

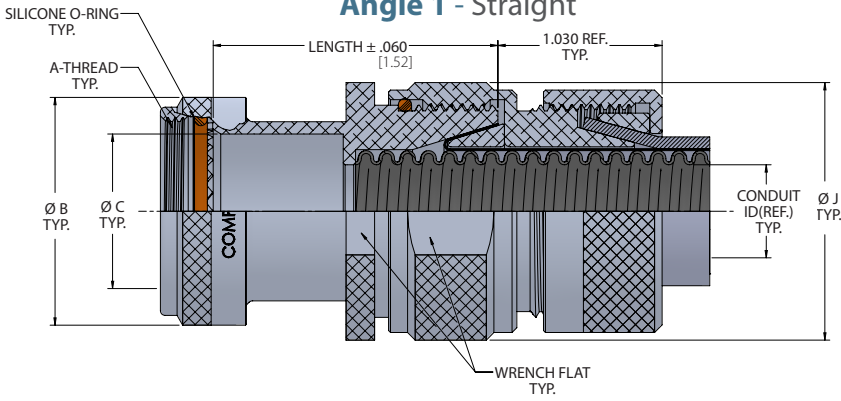
SERIES 37

Heavy Duty Ground Ring System

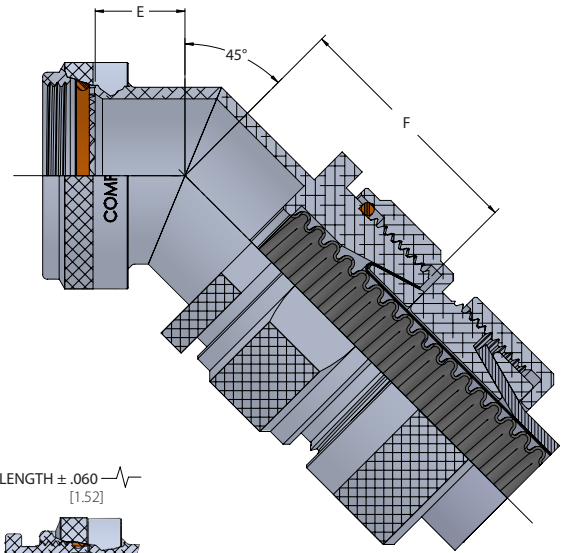
Backshell with Ground Ring Shield Termination for use with Helical Convoluted Tubing



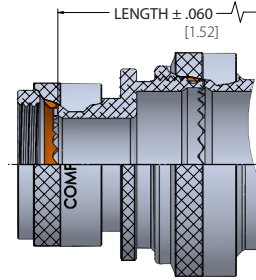
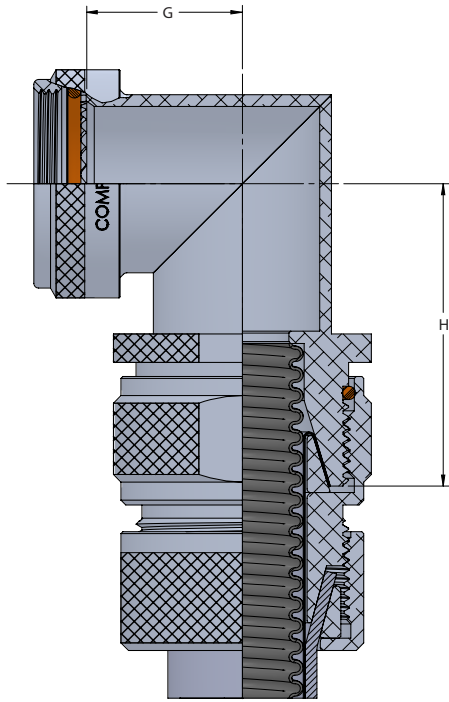
Angle 1 - Straight



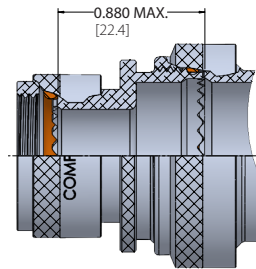
Angle 4 - 45 Degree



Angle 9 - 90 Degree



**STYLE 2
STRAIGHT**
(SEE NOTES)



**STYLE 2
45° & 90°**
(SEE NOTES)

CP F 37 1 W - 12 06 - 8 - S1

Compaero Identifier

Connector Interface
(See Page 3 for details)

Series Identifier

Angle

- 1 = Straight
- 4 = 45° Miter
- 9 = 90° Miter

Material & Finish
See page 4 for details.

Style Option
S1 = Style 1
S2 = Style 2

Length
(For angle 1 only)
Length in 0.50" increments
Eg: 6 indicates 3.0" length.

Dash No.
See table 1

Shell Size
See table 2 & table 3

inches [millimeters]
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SERIES 37

Heavy Duty Ground Ring System

Backshell with Ground Ring Shield Termination for use with Helical Convoluted Tubing



NOTES:

1. When tubing ID Max exceeds inside diameter of connector shell ($\varnothing C$) in Table 3, style 2 may be supplied.
2. Standard minimum length for style 1 is 1.50 inch, for style 2 is 2.00 inch, applies to straight only.
3. Consult factory for shorter lengths on straight Backshells.
4. Compaero Series 37 adapters are compatible with Series 74 Helical Convoluted Tubing.

Table 1 Dash Number

DASH NO.	CONDUIT ID				$\varnothing J$ MAX.	
	MIN		MAX			
	in	mm	in	mm	in	mm
06	0.181	4.6	0.188	4.8	1.09	27.7
09	0.273	6.9	0.281	7.1	1.16	29.5
10	0.306	7.8	0.312	7.9	1.22	31.0
12	0.359	9.1	0.375	9.5	1.28	32.5
14	0.427	10.8	0.437	11.1	1.34	34.0
16	0.480	12.2	0.500	12.7	1.41	35.8
20	0.603	15.3	0.625	15.9	1.53	38.9
24	0.725	18.4	0.750	19.1	1.66	42.2
28	0.860	21.8	0.875	22.2	1.78	45.2
32	0.970	24.6	1.000	25.4	1.91	48.5
40	1.205	30.6	1.250	31.8	2.28	57.9
48	1.437	36.5	1.500	38.1	2.59	65.8
56	1.688	42.9	1.750	44.5	2.91	73.9
64	1.937	49.2	2.000	50.8	3.03	77.0

Table 2 Shell Size

SHELL SIZE	E MAX.		F MAX.		G MAX.		H MAX.	
	in	mm	in	mm	in	mm	in	mm
08/09	0.64	16.3	1.23	31.2	0.75	19.1	1.34	34.0
10/11	0.66	16.8	1.26	32.0	0.81	20.6	1.40	35.6
12/13	0.69	17.6	1.28	32.5	0.87	22.1	1.46	37.1
14/15	0.71	18.0	1.31	33.3	0.92	23.4	1.53	38.9
16/17	0.73	18.5	1.33	33.8	0.98	24.9	1.59	40.4
18/19	0.75	19.1	1.34	34.0	1.02	25.9	1.61	40.9
20/21	0.77	19.6	1.36	34.5	1.08	27.4	1.67	42.4
22/23	0.80	20.3	1.40	35.6	1.14	29.0	1.75	44.5
24/25	0.82	20.8	1.43	36.3	1.20	30.5	1.82	46.2
28	1.04	26.4	1.60	40.6	1.48	37.6	2.06	52.3
32	1.09	27.7	1.64	41.7	1.61	40.9	2.15	54.6
36	1.14	29.0	1.69	42.9	1.72	43.7	2.26	57.4

Table 3 Interface Data

A INTERFACE *					
SHELL SIZE	A THREAD	$\varnothing B$ MAX.		$\varnothing C$	
		in	mm	in	mm
08	1/2-20 UNF	0.65	16.5	0.295	7.5
10	5/8-24 UNEF	0.77	19.6	0.400	10.2
12	3/4-20 UNEF	0.94	23.9	0.536	13.6
14	7/8-20 UNEF	1.02	25.9	0.610	15.5
16	1-20 UNEF	1.21	30.7	0.735	18.7
18	1 1/16-18 UNEF	1.23	31.2	0.814	20.7
20	1 3/16-18 UNEF	1.36	34.5	0.939	23.9
22	1 5/16-18 UNEF	1.48	37.6	1.064	27.0
24	1 7/16-18 UNEF	1.73	43.9	1.179	29.9
28	1 3/4-18 UNS	1.97	50.0	1.414	35.9
32	2-18 UNS	2.22	56.4	1.660	42.2
36	2 1/4-16 UN	2.47	62.7	1.875	47.6
40	2 1/2-16 UN	2.72	69.1	2.090	53.1

F INTERFACE					
SHELL SIZE	A THREAD	$\varnothing B$ MAX.		$\varnothing C$	
		in	mm	in	mm
08	7/16-28 UNEF	0.65	16.5	0.299	7.6
10	9/16-24 UNEF	0.77	19.6	0.427	10.8
12	11/16-24 UNEF	0.89	22.6	0.541	13.7
14	13/16-20 UNEF	1.02	25.9	0.641	16.3
16	15/16-20 UNEF	1.15	29.2	0.766	19.5
18	1 1/16-18 UNEF	1.23	31.2	0.855	21.7
20	1 3/16-18 UNEF	1.36	34.5	0.980	24.9
22	1 5/16-18 UNEF	1.48	37.6	1.165	29.6
24	1 7/16-18 UNEF	1.73	43.9	1.230	31.2

H INTERFACE					
SHELL SIZE	A THREAD	$\varnothing B$ MAX.		$\varnothing C$	
		in	mm	in	mm
09	M12x1.0 - 6 H	0.77	19.6	0.299	7.6
11	M15x1.0 - 6 H	0.82	20.8	0.427	10.8
13	M18x1.0 - 6 H	0.94	23.9	0.541	13.7
15	M22x1.0 - 6 H	1.07	27.2	0.641	16.3
17	M25x1.0 - 6 H	1.21	30.7	0.766	19.5
19	M28x1.0 - 6 H	1.36	34.5	0.885	22.5
21	M31x1.0 - 6 H	1.48	37.6	0.980	24.9
23	M34x1.0 - 6 H	1.60	40.6	1.165	29.6
25	M37x1.0 - 6 H	1.70	43.2	1.230	31.2

Tolerance
 .XX = ± 0.03 (0.8)
 .XXX = ± 0.015 (0.4)
 Lengths = ± 0.060 (1.52)
 Angular = $\pm 5^\circ$

* Interface O-ring not supplied with connector designator A

CONNECTOR INTERFACE CODES

For standard circular interfaces



Compaero offer termination solutions for virtually all known connector interfaces, the variants highlighted below are our standard lines, available on all product lines shown in this catalogue.

To discuss connector interface options not shown, please contact your local sales representative, or visit www.compaero.com

CONNECTOR INTERFACE	INTERFACE CODE
EN2997, ESC10, ESC11	A
EN3645	H
MIL-DTL-26482-SERIES II	A
MIL-DTL-38999 SERIES I & II	F
MIL-DTL-38999 SERIES III & IV	H
MIL-DTL-5015 CRIMP	A
MIL-DTL-83723 SERIES I & III	A

All Compaero backshells are available in a wide selection of material and plating combinations, from heavy duty marine applications to lightweight aerospace solutions, there is an option for almost any situation.

CODE	MIL SPEC CODE	MATERIAL	PLATING	PROCESS	ROHS COMPLIANT
B		Marine Bronze	Shotblast, Nonreflective	1000 Hour Salt Spray, Conductive -65 to +200°C	Yes
C	A	Aluminum	Anodize, Black	AMS-A-8625 Type II Class 2, 336 Hour Salt Spray, Non-Conductive -65 to +175°C	Yes
F	N, F	Aluminum	Electroless Nickel	AMS-C-26074 Class 4 Grade B; ASTM-B-733, SC 2, Type IV, 48 Hour Salt Spray, Conductive -65 to +200°C	Yes
G		Aluminum	Anodize, Hardcoat, Black	AMS-A-8625 Type III, Class 2, .001" thick, 336 Hour Salt Spray, Non-Conductive -65 to +200°C	Yes
KB	B	Stainless Steel	Cadmium, Black	SAE-AMS-QQ-P-416 Type II Class 3 1000 Hour Salt Spray, Conductive -65 to +175°C	No
K	S	Stainless Steel	Passivate	SAE-AMS-QQ-P-35 Type VI 1000 Hour Salt Spray, Conductive -65 to +200°C	Yes
KL		Stainless Steel	Electrodeposited Nickel	SAE-AMS-QQ-N-290 Class 1 Grade F 1000 Hour Salt Spray, Conductive -65 to +200°C	Yes
TR		Aluminum	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel 500 Hour Salt Spray, Conductive -65 to +175°C	Yes
T		Aluminum	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel 1000 Hour Salt Spray, Conductive -65 to +175°C	No
W	W	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel 1000 Hour Salt Spray, Conductive -65 to +175°C	No
X		Aluminum	Unplated		Yes
Y		Aluminum	Zinc-Cobalt, Olive Drab	ASTM B 840 Grade 6 Type D over electroless nickel, 350 Hour Salt Spray, Conductive -65 to +175°C	Yes
ZN		Aluminum	Zinc-Nickel, Olive Drab	ASTM B841 Grade 5 over electroless nickel 1000 Hour Salt Spray, Conductive -65 to +175°C	No
Z		Aluminum	Zinc-Cobalt, Black	ASTM B 840 Grade 6 Type D over electroless nickel 350 Hour Salt Spray, Conductive -65 to +175°C	Yes

For the full list of available options, please consult www.compaero.com

Please note that the colours shown above are for illustrative purposes only-actual finish colour may vary.