



Vantage Technology, LLC

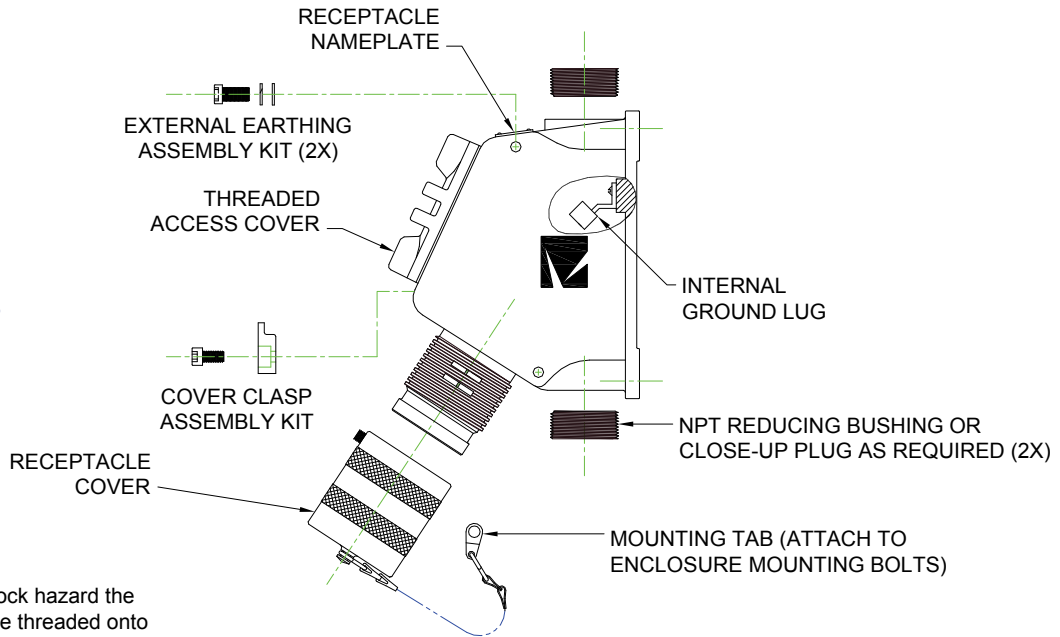
Junction Box Receptacles

AF/SF, GB and GD Series

ASSEMBLY, TERMINATION and USAGE INSTRUCTIONS

Identification of Principal Parts

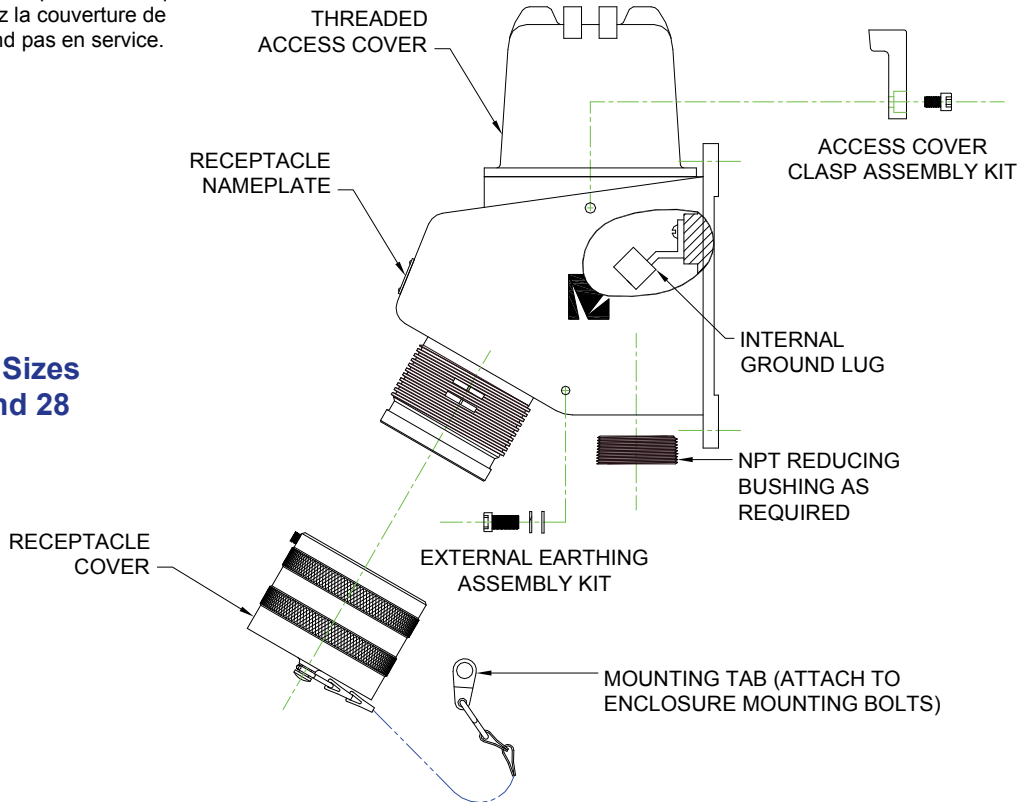
Shell Sizes
16 and 20



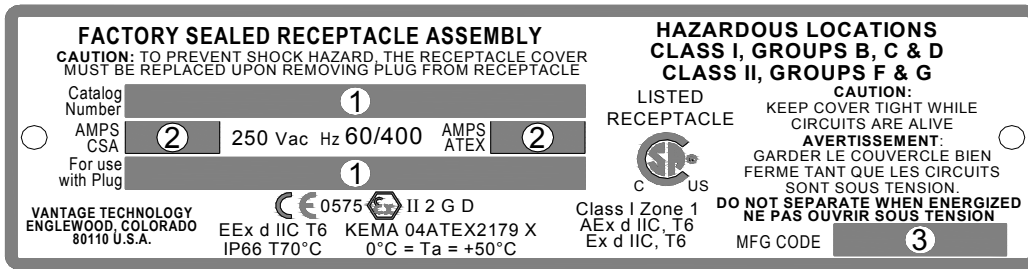
Caution: To prevent shock hazard the receptacle cover must be threaded onto receptacle when receptacle is not in use.



Attention: Pour empêcher le risque de choc, remplacez la couverture de réceptacle quand pas en service.

Shell Sizes
24 and 28



Recapitulation of Nameplate Data



Field 1 Catalog Number ¹	Field 2 AMP Rating	Field 3 AMP Rating	Field 4 For use with Plug ²
			
AF-B1716-612SL-AH	10	20	AF-1016-612PL-XX
AF-B1716-621SL-AH	6.5	15	AF-1016-621PL-XX
AF-B1716-633SL-AH	3.5	10	AF-1016-633PL-XX
AF-B1716-640SL-AH	3.5	10	AF-1016-640PL-XX
AF-B1716-655SL-AH	6.5	15	AF-1016-655PL-XX
AF-B1716-676SL-AG	10	20	AF-1016-676PL-XX
AF-B1716-677SL-AH	10	20	AF-1016-677PL-XX
AF-B1716-681SL-AG	10	20	AF-1016-681PL-XX
AF-B1720-613SL-AH	6.5	15	AF-1020-613PL-XX
AF-B1720-632SL-AH	10	20	AF-1020-632PL-XX
AF-B1720-650SL-AH	10	20	AF-1020-650PL-XX
AF-B1720-676SL-AH	10	20	AF-1020-676PL-XX
AF-B1720-686SL-AH	10	20	AF-1020-686PL-XX
AF-B1720-687SL-AH	10	20	AF-1020-687PL-XX
AF-B1720-688SL-AH	10	20	AF-1020-688PL-XX
AF-B1724-613SL-BK	5	15	AF-1024-613PL-XX

1. Part numbers may vary; consult Vantage with questions. Connector part numbers beginning with 'A' are made of aluminum; 'S' of stainless steel. A 'PL' instead of 'SL' represents pins instead of sockets. Characters such as 'SL01' represent that the insert is keyed in the '01' key position and will only mate with inserts with the same orientation. The suffix 'AG', for example, defines the location and size of the conduit hub. See Table.
2. Part numbers may vary; consult Vantage with questions. Connector part numbers beginning with 'A' are made of aluminum; 'S' of stainless steel. Occurrence of the letter 'D' represents the addition of a cover. A 'SL' instead of 'PL' represents sockets instead of pins. Characters such as 'PL01' represent that the insert is keyed in the '01' key position and will only mate with inserts with the same orientation. 'XX' represents the cable diameter code. Occurrence of 'TC' represents plugs with female NPT threads for conduit mounting.

Splicing Guidelines, Power Connections

The optimum termination method of source leads to the Vantage receptacle varies with wire size, wire quantity and requirements specific to the installation site. The installer must consider the available box volume when selecting their splice method. The example illustrated in Figure 1 uses a short barrel compression splice to feed a 3P 4W 200 AMP receptacle in a Shell Size 28 junction box. **Caution:** Care must be taken to adequately insulate the splice.

Splicing Methods



Compression
Splices



Mechanical
Splice

Notes:

- 1 The example illustrates the use of a 1.44 inch parallel compression splice. Other splicing methods are possible; care must be taken to adequately insulate the splice.
- 2 The receptacle ground lead is pre-terminated and landed onto a ground post. A second ground post and nut is provided for the source ground.
- 3 Splices are crimped as shown.
- 4 Shown is a 4.0 inch length of heavy walled shrink/sleeve. The collapsed sleeve beyond the splice is pinched to close with flat pliers before sleeve/sealant cools and sets. Excess sleeve is then trimmed.
- 5 Completed spliced leads must lie so that they do not interfere with full engagement of junction box access cover.
- 6 Customer supplied leads. Splices must be sized to accommodate both the receptacle leads and the customer supplied leads.

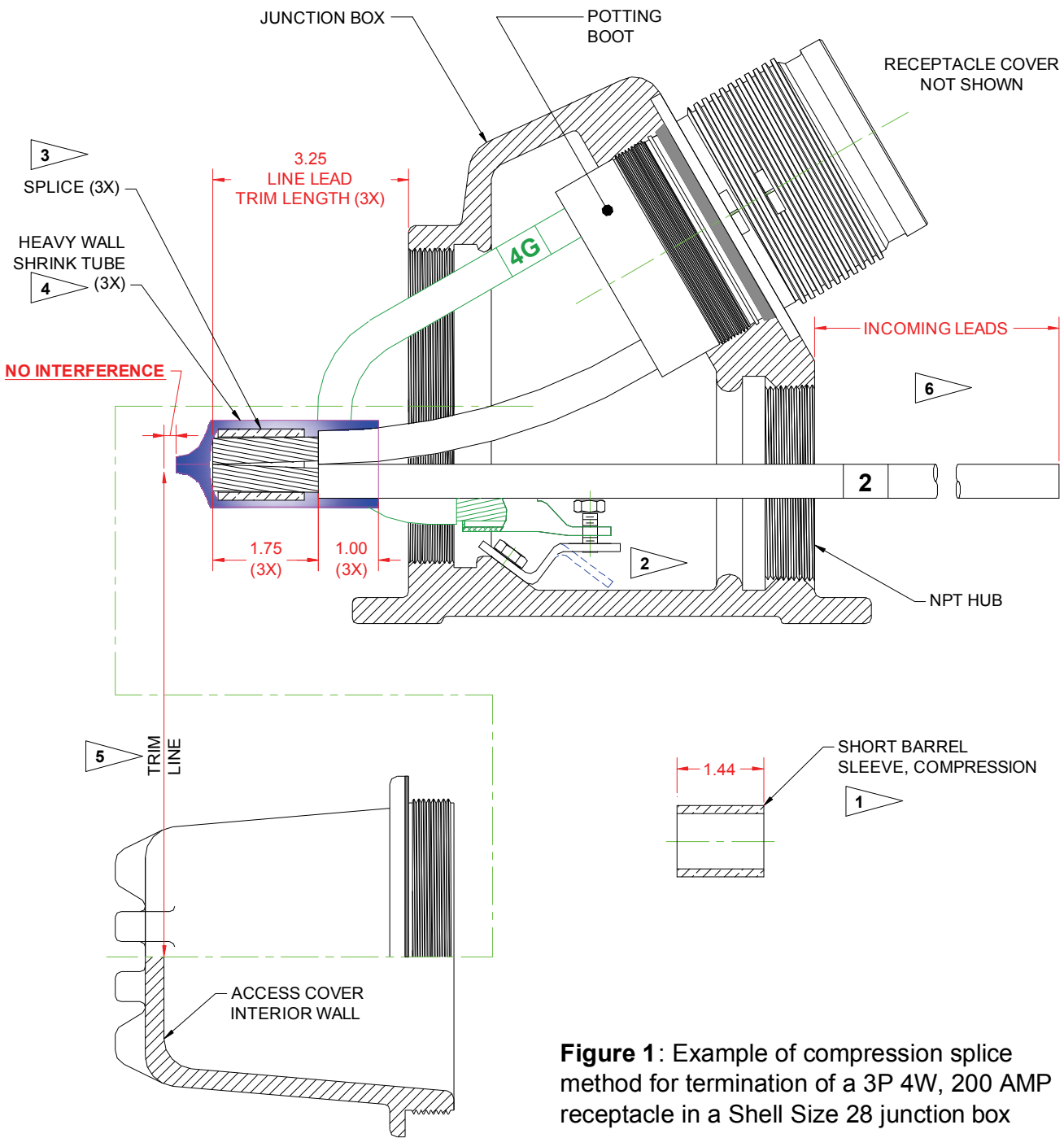


Figure 1: Example of compression splice method for termination of a 3P 4W, 200 AMP receptacle in a Shell Size 28 junction box

Splicing Guidelines, Control Connections

The optimum termination method of source leads to the Vantage receptacle varies with wire size, wire quantity and requirements specific to the installation site. The installer must consider the available box volume when selecting their splice method. The example illustrated in Figure 2 uses vinyl insulated splices to feed a control receptacle in a Shell Size 16 junction box.

Splicing Methods

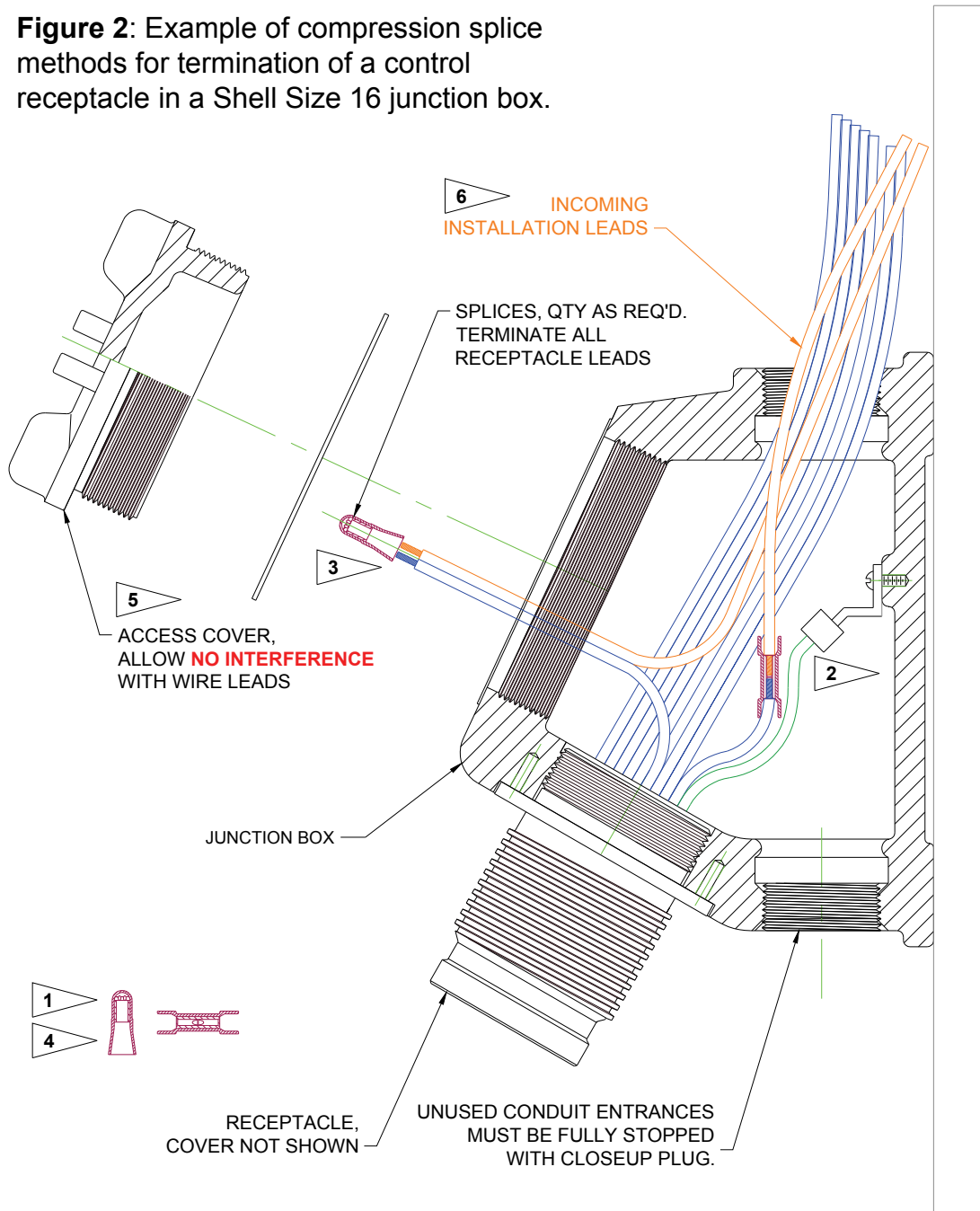


Compression
Splices

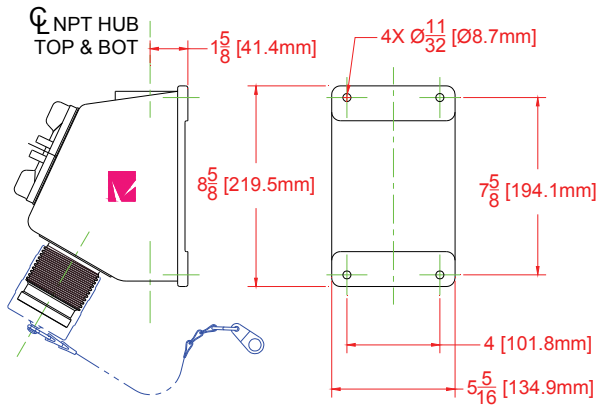
Notes:

- 1 The example illustrates the use of both parallel and end compression splices. Other splicing methods are possible; care must be taken to adequately insulate the splice.
- 2 For control receptacles with a shell ground contact, the ground lead is pre-terminated and landed onto a ground post. This ground lug is designed to accommodate an incoming wire lead. Additional tapped post holes are provided.
- 3 Splices are crimped as shown. Terminate all receptacle leads.
- 4 Splices must be adequately insulated.
- 5 Completed spliced leads must lie so that they do not interfere with full engagement of junction box access cover.
- 6 Customer supplied leads. Splices must be sized to accommodate both the receptacle leads and the customer supplied leads.

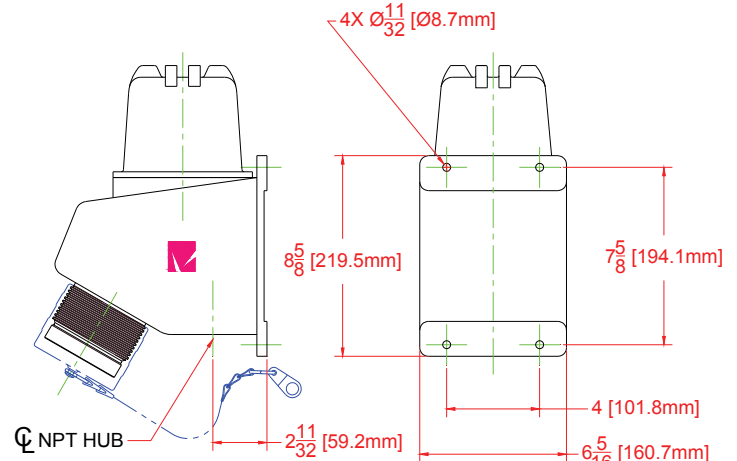
Figure 2: Example of compression splice methods for termination of a control receptacle in a Shell Size 16 junction box.



Mounting Dimensions



SHELL SIZES 16 AND 20



SHELL SIZES 24 AND 28

CONDUIT OPENING LOCATION	CONDUIT SIZE	
A = TOP	E = .75" NPT	J = 2.0" NPT
F = TOP & BOTTOM	F = 1.0" NPT	K = 2.5" NPT
B = BOTTOM	G = 1.25" NPT	L = 3.0" NPT
	H = 1.5" NPT	

Assembly Notes

1. In the event of breaking of sealing compound, receptacle must be returned to factory for resealing. Otherwise, all manufacturing and third party certifications are void.
2. For Shell Size 16 and 20 enclosures hub entrances which are not used must be fully stopped with a close up plug.
3. When conditions require, lubricate coupling threads with silicone oil, Vantage Part Number VT-9400-21D.
4. Use the receptacle cover mounting tab to prevent cover from being lost while receptacle is in use. **Caution:** To prevent shock hazard the receptacle cover must be threaded onto receptacle when receptacle is not in use. **Attention:** Pour empêcher le risque de choc, remplacez la couverture de réceptacle quand pas en service.

Note: Electrical installation shall be in compliance with the National Electric Code (NEC), EN/IEC60079-14, and/or any other presiding local or national electrical codes.



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