61	-	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØG MIN	ØH MAX	M ±0,5	J MAX
03	4,7	17,1	6,8	15,0
04	6,3	19,1	6,7	15,0
05	7,9	20,7	7,8	15,0
06	9,5	22,3	7,9	15,0
07	11,1	23,8	8,6	15,0
08	12,7	25,3	9,0	15,0
09	14,2	27,0	10,2	15,0
10	15,8	28,6	10,4	15,0
11	17,4	30,3	11,5	15,0
12	19,0	31,8	12,4	15,0
13	20,6	33,3	15,0	15,0
14	22,2	35,0	15,4	18,0
15	23,8	36,7	16,8	18,0
16	25,4	38,1	17,3	18,0
18	28,6	39,7	18,8	18,0
20	31,8	44,5	22,4	18,0
22	35,0	47,6	24,4	18,0
24	38,1	51,2	26,4	18,0

Table 3

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	25,1	26,4
08/09	24,6	26,4
10/10SL/11	30,5	38,3
12/13	26,2	28,3
14/14S/15	31,5	29,8
16/16S/17	33,0	33,4
18/19	34,0	33,5
20/21	35,5	34,7
22/23	36,5	36,4
24/25	38,0	40,9
28	39,0	40,0
32	40,5	45,6
36	41,5	48,8
40	43,0	51,8
44	36,3	55,0
48	37,5	58,1
61	29,9	39,1

All dimensions in MM unless otherwise stated.



KMA Series

Mesh Tape Backshell

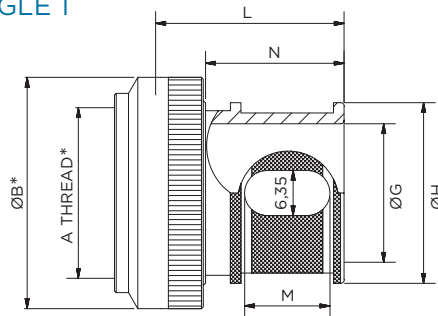


- 360° termination of multiple individual screens
- Mesh tape bundle system creates windowless EMI barrier even without overall screenbraid
- Sealing and strain relief of backshell by heat shrink boot

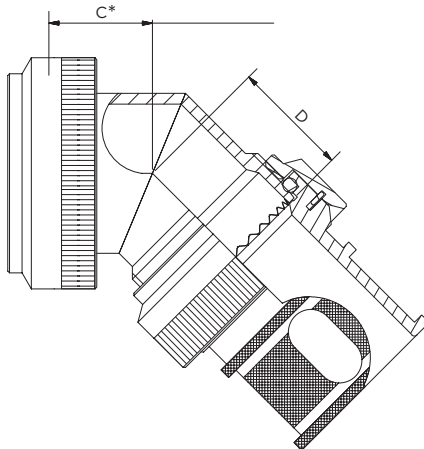
SPECIFICATIONS

- **Screen Termination:** Overall Screen, Individual or Multiple Screens, Tool-free, Reworkable
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot

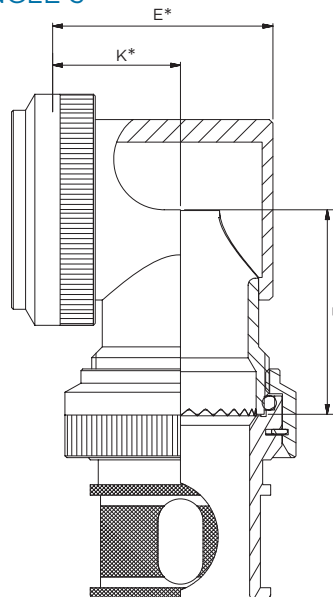
ANGLE 1



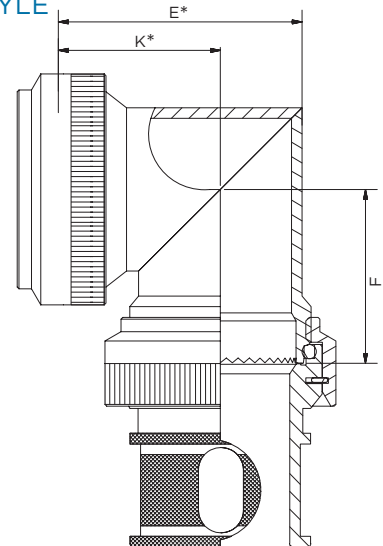
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

KMA H 1 - 11 - 1 - B - S1 - HE

Series ————
 Connector interface* ————
 Angle ————
 Shell size ————
 Material ————
 Finish ————
 Slot Option ————
 Termination option ————

HE - Constant force spring, omit for supplied without spring

Table 1

SLOT OPTION	"L ±0,5"	"M ±0,2"	"N ±0,2"	MESH-TAPE PART NUMBER (ORDERED SEPARATELY- 25 M REEL)
S1	26,5	12,0	19,5	KM (6)
S2	34,5	20,0	27,5	KM (13)

Table 2

SHELL SIZE	All Interfaces			
	D MAX	F MAX	ØG MIN	ØH MAX
08/09	14,5	21,5	6,6	13,2
10/10SL/11	15,0	23,0	10,1	16,7
12/13	15,5	24,5	12,9	20,0
14/14S/15	16,0	28,5	16,1	22,7
16/16S/17	17,0	30,0	19,3	25,4
18/19	18,0	31,5	21,7	28,3
20/21	18,5	33,0	24,9	31,6
22/23	19,0	34,5	28,1	34,7
24/25	19,5	36,0	31,3	37,9

All dimensions in MM unless otherwise stated.



KMCC Series

Mesh Tape Backshell

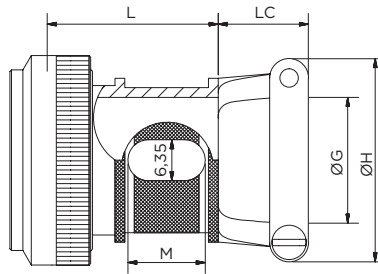


- 360° termination of multiple individual screens
- Mesh tape bundle system creates windowless EMI barrier even without overall screenbraid
- Strain relief by cable clamp allows tool free assembly and re-work

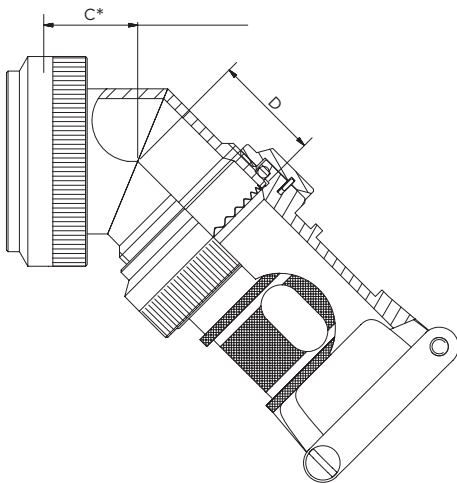
SPECIFICATIONS

- **Screen Termination:** Overall Screen, Individual or Multiple Screens, Tool-free, Reworkable
- **Strain Relief & Cable Sealing:** Cable Clamp
- **Additional Components Required:** None

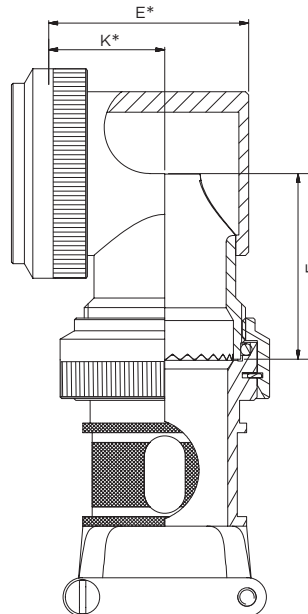
ANGLE 1



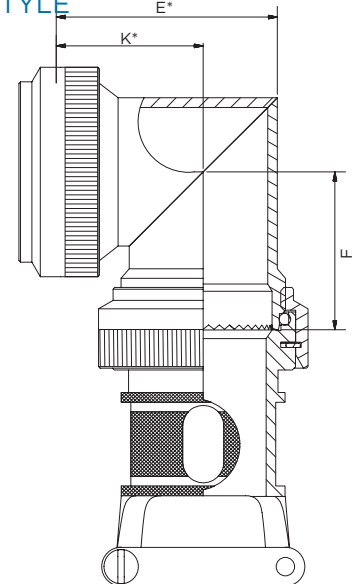
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

KMCC H 1 - 11 - 1 - C - S2 - HE

Series _____
 Connector interface* _____
 Angle _____
 Shell size _____
 Material _____
 Finish _____
 Slot Option _____
 Termination option _____
 HE - Constant force spring, omit for supplied without spring

Table 1

SLOT OPTION	"L ±0,5"	"M ±0,2"	"MESH-TAPE PART NUMBER (ORDERED SEPARATELY- 25 M REEL)"
S1	26,5	12,0	KM (6)
S2	34,5	20,0	KM (13)
D1	26,5	12,0	KM (6)
D2	34,5	20,0	KM (13)

Table 2

SHELL SIZE	All Interfaces				
	D MAX	F MAX	ØG MIN	ØH MAX	LC +/-0,2
08/09	14,5	21,5	6,6	19,0	14,0
10/10SL/11	15,0	23,0	10,1	22,2	14,0
12/13	15,5	24,5	12,9	25,2	14,0
14/14S/15	16,0	28,5	16,1	28,5	14,0
16/16S/17	17,0	30,0	19,3	31,7	14,0
18/19	18,0	31,5	21,7	34,9	17,0
20/21	18,5	33,0	24,9	39,0	21,0
22/23	19,0	34,5	28,1	42,8	21,0
24/25	19,5	36,0	31,3	46,0	21,0

All dimensions in MM unless otherwise stated.



76 Series

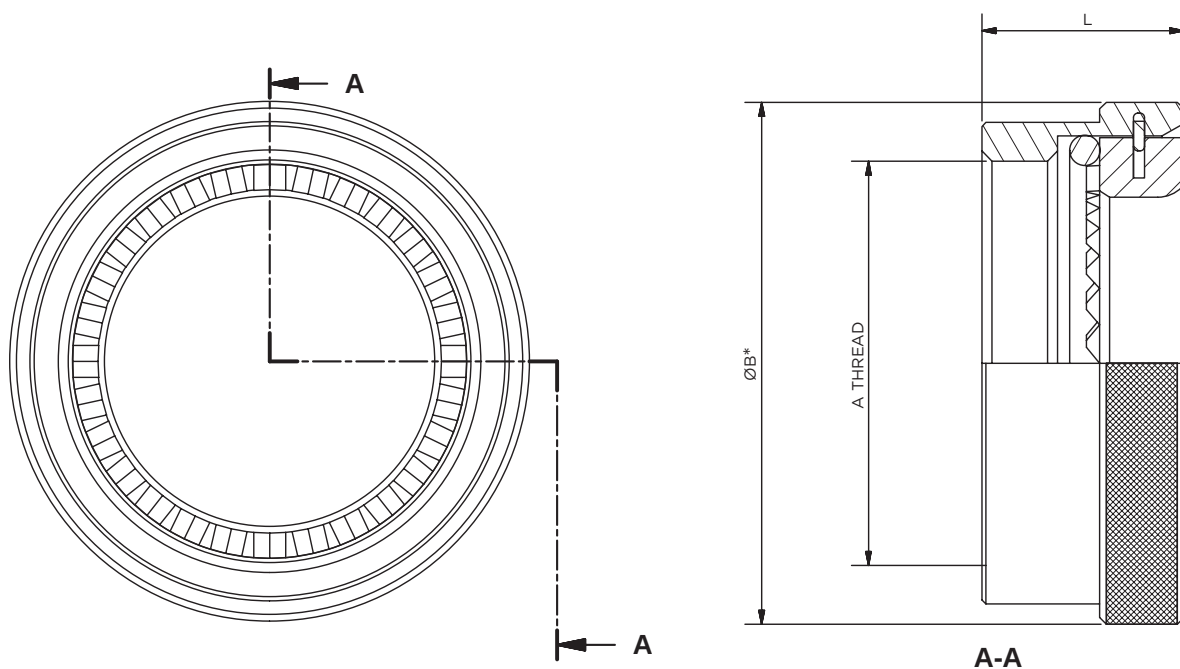
Heat Shrink Boot Backshell



- Low profile backshell for heat shrink boot

SPECIFICATIONS

- **Screen Termination:** None
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot



*REFER TO FOLD OUT INTERFACE PAGE



Example: **76 A 1 - 14 - 1 - ZB**

Series _____
 Connector interface* _____
 Angle _____
 Shell size _____
 Material _____
 Finish _____

Table 1 - Length

SHELL SIZE	Interface								
	A	D	F	H	K	LC	Q	S	SM
03	13,7	-	-	-	-	-	-	-	-
08/09	13,7	17,2	11,5	12,5	16,5	-	-	10,0	11,5
10/10SL/11	13,7	17,2	11,5	12,5	16,5	15,25	-	10,0	11,5
12/13	13,7	17,2	11,5	12,5	16,5	15,25	12,75	10,0	11,5
14/14S/15	13,7	17,2	11,5	12,5	16,5	15,25	12,75	10,0	11,5
16/16S/17	13,7	17,2	11,5	12,5	16,5	15,25	12,75	10,0	11,5
18/19	13,7	17,2	11,5	12,5	16,5	15,25	12,75	10,0	11,5
20/21	13,7	17,2	11,5	12,5	16,5	15,25	12,75	10,0	11,5
22/23	13,7	17,2	11,5	12,5	16,5	15,25	12,75	10,0	11,5
24/25	13,7	17,2	11,5	12,5	16,5	15,25	12,75	10,0	11,5
28	13,7	-	-	-	-	15,25	12,75	-	-
32	13,7	-	-	-	-	15,25	12,75	-	-
36	13,7	-	-	-	-	15,25	12,75	-	-
40	13,7	-	-	-	-	-	12,75	-	-
44	13,7	-	-	-	-	-	-	-	-
48	13,7	-	-	-	-	-	-	-	-
61	13,7	-	-	-	-	-	-	-	-



PG Adaptor

Thread Adaptor

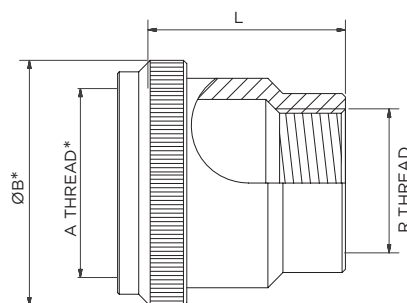


- To convert from military connector to PG threaded accessory

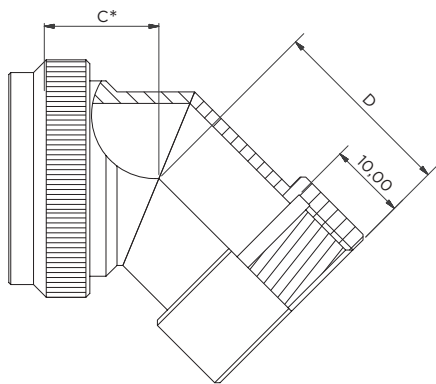
SPECIFICATIONS

- **Screen Termination:** n/a
- **Strain Relief & Cable Sealing:** n/a
- **Additional Components Required:** n/a

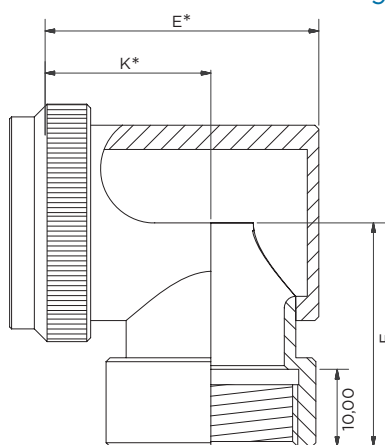
ANGLE 1



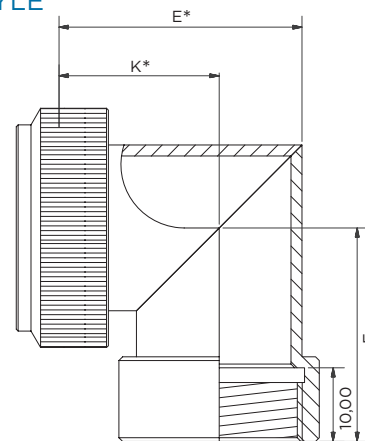
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

PGF H 1 - 17 - 16 - 1 - B - L25

Series _____
 Connector interface* _____
 Angle _____
 Shell size _____
 PG Size _____
 Material _____
 Finish _____
 Length in MM Straight Only _____
 (5mm Increments, L25 min)

Table 1

PG SIZE	R THREAD
7	PG7
9	PG9
11	PG11
13.5	PG13.5
16	PG16
21	PG21
29	PG29
36	PG36
42	PG42
48	PG48

Table 2

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	22,0	21,9
08/09	22,5	21,9
10/10SL/11	23,0	23,4
12/13	23,5	25,4
14/14S/15	24,0	27,4
16/16S/17	25,0	29,4
18/19	26,0	30,9
20/21	26,5	31,4
22/23	27,0	32,9
24/25	27,5	34,9
28	28,0	37,9
32	29,0	41,4
36	30,0	44,4
40	31,0	47,9
44	32,0	51,4
48	33,0	54,4
61	34,0	36,4

All dimensions in MM unless otherwise stated.



DC Series

Thread Extender

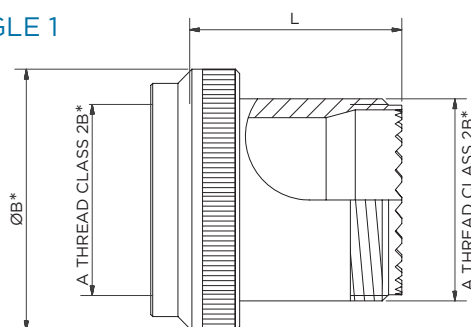


- Extends termination area
- Houses ancilliary components such as fuses etc

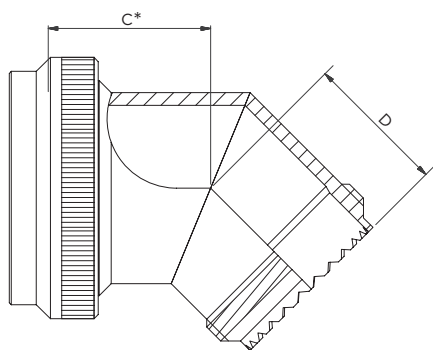
SPECIFICATIONS

- **Screen Termination:** n/a
- **Strain Relief & Cable Sealing:** n/a
- **Additional Components Required:** n/a

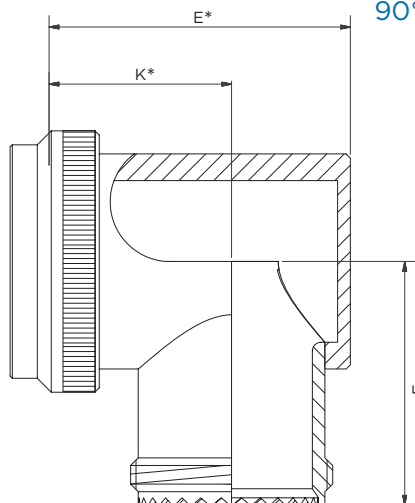
ANGLE 1



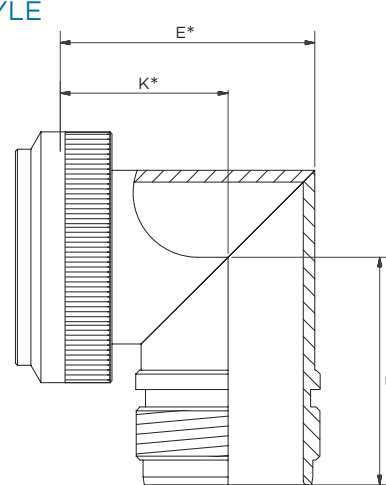
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

DC H 1 - 17 - 16 - 1 - B - L25

Series
 Connector interface*
 Angle
 Shell size
 Entry Size
 Material
 Finish
 Length in MM
 (5mm Increments, L20min - straight only)

Table 1 - Length

SHELL SIZE	All Interfaces	
	D MAX	F MAX
03	-	-
08/09	15,3	21,5
10/10SL/11	15,8	23,0
12/13	16,8	24,5
14/14S/15	17,8	28,5
16/16S/17	18,3	30,0
18/19	18,8	31,5
20/21	19,3	33,0
22/23	18,8	34,5
24/25	20,5	36,0
28	22,2	36,2
32	23,9	39,6
36	25,6	44,1
40	27,3	50,0
44	29,0	43,0
48	30,7	44,7
61	20,8	34,8

All dimensions in MM unless otherwise stated.



TXR Backshell

Tinel (Memory) Ring Backshell

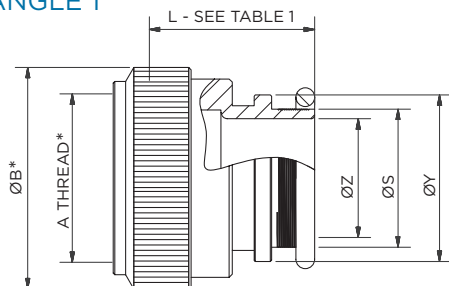


- Low profile 360° screen termination by a heat shrink memory metal ring
- Sealing and strain relief of backshell by heat shrink boot

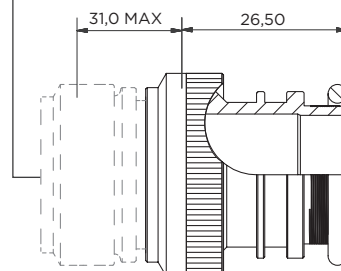
SPECIFICATIONS

- **Screen Termination:** Overall Screen
- **Strain Relief & Cable Sealing:** Heat Shrink Boot Option
- **Additional Components Required:** Boot

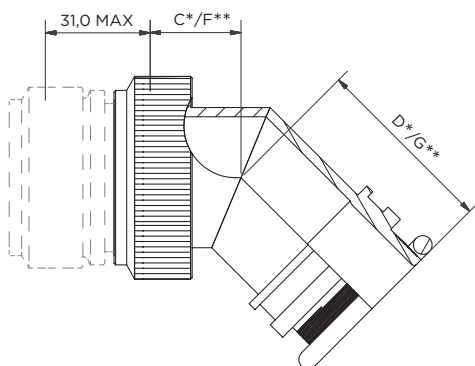
ANGLE 1



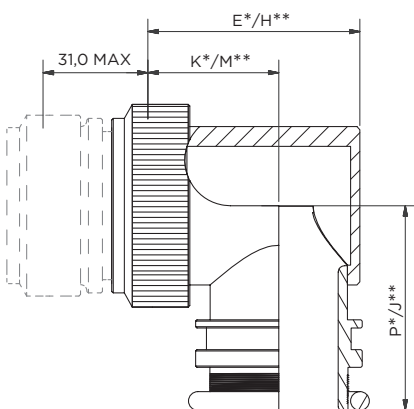
TYPE 2 ADAPTOR SUPPLIED WHEN
MAX ENTRY IS EXCEEDED



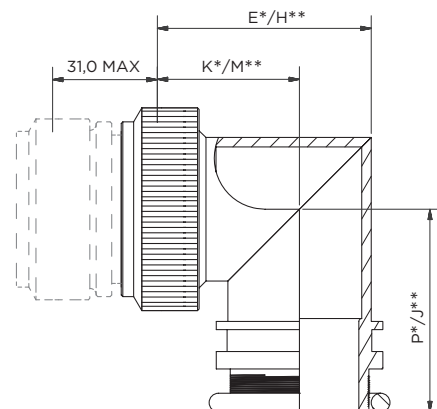
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



** F, G, H, M, & J APPLY WHEN ASSEMBLY IS TYPE 2

***REFER TO FOLD OUT INTERFACE PAGE**



Example:

TXR54 A B 00 - 16 10 AI ??

Adapter family*

Material

Finish

Angle (00 = straight; 45 = 45°; 90 = 90°)

Manufacturers prefix (connector code 18 only)

Order number

Entry size

Ring designator

Options (see page.....)

Table 1 - Length

SHELL SIZE	Interface													
	40	MAX ENTRY	54	MAX ENTRY	41	MAX ENTRY	21	MAX ENTRY	76	MAX ENTRY	78	MAX ENTRY	79	MAX ENTRY
03	-	-	26,0	04	-	-	-	-	-	-	-	-	-	-
08	27,0	04	26,0	04	27,3	04	30,9	04	36,9	04	-	-	27,3	05
10/11	27,0	07	26,0	06	27,3	07	30,9	06	36,9	06	-	-	27,3	07
12/13	27,0	08	26,0	08	27,3	08	30,9	08	36,9	08	32,0	05	27,3	08
14/15	27,0	10	26,0	08	27,3	10	30,9	10	36,9	10	32,0	07	27,3	10
16/17	27,0	12	26,0	10	27,3	12	30,9	12	36,9	12	36,8	08	27,3	12
18/19	27,0	14	26,0	12	27,3	14	30,9	12	36,9	14	36,8	10	27,3	14
20	27,0	16	26,0	14	27,3	16	30,9	14	36,9	16	38,9	12	27,3	16
22/23	27,0	18	26,0	16	27,3	18	30,9	16	36,9	18	38,9	14	27,3	18
24/25	27,0	20	26,0	18	27,3	20	30,9	18	36,9	18	41,2	16	27,3	20
28/29	-	-	26,0	22	-	-	-	-	-	-	41,2	18	-	-
32/33	-	-	26,0	24	-	-	-	-	-	-	44,7	22	-	-
36	-	-	26,0	28	-	-	-	-	-	-	44,7	24	-	-
40	-	-	26,0	28	-	-	-	-	-	-	-	-	-	-
44	-	-	26,0	28	-	-	-	-	-	-	-	-	-	-
48	-	-	26,0	28	-	-	-	-	-	-	-	-	-	-
61	-	-	26,0	18	-	-	-	-	-	-	-	-	-	-

Table 2

ENTRY SIZE	ØZ MIN	ØS	ØY ± 0,3	F MAX	G MAX	H MAX	M MAX	J MAX
04	6,35	9,49	14,00	NA	NA	NA	NA	NA
05	7,92	11,06	15,50	13,0	28,0	24,8	17,7	28,7
06	9,53	12,66	17,10	13,0	28,0	24,8	17,7	28,7
07	11,10	14,21	18,70	13,0	28,0	24,8	17,7	28,7
08	12,70	15,81	20,30	13,6	28,5	28,8	19,9	30,2
10	15,88	18,96	23,50	14,0	29,5	31,6	21,5	31,7
12	19,05	22,14	26,70	15,0	30,2	34,7	23,3	33,4
14	22,23	25,30	29,80	16,0	31,0	39,0	25,8	35,0
16	25,40	28,48	33,00	16,6	31,4	41,2	26,6	36,6
18	28,58	31,65	36,20	17,0	31,6	44,2	28,1	38,1
20	31,75	34,83	39,40	17,5	32,6	46,9	29,6	39,6
22	34,93	37,98	42,50	19,0	35,8	55,0	31,5	42,5
24	38,10	41,15	45,70	22,4	38,6	58,5	33,5	46,5

Table 3

								All Interfaces	
54	41	21	76	78	79	40	30	D MAX	P MAX
03								27,5	26,4
08	08	08	08		08	08		27,3	26,9
10	10	10	10	12	10	10	11	28,0	38,7
12	12	12	12		12	12	13	28,5	30,2
14	14	14	14	14	14	14	15	29,5	31,7
16	16	16	16	16	16	16	17	30,2	33,4
18	18	18	18	18	18	18	19	31,5	35,0
20	20	20	20	20	20	20		31,4	36,6
22	22	22	22	22	22	22	23	31,6	38,1
24	24	24	24	24	24	24	25	32,7	39,6
28				28			29	35,8	45,8
32				32			33	38,6	48,3
36				36				31,2	48,9
40								32,5	51,9
44								34,2	55,1
48								35,4	58,2
61								27,1	39,2

All dimensions in MM unless otherwise stated.



HexaShield Backshell

360° Screening Backshell

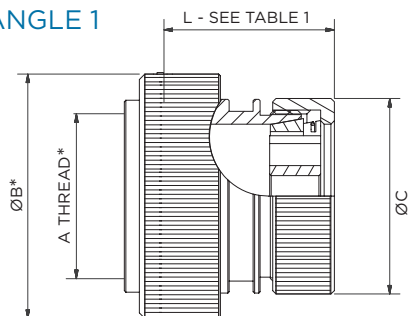


- Strain relief on each individual cable
- Compact size not exceeding outer diameter of connector
- No degradation of shielding performance

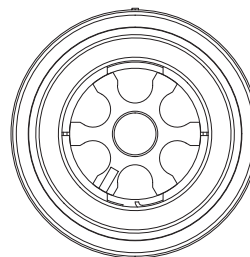
SPECIFICATIONS

- **Screen Termination:** 360° Screening
- **Strain Relief & Cable Sealing:** n/a
- **Additional Components Required:** n/a

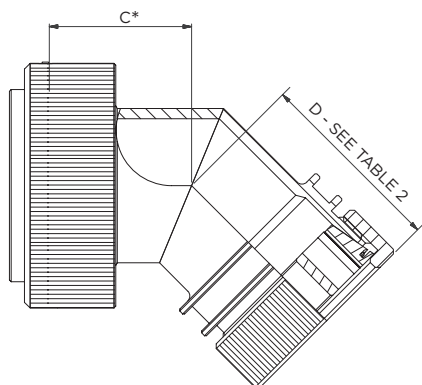
ANGLE 1



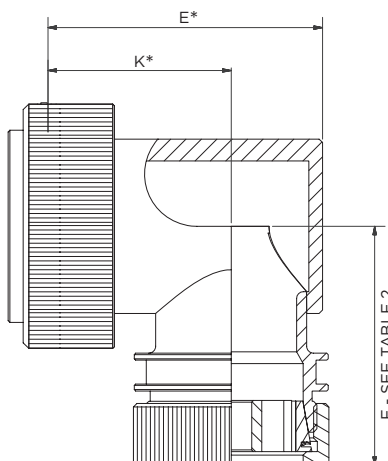
REAR VIEW



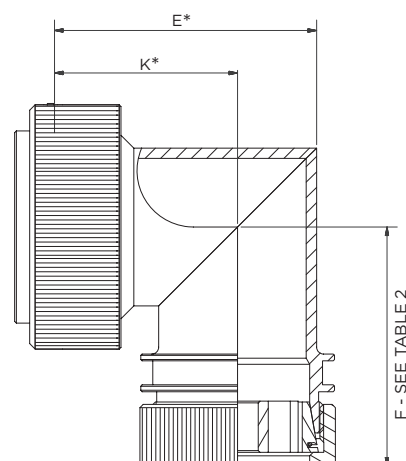
ANGLE 2



ANGLE 3



STAINLESS STEEL/BRONZE
90° STYLE



*REFER TO FOLD OUT INTERFACE PAGE



Example:

HEX40 - K - C - 00 - 21 - A9 - 1 - DS

Connector code number:*

HEX40 = MIL-C-38999 Series III and IV

Material

Finish

Angle (00 = straight; 45 = 45°; 90 = 90°)

Order number

Ferrule quantity code

1 = Plain clamping nut

DS = Drilled star

Table 1 - Length

SHELL SIZE	Interface			
	54	41	40	21
08/09	26,0	25,0	25,0	36,0
10/10SL/11	26,0	25,0	25,0	36,0
12/13	26,0	25,0	25,0	36,0
14/14S/15	26,0	25,0	25,0	36,0
16/16S/17	26,0	25,0	25,0	36,0
18/19	26,0	25,0	25,0	36,0
20/21	26,0	25,0	25,0	36,0
22/23	26,0	25,0	25,0	36,0
24/25	26,0	25,0	25,0	36,0

Table 2

SHELL SIZE	All Interfaces		
	ØC MAX	D MAX	F MAX
08/09	17,5	55,5	57,0
10/10SL/11	21,5	56,0	58,5
12/13	22,5	56,5	61,5
14/14S/15	25,5	57,5	63,5
16/16S/17	28,5	58,0	65,0
18/19	31,5	58,5	66,0
20/21	35,0	59,0	67,5
22/23	38,0	60,0	69,5
24/25	41,0	61,0	71,0

All dimensions in MM unless otherwise stated.

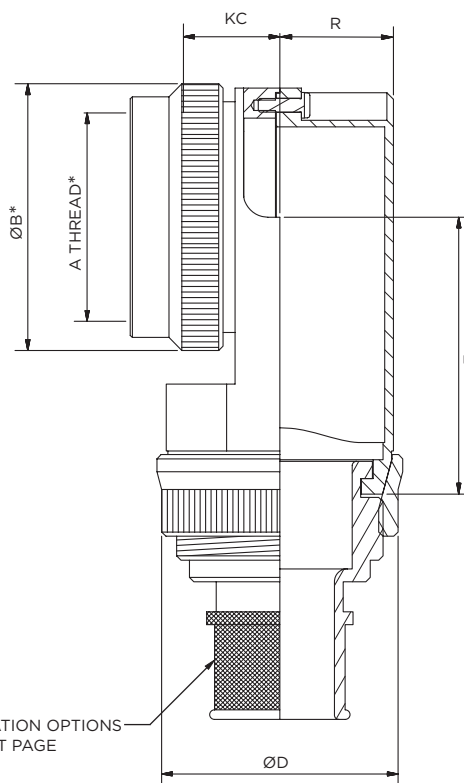
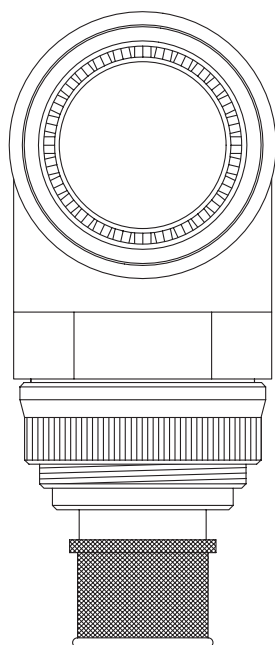


Cobra Head

Backshell Modification



- Low profile backshell form
- Designed for use with heat shrink boot
- Modular design for ease of cable assembly
- Can be used on many standard range backshells (see opposite page for details)



TERMINATION OPTIONS
SEE NEXT PAGE

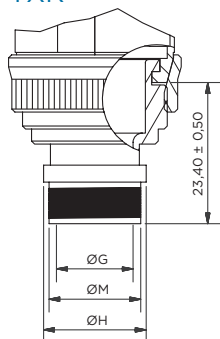
SHELL SIZE	All Interfaces			
	D MAX	F MAX	R MAX	MAX ENTRY
08/09	18,7	22,5	8,7	04
10/10SL/11	21,7	26,6	10,0	06
12/13	24,7	26,6	11,0	08
14/14S/15	24,7	30,4	11,6	08
16/16S/17	28,7	32,7	13,6	10
18/19	28,7	35,4	13,6	10
20/21	28,7	36,4	13,6	10
22/23	31,7	38,9	15,1	12
24/25	31,7	40,4	15,1	12

SHELL SIZE	A	D	F	H
	KC	KC	KC	KC
08/09	10,3	7,9	8,7	8,7
10/10SL/11	10,3	7,9	8,7	8,7
12/13	10,3	7,9	8,7	8,7
14/14S/15	11,8	9,4	10,2	10,2
16/16S/17	12,8	10,4	11,2	11,2
18/19	12,8	10,4	11,2	11,2
20/21	12,8	10,4	11,2	11,2
22/23	14,3	11,9	12,7	12,7
24/25	14,3	11,9	12,7	12,7

***REFER TO FOLD OUT INTERFACE PAGE**

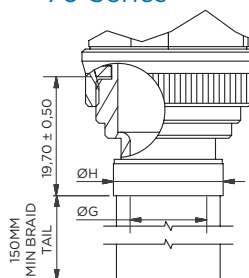


TXR



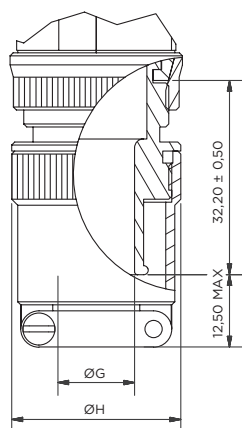
ENTRY SIZE	ØG MIN	ØM MAX	ØH MAX
04	6,4	9,5	14,3
05	7,9	11,1	15,8
06	9,5	12,7	17,4
07	11,1	14,3	19,0
08	12,7	15,9	20,6
10	15,9	19,1	23,8
12	19,1	22,2	27,0

70 Series



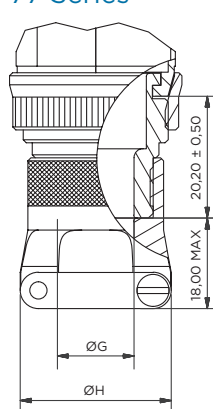
ENTRY SIZE	ØG MIN	ØH MAX
03	4,77	13,1
04	6,35	13,1
05	7,92	13,1
06	9,52	17,9
07	11,10	17,9
08	12,70	17,9
09	14,27	17,9
10	15,88	24,2
11	17,47	24,2
12	19,05	24,2

88 Series



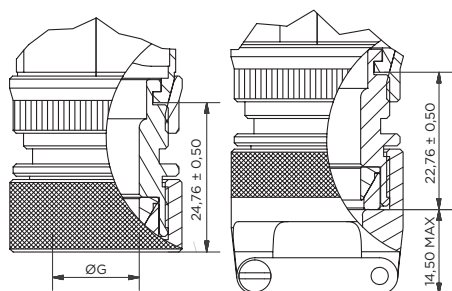
ENTRY SIZE	ØG MIN	ØH MAX
03	4,77	20,2
04	6,35	21,8
05	7,92	23,4
06	9,52	25,0
07	11,10	26,5
08	12,70	28,0
09	14,27	29,7
10	15,88	31,3
11	17,47	33,0
12	19,05	34,6

77 Series



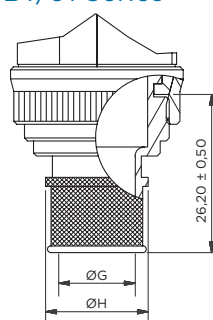
ENTRY SIZE	ØG MIN	ØH MAX
03	4,7	17,1
04	6,3	19,1
05	7,9	20,7
06	9,5	22,3
07	11,1	23,8
08	12,7	25,3
09	14,2	27,0
10	15,8	28,6
11	17,4	30,3
12	19,0	31,8

34 Series



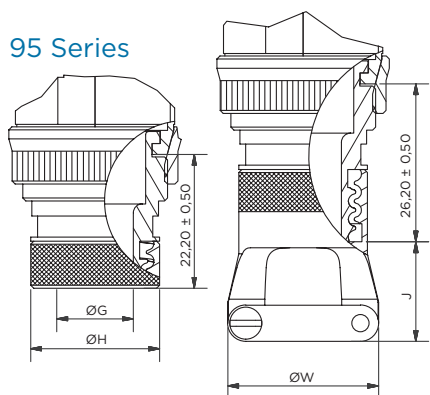
ENTRY SIZE	ØG MIN
03	4,77
04	6,35
05	7,92
06	9,52
07	11,10
08	12,70
09	14,27
10	15,88
11	17,47
12	19,05

BT/91 Series



ENTRY SIZE	ØG MIN	ØH MAX
03	4,77	9,4
04	6,35	11,0
05	7,92	12,6
06	9,52	14,0
07	11,10	15,7
08	12,70	17,0
09	14,27	19,9
10	15,88	20,4
11	17,47	22,1
12	19,05	23,6

95 Series



ENTRY SIZE	ØG MIN	ØH MAX	ØW MAX	J
03	4,77	15,2	17,3	13,7
04	6,35	15,2	18,9	13,7
05	7,92	16,8	20,5	13,7
06	9,52	18,4	22,1	13,7
07	11,10	20,0	23,6	13,7
08	12,70	21,6	25,1	16,7
09	14,27	23,2	26,8	16,7
10	15,88	24,8	28,4	16,7
11	17,47	26,4	30,1	19,7
12	19,05	27,9	31,6	19,7

All dimensions in MM unless otherwise stated.



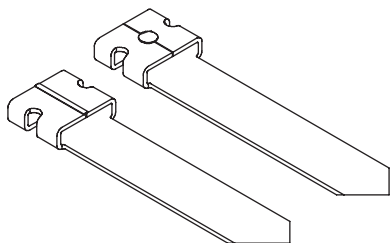
M85049/128 Band Straps

Backshell Accessory



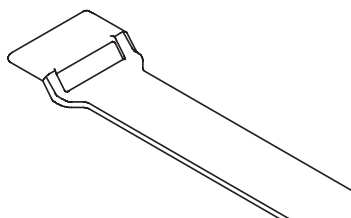
- Meets AS85049 NAVAIR standards
- Self-coupling locking nut provides an improved mechanical protection against loosening under vibration
- Corrosion resistant stainless steel
- Band straps available flat for side entry or precoiled for end entry
- Side-entry band straps allow easier installation and repair

TWO-STEP BAND



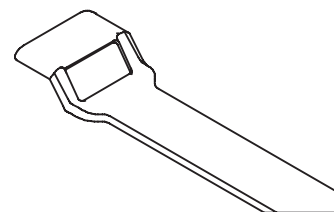
M85049/128-1 FLAT
M85049/128-2 PRE-COILED

STANDARD BAND



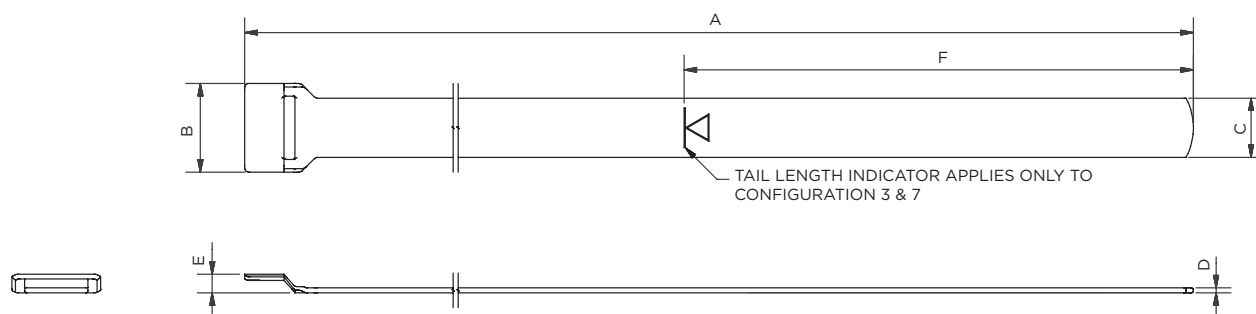
M85049/128-3 FLAT
M85049/128-4 PRE-COILED

MICROBAND



M85049/128-7 FLAT
M85049/128-8 PRE-COILED

FLAT BAND - CONFIGURATION 1, 3, 7



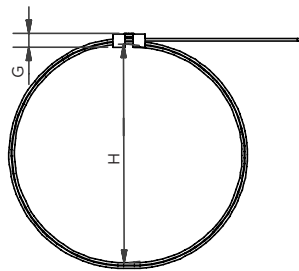
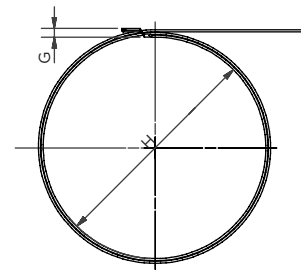


Example:

M85049/128 - 1

Series

Configuration

PRE-COILED BAND
CONFIGURATION 2PRE-COILED BAND
CONFIGURATION 4, 8

CONFIGURATION	A ± ,06	B ± ,031	C ± ,010	D ± ,003	E ± ,015	F REF	G MAX	H REF	SUFFIX	TOOL REQUIRED
1	358,90	8,33	6,22	0,48	2,54	-	-	-	-	M81036/2-01
2	-	-	-	-	-	-	3,56	44,5	-S2	M81036/2-01
3	361,95	8,89	6,22	0,48	1,88	51,59	-	-	-	M81036/1-01
4	-	-	-	-	-	-	3,81	44,5	-SB	M81036/1-01
7	206,25	4,95	2,92	0,38	1,35	51,59	-	-	-	M81036/1-02
8	-	-	-	-	-	-	1,85	21,8	-MB	M81036/1-02

INTERFACE DIMENSION TABLE ON REVERSE OF THIS PAGE

All dimensions in MM unless otherwise stated.



Glossary of Terms

Anti-decoupling

Anti-decoupling backshells incorporate a ratchet in the nut to help reduce the possibility of the backshell decoupling from the connector due to extreme vibration and shock.

Arctic grip

A deep square-form grip, alternative to a knurled grip, particularly on protective covers.

Backshell

Any accessory fitted to the rear thread of a connector, providing strain relief, screen termination and/or cable sealing.

Blanking Cover

Helps to provide environmental protection and EMC shielding to circuitry or shorting loops at the rear of a connector that is to be used as a stand-alone device.

Cobra Head

Low profile split 90° adaptor.

Conduit

Flexible corrugated tubing that provides environmental protection for wiring. Can be used in conjunction with screenbraid and conduit adaptor backshells to provide a fully screened and sealed system.

Connector

Device for electrically connecting wires to each other or to electrical equipment.

Direct-coupling

Direct-coupling backshells do not have a distinct nut, i.e. the entire backshell rotates when the backshell is screwed into place.

Dummy Receptacle

Provides stowage, environmental protection, and EMC shielding for an unmated plug.

EMC

Electromagnetic Compatibility assures the avoidance of interference effects resulting from the unintentional generation, propagation and reception of electromagnetic energy. This can be achieved by properly grounded shielding (screening) or by electronically filtering signals (Filter Connector).

Entry size

Two digits describe the diameter of the hole through which the cable enters into the backshell. Check specific series for details – note that some series such as boot adaptors (97 series) and cable clamps (96 series) do not require the entry size to be stated.

Follower

Refers to the main body of a spin-coupling backshell.

Heat shrink boot

Moulded sleeve that joins the cable jacket to a suitable backshell, for purposes of strain-relief and environmental protection. Heat shrink boots shrink to fit and are installed by use of a specialised hot air gun. Adhesive-lined boots and a variety of materials are available.

Heat shrink kit

Backshell with pre-installed heat-shrink boot and optional (internal) overall screen. Enables easy installation whereby boot and 360° screen termination are achieved in one operation by use of hot air gun.

Individual screen

EMC shield (e.g. screenbraid) encompassing an individual wire in a bundle.

Lacing Tape

Lacing cord used as a binding medium to indicate an EMC classification of an open wiring harness.

Overall screen

EMC shield (e.g. screenbraid) encompassing entire wire bundle.

Protective Cover

Provides environmental protection and EMC shielding on the front (mating end) of an unmated connector.

RoHS

The RoHS Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

Screenbraid

Flexible EMC shield in expanding sleeve form for covering cable.

Shell size

Two numerical digits that state the size of the connector.

Shield

See EMC

Spin-coupling

Spin-coupling backshells have a coupling nut that rotates freely on the backshell body.

Strain relief

Any method of relieving the strain on the individual wires, should the cable be put under tension. Common methods are cable clamps, heatshrink boots, tie posts.

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Interface Dimension Table

Interface Code												A THREAD	ØB MAX	C MAX	K MAX	E MAX
POLAMCO	A	F	-	K	D	SM	Q	S	H	-	Z					
Raychem	54	-	41	21	76	47	78	79	-	40	30					
Shell Size		08/09	08	08	08	08		08				7/16-28 UNEF	19,3	16,9	21,8	27,5
									09	08		M12 x 1.0	18,0	14,6	18,5	25,7
	08											1/2 - 20 UNF	15,6	17,1	18,5	24,7
	03	10/11	10	10	10	10		10				9/16-24 UNEF	22,0	17,7	24,6	31,0
									11	10		M15 x 1.0	21,0	15,2	18,0	26,7
	10						10SL					5/8-24 UNEF	20,3	17,0	19,3	26,7
		12/13	12	12	12	12		12				11/16-24 UNEF	25,0	18,1	25,0	34,0
									13	12		M18 x 1.0	24,5	15,8	20,5	31,2
	12						14S				11	3/4 - 20 UNEF	26,5	20,2	22,9	31,7
		14/15	14	14	14	14		14				13/16-20 UNEF	29,2	19,0	26,5	37,0
									15	14		M22 x 1.0	29,0	16,2	25,0	37,2
	14						16/16S				13	7/8-20 UNEF	29,7	24,4	26,0	36,2
		16/17	16	16	16	16		16				15/16-20 UNEF	31,1	19,7	28,2	40,4
									17	16		M25x1.0	32,5	17,0	27,2	40,2
	16						18				15	1-20 UNEF	31,3	25,1	27,5	39,2
	18	18/19	18	18	18	18		18				1 1/16-18 UNEF	34,4	20,1	29,8	43,6
									19	18		M28 x 1.0	35,5	17,3	27,5	44,7
							20				17	1 1/8-18 UNEF	35,5	25,6	28,5	42,2
	20	20/21	20	20	20	20		20				1 3/16-18 UNEF	38,5	20,9	31,4	46,8
									21	20		M31 x 1.0	37,7	18,0	31,0	49,2
							22				19	1 1/4-18 UNEF	38,7	26,4	30,0	45,2
	22	22/23	22	22	22	22		22				1 5/16-18 UNEF	41,0	21,3	37,1	49,8
									23	22		M34x1.0	40,0	18,7	32,0	51,7
							24					1 3/8-18 UNEF	41,3	27,6	31,5	48,2
	24	24/25	24	24	24	24		24			23	1 7/16-18 UNEF	43,7	22,6	34,4	52,8
									25	24		M37 x 1.0	43,5	19,3	30,1	53,2
	61											1 1/2-18 UNEF	42,0	22,3	28,5	48,0
											25	1 9/16- UNEF	47,2	23,6	32,0	51,5
							28					1 5/8-18 UNEF	47,8	29,3	36,0	55,3
	28											1 3/4-18 UNS	50,0	23,5	35,7	54,4
							32					1 7/8-16 UN	55,2	30,2	37,5	60,3
	32											2-18 UNS	56,3	25,2	36,9	62,5
							36				33	2 1/16-16 UNS	62,2	31,7	39,5	64,2
	36											2 1/4-16 UN	62,7	26,4	38,5	67,4
	40											2 1/2-16 UN	69,0	28,8	41,5	73,4
	44											2 3/4-16 UN	75,4	30,3	44,6	79,7
	48											3-16 UN	81,7	31,5	47,7	86,0

For AD modification add 4,0 to ØB, C, K and E dimensions

All dimensions in MM unless otherwise stated.