

The BacNav OFS logo, which includes the text 'BacNav' in a bold sans-serif font above 'OFS' in a similar font, all enclosed within a white curved arrow shape.

OUTSTANDING PERFORMANCE

BacNav OFS™

HARSH-ENVIRONMENT REPOSITIONABLE BACKSHELL

AUGUST 2015



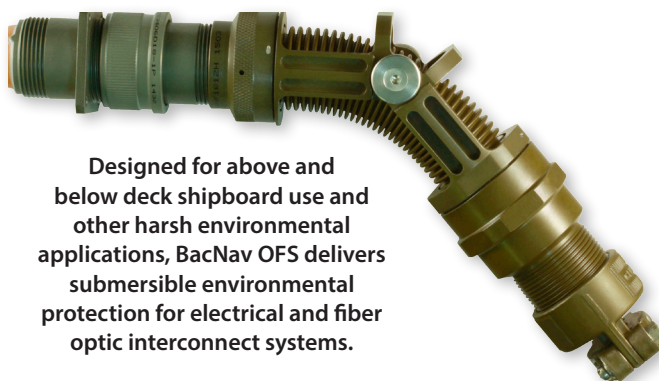
SERIES 390

BacNav OFS

Outstanding repositionable backshell for harsh-environment applications



Designed for use in rugged shipboard applications as well as military ground systems such as armored vehicles, the Glenair BacNav OFS delivers outstanding mechanical, electrical, and environmental performance. The innovative design incorporates an environmentally-sealed, EMI shielded core with a locking pivot that facilitates cable routing and eliminates the need to stock discrete straight, 45° and 90° variants of standard wire sealing, strain relief, and EMI shield termination backshells. Built to withstand the handling abuse that topside and below-deck electrical and fiber optic interconnect systems are routinely subjected to by ham-fisted sailors and marines, the BacNav OFS is purpose-designed to deliver life-of-ship and life-of-system performance and durability. Available for the broad range of power, signal, and fiber optic connector systems—including MIL-PRF-28876 and MIL-PRF-64266 (fiber optics) to MIL-DTL-28840, AS50151, and more—BacNav OFS meets every current requirement for backshell-equipped connectorized cabling.



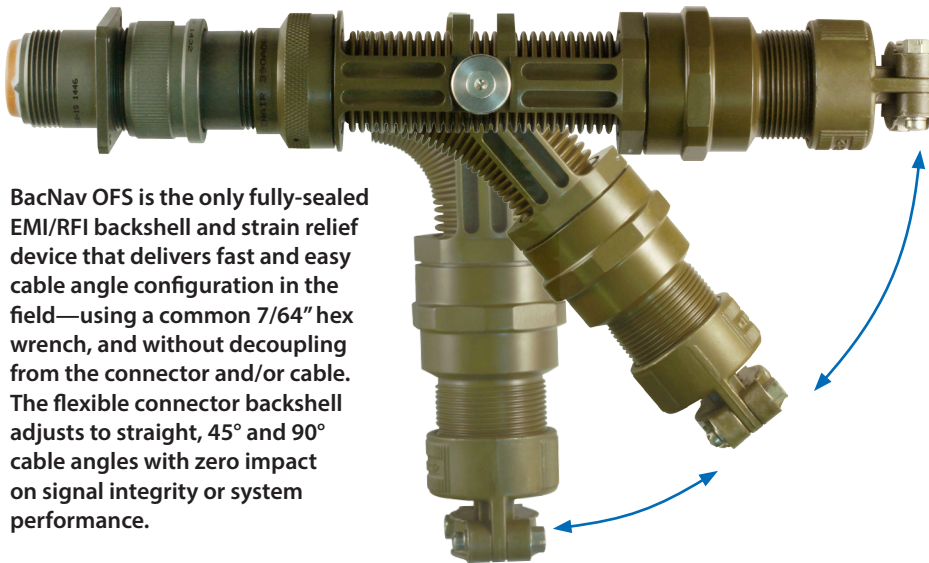
Designed for above and below deck shipboard use and other harsh environmental applications, BacNav OFS delivers submersible environmental protection for electrical and fiber optic interconnect systems.

- **Easy repositioning from straight, 45° and 90° cable-exit orientations**
- **Submersible performance without the need for shrink boots**
- **Durable, flexible EMI/RFI and environmentally-sealed core with locking-pivot Swing-Arm™ frame**
- **Accommodates power, signal and fiber optic jacketed cables**
- **Reposition terminated cables with no impact on signal integrity or system performance**
- **Easy repeatable assembly process using standard tools**

SERIES 390

BacNav OFS repositionable harsh-environment backshell

Outstanding, flexible performance



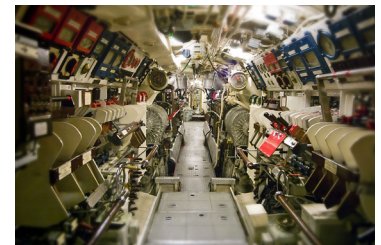
BacNav OFS is the only fully-sealed EMI/RFI backshell and strain relief device that delivers fast and easy cable angle configuration in the field—using a common 7/64" hex wrench, and without decoupling from the connector and/or cable. The flexible connector backshell adjusts to straight, 45° and 90° cable angles with zero impact on signal integrity or system performance.



Topside



Ship-to-shore



Below deck



Other harsh environments

PERFORMANCE DATA		
DESCRIPTION	REQUIREMENT	STANDARD
Magnetic permeability	Less than 2.0μ	EIA-364-54
Shell conductivity	< 2.5 milliohms ⁽²⁾	EIA 364-83
Salt spray (corrosion)	No exposure of basis material as defined in AIR4789 for 500 hours ⁽²⁾	EIA 364-26
Vibration	CIT <0.5dB No discontinuities ⁽¹⁾ No damage	MIL-STD-167-1A (SHIPS), paragraph 5.1.2.4.6 (endurance test)
Shock	CIT <0.5dB No discontinuities ⁽¹⁾ No damage	MIL-S-901D, grade A, Class 1
Water pressure	10 meters for 48 hours (IP68)	QTP-384
Cable pullout	No slippage exceeding 1/8" CIT <0.5dB ⁽¹⁾	EIA 364-38 TIA-455-6
Coupling thread strength	No damage at 3X magnification	AS85049 (Heavy Duty)
External bending moment	300-750 in-lbs (size dependant)	AS85049 (Heavy Duty) QTP-384
Fluid immersion	No changes detrimental to performance ⁽²⁾	EIA 364-10
Insertion loss	MIL-STD-1678-2 Appendix C, Table 2101 C-I	TIA-455-34 Method A
Cable seal flexing	100 cycles/axis	TIA-455-1
Twist	50 cycles • No damage/leaks	TIA-455-36
Impact	8 drops • No damage detrimental to performance	TIA-455-2 Method B
Crush	7 cycles 1,250 N (281 lbs)	TIA-455-26
Thermal Shock	5 cycles -40°C to +85°C (-40°F to +185°F)	TIA-455-71
Temp/humidity cycling	No damage detrimental to performance	TIA-455-5 Method B
Temperature cycling	No damage detrimental to performance	TIA-455-3
Life Aging	10 cycles	QTP-384-F
Freezing water immersion	No damage detrimental to performance	TIA-455-98
Sand and dust	No damage detrimental to performance	TIA-455-35
Modified SO2/salt spray	240 hours • No damage detrimental to performance ⁽²⁾	ASTM G85 + Annex A4
⁽¹⁾ Tested with MIL-PRF-28876 Multi-mode Fiber-Optic connectors		
⁽²⁾ Tested with Cadmium/Olive-Drab finish option (code NF)		



For more information
contact Glenair at
818-247-6000 or
visit our website at
www.glenair.com
U.S. CAGE code 06324

BacNav OFS backshell



For AS50151, MIL-DTL-26482 Sr. II, and
MIL-DTL-83723 Sr. I & III connectors

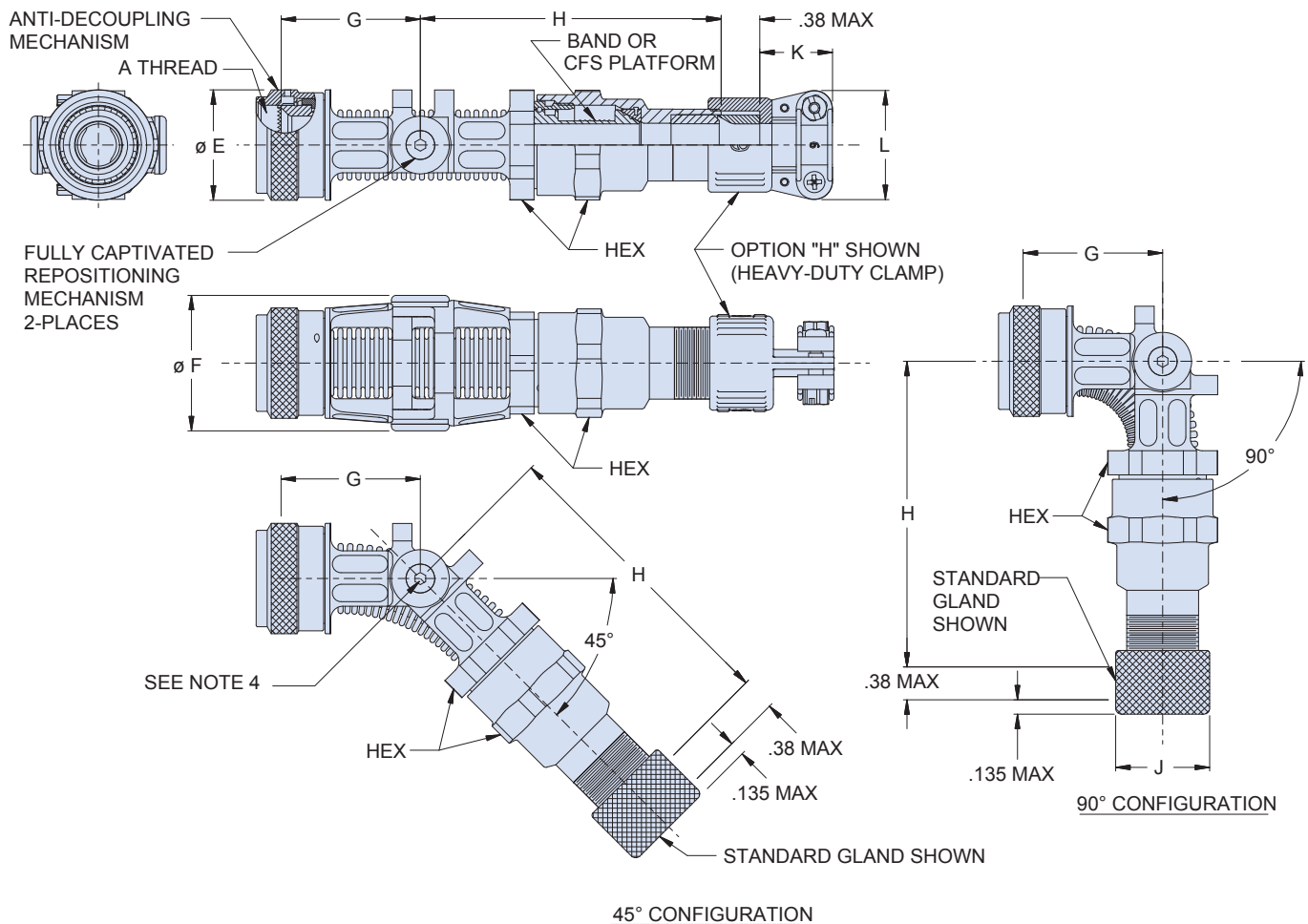
How To Order								
Sample Part Number	390	A	084	NF	14	08	H	K
Series	Series 390 backshell							
Connector Designator	A = for AS50151, MIL-DTL-83723, MIL-DTL-26482 Series II							
Basic No.	084 = BacNav OFS							
Finish	NF = Cad/Olive Drab over Electroless Nickel MT = Nickel-PTFE ZR = Dull Black RoHS Zinc-Nickel							
Shell Size Code	Table I							
Cable Entry Code	Table III							
Optional Clamp	H = with cable clamp Omit for standard gland nut							
Optional Termination Device	K = precoiled band C = constant-force spring Omit if not required							

Table I - Shell Size Code								
Code	Shell Size	A Thread Class 2B	E Max	F Max	G Max	H Max	Max Entry	Max Weight (for standard material)
10	10S, 10SL	.625-24 UNEF	0.978 (24.8)	1.399 (35.5)	1.330 (33.8)	3.000 (76.2)	04	110g
12	12S, 12	.750-20 UNEF	1.100 (27.9)	1.534 (39.0)	1.518 (38.6)	3.188 (81.0)	06	150g
14	14, 14S	.875-20 UNEF	1.228 (31.2)	1.679 (42.6)	1.705 (43.3)	3.375 (85.7)	10	190g
16	16, 16S	1.000-20 UNEF	1.350 (34.3)	1.776 (45.1)	1.893 (48.1)	3.563 (90.5)	10	230g
18	18	1.0625-18 UNEF	1.480 (37.6)	1.908 (48.5)	2.080 (52.8)	3.813 (96.9)	12	270g
20	20	1.1875-18 UNEF	1.570 (39.9)	2.006 (51.0)	2.268 (57.6)	4.000 (101.6)	12	310g
22	22	1.3125-18 UNEF	1.665 (42.3)	2.105 (53.5)	2.393 (60.8)	4.188 (106.4)	16	350g
24	24	1.4375-18 UNEF	1.800 (45.7)	2.237 (56.8)	2.580 (65.5)	4.438 (112.7)	16	390g
28	28	1.750-18 UNS	2.145 (54.5)	2.474 (62.8)	3.018 (76.7)	4.938 (125.4)	24	470g
32	32	2.000-18 UNS	2.311 (58.7)	2.672 (67.9)	3.360 (85.3)	5.375 (136.5)	28	550g

Table III - Cable Entry Code					
Code	Cable Range		J Max	K Max	L Max
	Min	Max			
03	0.156 (4.0)	0.219 (5.6)	0.630 (16.0)	N/A*	N/A*
04	0.188 (4.8)	0.312 (7.9)	0.755 (19.2)	0.780 (19.8)	0.952 (24.2)
06	0.281 (7.1)	0.438 (11.1)	0.942 (23.9)	0.780 (19.8)	1.145 (29.1)
08	0.312 (7.9)	0.531 (13.5)	1.067 (27.1)	0.780 (19.8)	1.332 (33.8)
10	0.375 (9.5)	0.625 (15.9)	1.192 (30.3)	0.780 (19.8)	1.332 (33.8)
12	0.500 (12.7)	0.750 (19.1)	1.380 (35.1)	0.811 (20.6)	1.551 (39.4)
16	0.625 (15.9)	0.938 (23.8)	1.535 (39.0)	0.905 (23.0)	1.770 (45.0)
20	0.938 (23.8)	1.250 (31.8)	1.848 (46.9)	1.092 (27.7)	2.113 (53.7)
24	1.000 (25.4)	1.375 (34.9)	2.255 (57.3)	1.124 (28.5)	2.363 (60.0)
28	1.250 (31.8)	1.625 (41.3)	2.505 (63.6)	1.399 (35.5)	2.770 (70.4)

* Size 03 not available with clamp

For AS50151, MIL-DTL-26482 Sr. II, and
MIL-DTL-83723 Sr. I & III connectors



NOTES

- Backshells are identified with Glenair name and part number, space permitting.
- For effective grounding, connector with conductive finish should be used.
- Glenair Series 600 backshell assembly tools are recommended for assembly and installation. Refer to GAP-061 for assembly procedure.
- Adjust angle using 7/64" hex wrench.
- Materials
 - Core assembly: Type 316 Stainless Steel
 - Coupling nut, frame, EMI nut, gland, clamp nut, clamps and followers: Aluminum alloy
 - Anti-decoupling device: Corrosion-resistant material
 - Hardware: Passivated 316 Stainless Steel
 - Grommet, O-rings: Fluorosilicone/Silicone

For MIL-DTL-28840 connectors with Universal Connector Adapter options

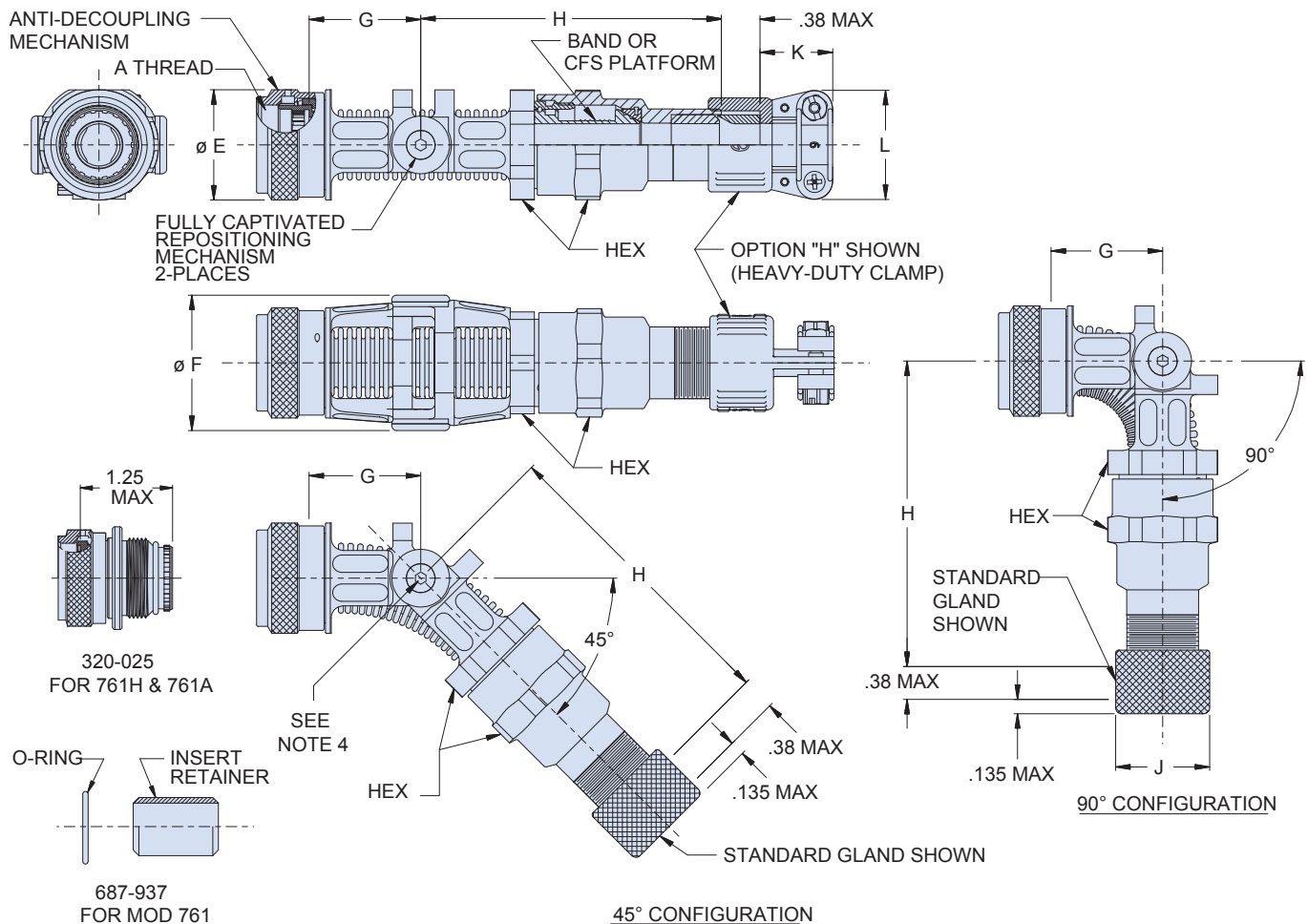
How To Order									
Sample Part Number	390	G	084	NF	14	08	H	K	-761
Series	Series 390 backshell								
Connector Interface Code	G = for MIL-DTL-28840 and MIL-PRF-28876 connectors								
Basic No.	084 = BacNav OFS								
Finish	NF = Cad/Olive Drab over Electroless Nickel MT = Nickel-PTFE ZR = Dull Black RoHS Zinc-Nickel								
Shell Size Code	Table I								
Cable Entry Code	Table III								
Optional Clamp	H = with cable clamp Omit for standard gland nut								
Optional Termination Device	K = precoiled band C = constant-force spring Omit if not required								
Mod Code	Omit = standard for MIL-DTL-28840 connector -761 = convert to MIL-PRF-28876 connector -761A = convert to AS50151 connector -761U = include all adapters (-761, -761A and -761H for D38999 Sr. III & IV, and MIL-PRF-64266 connectors)								

Table I - Order Number								
Order Number	Shell Size	A Thread Class 2B	E Max	F Max	G Max	H Max	Max Entry	Max Weight (for standard material)
11	11 [A]	3/4-20 UNEF	1.058 (26.9)	1.399 (35.5)	1.000 (25.4)	3.000 (76.2)	04	110g
13	13 [B]	7/8-20 UNEF	1.180 (30.0)	1.534 (39.0)	1.188 (30.2)	3.188 (81.0)	06	150g
15	15 [C]	1-20 UNEF	1.308 (33.2)	1.679 (42.6)	1.375 (34.9)	3.375 (85.7)	10	190g
17	17 [D]	1 1/8-18 UNEF	1.430 (36.3)	1.776 (45.1)	1.563 (39.7)	3.563 (90.5)	10	230g
19	19 [E]	1 1/4-18 UNEF	1.560 (39.6)	1.908 (48.5)	1.750 (44.5)	3.813 (96.9)	12	270g
23	23 [F]	1 7/16-18 UNEF	1.745 (44.3)	2.105 (53.5)	2.062 (52.4)	4.188 (106.4)	12	350g
25	25 [G]	1 9/16-18 UNEF	1.880 (47.8)	2.237 (56.8)	2.250 (57.2)	4.438 (112.7)	16	390g
29	29 [H]	1 7/8-16 UN	2.225 (56.5)	2.474 (62.8)	2.688 (68.3)	4.938 (125.4)	16	470g
33	33 [J]	2 1/16-16 UNS	2.391 (60.7)	2.672 (67.9)	3.031 (77.0)	5.375 (136.5)	24	550g

Table III - Dash No.					
Dash No.	Cable Range		J Max	K Max	L Max
	Min	Max			
03	0.156 (4.0)	0.219 (5.6)	0.630 (16.0)	N/A*	N/A*
04	0.188 (4.8)	0.312 (7.9)	0.755 (19.2)	0.780 (19.8)	0.952 (24.2)
06	0.281 (7.1)	0.438 (11.1)	0.942 (23.9)	0.780 (19.8)	1.145 (29.1)
08	0.312 (7.9)	0.531 (13.5)	1.067 (27.1)	0.780 (19.8)	1.332 (33.8)
10	0.375 (9.5)	0.625 (15.9)	1.192 (30.3)	0.780 (19.8)	1.332 (33.8)
12	0.500 (12.7)	0.750 (19.1)	1.380 (35.1)	0.811 (20.6)	1.551 (39.4)
16	0.625 (15.9)	0.938 (23.8)	1.535 (39.0)	0.905 (23.0)	1.770 (45.0)
20	0.938 (23.8)	1.250 (31.8)	1.848 (46.9)	1.092 (27.7)	2.113 (53.7)
24	1.000 (25.4)	1.375 (34.9)	2.255 (57.3)	1.124 (28.5)	2.363 (60.0)
28	1.250 (31.8)	1.625 (41.3)	2.505 (63.6)	1.399 (35.5)	2.770 (70.4)

* Size 03 not available with clamp

For MIL-DTL-28840 connectors
with Universal Connector Adapter options



NOTES

- Backshells are identified with Glenair name and part number, space permitting.
- For effective grounding, connector with conductive finish should be used.
- Glenair Series 600 backshell assembly tools are recommended for assembly and installation. Refer to GAP-061 for assembly procedure.
- Adjust angle using 7/64" hex wrench.
- Materials
 - Core assembly: Type 316 Stainless Steel
 - Coupling nut, frame, EMI nut, gland, clamp nut, clamps and followers: Aluminum alloy
 - Anti-decoupling device: Corrosion-resistant material
 - Hardware: Passivated 316 Stainless Steel
 - Grommet, O-rings: Fluorosilicone/Silicone

For MIL-DTL-38999 Series III & IV and MIL-PRF-64266 connectors

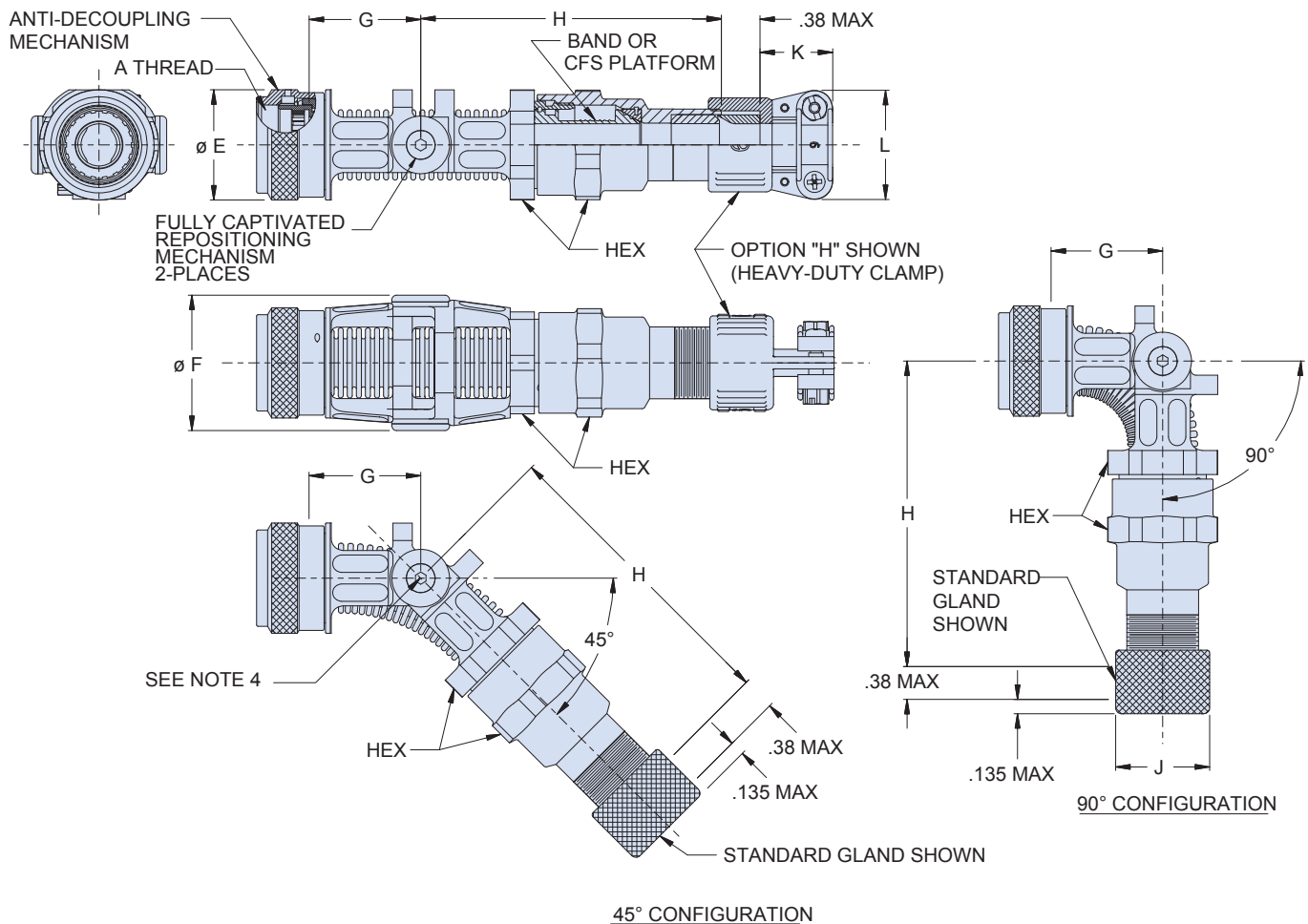
How To Order								
Sample Part Number	390	H	084	NF	14	08	H	K
Series	Series 390 backshell							
Connector Designator	H = for MIL-DTL-38999 Sr. III & IV or MIL-PRF-64266 connectors							
Basic No.	084 = BacNav OFS							
Finish	NF = Cad/Olive Drab over Electroless Nickel MT = Nickel-PTFE ZR = Dull Black RoHS Zinc-Nickel							
Shell Size Code	Table I							
Cable Entry Code	Table III							
Optional Clamp	H = with cable clamp Omit for standard gland nut							
Optional Termination Device	K = precoiled band C = constant-force spring Omit if not required							

Table I - Order Number									
Order Number	Shell Size MIL-DTL-38999	Shell Size MIL-PRF-64266	A Thread	E Max	F Max	G Max	H Max	Max Entry	Max Weight (for standard material)
9	A/09	–	M12 X 1-6H	.940 (23.9)	1.304 (33.1)	1.143 (29.0)	2.813 (71.5)	03	80g
11	B/11	B/11	M15 X 1-6H	1.060 (26.9)	1.429 (36.3)	1.330 (33.8)	3.000 (76.2)	04	110g
13	C/13	C/13	M18 X 1-6H	1.170 (29.7)	1.564 (39.7)	1.518 (38.6)	3.188 (81.0)	06	150g
15	D/15	D/15	M22 X 1-6H	1.290 (32.8)	1.709 (43.4)	1.705 (43.3)	3.375 (85.7)	10	190g
17	E/17	–	M25 X 1-6H	1.420 (36.1)	1.806 (45.9)	1.893 (48.1)	3.563 (90.5)	10	230g
19	F/19	–	M28 X 1-6H	1.540 (39.1)	1.938 (49.2)	2.080 (52.8)	3.813 (96.9)	12	270g
21	G/21	–	M31 X 1-6H	1.670 (42.4)	2.036 (51.7)	2.268 (57.6)	4.000 (101.6)	12	310g
23	H/23	H/23	M34 X 1-6H	2.010 (51.1)	2.135 (54.2)	2.393 (60.8)	4.188 (106.4)	16	350g
25	J/25	–	M37 X 1-6H	1.800 (45.7)	2.150 (54.6)	2.580 (65.5)	4.438 (112.7)	16	390g

Table III - Dash No.					
Dash No.	Cable Range		J Max	K Max	L Max
	Min	Max			
03	0.156 (4.0)	0.219 (5.6)	0.630 (16.0)	N/A*	N/A*
04	0.188 (4.8)	0.312 (7.9)	0.755 (19.2)	0.780 (19.8)	0.952 (24.2)
06	0.281 (7.1)	0.438 (11.1)	0.942 (23.9)	0.780 (19.8)	1.145 (29.1)
08	0.312 (7.9)	0.531 (13.5)	1.067 (27.1)	0.780 (19.8)	1.332 (33.8)
10	0.375 (9.5)	0.625 (15.9)	1.192 (30.3)	0.780 (19.8)	1.332 (33.8)
12	0.500 (12.7)	0.750 (19.1)	1.380 (35.1)	0.811 (20.6)	1.551 (39.4)
16	0.625 (15.9)	0.938 (23.8)	1.535 (39.0)	0.905 (23.0)	1.770 (45.0)
20	0.938 (23.8)	1.250 (31.8)	1.848 (46.9)	1.092 (27.7)	2.113 (53.7)
24	1.000 (25.4)	1.375 (34.9)	2.255 (57.3)	1.124 (28.5)	2.363 (60.0)
28	1.250 (31.8)	1.625 (41.3)	2.505 (63.6)	1.399 (35.5)	2.770 (70.4)

* Size 03 not available with clamp

For MIL-DTL-38999 Series III & IV
and MIL-PRF-64266 connectors



NOTES

1. Backshells are identified with Glenair name and part number, space permitting.
2. For effective grounding, connector with conductive finish should be used.
3. Glenair Series 600 backshell assembly tools are recommended for assembly and installation. Refer to GAP-061 for assembly procedure.
4. Adjust angle using 7/64" hex wrench.
5. Materials
 - Core assembly: Type 316 Stainless Steel
 - Coupling nut, frame, EMI nut, gland, clamp nut, clamps and followers: Aluminum alloy
 - Anti-decoupling device: Corrosion-resistant material
 - Hardware: Passivated 316 Stainless Steel
 - Grommet, O-rings: Fluorosilicone/Silicone

BacNav OFS backshell conversion adapter



Converts 390G084 backshells for use with AS50151, MIL-DTL-38999 Sr. III & IV, or MIL-PRF-64266 connectors

How To Order						
Sample Part Number	320	H	025	NF	13	13
Series	BacNav OFS backshell connector adapter					
Connector Designator	A = for AS50151 or MS3400 connectors H = for MIL-DTL-38999 Sr. III & IV or MIL-PRF-64266 connectors					
Basic No.	025					
Finish	NF = Cad/Olive Drab over Electroless Nickel MT = Nickel-PTFE ZR = Dull Black RoHS Zinc-Nickel					
Shell Size Code	Table I					
Dash No.	Table II					

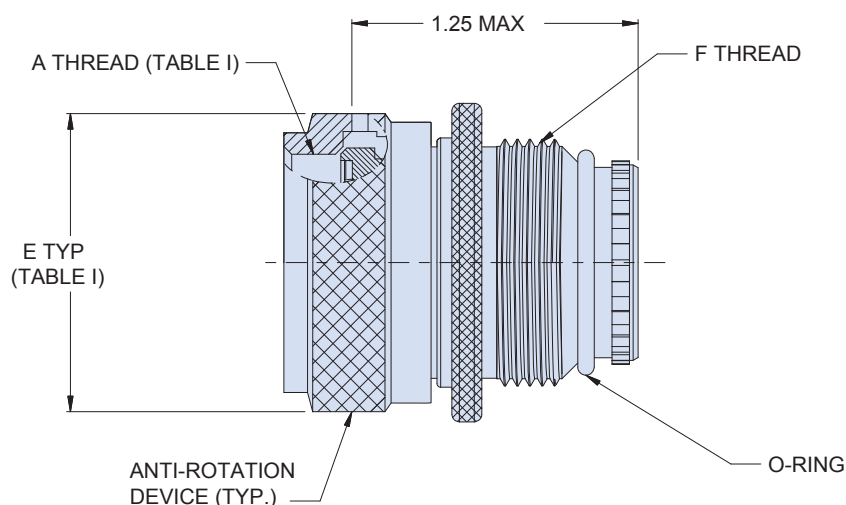


Table II - Dash No.	
Dash No.	F Thread
11	3/4 - 20 UNEF
13	7/8 - 20 UNEF
15	1 - 20 UNEF
17	1 1/8 - 18 UNEF
19	1 1/4 - 18 UNEF
23	1 7/16 - 18 UNEF
25	1 9/16 - 18 UNEF
29	1 7/8 - 16 UNEF
33	2 1/16 - 16 UN

Table I - Backshell Interface Dimensions						
Connector Designator A			Connector Designator H			
Shell Size Code	A Thread Class 2B	E Dia. Max	Shell Size Code	Ref. D38999 Shell Size	A Thread Metric	E Dia. Max
08	1/2-20 UNF	.690 (17.5)	09	09	M12 x 1 - 6H	.940 (24.8)
10	5/8-24 UNEF	.820 (20.8)	11	11	M15 x 1 - 6H	1.060 (26.9)
12	3/4-20 UNEF	.940 (23.8)	13	13	M18 x 1 - 6H	1.170 (29.7)
14	7/8-20 UNEF	1.060 (26.9)	15	15	M22 x 1 - 6H	1.290 (32.7)
16	1-20 UNEF	1.170 (29.7)	17	17	M25 x 1 - 6H	1.420 (36.1)
18	1-1/16-18 UNEF	1.290 (32.7)	19	19	M28 x 1 - 6H	1.540 (39.1)
20	1-3/16-18 UNEF	1.420 (36.1)	21	21	M31 x 1 - 6H	1.670 (42.4)
22	1-5/16-18 UNEF	1.540 (39.1)	23	23	M34 x 1 - 6H	2.010 (51.1)
24	1-7/16-18 UNEF	1.660 (42.2)	25	25	M37 x 1 - 6H	2.120 (53.8)
28	1-3/4-18 UNS	2.010 (51.1)				
32	2 - 18 UNS	2.260 (57.4)				

MATERIALS

Anti-decoupling device: Corrosion-resistant material

Adapter, coupling nut: Aluminum alloy

O-Ring: silicone

BacNav OFS backshell insert retainer



Converts 390G084 backshells for use with MIL-PRF-28876 connectors

How To Order				
Sample Part Number	687	-937	NF	13
Series	BacNav OFS backshell insert retainer			
Basic No.	-937			
Finish	NF = Cad/Olive Drab over Electroless Nickel MT = Nickel-PTFE ZR = Dull Black RoHS Zinc-Nickel			
Shell Size Code	Table III			

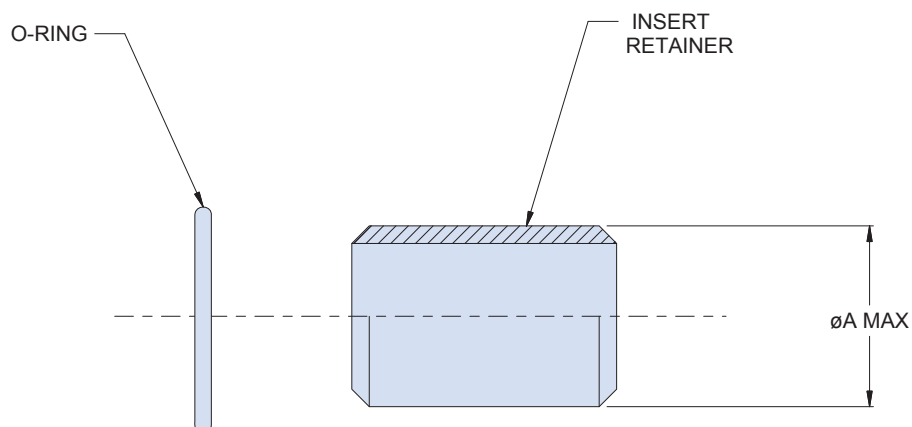


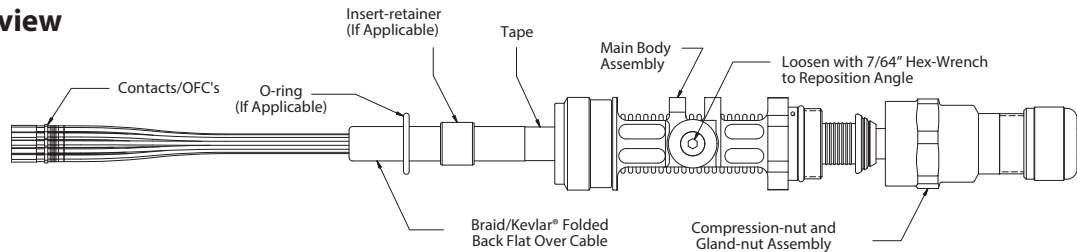
Table II - Dash No.	
Shell Size	Ø A Max
11	.412 (10.46)
13	.534 (13.56)
15	.712 (18.08)
23	1.118 (28.40)

MATERIALS

Insert retainer: Aluminum alloy
O-Ring: silicone



Assembly Overview



The Following suggested assembly procedure serves as a guide for proper assembly and installation of Glenair P/N 390G084

Step 1

Cut cable to desired length, making sure to include contact termination length and desired service loop length (Note: service loop not applicable for fiber termination.)

Step 2

Slide BacNav OFS backshell assembly onto cable-end being terminated. Slide insert-retainer and o-ring or adapter (as applicable) onto cable following the backshell. (Note: Adapter may be coupled to backshell.) Unscrew and separate intermediate compression nut and gland assembly from main body assembly. (See figure 1)

Fig. 1



Step 3

Prepare cable end for termination.

- Determine cable jacket strip length. For precise determination, it is recommended to terminate a connector using a minimum strip length, then mark the cable jacket at the required distance behind the main body assembly. Length will include contact termination length, desired service loop length (not applicable for fiber) and effective main body assembly length (includes installed adapter length if present). (See figure 2)
- Remove outer cable jacket exposing cable-shield (braid) or Kevlar® strength members (fiber-optic applications).
- Shielded electrical cable applications:** Remove any water-block material from cable-shield. Trim cable shield to 3-4 inch length (optional) then fold back flat over outer cable jacket and tape down.

Fiber-optic applications: Leave Kevlar® strength members long, fold back over outer cable jacket and tape down (See figure 3)

Fig. 2

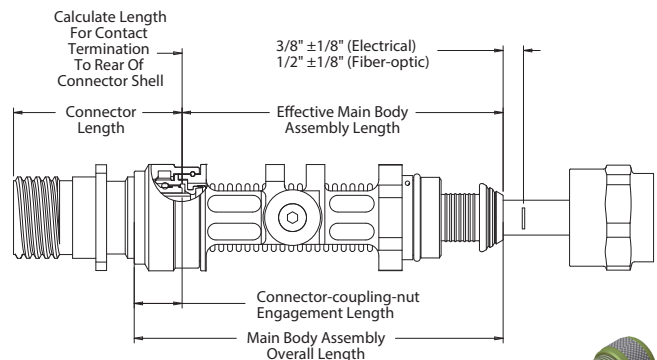
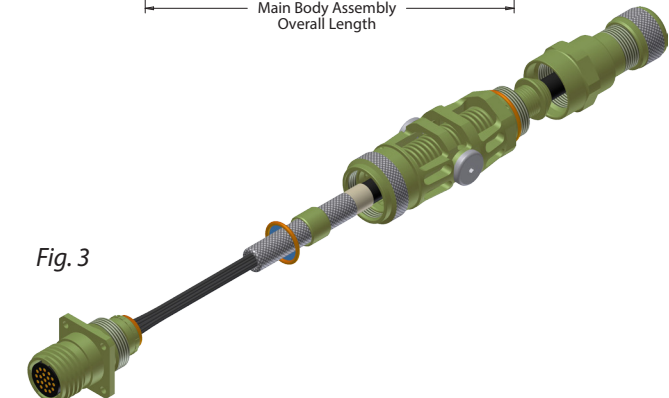


Fig. 3



Step 4

Prepare conductor/fibers and terminate contacts/OFCs according to specific connector requirements.

Step 5

Insert contacts/OFCs into connector according to specific connector requirements.

Step 6

Move backshell main body assembly (with adapter if present, or insert-retainer/o-ring if present) towards cable end to mate with connector. Position insert-retainer and o-ring if applicable, then thread backshell/adapter-to-connector coupling nut onto connector ensuring proper alignment/orientation with respect to connector master-key, and verifying proper engagement of clocking teeth or splines as the coupling nut is hand tightened. **(See Figure 4)**

Step 7

Verify cable jacket strip length, and terminate cable-shield/ Kevlar® strength members. (Refer to banding tool instructions for additional details).

Shielded electrical cable applications: End of cable jacket should measure $\frac{3}{8}'' \pm \frac{1}{8}''$ from conical end of main backshell body assembly to cable jacket (with service loop length contained inside backshell). **(See figure 2)** Un-tape cable-shield and fold forward over conical end and banding platform, ensuring even 360° distribution. Prepare termination-band and installation tool, positioning over shield in the center of the banding platform. **(See figure 5)** Complete band termination, ensuring cable jacket end remains $\frac{3}{8}'' \pm \frac{1}{8}''$ from conical end of main backshell body. **(See figure 6)**

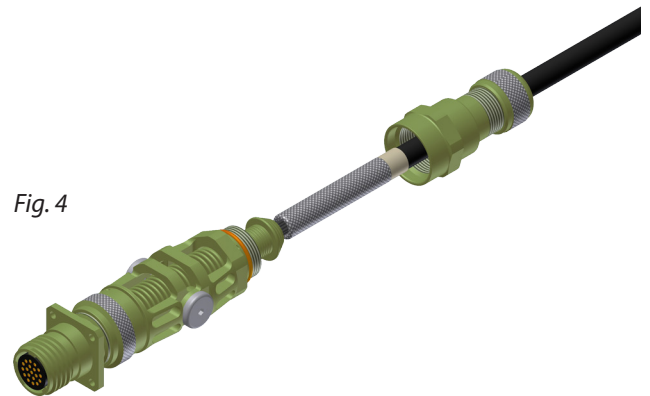


Fig. 4

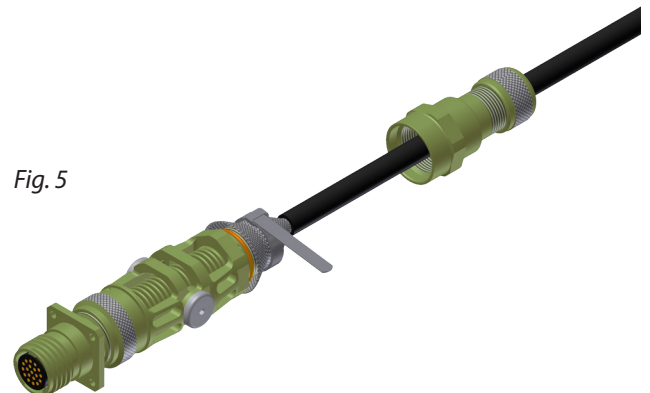


Fig. 5

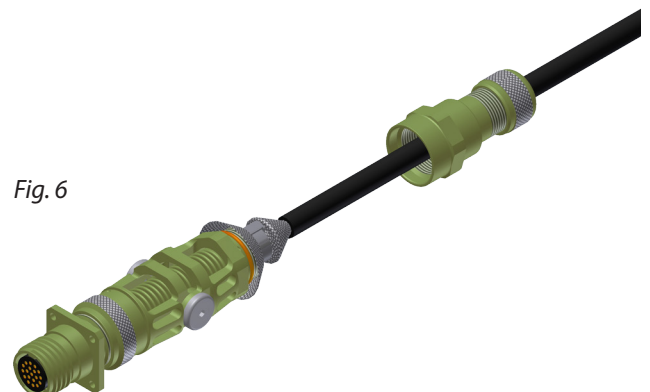


Fig. 6



Fiber-optic applications: End of cable jacket should measure $\frac{1}{2}'' \pm \frac{1}{8}''$ with fiber-optic conductors pulled taut (**See figure 2**). Un-tape Kevlar® strength members and fold forward over conical end and banding platform, ensuring even 360° distribution. Prepare termination-band and installation tool, positioning over cable jacket. Ensuring fibers are pulled taut, remove all slack from Kevlar® strength members as they are dressed forward over the main backshell body intermediate compression-nut threads. Holding Kevlar® strength members tightly around the main backshell body intermediate compression-nut threads, move band and tool into position over banding platform (**See figure 7**). Tighten termination band allowing the Kevlar® to pull the cable jacket end towards the conical end of main backshell body a minimum of $\frac{1}{4}''$ when the band is fully tightened (**See figure 8**).

IMPORTANT! This procedure ensures the Kevlar® strength member is pre-loaded and adequate fiber slack is provided inside the backshell. (**See figures 7 and 8**)

Step 8

Trim cable-shield or Kevlar® strength members to the end of the intermediate compression-nut threads. Note: If desired, some extra length of cable-shield or strength members may be tucked away in the pocket behind banding platform under the intermediate compression-nut threads. (**See figure 8**)

Step 9

Move intermediate compression nut and gland assembly into place and thread onto main body assembly. Tighten all threaded couplings including connector to adapter/backshell coupling nut, adapter to backshell coupling nut (if applicable), intermediate compression-nut, gland nut and cable clamps (if applicable) to appropriate torque values, refer to SAE AIR6151 for appropriate torque values. (**See figure 9**)

Fig. 7

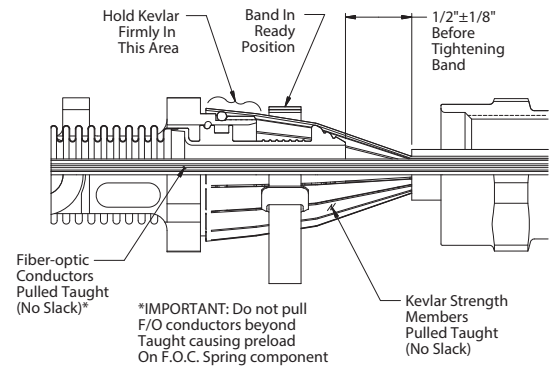


Fig. 8

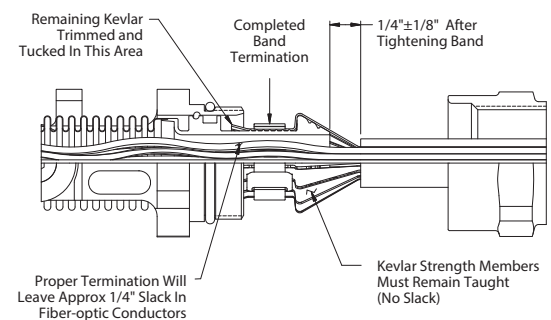


Fig. 9

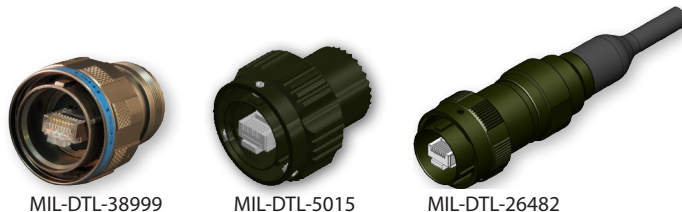




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