MIL-DTL-26482 Hermetic Series II Type

230-018 Bayonet Coupling Solder Flange Mount Receptacle MS3443 Type

HOW TO ORDER						
Sample Part Number	**230-018**	**FT**	**10**	**-6**	**P**	**X**

Series / Basic Part No.	**230-018** = Solder Flange Mount Receptacle
Material/Finish	**Z1** = Stainless Steel/Passivated **ZL** = Stainless Steel/Nickel Plated **FT** = C1215 StainlessSteel/Tin Plated (See Note 2)
Shell Size - Layout	Shell Sizes: **8**, **10**, **12**, **14**, **16**, **18**, **20**, **22**, **24** Layout per MIL-STD-1669; see Shell Size - Insert Layout table
Contact Type	**P** = Pin, Solder Cup **S** = Socket, Solder Cup **X** = Pin, Eyelet **Z** = Socket, Eyelet
Alt. Polarization	**W, X, Y, Z, Omit** for normal

Shell Size

Insert Arrangement

HERMETIC LEAK RATE MOD CODES	
Designator	**Required Leak Rate**
-585A	1 x 10^{-10} cc Helium per second
-585B	1 x 10^{-9} cc Helium per second
-585C	1 x 10^{-8} cc Helium per second

NOTES

1. To be identified with manufacturer's name, part number and date code, space permitting.
2. Material/Finish:
   - Shell: per part number development Titanium and Inconel® available. Consult factory.
   - Contacts: 52 Nickel alloy/gold plate.
   - Sockets: copper alloy, gold plated.
   - Bayonets: stainless steel/passivate.
   - Seals: silicone elastomer
   - Insulation: glass
     Socket: rigid dielectric
3. Performance
   - Hermeticity: <1 x 10^{-7} cc/sec @ 1 atm differential.
   - Dielectric withstanding voltage: Consult factory or MIL-STD-1669.
   - Insulation resistance: 5000 megohms min @500VDC.
4. Consult factory and/or MIL-STD-1669 for arrangement and insert position options.
5. Glenair 230-018 will mate with any QPL MIL-DTL-26482 Series II bayonet coupling plug of same size and insert polarization.

SHELL SIZE - INSERT LAYOUT

Shell Size - Layout	Size / Quantity			Shell Size - Layout	Size / Quantity			Shell Size - Layout	Size / Quantity			Shell Size - Layout	Size / Quantity		
	20	16	12		20	16	12		20	16	12		20	16	12
8-2	2			14-9	5		4	18-11		11		22-19			19
8-3	3			14-12	8	4		18-30	29	1		22-21		21	
8-4	4			14-15	14	1		18-32	32			22-32	32		
8-33	3			14-18	18			18-85	5		8	22-34	34		
8-98	3			14-19	19			20-16		16		22-41	27	14	
10-6	6			14-22	1		4	20-24	24			22-55	55		
10-98	6			16-8		8		20-27	27			22-95	26		6
12-3		3		16-14	8		6	20-39	37	2		24-19			19
12-8	8			16-23	22	1		20-41	41			24-27	11		16
12-10	10			16-26	26			20-90	3		12	24-31		31	
14-4			4	16-99	21	2		22-12			12	24-61	61		
14-5		5		18-8			8	22-19			19				

MIL-DTL-26482 Hermetic Series II Type

230-018 Bayonet Coupling Solder Flange Mount Receptacle MS3443 Type

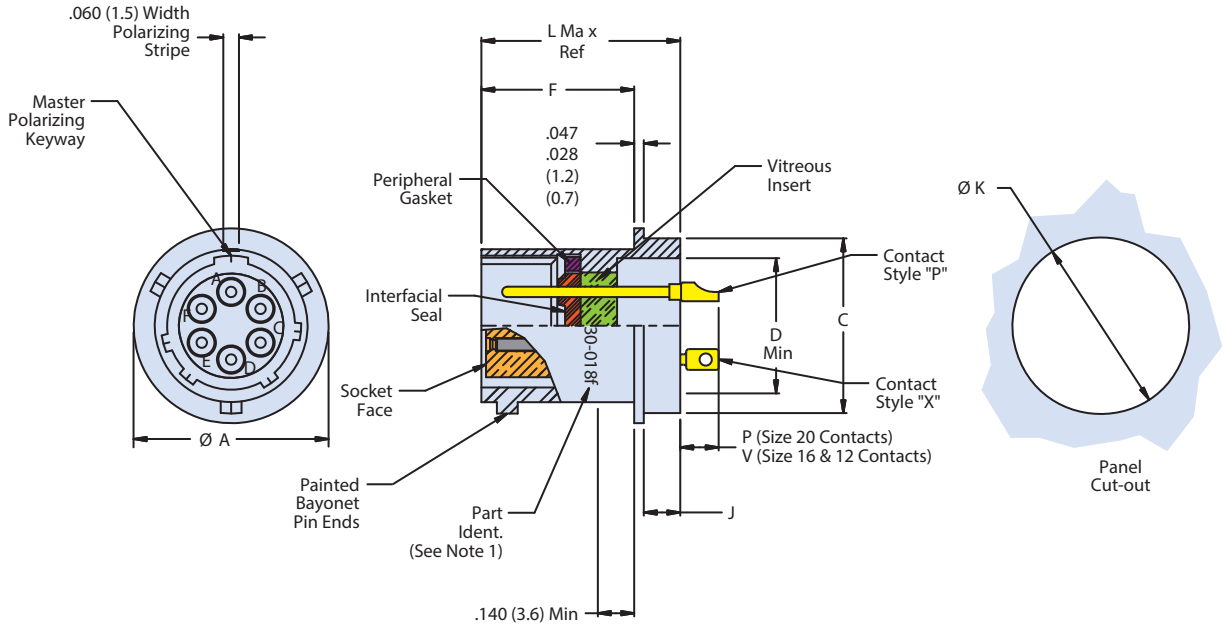
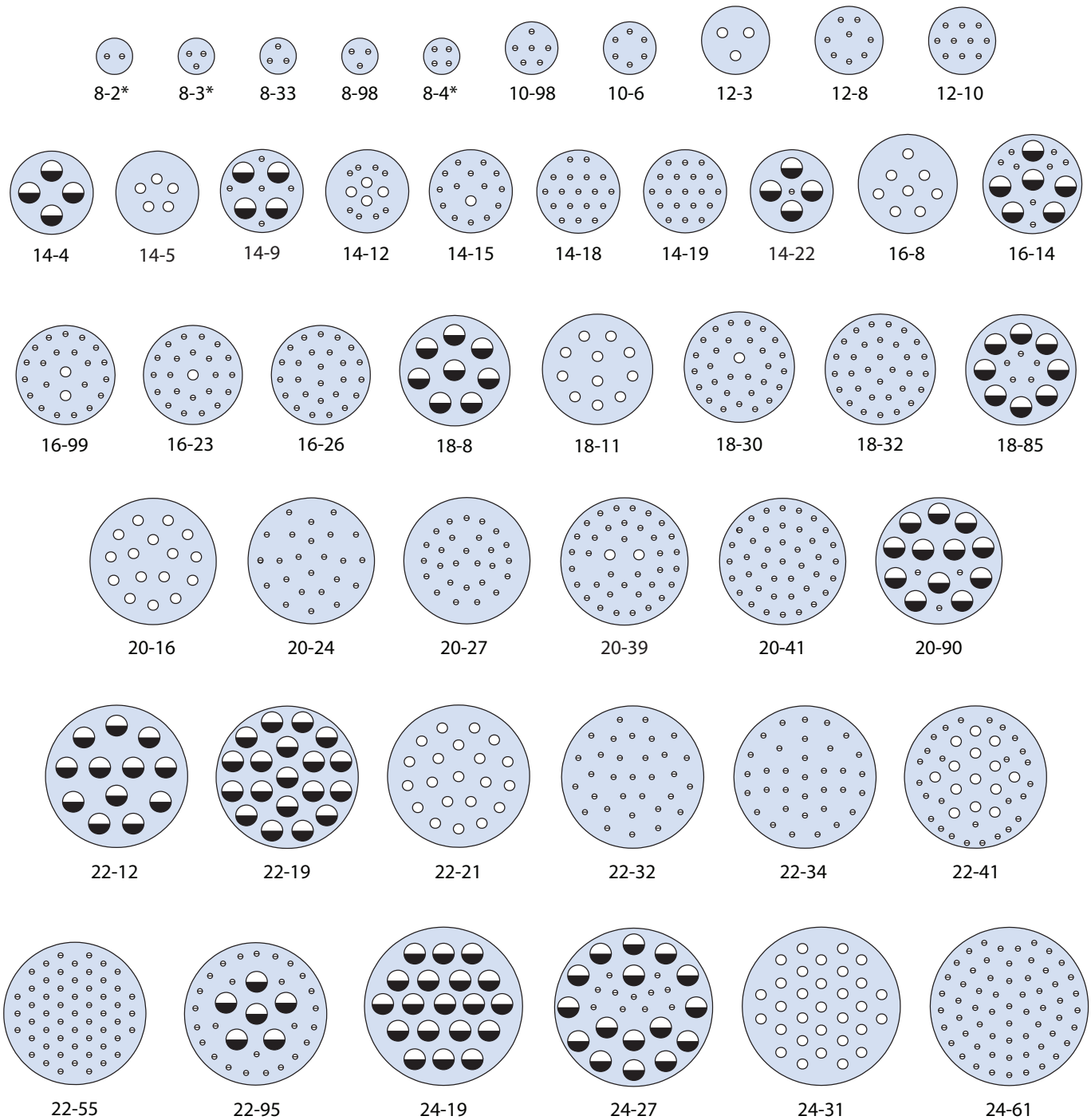


TABLE I: CONNECTOR AND CUT-OUT DIMENSIONS

Shell Size	A Dia ± .010 (0.3)	C Dia Mounting Locator	D Dia Min	F	J	K	L	P	V	Max Weight (Lbs.)
8	.625 (15.9)	.563/.557 (14.3/14.1)	.403 (10.2)	.598/.578 (15.2/14.7)	.156/.116 (4.0/2.9)	.570 (14.5)	.801 (20.3)	.178/.118 (4.5/3.0)	.248/.188 (6.3/4.8)	.0310
10	.750 (19.1)	.673/.667 (17.1/16.9)	.515 (13.1)	.598/.578 (15.2/14.7)	.156/.116 (4.0/2.9)	.680 (17.3)	.801 (20.3)	.178/.118 (4.5/3.0)	.248/.188 (6.3/4.8)	.0340
12	.844 (21.4)	.782/.776 (19.9/19.7)	.630 (16.0)	.598/.578 (15.2/14.7)	.156/.116 (4.0/2.9)	.789 (20.0)	.801 (20.3)	.178/.118 (4.5/3.0)	.248/.188 (6.3/4.8)	.0400
14	.969 (24.6)	.907/.901 (23.0/22.9)	.755 (19.2)	.598/.578 (15.2/14.7)	.156/.116 (4.0/2.9)	.914 (23.2)	.801 (20.3)	.178/.118 (4.5/3.0)	.248/.188 (6.3/4.8)	.0510
16	1.094 (27.8)	1.032/1.026 (26.2/26.1)	.880 (22.4)	.598/.578 (15.2/14.7)	.156/.116 (4.0/2.9)	1.039 (26.4)	.801 (20.3)	.178/.118 (4.5/3.0)	.248/.188 (6.3/4.8)	.0620
18	1.218 (30.9)	1.157/1.151 (29.4/29.2)	.980 (24.9)	.598/.578 (15.2/14.7)	.156/.116 (4.0/2.9)	1.164 (29.6)	.801 (20.3)	.178/.118 (4.5/3.0)	.248/.188 (6.3/4.8)	.0820
20	1.312 (33.3)	1.251/1.245 (31.8/31.6)	1.105 (28.1)	.660/.640 (16.8/16.3)	.156/.116 (4.0/2.9)	1.258 (32.0)	.863 (21.9)	.178/.118 (4.5/3.0)	.248/.188 (6.3/4.8)	.1000
22	1.438 (36.5)	1.376/1.371 (35.0/34.8)	1.230 (31.2)	.660/.640 (16.8/16.3)	.188/.148 (4.8/3.8)	1.383 (35.1)	.895 (22.7)	.146/.086 (3.7/2.2)	.216/.156 (5.5/4.0)	.1150
24	1.564 (39.7)	1.501/1.495 (38.1/38.0)	1.385 (35.2)	.660/.640 (16.8/16.3)	.188/.148 (4.8/3.8)	1.508 (38.3)	.895 (22.7)	.146/.086 (3.7/2.2)	.216/.156 (5.5/4.0)	.2680

MIL-STD-1669 Insert Arrangements



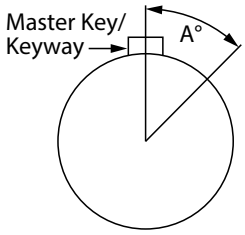
MIL-SPEC CONTACT PART NUMBERS		
Contact Size	Pin Contacts P/N	Socket Contacts P/N
20	M39029/4-110	M39029/5-115
16	M39029/4-111	M39029/5-116
12	M39029/4-113	M39029/5-118

*8-2, 8-3, 8-4 are non-QPL arrangements, available in Glenair COTS part numbers only.

Contact Size 20
Contact Size 16
Contact Size 12

MIL-STD-1669 Insert Arrangements Table and Alternate Positions

INSERT ARRANGEMENTS					
Shell Size Designator	Insert Arrangement Dash Number	Contact Size and Quantity			Service Rating
		20	16	12	
8	8-2	2			I
	8-3	3			I
	8-4	4			I
	8-33	3			I
	8-98	3			I
10	10-6	6			I
	10-98	6			I
12	12-3		3		II
	12-8	8			I
	12-10	10			I
14	14-4			4	I
	14-5		5		II
	14-9	5		4	I
	14-12	8	4		I
	14-15	14	1		I
	14-18	18			I
	14-19	19			I
	14-22	1		4	I
16	16-8		8		II
	16-14	8		6	I
	16-23	22	1		I
	16-26	26			I
	16-99	21	2		I
18	18-8			8	I
	18-11		11		II
	18-30	29	1		I
	18-32	32			I
	18-85	5		8	I
20	20-16		16		II
	20-24	24			I
	20-27	27			I
	20-39	37	2		I
	20-41	41			I
	20-90	3		12	I
22	22-12			12	I
	22-19			19	I
	22-21		21		II
	22-32	32			I
	22-34	34			I
	22-41	27	14		I
	22-55	55			I
	22-95	26		6	I
24	24-19			19	II
	24-27	11		16	I
	24-31		31		I
	24-61	61			I

ALTERNATE POSITIONS				
Shell Size / Insert Arrangement				
	A°			
	W	X	Y	Z
8-2	58	122	-	-
8-3	60	210	-	-
8-4	45	-	-	-
8-33	90	-	-	-
8-98	-	-	-	-
10-6	90	-	-	-
10-98	90	180	240	270
12-3	-	-	180	-
12-8	90	112	203	292
12-10	60	155	270	295
14-4	45	-	-	-
14-5	40	92	184	273
14-9	15	90	180	240
14-12	43	90	-	-
14-15	17	110	155	234
14-18	15	90	180	270
14-19	30	165	315	-
14-22	45	-	-	-
16-8	54	152	180	331
16-14	25	78	180	240
16-23	158	270	-	-
16-26	60	-	275	338
16-99	66	156	223	340
18-8	180	-	-	-
18-11	62	119	241	340
18-30	180	193	285	350
18-32	85	138	222	265
18-85	45	90	180	240
20-16	238	318	333	347
20-24	70	145	215	290
20-27	72	144	216	288
20-39	63	144	252	333
20-41	45	126	225	-
20-90	18	60	240	270
22-12	-	-	-	-
22-19	15	90	225	308
22-21	16	135	175	349
22-32	72	145	215	288
22-34	62	142	218	298
22-41	39	135	264	-
22-55	30	142	226	314
22-95	26	180	266	-
24-19	30	165	315	-
24-27	45	110	140	225
24-31	90	225	255	-
24-61	90	180	270	324

Reference Information

COUPLING TORQUE		
	Torque	
Shell Size	Maximum engagement and disengagement	Minimum disengagement
8	8 (.904 N-m)	1 (.113 N-m)
10	10 (1.13 N-m)	1 (.113 N-m)
12	14 (1.58 N-m)	2 (.226 N-m)
14	17 (1.92 N-m)	4 (.452 N-m)
16	23 (2.60 N-m)	4 (.452 N-m)
18	26 (2.94 N-m)	4 (.452 N-m)
20	31 (3.50 N-m)	6 (.678 N-m)
22	38 (4.29 N-m)	7 (.791 N-m)
24	38 (4.29 N-m)	7 (.791 N-m)

DIELECTRIC WITHSTANDING VOLTAGE		
	Minimum Test Voltages, AC (RMS)	
Altitude (ft.)	Service Rating I	Service Rating II
Sea Level	1,500	2,300
50,000	500	750
70,000	375	500
110,000	200	200

WORKING VOLTAGE, AC, RMS		
Condition	Service Rating I	Service Rating II
Sea Level	600	1,000
70,000 ft.	600	450

MATERIAL AND FINISH SPECIFICATIONS								
Glenair Code	Material	Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	Operating Temp. Range	RoHS Materials	Notes
AB	Marine Bronze	Unplated	AMS4640 alloy, unplated	1000	Conductive	-65° to +200°C	✓	Marine and geo-physical applications
ME	Aluminum	Electroless Nickel	AMS-C-26074, Grade A; ASTM B733, SC 3	96	Conductive	-65° to +200°C	✓	High-durability electroless nickel finish.
NF	Aluminum	Cadmium, Olive Drab	AMS-QQ-P-416, Type II, Class 2, over electroless nickel	500	Conductive	-65° to +175°C		Olive drab cadmium finish.
TZ	Aluminum	Tin-Zinc, Green-Gold	AMS2434, Type 2, over electroless nickel	500	Conductive	-65° to +175°C	✓	Cadmium-compatible replacement.
ZR	Aluminum	Zinc-Nickel, Black	ASTM B841, over electroless nickel	500	Conductive	-65° to +175°C	✓	Black zinc-nickel finish.
Z1	Stainless Steel	Passivate	AMS2700	500	Conductive	-65° to +200°C	✓	Passivated stainless steel

Wave spring = Stainless steel / passivated
Insulator = high-grade rigid dielectric • Seals, grommet = fluorosilicone blend

NOTES

Additional Component Material / Finish

- Wave spring = Stainless steel / passivated
  Grounding spring = Copper alloy / nickel plated
  Insulator = high-grade rigid dielectric
  Seals, grommet = fluorosilicone blend

Notes

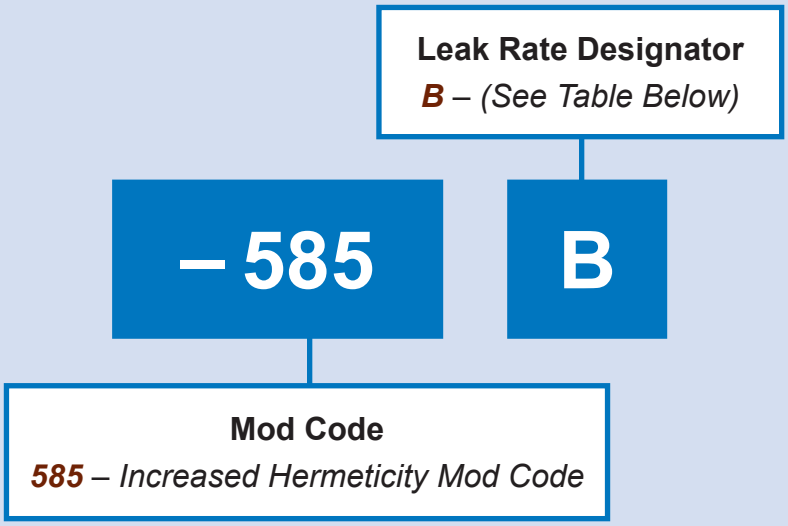
- Dimensions are subject to change without notice. Metric dimensions appear in parentheses in diagrams and tables, based on 1 inch = 25.4 mm, for reference only. Unless otherwise specified, the following other dimensional tolerances apply:
  .xx = ± .03 (0.8) Lengths = ± .060 (1.52)
  .xxx = ± .015 (0.4) Angles = ± 5°

Customers are advised to consult the factory for the latest specifications, particularly to confirm critical dimensions such as connector lengths, threads, and so on. When errors or mistakes are brought to our attention, corrected content is posted immediately to www.glenair.com.

For all parts in this catalog:

- All parts will be identified with manufacturer's name and part number, space permitting.
- Glenair 600 series backshell assembly tools are recommended for assembly and installation. Series 26 environmental connectors are designed to mate with any QPL manufacturer's MIL-DTL-26482 Series 1 and 2 connectors with the same shell size, insert arrangement, and polarization.
- Connectors ordered with contacts will be supplied with spares, insertion/removal tool, and sealing plugs.

Special Leak Rate Modification Codes



What is the –585 Mod Code?

Glenair offers an array of hermetic connectors with more stringent leak rate requirements. By adding "**–585**" and the designator letter "**A**", "**B**" or "**C**"—depending on the hermeticity desired—to the end of a standard part number, connectors will be built to exceed the standard 1 x 10^{-7} cc Helium per second leak rate specified on most Glenair hermetics.

HERMETIC LEAK RATE MOD CODES	
Designator	Required Leak Rate
A	1 x 10^{-10} cc's Helium per second
B	1 x 10^{-9} cc's Helium per second
C	1 x 10^{-8} cc's Helium per second