YALE CORDAGE
A SLINGMAX GROUP COMPANY

# ZipGrip

ZipGrip® is a patented system to allow the installation of a pulling or holdback eye on various cylindrical or nearly cylindrical substrates. These units were primarily developed for use in the offshore pipe lay and umbilical installation and maintenance arena.

Yale Cordage started manufacturing our line of YaleGrips synthetic pulling and stopping grips more than 20 years ago, and they have been used successfully worldwide for the deployment of umbilicals, hard pipes, flex cables and armored cables. Our ZipGrip design is based on the same successful platform, and it utilizes the Aramid grip stock in a new design, which not only decreases the overall grip length by approximately 75%, but also significantly increases the working load and distributes the compressive forces, preventing damage to the pipe's outer layers.

ZipGrip lengths when installed are approximately 1/3 of the installed length of our time-tested YaleGrips product. As a guideline, the installed length is 19 times the pipe diameter. **Example** pipe: 170 mm = 3,230 mm installed length. ZipGrips are very fast to install and even faster to remove. Install times are generally 10%–20% of a similar working load and diameter YaleGrips. They also require less application space because you are not dealing with extremely long tails. The installation zone needed is only about 10% longer than the installed length. ZipGrips can be installed on a coiled pipe or umbilical. No need to fully straighten it prior to installation.

**Construction:** Standard product is made with Technora®. Technora Aramid fiber is high strength, low stretch, heat resistant and lightweight.

**Installation/Removal:** Quick and easy to install and remove; temporary or permanent; install at any point along the pipeline.

**Uses:** Pipe lay install or holdback; umbilical install or holdback; pipeline catenary float attachment.

US Patent No. 9,616,579 – Canada Patent No. 2,965,100 CN – UK Patent No.

| Material Size (in) | Material Size (mm) | Minimum Cable Diameter at Given Work Load | Maximum Working Load 5:1 (lb) | Maximum Working Load 5:1 (kg) | Color | Eye Size (in) | Eye Size (mm) | Example Cable Diameter | Installed Length (in) | Installed Length (mm) | Example Unit Weight (lb) | Example Unit Weight (kg) | Estimated Installation Time (min) | Estimated Removal Time (min) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **7/16** | 11 | 64 | 6,800 | 3,070 | Red | 6 | 15 | 100 | 75 | 1,910 | 2.0 | 0.9 | 6 | 2 |
| **9/16** | 14 | 71 | 10,400 | 4,700 | Blue | 6 | 15 | 150 | 113 | 2,870 | 4.6 | 2.1 | 8 | 2 |
| **11/16** | 17 | 79 | 14,400 | 6,530 | Green | 6 | 15 | 200 | 151 | 3,820 | 8.1 | 3.7 | 9 | 2 |
| **7/8** | 22 | 102 | 19,800 | 9,000 | Orange | 8 | 20 | 250 | 188 | 4,780 | 18.0 | 8.2 | 11 | 3 |
| **1** | 25 | 119 | 31,000 | 14,070 | Yellow | 8 | 20 | 300 | 226 | 5,740 | 34.0 | 15.0 | 13 | 3 |
| **1-1/4** | 32 | 145 | 43,200 | 19,610 | Black | 12 | 30 | 350 | 263 | 6,690 | 59.0 | 27.0 | 16 | 4 |
| **1-1/2** | 38 | 168 | 67,600 | 30,670 | Red | 16 | 41 | 400 | 301 | 7,650 | 112.0 | 51.0 | 19 | 5 |
| **1-3/4** | 44 | 241 | 84,000 | 38,090 | Blue | 18 | 46 | 450 | 339 | 8,600 | 192.0 | 87.0 | 23 | 6 |
| **2** | 51 | 277 | 111,500 | 50,570 | Green | 18 | 46 | 500 | 376 | 9,560 | 299.0 | 136.0 | 26 | 7 |
| **2-1/4** | 57 | 343 | 159,000 | 72,140 | Orange | 20 | 51 | 600 | 452 | 11,470 | 539.0 | 244.0 | 34 | 9 |
| **2-1/2** | 64 | 384 | 192,000 | 87,110 | Yellow | 24 | 51 | 630 | 474 | 12,050 | 731.0 | 332.0 | 37 | 9 |

*ZipGrip Properties for a Selection of Diameters: This table represents various examples of what we can manufacture based on different diameters at a specific load. Options are not limited to the loads shown. Please contact Yale to discuss your specific application for custom designs.*