

Cable Bolt Bulbed Cut to Length

Product – 15.2mm Bulbed Cable

Product Code Guide	Bolt Type	Strands	Bulbs/Meter	Length	Tails Type	Packaging	Tail Length
	CB	D/S	1B	060	D	C	05

Physical Properties

	Minimum	Typical
Yield Load at 0.2% Elongation - Single / Twin Strand	212kN / 424kN	250kN / 500kN
Tensile Strength – Single / Twin	250kN / 500kN	265kN / 530kN
Elongation on 600mm Gauge Length	3.5%	6.5%
Barrel and Wedge Tensile Load (Linear)		245kN
Mass per Metre		1.13kg
Nominal Cross sectional Area		143mm ²
Nominal Strand Diameter		15.2mm

Key Features

- Manufactured from stress relieved, low relaxation, high strength 15.2mm diameter 7 wire steel strand the cable bolt is formed by bulbing the strand into small cages, typically 26-28mm diameter, and at 1 bulb per metre.
- It is a highly flexible product that can be tailored to suit site requirements. It can be manufactured with or without bulbs, Bulb frequency can be modified, and de-bonding tube can be added to change the installed cable stiffness performance.
- The bulbed cable bolt is supplied in either single, double or in combination forms. Single bulbed plus single plain cable. They are supplied in nominated lengths for grouting into holes from 35mm to 105mm diameter.
- Can be used with cementitious grouts as well as resin anchors when early support is required.
- For up hole applications involving cementitious grout, cable bolts are fitted with a spring wire “fish hook” to hold the cable bolt at the top of the drill hole. Cementitious grout can then be emplaced either top-down or bottom-up.
- Surface confinement is usually provided by flat or domed plates and barrel and wedge anchors. For accessories refer to appropriate pages for slotted or multiple hole plates, barrel and wedge anchors, cable bolt spacers, grout and breather tubes.



Standard Length & Packaging

- Standard bolt lengths range from 3000mm to 30000m in 300mm increments.
- Specialised requirements are available by negotiation.
- Bulbed cable bolts are normally supplied in straight lengths up to 6 metres and bundled. Cables over this length are usually coiled.

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Installation Guidelines

- In coal mining applications the preferred hole diameters are 35/36mm for single bulbed cable bolts and 50mm for double bulbed cable bolts.
- Holes are drilled approximately 200mm shorter than the bolt length. If the bolts are to be tensioned a tail of between 200 to 500mm is required dependent on the type of tensioning unit to be used.
- For cementitious grouting, the bulbed cable bolt is prepared by attaching a breather tube to the full length of the bolt. Allow for greater than 2 metres of breather tube to protrude into the roadway from the bottom of the drill hole. Similarly, attach an adequate length of grout emplacement tube to the bottom of the cable for connection to the pump.
- The bulbed cable bolt is inserted into the drill hole and the drill hole collar is sealed to eliminate the loss of grout when pumping. Optimal grout migration and cable encapsulation requires a good drill hole seal at the collar.
- Connect the grout tube to the pump. The air bleed (breather) tube is placed into a container of water and pumping commenced. Air bubbles will exhaust from the breather tube while pumping and be visible in the water container.
- When the hole is full of grout these air bubbles will cease to flow.
- After the grout has cured the bolt can be tensioned to approximately 10 tonnes to provide surface confinement. Resin point-anchored single cables can be tensioned to 20 tonnes.

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

Typically used products with these items are:

	Products		
Product Group	Tensioner	Plate	Barrel and Wedge
Product Imagery			
Product Code Prefix	TEN	FCB	BLW



Rock Bolts – Cable 15.2mm

Product Code Prefix

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CBD

Product – 15.2mm Bulbed Cable

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

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Published Date 8.6.2021

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