

# Double Corrosion Protected Cable Bolt

**DCPCB**

Product – DCPCB

## Physical Properties

	Minimum	Typical
Yield Strength	495kN	525kN
Tensile Strength	573kN	595kN
Mass Per Metre		2.7kg
Fittings Weight		3.6kg
Cable (Strand) Diameter		21.8mm
Expansion Shell Bore Hole Range		Ø58 to Ø60mm
HDPE Sheathing Wall Thickness	2mm	2.0 to 2.5mm
HDPE Sheathing Diameter		

## Overview

The DCP cable bolt is a high load, flexible cable version of a tried and proven solid DCP bolt. The DCP cable is anchored into strata with a rotationally engaged (threaded) expansion shell. Tension is applied using a nut on the DCP cables tensioning head. The cable is post grouted via the top down method using a grout port on the tensioning head. The cable is assembled at DSI and shipped ready to install with a compatible dome plate.

## Key Features

- A plastic HDPE encases the cable from down to the tensioning head providing a barrier to combat the effects of corrosion. The HDPE sleeve has deformations for load transfer to flow from the cable to rock interface when fully grouted.
- Top down grouting is achieved by pumping through a grout port on the tensioning head. The grout then flows up the inside of the HDPE sleeve then out the top and down the outer annulus.
- The tensioning head assembly can sustain collar loads of between 52 and 55 tonne.
- The bolt is provided with an expansion shell for preloading, thus allowing for tunnel or mine heading to advance without immediate grouting.
- Spherical seat for grout cup alignment.
- Stainless steel dome washer with plastic isolation system to separate black and stainless steel components



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## Installation Guidelines

- Drill a Ø57 to Ø60mm bore hole (nominal size Ø58mm).
  - Domed washer plate is fitted to the bolt.
  - The bolt is inserted into the hole.
- After placing the bolt in the hole to its full length, the bolt is then rotated to set the expansion shell and tension head to the required tension typically >55kN.
- Attach grouting adaptor to Grout Bell.
- Mix 0.33 to 0.35 W/C grout. Pump grout. Grout is pumped through the inner annulus to the bolt end and returns along the outer annulus.
- Terminate grouting with visible grout return.
- Detach adaptor and proceed to next bolt.

## Standard Lengths & Packaging

- Consult DSI Underground for standard product lengths and drill hole specifications.
- Packaging is typically in straight lengths up to 10m.

## Notes

- Only DSI Underground rock bolt components should be used to enable the optimum performance of the bolt system to be obtained
- DSI Underground is Quality Assured to ISO 9001:2015

## Phone APP

- Want to know more; our full product range, knowledge centre, and other details are available via the App; available on iOS and Android devices by searching “DSI Underground”.



iOS



Android