

Ratings and Certifications



Underwriters Laboratories. Class I, Division 2, Groups C & D at 480 Vac, 60/400 Hz, Circuit-Breaking. (GD Series Only.) Upgradeable to Division 1 when mounted to suitable enclosure. Consult Vantage.



CSA International, U.S. and Canadian Standards: Class I, Division 2, Groups B, C & D and Class II, Groups F & G at 600 Vac, 60/400 Hz, Circuit-Breaking. Upgradeable to Division 1 when mounted to suitable enclosure. Consult Vantage.

Operation

Receptacles are mated to plugs that feature a quick make and break design. To engage, align plug to receptacle and turn coupling sleeve clockwise. Plug will be injected automatically & close circuit. Continue turning coupling sleeve to solid to provide environmental seal. To disengage, rotate coupling sleeve c.c.w. (counterclockwise). Plug will eject automatically. Continue turning coupling sleeve to extract the plug. **Caution:** Do not interfere with cable housing. To prevent shock hazard the receptacle cover must be threaded onto receptacle when receptacle is not in use.

Materials (See Tables 9, 10 and 11 for Material Composition data)

GD Series, Wrought Aluminum 6061-T6, copper-free, with Hardcoating per Mil-A-8625 Type III, black finish.
 SD Series, Stainless Steel Type 316.
 Angle Adapters, Tenzaloy 713, with a black powder coat finish.

Assembly

Receptacles are designed for field termination. Wire leads can be spliced or landed to terminals. No special tools are required.

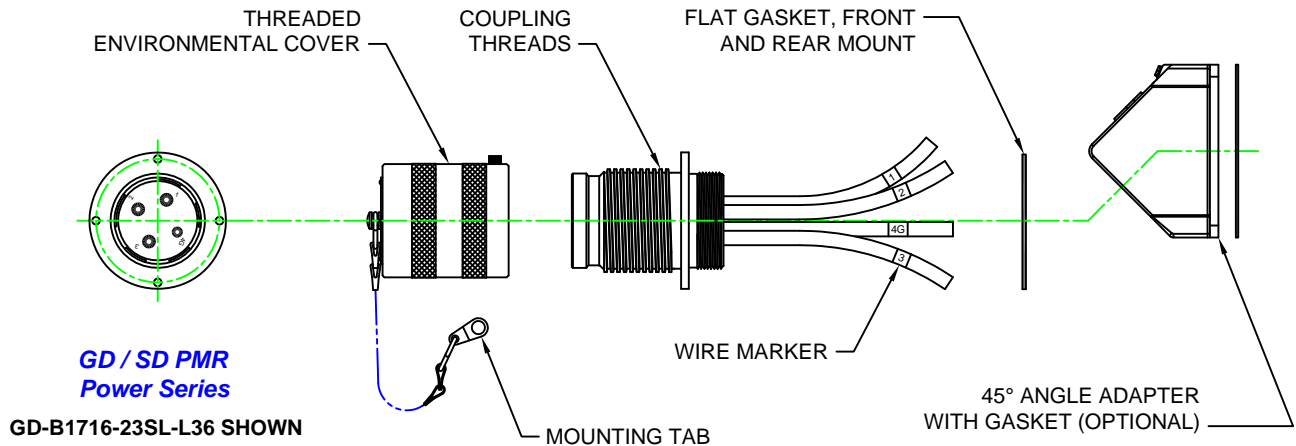
Maintenance


Periodic maintenance consists of inspection for termination integrity and contamination. When conditions require, lubricate coupling threads with silicone oil, Vantage Part Number VT-9400-21D.

Before Ordering

Insert: Table 8 lists the available insert configurations. The insert selection dictates the shell size of the plug. Diagrams are available for each insert configuration. Request document PDS-GD-SD-INSERTS.

Angle Adapter: An optional 45 degree angle adapter is available to mount the receptacle in a more accessible position.



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		ISSUE DATE: JULY 29, 2005		
PRODUCT DATA SHEET			DOCUMENT: PDS-GD-SD-PMR	SHEET: 1 OF 5

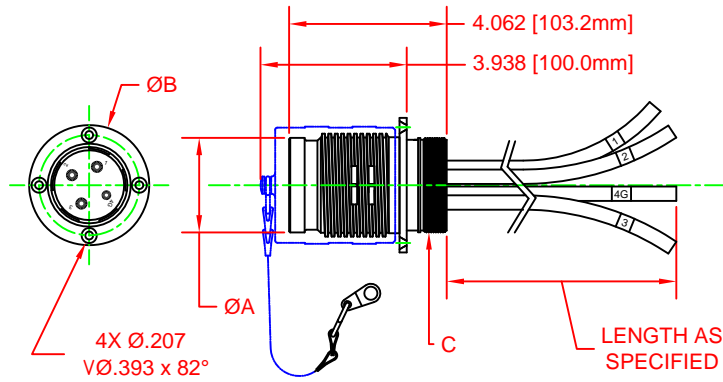


TABLE 1: BASIC DIMENSIONS			
SHELL SIZE	INCHES (mm)		
	A	B	C
16	1.969 (50.0)	3.063 (77.8)	2 - 16UN THREAD
20	2.468 (62.7)	3.563 (90.5)	2 1/2 - 16UN THREAD
24	2.969 (75.4)	4.188 (106.4)	3 1/8 - 16UN THREAD
28	3.468 (88.1)	4.688 (119.1)	3 5/8 - 16UN THREAD

TABLE 2: WEIGHTS IN LBS (kg) Multiply receptacle weight by a factor of 1.4 for weight in stainless steel.				
COMPONENT	SHELL SIZE 16	SHELL SIZE 20	SHELL SIZE 24	SHELL SIZE 28
RECEPTACLE (L36 LEADS)	3 (1.4)	4 (1.8)	8 (3.6)	13 (5.9)
ANGLE ADAPTER	0.5 (0.23)	0.5 (0.23)	2.9 (1.3)	2.9 (1.3)

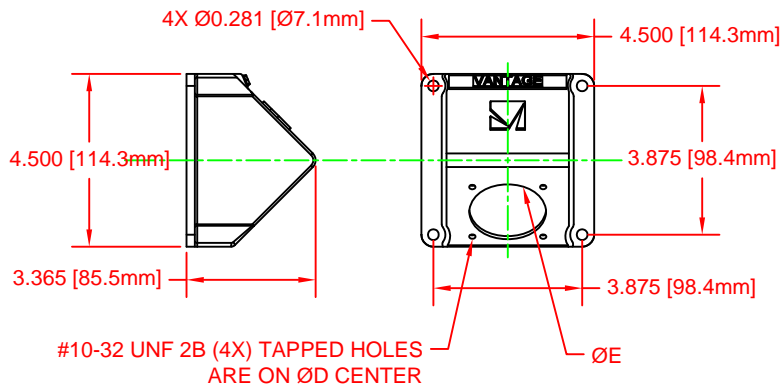
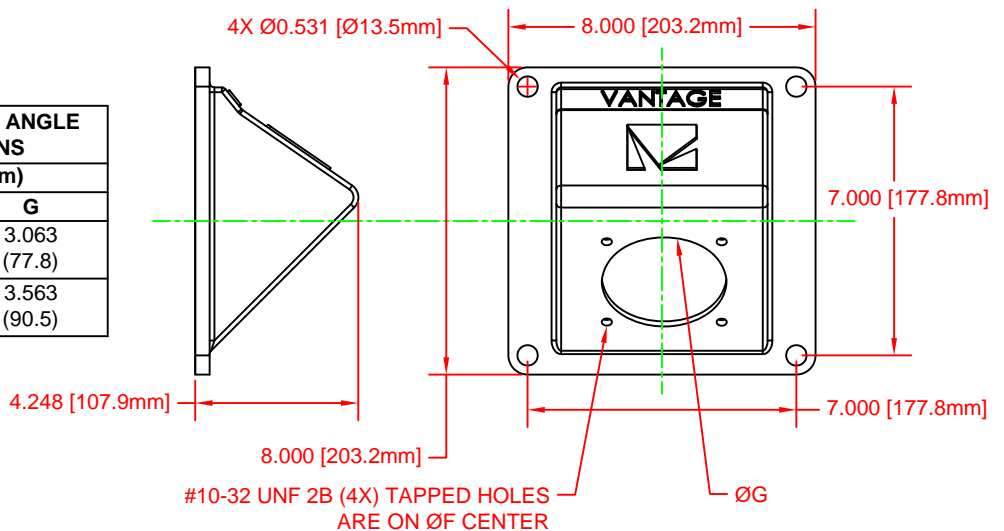


TABLE 3: SHELL SIZE 16 AND 20 ANGLE ADAPTER DIMENSIONS		
SHELL SIZE	INCHES (mm)	
	D	E
16	2.610 (66.3)	2.063 (52.4)
20	3.110 (79.0)	2.563 (65.1)

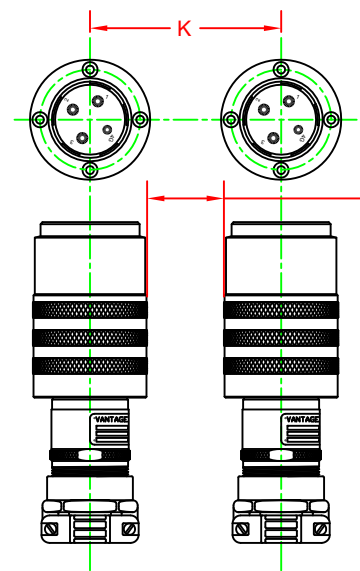
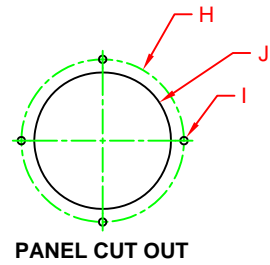
TABLE 4: SHELL SIZE 24 AND 28 ANGLE ADAPTER DIMENSIONS		
SHELL SIZE	INCHES (mm)	
	F	G
24	3.735 (94.9)	3.063 (77.8)
28	4.235 (107.6)	3.563 (90.5)



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TABLE 5: PANEL CUT OUT DIMENSIONS			
SHELL SIZE	INCHES (mm)		
	H	I	J
16	2.610	0.195	2.0625
20	3.110	0.195	2.5625
24	3.735	0.195	3.0625
28	4.235	0.195	3.5625

NOTE: THE CUTOUT DIMENSION "J" INCLUDES 0.0625" RECEPTACLE SHELL CLEARANCE.



WHEN MOUNTING TWO OR MORE RECEPTACLES TO A PANEL, IT IS RECOMMENDED THAT 2 INCHES OF SPACING BE ALLOWED TO PROVIDE SUFFICIENT ACCESS FOR ROTATION OF PLUG COUPLING SLEEVE. SEE TABLE 6 FOR MOUNTING CENTERS.




2 [50.8mm] INCHES
MINIMUM RECOMMENDED CLEARANCE
BETWEEN PLUGS

SHELL SIZE	TABLE 6: RECEPTACLE MOUNTING SPACING	
	K IN INCHES (mm)	
16	5.0 (127)	
20	5.6 (142)	
24	6.2 (158)	
28	6.8 (173)	

FOR MIXED SHELL SIZES, ADD DIMENSION "K" FOR EACH AND DIVIDE BY TWO.

TABLE 7: PANEL MOUNT RECEPTACLE PART NUMBER CODE LOGIC											
GD	-	B	17	16	-	23	S	L	01	-	L36
1		2	3	4		5	6	7	8		9

1	CLASSIFICATION	GD = ALUMINUM SD = STAINLEES STEEL
2	COVER	B = RECEPTACLE COVER
3	SHELL STYLE	17 = RECEPTACLE, PANEL MOUNT
4	SHELL SIZE	16 = SHELL SIZE 16 24 = SHELL SIZE 24 20 = SHELL SIZE 20 28 = SHELL SIZE 28
5	INSERT	SEE INSERT TABLE, TABLE8
6	GENDER	P = MALE (PIN) INSERT S = FEMALE (SOCKET) INSERT
7	CONTACT PLATING	L = SILVER PLATE (STANDARD) GROUND CONTACTS ARE GOLD OVER SILVER
8	INSERT KEYING	SEE VANTAGE INSERT PRODUCT DATA SHEET
9	WIRE LENGTH	LENGTH OF WIRE LEADS IN INCHES

TABLE 8: INSERTS AND AMPERE RATINGS								
CONTACTS	AMPERES			CONNECTOR PREFIX	SHELL SIZE	INSERT CODE NUMBER		KEY POSITIONS
						PIN	SOCKET	
2 POLE, 3 WIRE	30	30	32	GD or SD	16	51PL	51SL	N + 5
3 POLE, 4 WIRE	30	30	32	GD or SD	16	23PL	23SL	N + 5
4 POLE, 5 WIRE	30	30	32	GD or SD	20	36PL	36SL	N + 2
2 POLE, 3 WIRE	60	60	63	GD or SD	20	61PL	61SL	N + 7
3 POLE, 4 WIRE	60	60	63	GD or SD	20	40PL	40SL	N + 4
4 POLE, 5 WIRE	60	60	63	GD or SD	24	29PL	29SL	N + 3
2 POLE, 3 WIRE	100	100	125	GD or SD	24	60PL	60SL	N + 7
3 POLE, 4 WIRE	100	100	125	GD or SD	24	39PL	39SL	N + 5
4 POLE, 5 WIRE	100	100	125	GD or SD	28	23PL	23SL	N + 3
2 POLE, 3 WIRE	200	200	260	GD or SD	28	30PL	30SL	N + 9
3 POLE, 4 WIRE	200	200	260	GDU or SDU	28	31PL	31SL	N + 10
5 POLE, 6 WIRE	200	200	260	GDT or SDT	28	42PL	42SL	N + 3

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ELEMENTAL COMPOSITIONS

TABLE 9: ELEMENTAL COMPOSITION OF ALUMINUM 6061-T6 PERCENTAGE BY WEIGHT											
	Al	Cr	Cu	Fe	Mg	Mn	Si	Ti	Zn	Other Each	Other Total
MIN	REM	0.04	0.15	-	0.80	-	0.40	-	-	-	-
MAX	REM	0.35	0.40	0.70	1.20	0.15	0.80	0.15	0.25	0.05	0.15

TABLE 10: ELEMENTAL COMPOSITION OF STAINLESS STEEL TYPE 316 PERCENTAGE BY WEIGHT											
	Fe	C	Mn	Si	P	S	Cr	Mo	Ni	N	Other
MIN	REM	-	-	-	0	-	16.0	2.0	10.0	-	-
MAX	REM	0.08	2.0	0.75	0.045	0.03	18.0	3.0	14.0	0.10	-

TABLE 11: ELEMENTAL COMPOSITION OF TENZALOY 713 PERCENTAGE BY WEIGHT											
	Al	Cr	Cu	Fe	Mg	Mn	Si	Ti	Zn	Sn	Other
MIN	REM	-	0.40	-	0.20	-	-	0.10	7.0	-	-
MAX	REM	0.35	1.00	1.10	0.50	0.60	0.25	0.20	8.0	0.25	0.25