THE NUTTY COMPANY INC
FASTENER SPECIALISTS SINCE 1977

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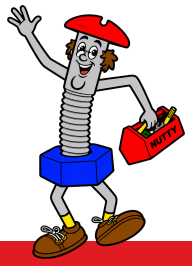
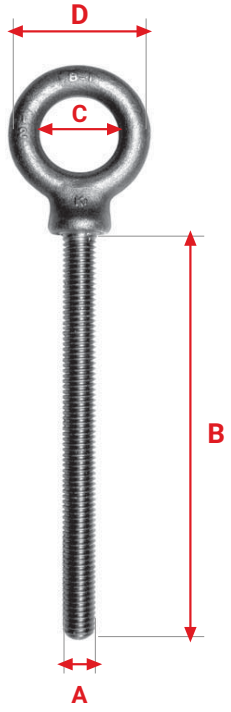


PRODUCT DATA SHEET

Long Shank Lifting Eyes

MADE IN THE U.S.A.

1.0 Dimensions & Rated Capacities (inches)



- **Long shank, shoulder pattern** forged eyebolts – extra thread length for through-holes, thick plate and nut-secured installs.
- **Fully threaded** shank, UNC-2A coarse thread.
- **Drop forged carbon steel,** self-colored (plain), ASTM A489.
- **Shoulder** seats flush against the work – required for any angular lift.

Nutty Stock No.	A Thread UNC-2A	B Shank Length	C Eye I.D.	D Eye O.D.	Weight (lbs.)	Rated Capacity 0° (lbs.)*
LES12133	1/2-13	3"	1-3/16"	2-1/16"	0.45	2,400
LES12134	1/2-13	4"	1-3/16"	2-1/16"	0.50	2,400
LES12136	1/2-13	6"	1-3/16"	2-1/16"	0.59	2,400
LES58113	5/8-11	3"	1-3/8"	2-1/2"	0.81	4,000
LES58114	5/8-11	4"	1-3/8"	2-1/2"	0.89	4,000
LES58116	5/8-11	6"	1-3/8"	2-1/2"	0.99	4,000
LES34104	3/4-10	4"	1-1/2"	2-13/16"	1.17	5,000
LES34106	3/4-10	6"	1-1/2"	2-13/16"	1.42	5,000
LES186	1-8	6"	1-13/16"	3-9/16"	2.93	9,000

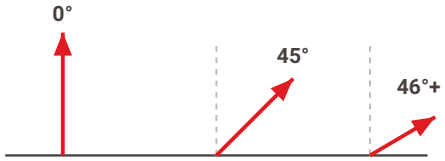
*Rated capacity is for 0° vertical pulls. Angular lifts reduce capacity – see Rated Capacities below.

2.0 Material Data

Property	Long Shank Lifting Eyes
Material	Drop forged carbon steel
Specification	ASTM A489
Heat treatment	Quench and draw
Grain size	5 or finer
Tensile strength	65,000 psi min – 90,000 psi max
Yield strength	30,000 psi min
Elongation	30% min
Reduction of area	60% min
Thread	Fully threaded, UNC-2A
Finish	Self-colored (plain)
Origin	**Made in the U.S.A.**

3.0 Rated Capacities

Size	0° lbs.	45° lbs.	46°+
1/2"	2,400	600	SWIVEL HOIST RINGS
5/8"	4,000	1,000	
3/4"	5,000	1,250	
1"	9,000	2,250	



Angle of pull is measured from the axis of the shank. Beyond 45° eyebolts are not rated – use safety swivel hoist rings.

4.0 Application & Installation

- The receiving hole should be counter-sunk and be free and clear of any debris to assure proper seating.
- LOADS SHOULD ALWAYS BE ALIGNED TO THE PLANE OF THE EYE, not at an angle to the plane. A steel washer or spacer may be used in conjunction with Shoulder Eyebolts to attain proper load alignment. The thickness of the steel washer or spacer must not exceed one thread pitch.
- Angular lifting should be avoided. Angular lifts significantly reduce rated capacities (see Rated Capacities table).
- Check seating after applying an angular lift since the initial lift may cause the bolt to back away from the load. If such occurs, the Eyebolt should be unloaded & properly reseated.
- For applications with untapped through-holes, longer length Shoulder Eyebolts are recommended, using a steel washer and nut for the required thread length of engagement.
- Shoulder Eyebolt tapped holes are to have a threaded length which allows for full length of shank engagement and clearance for the unthreaded portion of shank.
- Shoulder Eyebolts must be firmly seated and flush against the mating surface; otherwise, the rated capacity is reduced significantly. The use of a steel washer or spacer is permissible and may be required; however, the thickness must not exceed one thread pitch.

5.0 Inspection & Maintenance

- Eyebolts should be inspected and installed by a competent person who is knowledgeable about the application and installation of Eyebolts.
- Each Eyebolt must be completely inspected BEFORE each use for possible defects such as: distortion, bent shank/threads, or incomplete/incorrectly formed threads. Periodic inspection of Eyebolts is highly recommended.
- Eyebolts should not be painted or otherwise coated when used for lifting; such coatings make it difficult to inspect for defects or wear indicators.
- Eyebolts should not be left where they can incur mechanical damage or corrosion.
- Destroy Eyebolts when signs of bend, elongation, wear or damage are visible. Such signs indicate that the Eyebolt has been stressed (overloaded) beyond rated capacity. Never attempt to repair a stressed Eyebolt.
- Destroy Eyebolts when they show any signs of alteration. Signs include: gouging, undercutting, welding, etc.
- Proper destruction of an Eyebolt: crushing or cutting clear across the eye of the Eyebolt.

6.0 Safety Precautions

- DO NOT work, stand or crawl around the load of the Eyebolt. Ensure a safe distance from the load.
- DO NOT use wrenches, crowbars, etc. to tighten Eyebolts. Hand tightening is recommended.
- DO NOT use a single Eyebolt to lift a load that can rotate. Safety Swivel Hoist Rings are recommended for such loads.
- DO NOT force hooks or any other fittings into the eye; they must fit freely.
- DO NOT exceed the Rated Capacity.
- DO NOT SHOCK LOAD EYEBOLTS. Gradually increase lifting of the load to minimize load-shock.
- DO NOT weld Eyebolts, or perform any weld-repair on Eyebolts.
- DO NOT machine Eyebolts on the shank or shoulder to achieve proper seating.
- DO NOT expose Eyebolts to extreme environmental conditions, as they may adversely affect the Rated Capacity.

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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