

Lexco is an Original Equipment Manufacturer



Capabilities

Lexco is an original equipment manufacturer for customers with assembly needs. Our primary in-house manufacturing expertise includes:

Swaging

- 5 to 500 ton machine swaging presses
- Presses equipped with built-in quality control gauges
- Rotary bench swaging for Military-Specifications and architectural fittings
- Rotary swaging for ball fittings

PVC/Vinyl & Nylon Coating Extrusion

- Outer diameters from 3/64" to 5/8"
- Custom color matching

Cable Coiling

- Custom coil diameters
- Bare or coated coil

Cable Cutting

- Automatic mechanical cutting
- Automatic fuse cutting

Cable Rewinding

- 4 in. to 4 ft. diameter spools
- Custom labeling, barcodes, lot information, etc.

Proof-Loading and Pull Testing

- Calibrated in accordance with UCC Procedure 100 and meets the requirements of ASTM E4-99
- Calibration range: 200 lbs. to 20,000 lbs

Custom Packing Solutions

- Poly bag kits
- Header cards
- Special labeling
- Bar coding

CNC Machining

- Automatic Lathes
- 32mm Max Machining Diameter

Military Specifications

Military specifications are used for cable, fittings and hardware when critical applications require the highest quality assurance available. We carry the following "Mil-Specs":

MIL-DTL-18375	MIL-DTL-83140	MIL-DTL-83420	
MIL-DTL-87161	MS 20663	MS 20664	MS 20667
MS 20668	MS 21251	MS 21252	MS 21254
MS 21255	MS 21256	MS 21259	MS 21260
MS 51844	MS 51937	NAS 1453	AN100

Federal Specifications

RR-W-410	FF-T-276	RR-C-271	FF-C-450D
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Boeing Specifications

Plain Ball (BACT14B, NAS494)
Terminal Cylindrical (BACT14A)
Clip Locking Turnbuckle (B15AJ, MS21256)

ASTM Standards

A363, A475, A586, A603, A1023

Other Compliances Available:

DFARS and RoHS

We have domestic and overseas manufacturing capability; a global network of suppliers to fabricate, manufacture and deliver your specific custom cable solution.



Cable Assemblies

About Us

Lexco Cable is a family-owned and operated business. It began as a hardware store and bicycle shop on Chicago's west side in the 1950s. Today, Lexco has a cable assembly division and a bicycle division. We are proud of what we do and we take our work very seriously.

Extraordinary Applications

Lexco Cable specializes in fabricating, manufacturing and assembling custom cable solutions in collaboration with our customers.

In 2002, Alliance Space Systems Inc. needed wire rope with a specific breaking strength to tether a robotic arm on a Mars Exploration Rover. After exhaustive testing, we furnished a unique custom tether assembly fabricated to break at precisely that moment when failure was critical to the project's success.

In response to security threats to our harbors, ports and waterways, we supply wire rope for installing barriers that guard assets vital to homeland security.

Aimed at leveraging and extending human capabilities, we manufacture custom assemblies used in exoskeletons designed by the Institute of Human Research and Cognition.

Not all of our work is this noteworthy or dramatic, but it shows how important and innovative cable fabrication can be. If you have a special product requirement but don't see it listed here, just ask! We look forward to meeting and working with you.



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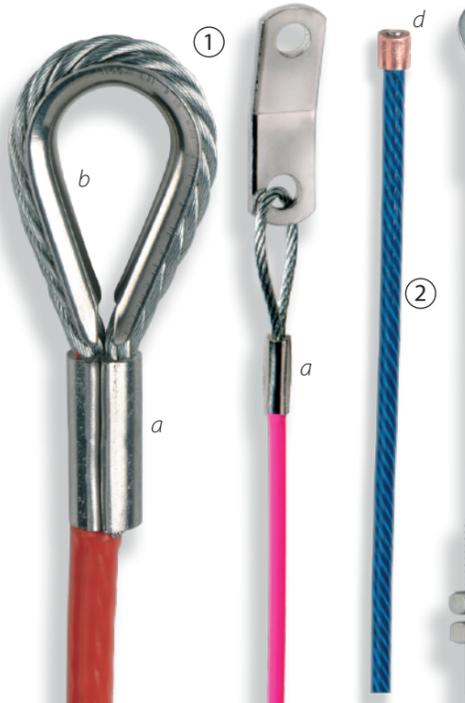


Lexco 101

Cable Assemblies

A cable assembly is a wire rope with attached fittings and hardware that serves a useful purpose. Across the bottom of this page are a few examples.

- ① **Loop** assemblies are simple yet highly versatile. They are commonly used in towing, hoisting, safety tie-down, theft protection, etc. (sling, lanyard, tether).
- ② **Button Stop** assemblies anchor cable ends and prevent fraying (ferrule).
- ③ **Eyelet** assemblies provide a clean versatile connection point for many uses; mounting light fixtures, installing push-pull controls, securing displays, anchoring cable, etc. (stake eye, lanyard, tether).
- ④ **Push-Pull Controls** provide precise mechanical control, from restricting physical access to actuating emergency brakes. They are shown here with eyelet, loop and ball end options.
- ⑤ **Threaded Stud** assemblies enable tensioning adjustment while anchoring the cable, threading into fixtures or securing with a washer and nut (swage stud, threaded plug, threaded terminal).
- ⑥ **Fork End** assemblies connected by clevis pins are often used for aircraft controls and structural support (swage jaw, MS20667).
- ⑦ **Eye End** assemblies connect to fork ends via clevis pins. They are often used for aircraft controls and structural support (Marine Eye, MS20668).
- ⑧ **Coiled** assemblies compactly manage cable length. They are popular for trailer safety cables and security applications such as retail displays and bicycle locks.



Bungee Cords

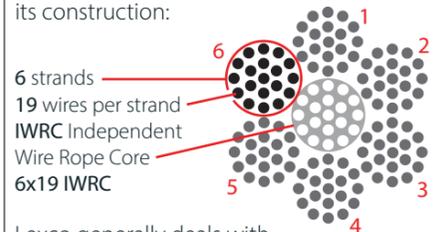
- ⑨ As with cable assemblies, bungee cords are used for tethering and tie-down applications, but their elasticity makes them ideal for specific applications, such as securing tarps, luggage, etc.

Wire Rope

Wire Rope is multi-wire strands laid geometrically around a core. A **Strand** is a grouping of wires into



separate cords that together form a wire rope. **Cable** is a term loosely applied to wire rope and wire strand. A wire rope is specified by the number of strands, the number of wires in each strand and a description of its construction:



6 strands
19 wires per strand
IWRC Independent Wire Rope Core
6x19 IWRC

Lexco generally deals with diameters ranging from 1/32" to 2 1/2".

Lexco distributes wire rope and cable in bulk.



Wire Rope Materials

Stainless Steel is highly corrosion resistant. (Available in grades 302, 304 and 316).

Galvanized wire rope is zinc coated to resist corrosion in mild environments.

Bright rope is self colored or ungalvanized steel. It is lubricated to protect against rust.

Aircraft Cable

Aircraft Cable is a one part construction wire rope made of special strength wire. Originally made for use in the aircraft industry it is now available to the commercial market. It comes in smaller diameters than most wire rope, ranging from 1/32" to 3/8".

PVC/Vinyl & Nylon

PVC/Vinyl & Nylon coatings protect against corrosion and reduce wear on cables and components. **Nylon** is harder than Vinyl, better in higher temperatures and used on pulleys. **Vinyl** provides good UV protection, is more flexible than Nylon and is more cost effective.



Vinyl coating colors

Strand

Strand is made up of fewer wires. Their stiffer nature is ideal for straight applications such as guy wires or railings. Common constructions are 1x7 and 1x19.



Architectural Cable

Lexco's Cable Railings and Deck Railings can save that lovely view. The corresponding fittings and hardware produce a simple, strong and aesthetically beautiful solution.



- A **Threaded Terminals** connect cable through the post via a nut or end cap.
- B **Toggle Jaw** Turnbuckles connect cable to a welded tab or eyebolt.
- C **Deck Toggle** Turnbuckles lag surface mount to the inside edge of a post.
- D **Button, Ball** Turnbuckle are also used for through-post connections but are more visually appealing than threaded terminals.



Cable Fittings

Fittings are components fabricated to the cable that complete the assembly or permit other components to be added. Available in bulk.

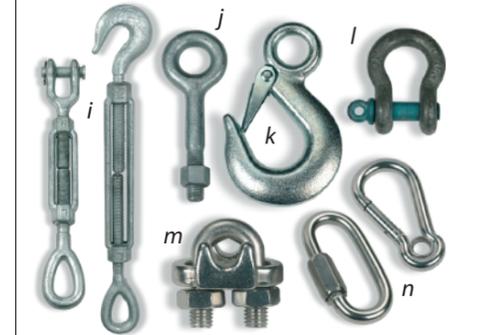


- a - **Sleeves** create loop ends.
- b - **Thimbles**, installed on the inside of a cable loop, prevent wear and fraying.
- c - **Eyelets** are used for mounting screws, bolts through the pin hole.
- d - **Button Stops, Balls & Shank Balls** provide surface area for attaching assembly components and prevent fraying.
- e - **Eye Ends & Fork Ends** are practical for quick connection and release.
- f - **Strap Eyes & Strap Forks** swivel on a single shank ball allowing the load to rotate without transferring twisting tension to the cable.
- g - **Threaded Plugs and Studs** provide adjustable connection into a fixture or another threaded component.
- h - **Tiller Clamps** install with hand tools for tamper-proof security loops.



Cable Hardware

Hardware describes wire rope components that may be installed without fabrication to the fitted cable. Available in bulk.



- i - **Turnbuckles** adjust cable length and tension.
 - j - **Eye Bolts** anchor cable assemblies and hardware components.
 - k - **Hooks** are available with a single safety latch for towing and hoisting or with a double safety latch for fall restraint.
 - l - **Shackles** provide a sound towing and hoisting connection to cables and chains.
 - m - **Wire Rope Clips** secure loop ends and splices without swaging.
 - n - **Quick Links & Snap Hooks** allow simple and fast connection by hand.
- Swaging** (*pronounced sway-jing*) is the process of cold pressing a fitting to a cable. Some fittings require mechanical swaging of great force, others can be quickly and easily attached with hand tools.

