

MIL-DTL-38999 Series III Type

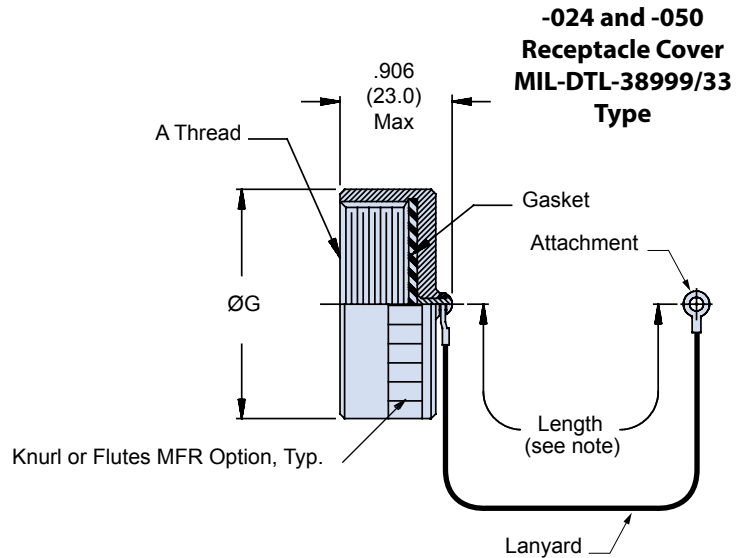
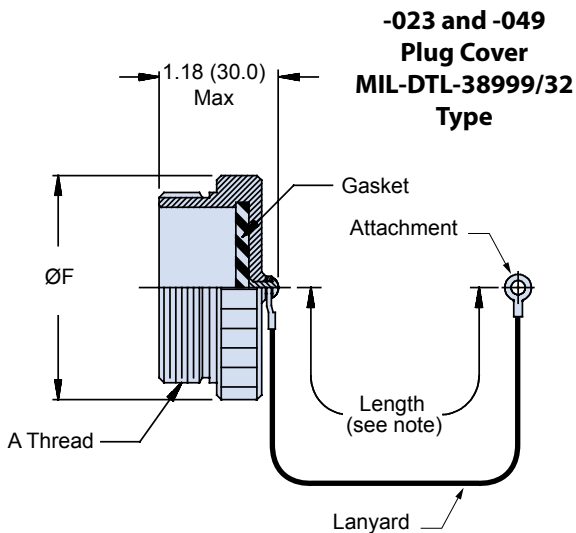
660-023, -024/660-049, -050 metal and composite covers

FIBER OPTIC CONNECTORS



MIL-DTL-38999 SERIES III TYPE METAL AND COMPOSITE PROTECTIVE COVERS

PART NUMBER DEVELOPMENT							
Sample Part Number	660	-023	M	17	H	5	-01
Product Series	Series 66						
Cover Type	-023 = Metal Plug Cover -024 = Metal Receptacle Cover -049 = Composite Plug Cover -050 = Composite Receptacle Cover						
Material/Finish	See Material/Finish Table						
Shell Size	See Dimensions Table						
Lanyard Type	D = Bead Chain, CRES, Passivated F = Wire Rope, Nylon Jacket G = Nylon Rope, Black H = Wire Rope, Teflon Jacket K = Nylon Rope, Olive Drab N = No Lanyard R = Wire Rope, PVC Jacket S = #8 Sash Chain, CRES, Passivated SK = Nylon Rope (Black) w/Slip Knot T = Wire Rope, No Jacket U = Wire Rope, Polyurethane Jacket						
Attachment Length	Length in Inches; I.E. 5 = 5 inches						
Attachment Dash No.	See Table I, II, III, or IV; omit for "SK" slip knot attachment						



NOTES

1. Length tolerance for sash chain (s) is ± 1 link, for all other attachments $\pm .25$.
2. Material/Finish
 - Cover: see material/finish table
 - Gasket: silicone
 - Hardware, rivet: stainless steel/passivate

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DIMENSIONS			
Shell Size	A Thread	Ø F Max	Ø G Max
09	.6250 - 0.1P-0.3L-TS	0.906 (23.0)	.906 (23.0)
11	.7500 - 0.1P-0.3L-TS	1.024 (26.0)	1.102 (28.0)
13	.8750 - 0.1P-0.3L-TS	1.220 (31.0)	1.220 (31.0)
15	1.0000 - 0.1P-0.3L-TS	1.300 (33.0)	1.260 (32.0)
17	1.1875 - 0.1P-0.3L-TS	1.457 (37.0)	1.457 (37.0)
19	1.2500 - 0.1P-0.3L-TS	1.575 (40.0)	1.535 (39.0)
21	1.3750 - 0.1P-0.3L-TS	1.732 (44.0)	1.654 (42.0)
23	1.5000 - 0.1P-0.3L-TS	1.811 (46.0)	1.772 (45.0)
25	1.6250 - 0.1P-0.3L-TS	1.969 (50.0)	1.929 (49.0)

MATERIAL AND FINISH		
Code	Material	Finish Description
C	Aluminum Alloy	Anodize, Black
G		Anodize, Hardcoat
M		Electroless Nickel
MT		Nickel-PTFE, Grey
NF		Cadmium, Olive Drab
ZN		Zinc-Nickel, Olive Drab
ZNU		Zinc-Nickel, Black
ZI	Stainless Steel	Passivate
ZL		Electrodeposited Nickel
XM	Composite	Electroless Nickel
XW		Cadmium, Olive Drab
XB		No Plating, Black

AVAILABLE LANYARD TYPES (SHOWN WITH OPTIONAL EYELET ATTACHMENT, SEE LANYARD CODE TABLE FOR LANYARD STYLE)		
Bead Chain (Type D)	Sash Chain (Type S)	Rope (Types F, G, H, K, R, T, U)

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Metal and composite covers • attachment options

FIBER OPTIC CONNECTORS

ATTACHING A COVER TO A JAM NUT RECEPTACLE WITH A SOLID RING (STYLE A)

Dash No.	$\text{Ø N} \pm .015$	180-091 Shell Size
106	.896 (22.8)	11
107	1.016 (25.9)	13
108	1.141 (29.0)	15
109	1.266 (32.3)	17
110	1.391 (35.3)	19
111	1.521 (38.6)	21
112	1.641 (41.7)	23
113	1.766 (45.0)	25

Solid Ring - Style A

NOTES

- Solid ring style A dash numbers and shell sizes shown are for Glenair 180-091 fiber optic connectors only. Consult factory for additional sizes.

ATTACHING A COVER TO A CABLE ASSEMBLY WITH A SOLID RING (STYLE B)

Dash No.	$\text{Ø M} \pm .015$	180-091 Shell Size
10	.593 (15.1)	11
12	.718 (18.2)	13
15	.890 (22.6)	15
17	1.015 (25.9)	17
19	1.140 (29.0)	19
21	1.265 (32.3)	21
22	1.343 (34.0)	23
24	1.484 (37.6)	25

Solid Ring - Style B

NOTES

- Solid ring style B dash numbers and shell sizes shown are for Glenair 180-091 fiber optic connectors only. Consult factory for additional sizes.

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Metal and composite covers • attachment options

ATTACHING A COVER TO A CABLE USING A SPLIT RING OR SLIP KNOT

**Split Ring
Style C**

**Slip Knot
(Type SK)**

TABLE III: SPLIT RING STYLE C			
Dash No.	Ø L ± .015	Dash No.	Ø L ± .015
50	.425 (10.8)	74	1.625 (41.4)
52	.485 (12.3)	76	1.750 (44.5)
54	.640 (16.3)	78	1.875 (47.8)
56	.750 (19.1)	80	1.980 (50.3)
58	.890 (22.6)	82	2.060 (52.3)
60	1.015 (25.9)	84	2.235 (56.9)
62	1.095 (27.9)	86	2.310 (58.7)
64	1.130 (28.7)	88	2.475 (63.0)
66	1.250 (31.8)	90	2.655 (67.6)
68	1.350 (34.3)	92	2.810 (71.4)
70	1.375 (35.1)	94	3.045 (77.5)
72	1.485 (37.8)		

ATTACHING A RECEPTACLE COVER TO A PANEL WITH A SCREW

Eyelet - Style D

TABLE IV: EYELET STYLE D		
Dash No.	Ø K ± .015	180-091 Shell Size
01	.140 (3.56)	
02	.182 (4.62)	
03	.191 (4.85)	
04	.197 (5.00)	
05	.167 (4.24)	
06	.125 (3.18)	11 thru 21
07	.218 (5.53)	
09	.156 (3.96)	23 thru 25
00	No Eyelet	

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