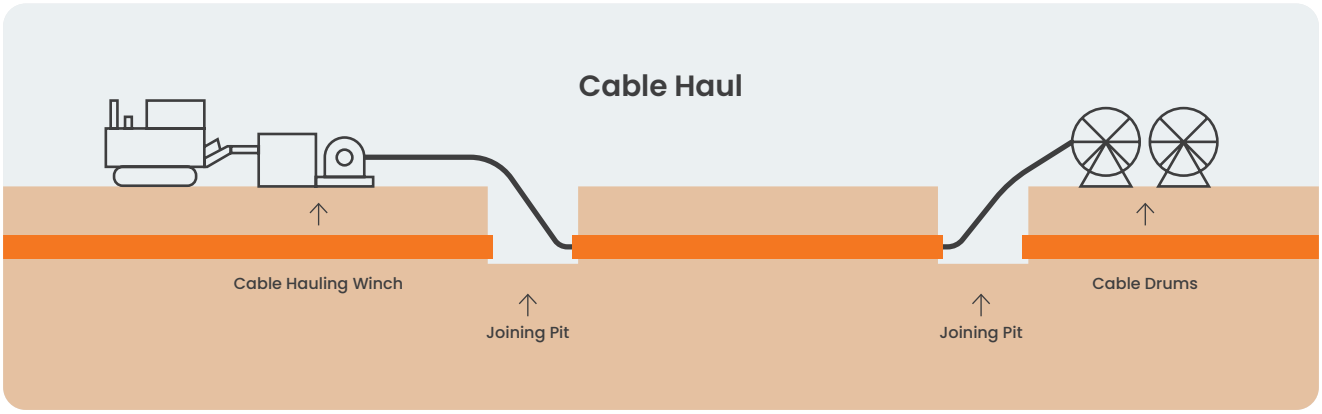
Cable Hauling

What is cable hauling?

Cable hauling is the process of pulling high-voltage 132kV transmission cables through the underground conduit system installed using open trenching or horizontal directional drilling (HDD).

It is one of the final stages of underground transmission construction and requires specialised equipment to safely handle the weight, length and tension of the cables.





How cable hauling occurs

1. **Stage one: site preparation**

   We establish a work area for hauling equipment, including traffic management and barricades to ensure safety for pedestrians, road users and workers.

   During trenching or horizontal directional drilling, crews excavate specific locations along the cable route to create haul pits (jointing pits).

2. **Stage two: cable drum set-up and hauling**

   Crews use cranes or specialised lifting equipment to position large cable drums (4.2 metres in diameter, weighing 27 tonnes, about the weight of a humpback whale) at the first haul pit. A cable haul winch is set up at the second haul pit.

   Before hauling begins, crews push a draw rope through the conduit to connect the winch to the cable. The winch then slowly pulls the cable through the conduit.

   Crews carefully monitor tension at all times and lubricate the cable to prevent damage. Teams are positioned along the route to ensure cable hauling is carried out safely and in a controlled manner.

3. **Stage three: cable placement and jointing**

   Once the cable reaches the end of the conduit section, crews position it for jointing. Jointing connects the cables to form a single longer cable run. Once joined, the cable is inspected and tested prior to backfilling and reinstatement.

4. **Stage four: final reinstatement**

   After cable hauling is complete, crews backfill all haul pits and access points, and permanently reinstate all roads, verges and footpaths.

What you'll notice

- During cable hauling, we'll put temporary lane closures or detours in place around haul sites to keep workers, vehicles and community members safe. We'll provide details in works notices before works start.
- There will be short-term noise from winches and machinery. Noise levels will remain within the Western Australian Environmental Protection (Noise) Regulations.
- Dust may be generated during cable hauling. We'll use water trucks, water trailers and barricades to minimise dust impacts during construction.

Need more information?

General construction queries
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