



Connector Application HVSTM Straight Joint Connectors (Solid and Split)

As a safety check, bolts should be run through the threaded holes in the body before installation to ensure there is no contamination trapped in the thread.

1. Overlap the cores to be jointed together in the positions they will finally occupy.
2. Place the connector alongside the cores in the position it will finally occupy.
3. Mark the centre point of the connector onto one of the cores. Cut the core at this mark.
4. Remove the insulation for a distance equal to the insertion depth of the connector plus 5mm (or as specified by joint insulation suppliers). Remove any surplus impregnated oil, if present, from the conductor, abrade with fine Emery paper, then clean.
5. Slide the 'solid' end of the connector over the bare conductor exposed in (4).
6. Ensure that the conductor extends right to the bottom of the conductor entry hole and fit the two conductor clamping bolts finger tight at this end of the connector.
7. Hold the connector at this end with the connector holding tool. Starting at the bolt nearest to the core insulation tighten each bolt sequentially by half a turn until the bolt shears off*.
8. Lay the second core to be connected alongside the connector and:

For solid connectors:

9. Mark the insertion depth of the second connector entry hole on to the connector body.
10. Transfer the mark made in (9), on to the second core to be connected.
11. Cut the core at the mark made in (10).
12. Remove the insulation and prepare the conductor as described in (4).
13. Insert the second core into the fitting.

For split connectors

14. Mark the position of the 'blind' end of the conductor entry channel on to the conductor.
15. Cut the conductor at the mark made in (14).
16. Remove the insulation and prepare the conductor as described in (4).
17. Pass the connector sleeve over the end of the conductor prepared in (16).
18. Lay the conductor into the open part of the entry channel of the connector.
19. Place the tapped insert over the conductor.
20. Slide the sleeve over the insert and channel ensuring that the holes in the sleeve line up with those in the insert.

For split and solid connectors

21. Connect the conductor into the connector as described in (6) and (7).



Notes:

- a) For sector shaped stranded aluminium conductors, fitting is facilitated if, prior to removal of the insulation, the conductor is circularised where it is to enter the connector. this is only necessary on the largest conductor size for which the connector is intended.
- b) An adjustable connector holding tool is available for the connectors (IT-1000-019).
- c) If the bolt is felt to shear, but the head does not immediately become free, the direction of rotation should be reversed until the bolt head detaches itself.