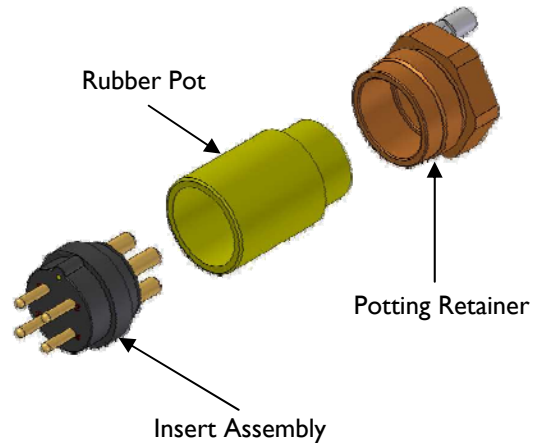


## AI353 Rev 4 ATEX BULKHEAD RECEPTACLE TERMINATION PROCEDURE

- 1) Remove the Electrical Insert assembly and BR Connector assembly from their packaging. Do not throw away the packaging.

- 2) Slide the potting retainer and rubber pot off the back of the electrical insert assembly.

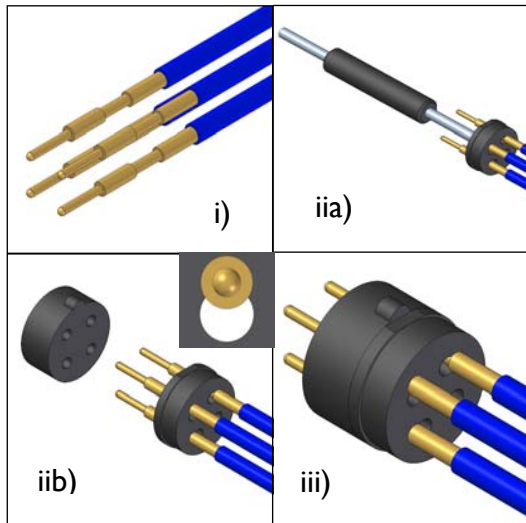


- 3) a) Solder inserts (1.5 – 35mm<sup>2</sup>).

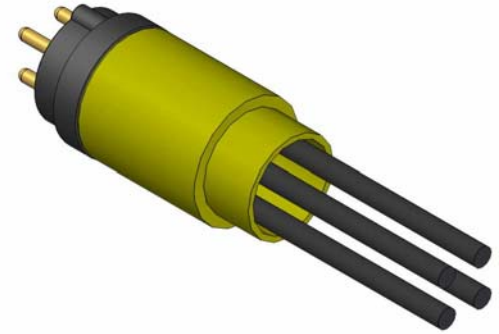


Tin the conductors and fill the solder cups on the back of the inserts with solder as required. Solder conductors in place and remove any solder spikes/excess from the solder cup.

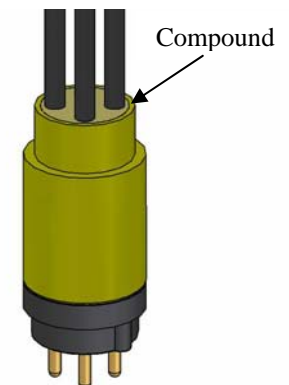
- b) Crimp Inserts (1.5 – 4mm<sup>2</sup>).
- i) Crimp the conductors into the contacts using Weidmuller CTX CM 1.6/2.5 crimp tool part number 901849 only. For 0.75 to 1.5mm<sup>2</sup> conductors use the 1.5 die. For 1.6 to 4mm<sup>2</sup> use the 2.5 die. If the contacts are to be solder terminated to the conductors, this must be done prior to insertion through the rear contact retainer.
- ii) Feed the contacts through the required numbered hole on the rear contact retainer and slide the insertion tool over the contacts up to the groove (one end for pin and one for socket). Clip the groove on the contact into position in the rear contact retainer with the tool.
- iii) Align the flat on the rear contact retainer with the key on the front contact retainer and slide over the contacts into position.



- 4) Slide the rubber pot back onto the insert.

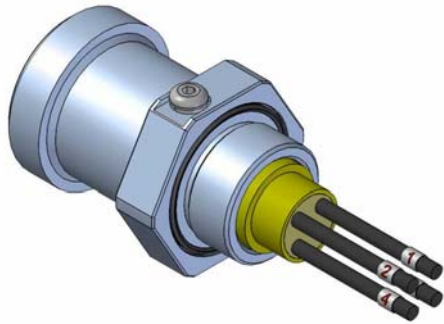


- 5) Stand the insert upright. Secure as necessary.
- 6) Remove the compound from the foil packaging. Remove the central barrier separating the compound from the activator. Mix the two thoroughly until the colour of the compound is consistent throughout. Cut a small hole at the end of the taper in the bag and pour into the rubber pot until flush with the end of the pot. Do not overfill. Leave for 2-3 hours to cure.

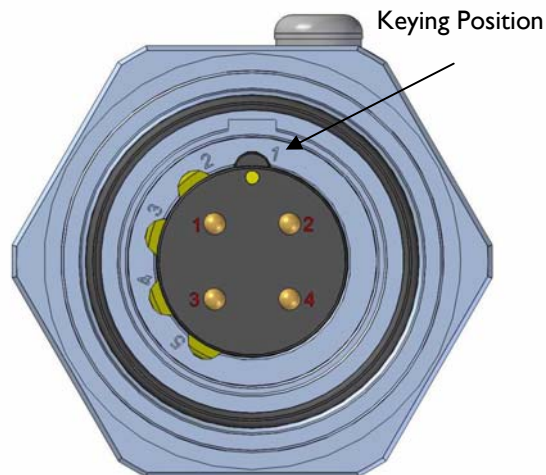


## AI353 Rev 4 ATEX BULKHEAD RECEPTACLE TERMINATION PROCEDURE

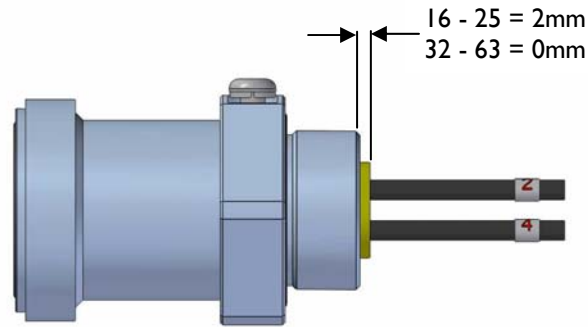
- 7) Peel off any excess compound from the outside diameter of the pot and insert.
- 8) Push the electrical insert assembly into the rear of the BR connector assembly. Do not push all the way in.



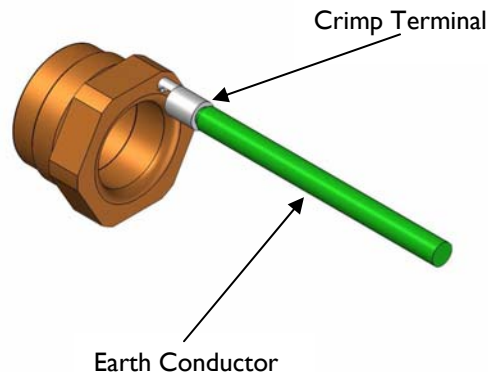
- 9) Rotate the insert assembly until the coloured dot on the face of the insert is aligned to the required keying position.



- 10) Push the insert assembly fully into the connector. The insert assembly should no longer rotate and the rubber pot should protrude the distance shown.



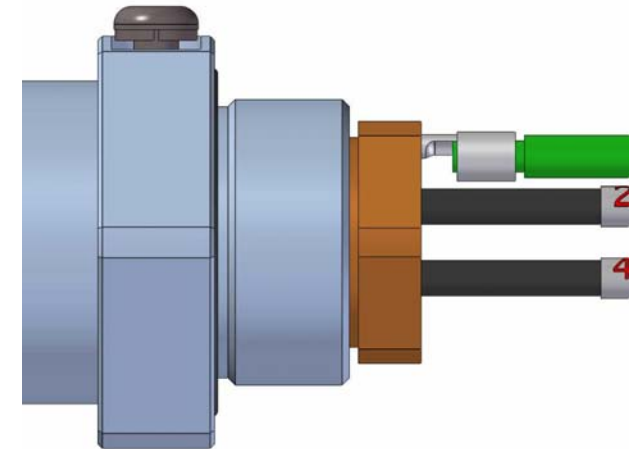
- 11) If an internal earth has been carried through, then an earth conductor (see table right) must be attached to the crimp terminal on the potting retainer. (Earth conductor must be long enough to reach the common earth of enclosure or apparatus).



### Earth Conductor Information

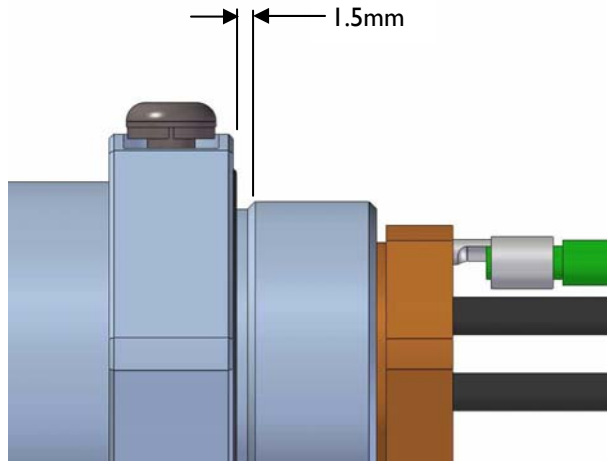
Insert Conduct or Size	Earth Conduct or Size (min)	Supplied Crimp Range
1.5mm <sup>2</sup>	4mm <sup>2</sup>	2.7 - 6.6mm <sup>2</sup>
2.5mm <sup>2</sup>	4mm <sup>2</sup>	2.7 - 6.6mm <sup>2</sup>
4mm <sup>2</sup>	4mm <sup>2</sup>	2.7 - 6.6mm <sup>2</sup>
6mm <sup>2</sup>	6mm <sup>2</sup>	2.7 - 6.6mm <sup>2</sup>
10mm <sup>2</sup>	10mm <sup>2</sup>	6.7 - 10.5mm <sup>2</sup>
16mm <sup>2</sup>	16mm <sup>2</sup>	10.6 - 16.7mm <sup>2</sup>
25mm <sup>2</sup>	16mm <sup>2</sup>	10.6 - 16.7mm <sup>2</sup>
35mm <sup>2</sup>	16mm <sup>2</sup>	10.6 - 16.7mm <sup>2</sup>

- 12) Hand tighten the potting retainer into the BR shell. Now tighten a further 1 1/2 to 2 full turns with a spanner.



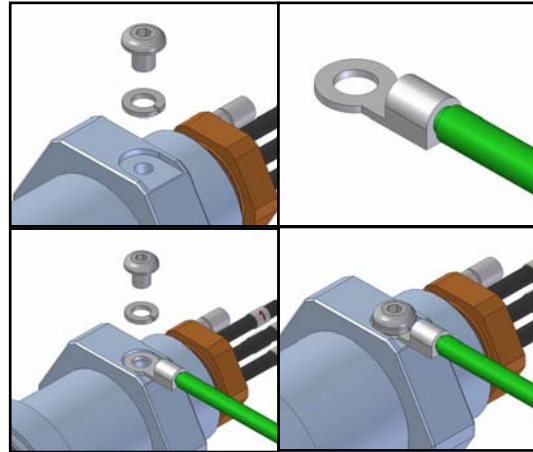
## AI353 Rev 4 ATEX BULKHEAD RECEPTACLE TERMINATION PROCEDURE

- 13) The connector assembly can now be installed in the enclosure or apparatus. It should be noted that there is a 1.5mm undercut on the entry thread of the BR shell when installing in 'd' rated equipment.



- 14) If an internal earth has been carried through, it must be terminated to the common earth of the enclosure or apparatus. The earth conductor terminated in step 11 must also be attached to the common earth.

- 15) The final step is to terminate the external earth. To do this, remove the button head screw and spring washer from the BR shell. Now terminate the earth conductor (see table in step 11) to the crimp supplied with the insert. Attach the crimp to the BR shell as shown.



- 16) The connector is now ready for use. Please refer to the 'Hook Up' procedure.

HAWKE / ATEX -SIZE-TYPE / Tamb -40°C TO + °C – T\*  
MAXIMUM DISSIPATED WATTAGE = \*W

II2GD EExd IIC T\*\* / IP66/67 / HAWKE OL7 ONA UK I180

CERTIFICATE NUMBER: Baseefa03ATEX0355X

WARNING: DO NOT SEPARATE WHILE ENERGISED. DO NOT OPEN EVEN WHEN ISOLATED WHEN FLAMMABLE ATMOSPHERE PRESENT.



\*FILL IN AS APPROPRIATE FROM TABLE BELOW

CONNECTOR SIZE	UPPER AMBIENT = 40°C		UPPER AMBIENT = 50°C		UPPER AMBIENT = 65°C	
	TEMP CLASS		TEMP CLASS		TEMP CLASS	
	T6	T5	T6	T5	T6	T5
16	5W	7W	4W	6W	2W	4W
25	8W	11W	6W	10W	3W	6W
32	10.5W	14.5W	8W	12W	4W	8W
40	12W	17W	9W	14W	4W	9W
50	13W	20W	10W	17W	5W	10W
63	17W	29W	13W	24W	6.5W	13W

\*\*T5 = 95 AND T6 = 80

No maintenance or servicing is required on this product. Do not exceed maximum dissipated wattage stated in above table.

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