





Ratings and Certifications

-  Underwriters Laboratories. Class I, Groups C & D at 480 Vac, 60/400 Hz, Circuit-Breaking.
-  CSA International, U.S. and Canadian Standards: Class I, Groups B, C & D and Class II, Groups F & G at 600 Vac, 60/400 Hz, Circuit-Breaking.
-  0344  II 2 G D, EEx d IIC T6; -20°C ≤ Ta ≤ +50°C; IP 66/67 T70°. For Standard and Reverse Service, 50/60/400 Hz; 500 Vdc, 1000 Vac.

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 4, 5 and 6 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.
- Junction box enclosures, 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.

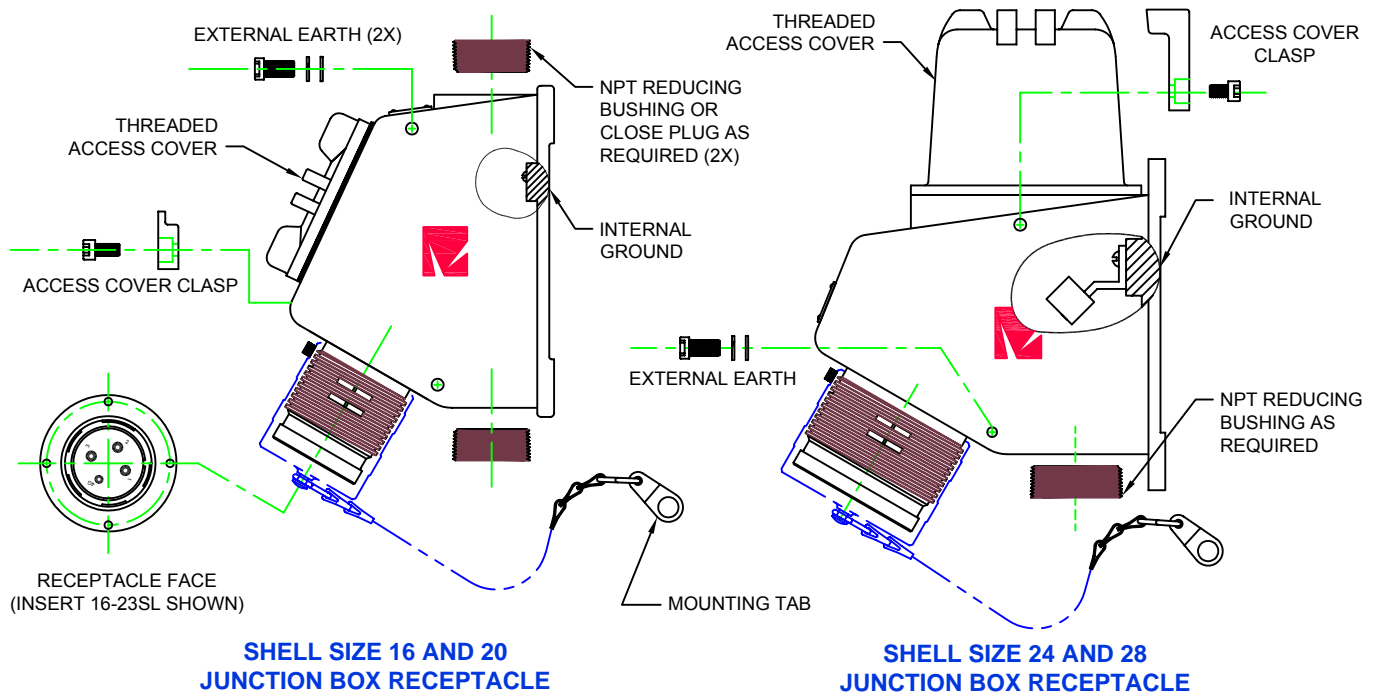
Maintenance


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

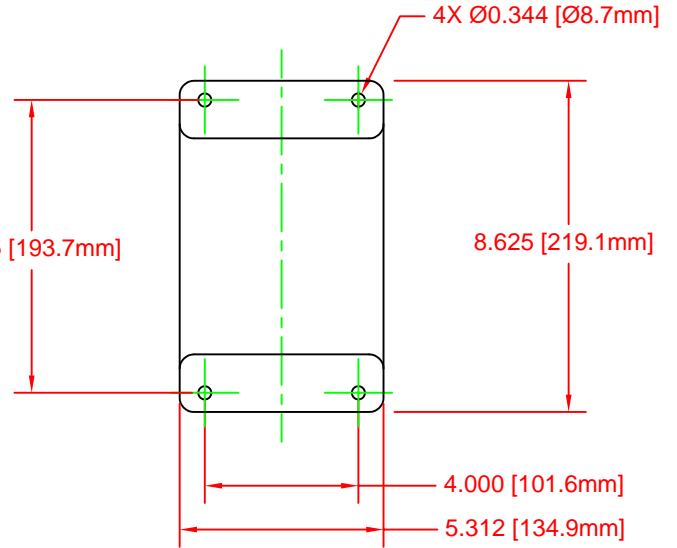
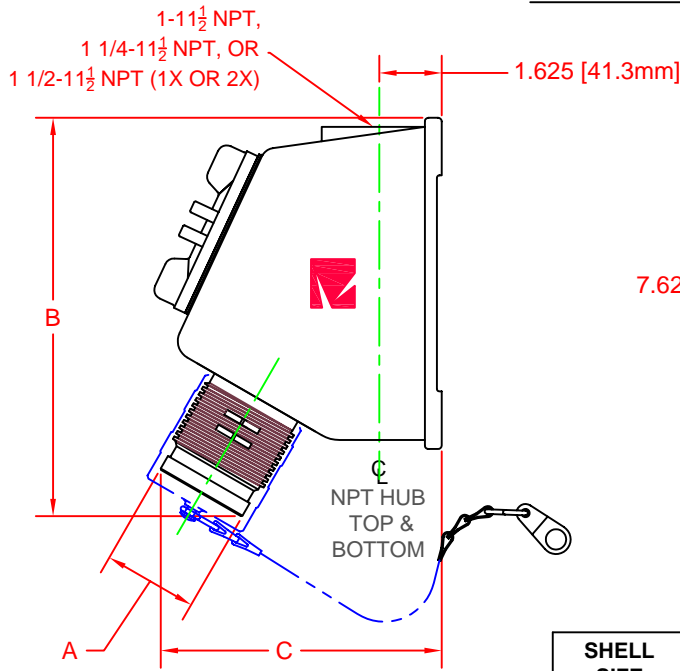
Insert: Table 3 lists the available insert configurations. The insert selection dictates the shell size of the plug. Diagrams are available for each insert configuration. Reference Product Data Sheet PDS-GD-SD-INSERTS for inclusive insert data.

Conduit Hub: Conduit entrance and size options vary. Use Table 7 to specify size and location. Unused hub entrances must be fully stopped with a close up plug.



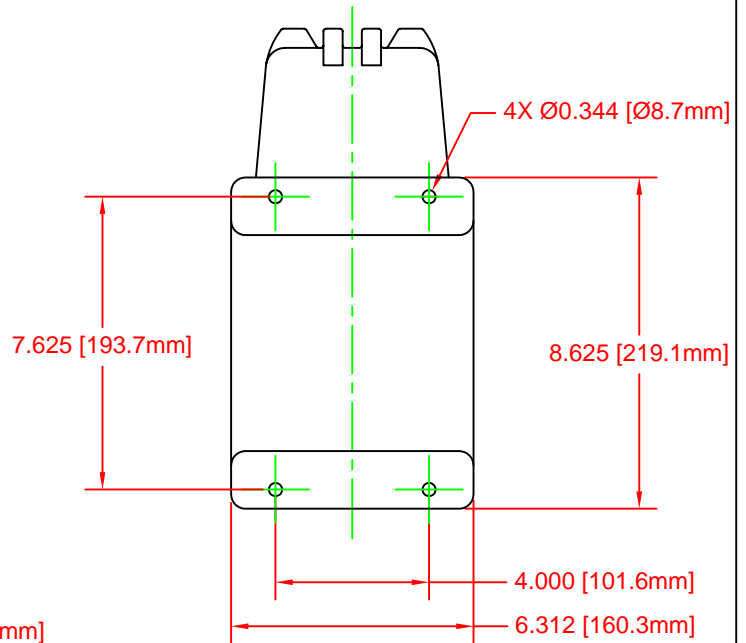
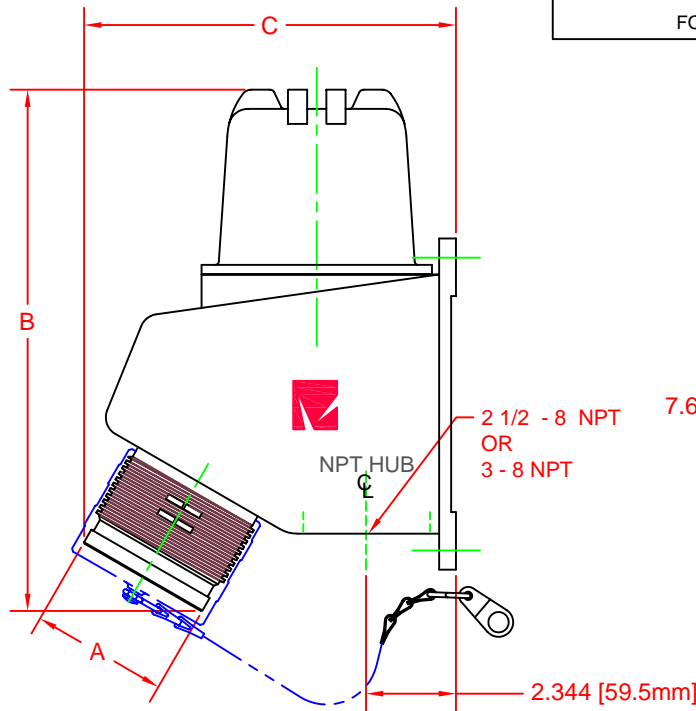
REVISION:	WTN BY: JOHN NORDECK	TITLE: GD AND SD JUNCTION BOX RECEPTACLES	 4875 South Windermere Street Englewood, Colorado USA 80110 Phone: 303-781-2121 FAX: 303-789-4215 Email: service@vantagexp.com
	CHK BY: DARRIN LOMBARD		
	ENG BY:		
	ATEX: JOHN NORDECK		
ISSUE DATE: JULY 27, 2005	PRODUCT DATA SHEET		DOCUMENT: PDS-GD-SD-JBR
			SHEET: 1 OF 4

**JUNCTION BOX
RECEPTACLE DIMENSIONS**



SHELL SIZE	DIMENSION IN INCHES (mm)			WEIGHT LBS (1) (kg)
	A	B	C	
16	1.969 (50.0)	10.25 (260.4)	7.375 (187.3)	12.9 (5.9)
20	2.469 (62.7)	10.25 (260.4)	7.375 (187.3)	13.7 (6.2)

(1) MULTIPLY BY FACTOR OF 1.2
FOR WEIGHT OF SD (STAINLESS STEEL) VERSION.



SHELL SIZE	DIMENSION IN INCHES (mm)			WEIGHT LBS (2) (kg)
	A	B	C	
24	2.969 (75.4)	14 (355.6)	9.688 (246.1)	21.9 (9.9)
28	3.469 (88.1)	14 (355.6)	9.688 (246.1)	22.8 (10.3)

(2) MULTIPLY BY FACTOR OF 1.2
FOR WEIGHT OF SD (STAINLESS STEEL) VERSION.




WTN BY: JOHN NORDECK
CHK BY: DARRIN LOMBARD
ISSUE DATE: JULY 27, 2005

TITLE: GD AND SD JUNCTION BOX RECEPTACLES
PRODUCT DATA SHEET

REVISION: C
DOCUMENT: PDS-GD-SD-JBR
SHEET: 2 OF 4

TABLE 2: JUNCTION BOX RECEPTACLE PART NUMBER CODE LOGIC											
GD	-	B	17	16	-	23	P	L	01	-	AH
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, JUNCTION BOX 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, TABLE 3
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	CONDUIT HUB	AH = SEE TABLE 7

TABLE 3: 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

WTN BY: JOHN NORDECK	TITLE: GD AND SD JUNCTION BOX RECEPTACLES	REVISION: C
CHK BY: DARRIN LOMBARD		DOCUMENT: PDS-GD-SD-JBR
ISSUE DATE: JULY 27, 2005	PRODUCT DATA SHEET	SHEET: 3 OF 4

ELEMENTAL COMPOSITIONS

TABLE 4: 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 5: 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 6: 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

TABLE 7: CONDUIT HUB SIZE AND LOCATION			
ENCLOSURE	CONDUIT HUB LOCATON	HUB SIZE CODE	CONDUIT HUB SIZE (INCHES)
SHELL SIZE 16 & 20	A = TOP B = BOTTOM F = TOP AND BOTTOM	E	$\frac{3}{4}$ -14 NPT
		F	1 -11 $\frac{1}{2}$ NPT
		G	1 $\frac{1}{4}$ -11 $\frac{1}{2}$ NPT
		H	1 $\frac{1}{2}$ -11 $\frac{1}{2}$ NPT
SHELL SIZE 24 & 28	B = BOTTOM FEED, TOP FEED NOT AVAILABLE	J	2 - 11 $\frac{1}{2}$ NPT
		K	2 $\frac{1}{2}$ - 8 NPT
		L	3 -8 NPT
EXAMPLE: SUFFIX "-AH" DENOTES TOP FEED WITH A 1 $\frac{1}{2}$ INCH HUB.			

WTN BY: JOHN NORDECK	TITLE: GD AND SD JUNCTION BOX RECEPTACLES	REVISION: C
CHK BY: DARRIN LOMBARD		DOCUMENT: PDS-GD-SD-JBR
ISSUE DATE: JULY 27, 2005	PRODUCT DATA SHEET	SHEET: 4 OF 4