

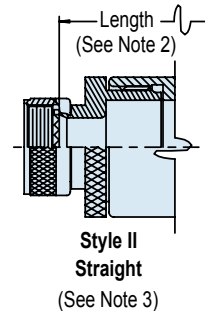
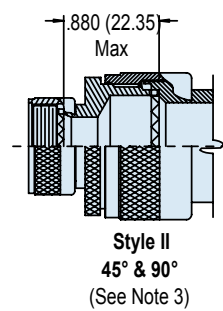
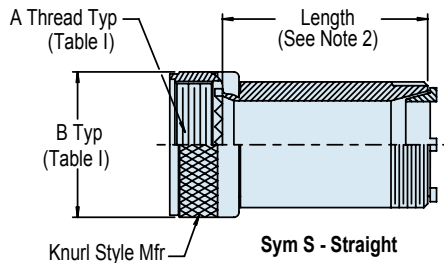
CONNECTOR DESIGNATORS

MIL-DTL-38999 Series I, II (F)
 MIL-DTL-38999 Series III and IV (H)

A-F-H-L-S

ROTATABLE COUPLING

TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

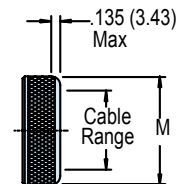


STYLE H
 Heavy Duty
 (Table VI)

STYLE A
 Medium Duty
 (Table V)

STYLE M
 Medium Duty
 (Table V)

STYLE D
 Medium Duty
 (Table V)



380-115
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type B - Rotatable Coupling - Low Profile



TABLE III: ELBOW DIMENSIONS

Shell Size			C	D	E	F	R	S	T	U
A	F,L,S	H	Max	Max	Max	Max	Max	Max	Max	Max
08	08	09	.500 (12.7)	1.684 (42.8)	.457 (11.6)	1.674 (42.5)	.910 (23.11)	1.910 (48.77)	.780 (19.81)	1.780 (45.21)
10	10	11	.595 (15.1)	1.804 (45.8)	.520 (13.2)	1.734 (44.0)	.970 (24.64)	1.970 (50.04)	.810 (20.57)	1.810 (45.97)
12	12	13	.610 (15.5)	1.824 (46.3)	.582 (14.8)	1.794 (45.6)	1.030 (26.16)	2.030 (50.56)	.830 (21.08)	1.830 (46.48)
14	14	15	.700 (17.8)	1.894 (48.1)	.645 (16.4)	1.884 (47.9)	1.090 (27.68)	2.090 (53.09)	.850 (21.59)	1.850 (46.99)
16	16	17	.885 (22.5)	1.984 (50.4)	.738 (18.7)	1.994 (50.6)	1.150 (29.21)	2.150 (54.61)	.880 (22.35)	1.880 (47.75)
18	18	19	.975 (24.8)	2.154 (54.7)	.926 (23.5)	2.184 (55.5)	1.200 (30.48)	2.200 (55.88)	.900 (22.86)	1.900 (48.26)
20	20	21	.975 (24.8)	2.154 (54.7)	.926 (23.5)	2.184 (55.5)	1.270 (32.26)	2.270 (57.66)	.930 (23.62)	1.930 (49.02)
22	22	23	1.125 (28.6)	2.264 (57.5)	1.020 (25.9)	2.334 (59.3)	1.330 (33.78)	2.330 (59.18)	.950 (24.13)	1.950 (49.53)
24	24	25	1.125 (28.6)	2.264 (57.5)	1.020 (25.9)	2.334 (59.3)	1.390 (35.31)	2.390 (60.71)	.980 (24.13)	1.980 (50.29)
28			1.225 (31.1)	2.434 (61.8)	1.145 (29.1)	2.384 (60.6)	1.460 (37.08)	2.460 (62.48)	1.150 (29.21)	2.150 (54.61)
32			1.575 (40.0)	2.684 (68.2)	1.207 (30.7)	2.484 (63.1)	1.590 (40.38)	2.590 (65.79)	1.210 (30.73)	2.210 (56.13)
36			1.775 (45.1)	2.684 (68.2)	1.238 (31.4)	2.574 (65.4)	1.690 (42.93)	2.690 (68.33)	1.240 (31.50)	2.240 (56.90)
40			N/A	N/A	N/A	N/A	1.900 (48.26)	2.200 (55.88)	1.250 (31.75)	1.590 (40.38)
44			N/A	N/A	N/A	N/A	2.030 (51.56)	2.360 (59.94)	1.300 (33.02)	1.640 (41.65)
48			N/A	N/A	N/A	N/A	2.180 (53.37)	2.530 (64.26)	1.370 (34.79)	1.720 (43.68)
61			N/A	N/A	N/A	N/A	1.290 (32.76)	1.490 (37.85)	.880 (22.35)	1.100 (27.94)

TABLE II: FINISHES

Sym	Finish
B	Cadmium Plate, Olive Drab
C*	Anodize, Black
G*	Hard Coat, Anodic
J	Gold Iridite over Cadmium Plate over Nickel
LF	Cadmium Plate, Bright over Electroless Nickel
M	Electroless Nickel
N	Cadmium Plate, Olive Drab over Nickel
NC	Zinc Cobalt, Dark Olive Drab
NF	Cad/O.D. over Electroless Nickel (1000 Hr. Salt Spray)
T	Cadmium Plate, Bright Dip over Nickel
U**	Cadmium Plate, Black
UC	Zinc Cobalt, Black
Z1**	Passivate
ZN	Zinc Nickel, Olive Drab

TABLE IV: CABLE CLAMP CABLE RANGE

Dash No.	N Max	P Max	Cable Range	
			Min	Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE V: CABLE CLAMP CABLE RANGE

Dash No.	J Max	K Max	L Max	M Max	Cable Range	
					Min**	Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

APPLICATION NOTES

- Assembly identified with manufacturer's name and part number, space permitting.
- Standard minimum length for Style I is 1.500 inches, Style II standard length is 2.000 inches. For shorter lengths consult factory. Applies to Symbol S only.
- When cable range exceeds Max Entry shown in Table IV, Style II will be supplied. Note: C, D, E, F, R, S, T and U dimensions do not apply to Style II.
- Metric dimensions are in parentheses.
- For effective grounding, connector with conductive finish should be used.
- Glenair Series 600 Backshell Assembly Tools are recommended for assembly and installation.
- Material/Finish:
Elbow, adapter, coupling nut, ferrules and clamp - Aluminum alloy or SST/Table II.
Hardware - CRES/Passivate
- Angular functions A and B are currently not available in shell sizes 40, 44 and 61. Consult factory for suitable alternatives.

TABLE I - BACKSHELL INTERFACE DIMENSIONS

CONNECTOR DESIGNATOR											A THREAD*	B	C	D	E
A	C*	D	E	F	G	H	J	K	L	S	REFERENCE	DIA MAX	DIA MAX	DIA MAX	DIA MAX
		08	08	08 [9]				08	08	08	7/16 - 28 UNEF	.590 (15.)	.650 (16.5)	.770 (19.6)	.690 (17.5)
						09 [A]					M12 x 1 - 6H	.650 (16.5)	.770 (19.6)		.940 (24.8)
08							08 [A]	10			1/2 - 20 UNF	.650 (16.5)	.650 (16.5)		.690 (17.5)
											1/2 - 28 UNEF	.650 (16.5)	.770 (19.6)	.770 (19.6)	
03		10	10	10 [11]							9/16 - 24 UNEF	.720 (18.3)	.770 (19.6)	.890 (22.6)	.820 (20.8)
						11 [B]					M15 x 1 - 6H	.770 (19.6)	.820 (20.8)		1.060 (26.9)
10								12 [13]			5/8 - 24 UNEF	.770 (19.6)	.770 (19.6)	.890 (22.6)	.820 (20.8)
								10 [B]			5/8 - 28 UN	.770 (19.6)	.890 (22.6)		
		12		12 [13]							11/16 - 24 UNEF	.840 (21.3)	.890 (22.6)	1.020 (25.9)	.940 (23.8)
						13 [C]					M18 x 1 - 6H	.890 (22.6)	.940 (23.9)		1.170 (29.7)
12 [7]	12		12		11 [A]			14 [15]			3/4 - 20 UNEF	.970 (24.6)	.940 (23.9)	1.020 (25.9)	.940 (23.8)
		14	14	14 [15]							13/16 - 20 UNEF	.970 (24.6)	1.020 (29.2)	1.150 (29.2)	1.060 (26.9)
						15 [D]					M22 x 1 - 6H	1.030 (26.2)	1.070 (26.2)		1.290 (32.7)
14 [12]	14				13 [B]			16 [17]			7/8 - 20 UNEF	1.090 (27.7)	1.020 (25.9)	1.150 (29.2)	1.060 (26.9)
								14 [D]			7/8 - 28 UN	1.030 (26.2)	1.150 (29.2)		
		16	16	16 [17]							15/16 - 20 UNEF	1.090 (27.7)	1.150 (29.2)	1.260 (32.0)	1.170 (29.7)
						17 [E]					M25 x 1 - 6H	1.150 (29.2)	1.210 (30.7)		1.420 (36.1)
16 [19]	16				15 [C]			18			1 - 20 UNEF	1.220 (29.2)	1.210 (30.7)	1.230 (31.2)	1.170 (29.7)
								16 [E]			1 - 28 UN	1.150 (29.2)	1.360 (34.5)		
18 [27]		18	18	18 [19]					18	18	1 1/16 - 18 UNEF	1.220 (31.0)	1.230 (31.2)	1.400 (35.6)	1.290 (32.7)
						19 [F]					M28 x 1 - 6H	1.280 (32.5)	1.360 (34.5)		1.540 (39.1)
	18				17 [D]			20			1 1/8 - 18 UNEF	1.340 (34.0)	1.360 (34.5)	1.360 (34.5)	
								18 [F]			1 1/8 - 28 UN	1.280 (32.5)	1.480 (37.6)		
20 [37]		20	20	20 [21]					20	20	1 3/16 - 18 UNEF	1.340 (34.0)	1.360 (34.5)	1.530 (38.9)	1.420 (36.0)
						21 [G]					M31 x 1 - 6H	1.410 (35.8)	1.480 (37.6)		1.670 (42.4)
	20				19 [E]			22			1 1/4 - 18 UNEF	1.470 (37.3)	1.530 (38.9)	1.480 (37.6)	
								20 [G]			1 1/4 - 28 UN	1.410 (35.8)	1.600 (40.6)		
22		22	22	22 [23]					22	22	1 5/16 - 18 UNEF	1.470 (37.3)	1.480 (37.6)	1.600 (40.6)	1.540 (39.1)
						23 [H]					M34 x 1 - 6H	1.530 (38.9)	1.600 (40.6)		2.010 (51.1)
	22							24			1 3/8 - 18 UNEF	1.590 (40.4)		1.600 (40.6)	
								22 [H]			1 3/8 - 28 UN	1.530 (38.9)	1.730 (43.9)		
24		24	24	24 [25]	23 [F]				24	24	1 7/16 - 18 UNEF	1.590 (40.4)	1.730 (43.9)	1.940 (49.3)	1.660 (42.2)
						25 [J]					M37 x 1 - 6H	1.660 (42.2)	1.700 (43.2)		2.120 (53.8)
61								24 [J]			1 1/2 - 18 UNEF	1.660 (42.2)	1.670 (42.4)		
											1 1/2 - 28 UN	1.660 (42.2)	1.940 (49.3)		
					25 [G]						1 9/16 - UNEF		1.820 (46.2)		
	24							28			1 5/8 - UNEF	1.840 (46.7)		1.940 (49.3)	
28											1 3/4 - 18 UNS	1.970 (50.0)	1.970 (50.0)		2.010 (51.1)
	28				29 [H]			32			1 7/8 - 16 UN	2.090 (53.1)	2.190 (55.6)	2.190 (55.6)	
32											2 - 18 UNS	2.280 (57.9)	2.220 (56.4)		2.260 (57.4)
	32				33 [J]						2 1/16 - 16 UNS	2.340 (59.4)	2.440 (62.0)	2.440 (62.0)	
								36			2 1/8 - 16 UN	2.340 (59.4)		2.440 (62.0)	
36											2 1/4 - 16 UN	2.530 (64.3)	2.47 (62.7)		2.530 (64.3)
	36										2 5/16 - 16 UNS	2.590 (65.8)		2.690 (68.3)	
								40			2 3/8 - 16 UN	2.590 (65.8)		2.690 (68.3)	
40											2 1/2 - 16 UN	2.780 (70.6)	2.720 (69.1)		3.040 (77.2)
	40										2 5/8 - 16 UN	2.910 (73.9)		2.930 (74.4)	
44											2 3/4 - 16 UN	3.030 (77.0)	2.970 (75.4)		
	44										2 7/8 - 16 UN	3.160 (80.3)			
48											3 - 16 UN	3.220 (81.8)	3.220 (81.8)		
	48										3 1/16 - 16 UN	3.410 (86.6)			

* Code C, MIL-C-22992, Left-Hand Thread. Connector designations depicted thus [] are for reference only and are not to be used in part number development.

BACKSHELL INTERFACE STANDARDS (See pages 15-17 for more information)

DESIG. SPEC.	SERIES	DESIG. SPEC.	SERIES	DESIG. SPEC.	SERIES	DESIG. SPEC.	SERIES
A	MIL-DTL-5015 MS3400	A	PATT 602	G	MIL-C-28840	L	EN3372
	MIL-DTL-26482 2	B	MIL-DTL-5015 MS3100	H	MIL-DTL-38999 III & IV		JN 1003
	AS81703 3	C	MIL-C-22992 MS173XX		EN3645		LN 29729
	MIL-DTL-83723 I & III	D	MIL-DTL-26482 1	J	MIL-C-81511 1, 2, 3 & 4		NFC93422
	40M39569	E	MIL-DTL-26500 Aluminum	K	VG95329		PAN 6433-2
	DEF 5326-3	F	MIL-DTL-38999 I & II		MIL-DTL-83723 I		PATT 615
	EN 2997, 3646		40M38277				VG 96912
	ESC 10, 11		PAN 6433-1			S	PATT 105
	LN 29504		PATT 614				PATT 603
	NFC93422 HE302		PATT 616				PATT 608
	PAN 6432-1, -2		NFC93422 HE308, 9				



Reference Information Standard Materials and Finishes

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	M85049 SYMBOL REFERENCE ONLY	FINISH	SPECIFICATION(S)
A		Cadmium Plate, Bright	AMS-QQ-P-416, Type I, Class 2
B		Cadmium Plate, Olive Drab	AMS-QQ-P-416, Type II, Class 3
C*	A	Anodize, Black	AMS-A-8625, Type II, Class 2
G*		Hard Coat, Anodic	AMS-A-8625, Type III, Class 1
J		Iridite, Gold Over Cadmium Plate Over Electroless Nickel	MIL-C-5541, Class 3 AMS-QQ-P-416, Type II, Class 3 over AMS-C-26074, Class 4, Grade B
LF		Cadmium Plate, Bright Over Electroless Nickel	1000 Hour Corrosion Resistance
M	N	Electroless Nickel	AMS-C-26074, Class 4, Grade B
N		Cadmium Plate, Olive Drab Over Electroless Nickel	AMS-QQ-P-416, Type II, Class 3 over Electroless Nickel AMS-C-26074
NC		Zinc Cobalt, Dark Olive Drab	96 Hour Corrosion Resistance
NF	W	Cadmium Plate, Olive Drab Over Electroless Nickel	1000 Hour Corrosion Resistance
T		Cadmium Plate, Bright Over Electroless Nickel	AMS-QQ-P-416, Type I, Class 3 ASTMB 733-90, SC2, Type I, Class 5, MIL-C-26074***
U		Cadmium Plate, Black	AMS-QQ-P-416, Type II, Class 3
ZU**		Cadmium Plate, Black	AMS-QQ-P-416, Type II, Class 3
ZN		Zinc-Nickel Alloy, Olive Drab	ASTMB 841-91, Over Electroless Nickel 1000 Hour Salt Spray

* Anodize finish; not suitable for EMI Shielding or grounding applications.
 ** Applicable to corrosion resisting steel backshells and accessories. Consult factory for other available finishes.

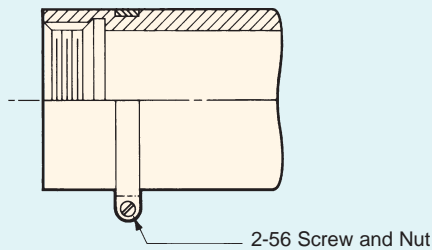
The following standard materials are used for the majority of Glenair backshells and connector accessories. However, backshell components are not limited to those items listed, but are representative of the elements used in Glenair's general accessory products. Contact Glenair for applicable specifications on items not listed below.

STANDARD MATERIALS - BACKSHELLS AND ACCESSORIES

COMPONENT	MATERIAL	SPECIFICATION
Machined components: such as backshell bodies, fabricated elbows, protective covers, rotatable couplers, dummy stowage receptacles, lock nuts, G-spring support rings, EMI ground rings, grommet followers, etc.	Aluminum	AMS-QQ-A-200 ASTMB221, 209
Die cast components: such as angular backshells, strain relief backshells, strain relief bodies, strain relief saddles, special EMI ground rings, etc.	Aluminum	QQ-A-591 ASTMB85, 26
Backshells or strain reliefs: available in optional corrosion resisting steel; and hardware: such as screws, washers, rivets, wire rope, sash chain, band straps, etc.	Corrosion Resisting Steel	ASTMA582 (300 Series) AMS-QQ-S-763
Elastomeric seals: such as O-rings, cable jacket seals, grommets, etc.	Silicone	ZZ-R-765, MIL-R-25988
Anti-friction and thrust washers	Teflon	TFE
Anti-rotation device	Corrosion Resistant Material	N/A

BODY STRAP

Glenair offers an optional stainless steel body strap for attaching protective covers as illustrated. To specify body strap, add suffix letter C to the end of the part number. For example 360AS001M1610M6C.



NOTES

On all length callouts, tolerance is $\pm .060$ unless otherwise specified.

Unless otherwise specified, the following other dimensional tolerances will apply:

- .xx = $\pm .03$ (0.8)
- .xxx = $\pm .015$ (0.4)
- Lengths = $\pm .060$ (1.52)
- Angles = $\pm 5^\circ$

Metric dimensions (mm) are indicated in parentheses

NOTE: For your convenience these tables have been reproduced inside the back cover fold-out.

Glenair Backshell and Accessory Material and Finish Options

Backshell and accessory base materials, plating options, specifications and codes

Code	Material	Finish	Finish Specification
A	Aluminum	Cadmium, No Chromate	SAE-AMS-QQ-P-416 Type I Class 3
AB	Marine Bronze	Unplated	
AL	Aluminum	AlumiPlate, Clear Chromate	MIL-DTL-83488, Class 2, Type II over electroless nickel
B	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 3
C	Aluminum	Anodize, Black	AMS-A-8625 Type II Class 2
E	Aluminum	Chem Film	MIL-DTL-5541 Type 1 Class 3
G	Aluminum	Anodize, Hardcoat	AMS-A-8625 Type III, Class 1, .001" thick
J	Aluminum	Cadmium, Gold	SAE-AMS-QQ-P-416 Type II, Class 2 over electroless nickel
JF	Aluminum	Cadmium, Gold	SAE-AMS-QQ-P-416 Type II, Class 2 over electroless nickel
LF	Aluminum	Cadmium, Clear	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel
M	Aluminum	Electroless Nickel	AMS-C-26074 Class 4 Grade B; ASTM-B-733, SC 2, Type IV
MT	Aluminum	Nickel-PTFE	GMF-002 Type II Class 1
N	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 3 over electroless nickel
NC	Aluminum	Zinc-Cobalt, Olive Drab	ASTM B 840 Grade 6 Type D over electroless nickel
NF	Aluminum	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel
P	Stainless Steel	Electrodeposited Nickel	SAE-AMS-QQ-N-290 Class 1 Grade F
T	Aluminum	Cadmium, No Chromate	SAE-AMS-QQ-P-416 Type I Class 3
TP2	Titanium	Electrodeposited Nickel	SAE-AMS-QQ-N-290 Class 1 Grade F
U	Aluminum	Cadmium, Black	SAE-AMS-QQ-P-416 Type I Class 3
UC	Aluminum	Zinc-Cobalt, Black	ASTM B 840 Grade 6 Type D over electroless nickel
UCR	Aluminum	Zinc-Cobalt, Black	ASTM B 840 Grade 6 Type D over electroless nickel
UF	Aluminum	Cadmium, Black	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel
XAL	Composite	AlumiPlate	MIL-DTL-86448, Class 2, Type II over electroless nickel
XB	Composite	Unplated Black	
XM	Composite	Electroless Nickel	AMS-C-26074
XMT	Composite	Nickel-PTFE	GMS-002 Class 2 Type II
XO	Composite	Unplated Light Brown	
XW	Composite	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 3 over electroless nickel
XZN	Composite	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel
Z1	Stainless Steel	Passivate	SAE-AMS-SAE-AMS-QQ-P-35 Type VI
Z2	Aluminum	Gold	MIL-DTL-45204 Class 1 over electroless nickel
ZC	Stainless Steel	Zinc-Cobalt, Black	ASTM-B840, Grade 6
ZCR	Stainless Steel	Zinc-Cobalt, Black	ASTM-B840, Grade 6
ZL	Stainless Steel	Electrodeposited Nickel	SAE-AMS-QQ-N-290 Class 1 Grade F
ZM	Stainless Steel	Electroless Nickel	AMS-C-26074 Class 1 Grade A
ZMT	Stainless Steel	Nickel-PTFE	GMF-002 Type II Class 3
ZN	Aluminum	Zinc-Nickel, Olive Drab	ASTM B841 Grade 5 over electroless nickel
ZNU	Aluminum	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel
ZR	Aluminum	Zinc-Nickel, Black	ASTM B841 Grade 5 over electroless nickel
ZU	Stainless Steel	Cadmium, Black	SAE-AMS-QQ-P-416 Type II Class 3
ZW	Stainless Steel	Cadmium, Olive Drab	SAE-AMS-QQ-P-416 Type II Class 2 over electroless nickel

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