



## MLCO TRADING LIMITED ®

TPIN: 2061889389

Service Re-Invented

P.O Box 28050, Parklands, Kitwe, Zambia.

Tel + 260-966-849978 / +260 966 512070, Email admin@mlcotrading.com

### PIGTAIL EYEBOLTS

The suspension bolt product provides a mechanism to quickly and safely suspend services from the hanging wall, using an expansion shell for installation.



#### TECHNICAL INFORMATION

Lengths	Pigtail eyebolts are available in standard lengths as shown in the table below. Lengths are measured to below the twist.			
	<b>Type</b>	<b>Length</b>	<b>I.D of eye</b>	<b>Breaking Load (kN) mIN</b>
	M16	450	64	78.5
		880	64	78.5
	M20	450	64	105
		880	64	105
		1500	64	105
Threads	<p>A cold-rolling process forms all threads.          The pigtail eye is hot formed for better mechanical properties.          The following standard thread types are available: Metric (right hand only):</p> <ul style="list-style-type: none"> <li>• M16 x 2 – 8g</li> <li>• M20 x 2.5 – 8g</li> <li>• DIN 405</li> <li>• RD16 x 1/8</li> <li>• RD20 x 1/8</li> </ul>			
Mechanical properties of raw material	<b>Type</b>	<b>Yield Strength</b>	<b>Ultimate tensile strength</b>	<b>Elongation *</b>
	M16	360 MPa (min.)	570 MPa (min.)	22%
	M20	450 MPa (min.)	600 MPa (min.)	14%



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### **PIGTAIL EYEBOLT INSTALLATION PROCEDURE**

1. Before commencing with any work, examine the place where the bolts are to be installed and make safe. Bar down where necessary and install temporary support in accordance with the relevant mine standard procedures.
2. Drill the hole where indicated to the required depth and the correct diameter.
  - 2.1. The depth of the holes should be at least 50mm longer than the overall length of the bolt.
  - 2.2. The diameter of the holes for various expansion units should be within the range as shown in Table 1.

<b>Expansion Unit Size</b>	<b>Hole Diameter</b>
30	30-32
32	32-35
35	35-38
38	38-43
40	40-43
43	43-47
45	45-50

3. Remove the plastic sleeve from the expansion unit and discarded.
4. The rotate the expansion unit for a few turns to make sure that it moves freely along the thread.
5. Insert the eyebolt into the hole expansion unit first, to the required depth.
6. The eyebolt is then twisted to expand the expansion unit and secure the eyebolt into place.