

ULTRA STRAND CABLE BOLT – INTENDED

ULN

Product – 21.8mm Indented Cable

Product Code Guide	Bolt Type	Length	End Type	Pack size	Packaging
	ULN	610	W	50	C

Physical Properties

	Minimum	Typical
Yield Load at 0.2% Elongation	495kN	525kN
Tensile Strength	573kN	595kN
Elongation on 600mm Gauge Length	3.5%	5.7% - 6.4%
Mass per Metre	242kg	
Nominal Strand Diameter	21.8mm	

Key Features

- The Indented ULTRA Strand Bolt is a cable designed to be installed as a long rock bolt which is capable of being post-tensioned at the face, or out-by, to loads of up to 25 tonnes using the DSI Tensioner Unit.
- The Indented ULTRA Strand Bolt is manufactured from 19 wire strands for flexibility. Strand construction is 9 x 5.38, 9 x 3.05 and 1 x 6.10mm in left hand lay.
- The Indented ULTRA Strand Bolt has a special collar and segmented wedge, which can sustain typical collar loads of 52 tonne.
- The Indented ULTRA Strand Bolt is designed for high pre-tensioning using a point anchor system. Full encapsulation up to 8.0m is obtainable depending on installation equipment available.
- If full encapsulation is required, extra slow speed resin anchors of 20 minutes set time are available.
- The Indented ULTRA Strand Bolt can also be effectively used with cementitious grouts
- The Strand Bolt concept allows a longer than seam height bolt to be installed at up to 30° from the vertical at the face, or out-by, to supplement existing strata reinforcement. Compatible domed plates are available to be used with the Indented ULTRA Strand Bolt.



Standard Length & Packaging

- Standard bolt lengths range from 4100mm to 10100m.
- Collar/wedge assemblies are supplied separately to the bolt.
- Specialised requirements are available by negotiation.
- 4100 to 8100mm long Indented ULTRA Strand Bolts are strapped in bundles of 50 and supplied on steel trays.
- Assistance should be sought from DSI's Technical Service Engineers in selection of the correct Indented ULTRA Strand Bolt fittings for the application and correct product codes.

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Installation Guidelines

- 28mm hole diameters are preferred.
- Hole depth is critical. Hole depth should be approximately 200mm shorter than the bolt length.
- This allows for sufficient tail to fit accessories, roof plate, collar/wedges & tensioner unit.
- After insertion of the chemical anchors the bolt is rotated through the anchors until the bolt reaches the back of the hole.
- It is important to follow the resin anchor recommended mixing and hold times as printed on the resin anchor cartons. Do not over mix.
- The tensioner unit is connected to the Indented ULTRA Strand Bolt and tension applied.
- For further details refer to DSI’s tensioner unit user instruction guide.

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	D2020	BLW

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