



# CR27

## User Guide

1602019(230907)

# 1. Overview

Muzata CR27 is a great choice for building your cable railing project. It is a completely invisible cable railing kit that can be applied to 4"x4" wood and 2"x2" metal posts. You can install it by yourself easily without any contractor. The T316 stainless steel makes it ideal for both indoor and outdoor uses, even coastal projects.

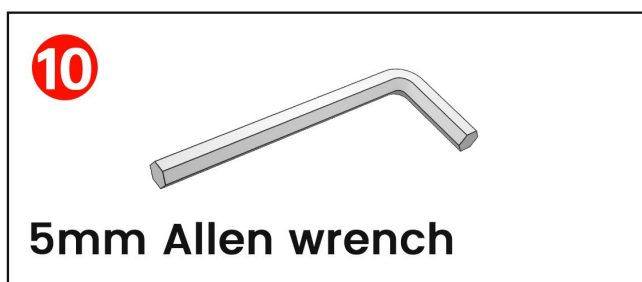
# 2. Specifications



<b>Model</b>	<b>Material</b>	<b>For wire rope size</b>	<b>Finishing</b>
CR27	T316 Stainless Steel	3/16"	Natural

### 3. Items related(Wood posts)

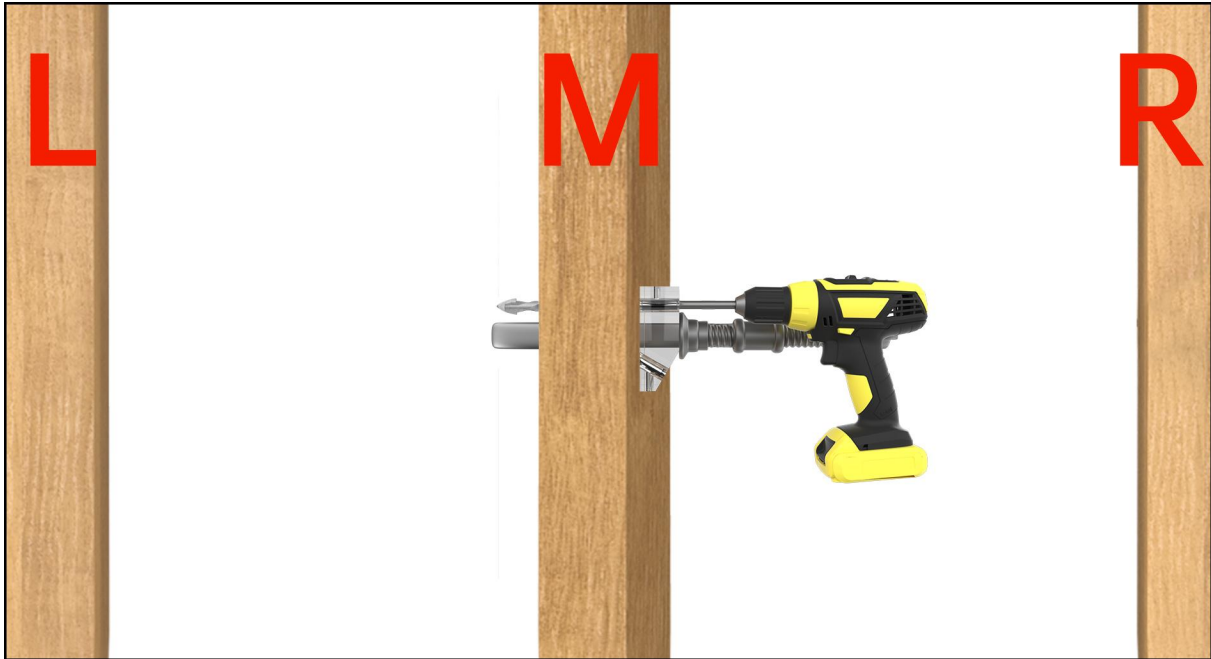
Listed below are all of the accessories and tools related to the Muzata CR27. Please note that not all items are essential. Some may not be included in your package. If you need them, you may need to purchase them separately.



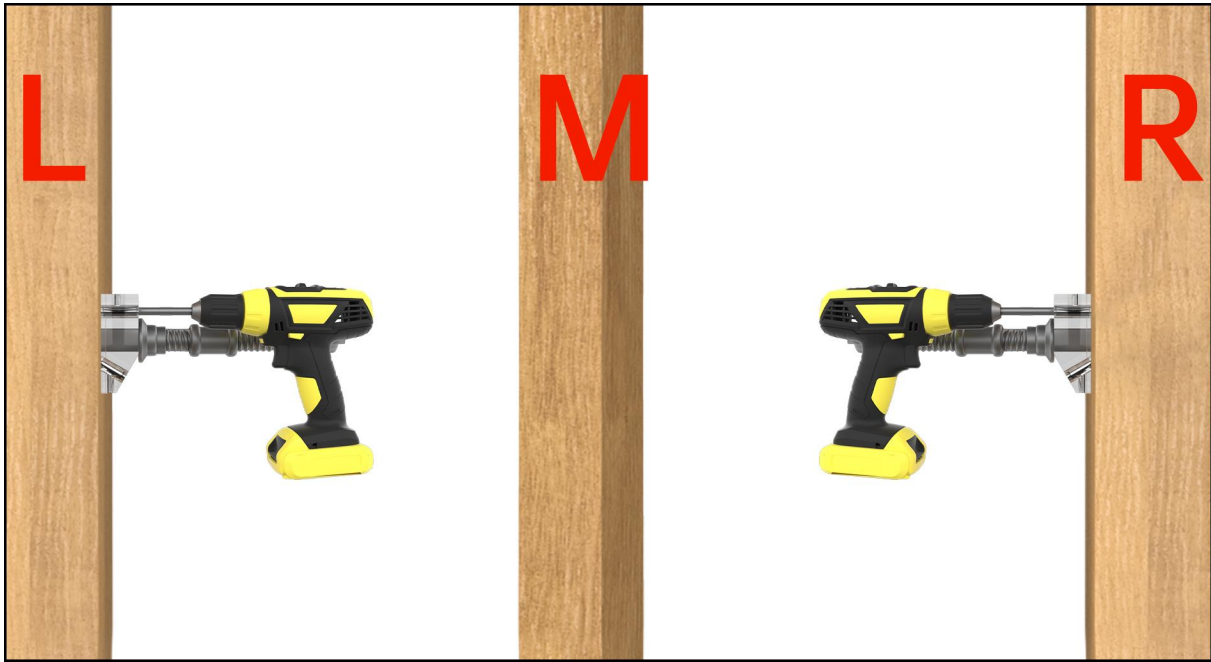
## 4. Installation Steps

We will install the tensioner on the right end post as an example. Actually you can install it on either side according to your need.

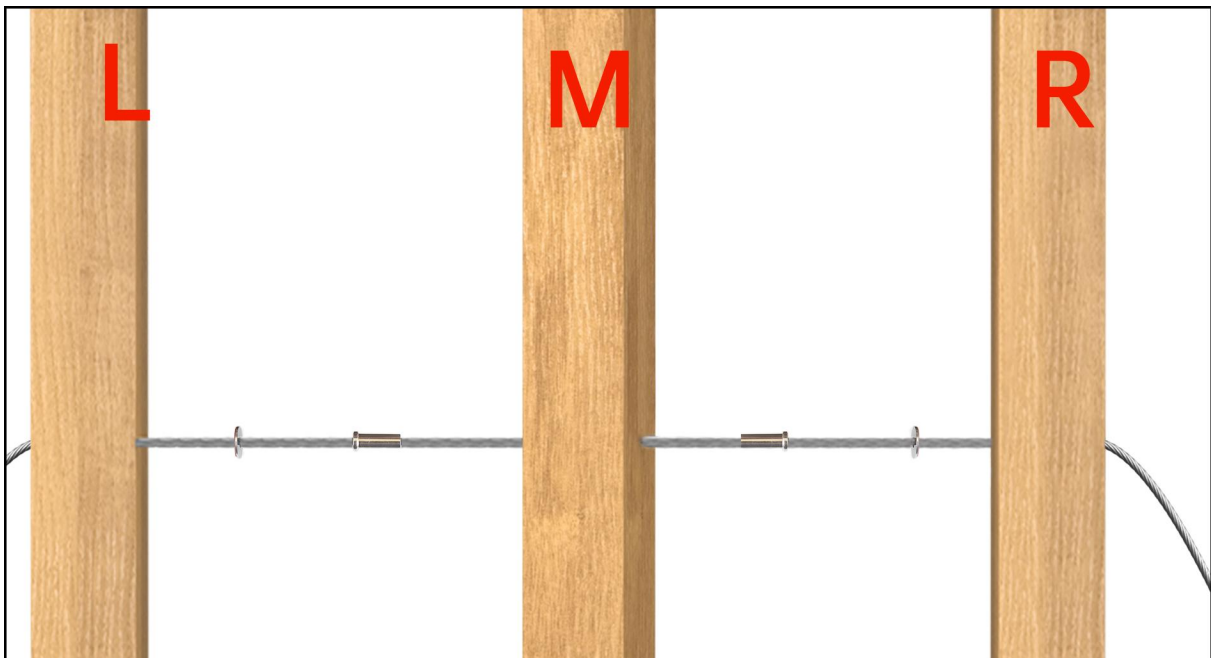
### 4.1 For level railing



**Step 1** - Locate hole position with drill guide **7**; drill through holes on the intermediate posts with a 9/32" drill bit. (Note: please always keep 3" cable spacing when drilling).



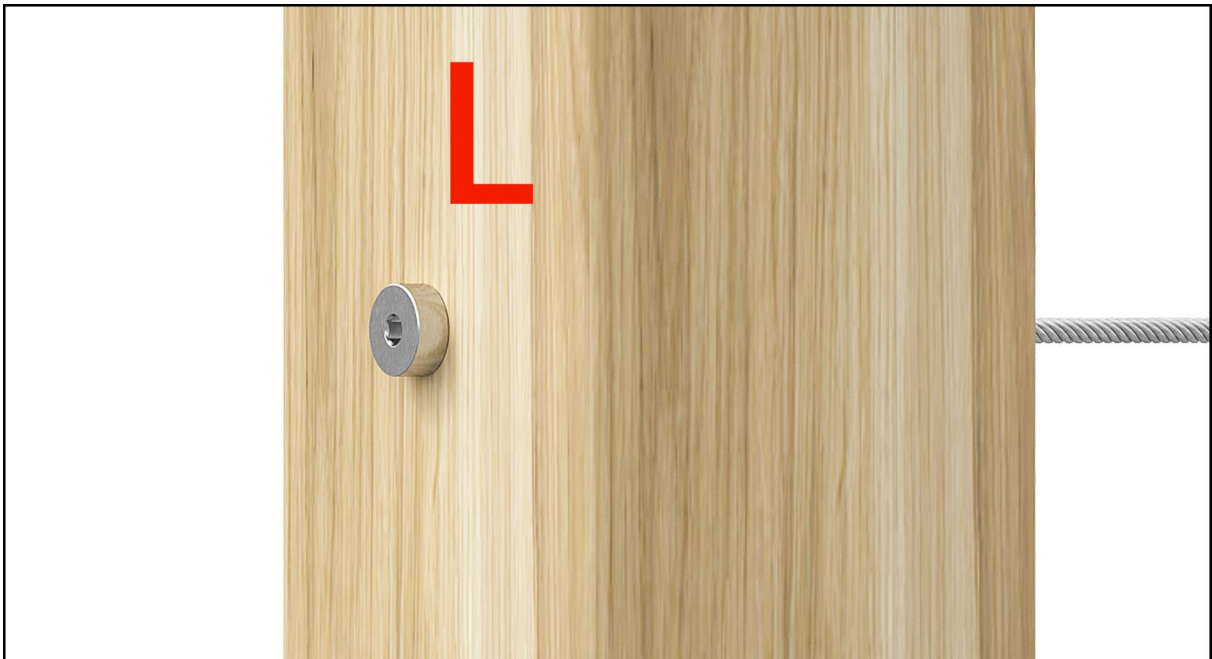
**Step 2** - Locate hole positions, drill through holes with drill guide ⑦ on the right posts with a 13/32" drill bit , and drill through holes on the left posts with a 5/16" drill bit.



**Step 3** - Put the adhesive washers ⑥ into the cable and pull the cable through all intermediates posts and level protector sleeves ③.



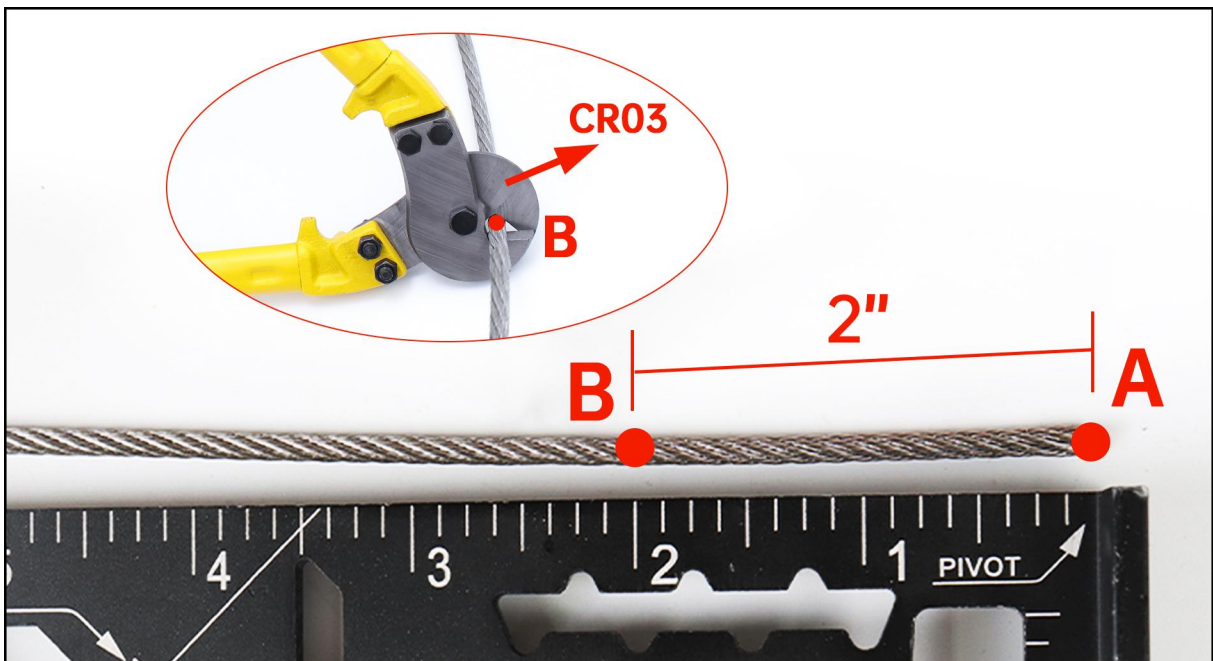
**Step 4** - Swage the fixed end **1** with the hydraulic crimper **9**.



**Step 5** - Install the fixed end **1** to the left end post.



**Step 6** - Pull the cable straight against the right end post, mark point A from the outside, and cut cable on point A with a cable cutter **8**.



**Step 7** - Mark and cut at point B, which is 2" away from point A with cable cutter **8**.

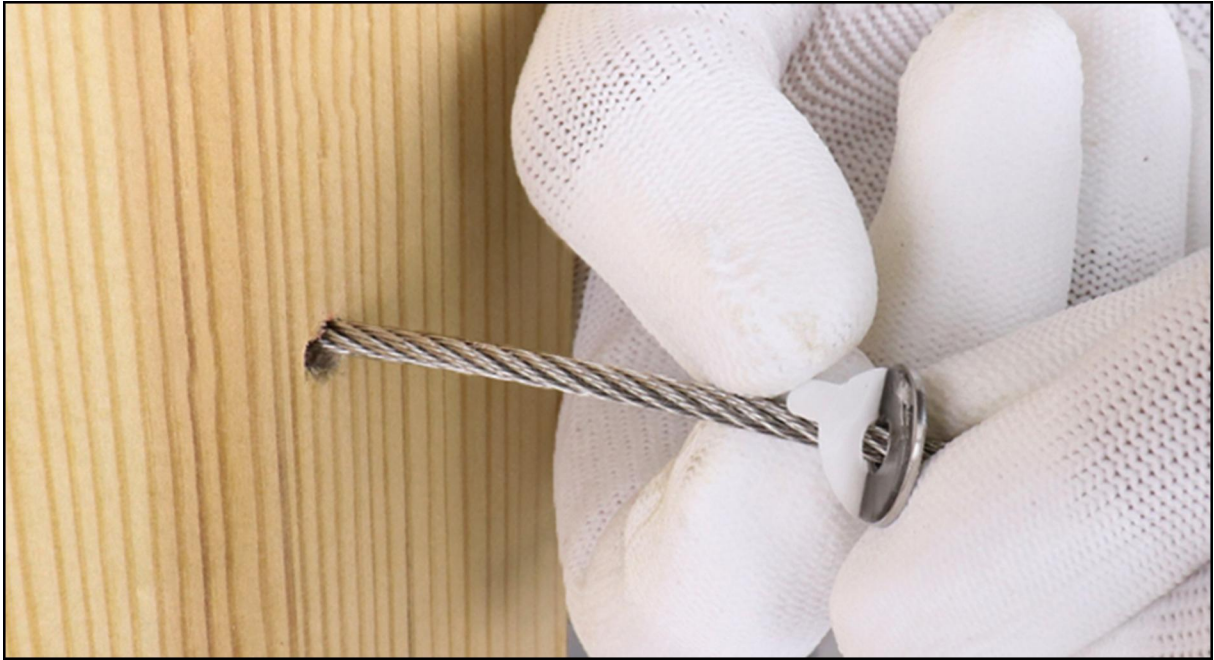


**Step 8** - Swage tensioner ① with the hydraulic crimper ⑨.



**Step 9** - Tighten the tensioner ① with an Allen wrench ⑩ and socket wrench ⑪ on the right post.





**Step 10** – Install adhesive washers **6**.

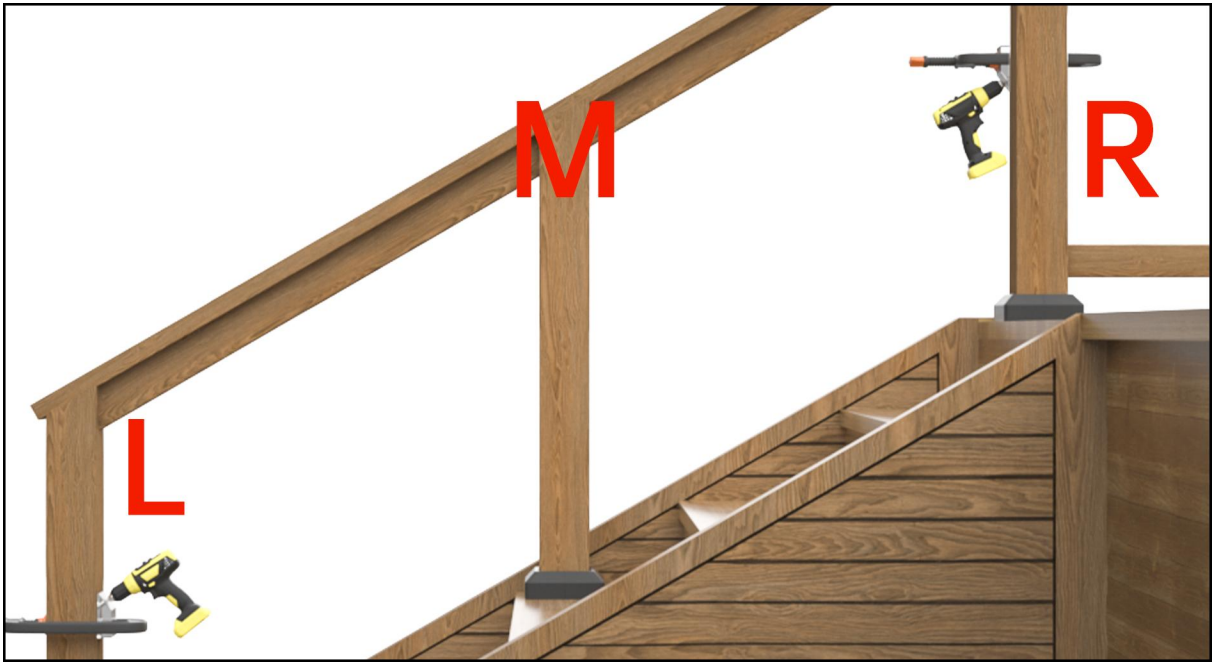


**Step 11** – Follow the sequence to install other cable runs.

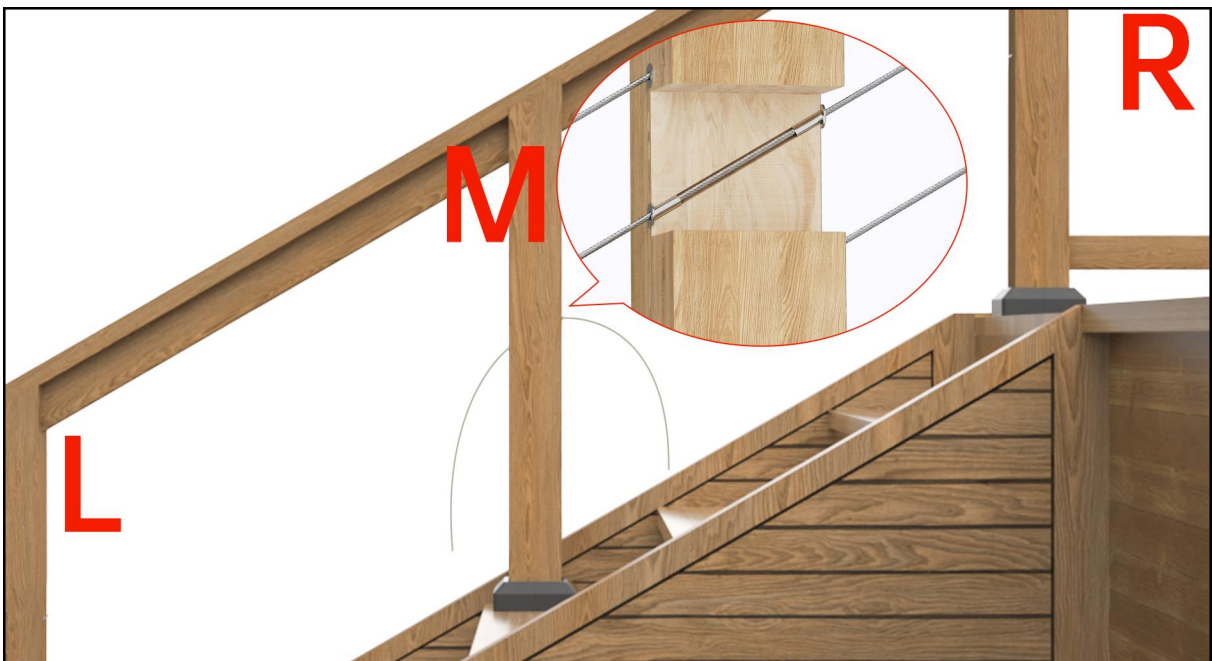
## 4.2 For angle railing



**Step 1** – Locate hole positions and drill 30-degree holes with drill guide **7** ; drill through holes on intermediate posts with a 5/16" drill bit. (Note: please always keep 3" cable spacing when drilling.)



**Step 2** - Locate hole positions and drill 30-degree hole with drill guide **7**, drill through holes on the right post with a 13/32" drill bit, and drill through holes on the left post with a 5/16" drill bit.



**Step 3** - Put the adhesive washers **6** into the cable and pull the cable through all intermediate posts and angle protector sleeves **4**.



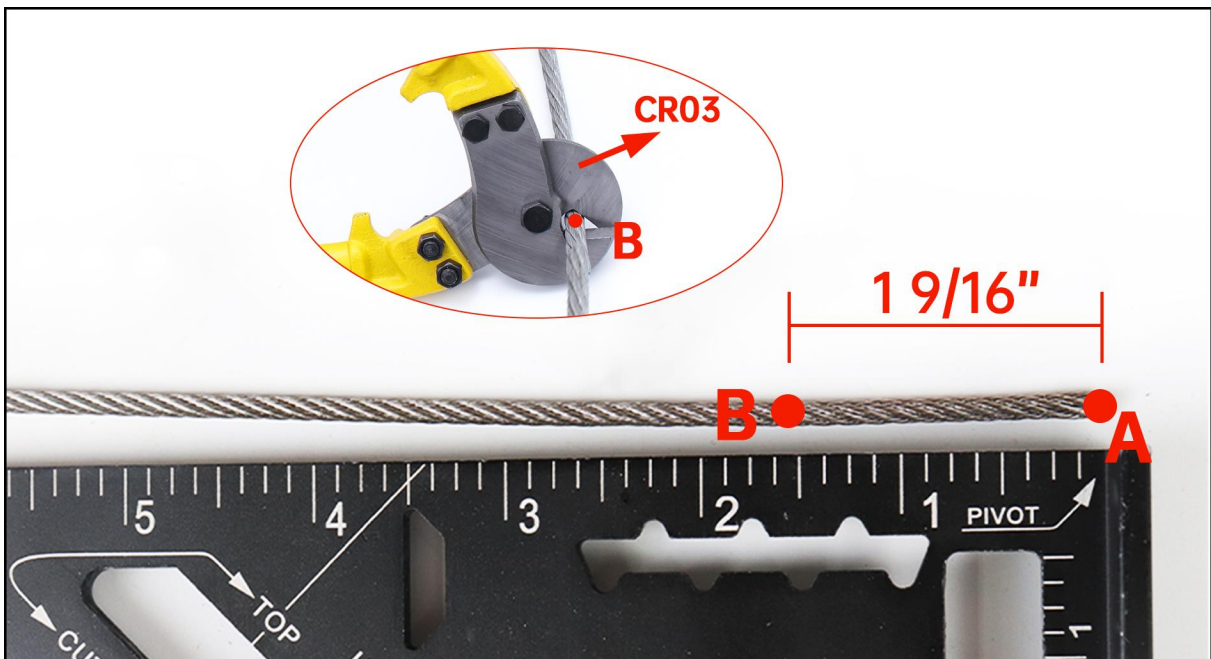
**Step 4** - Put in angle washer **5** to the fixed end **1** before swaging with the hydraulic crimper **9**.



**Step 5** - Install fixed end **1** to the left end post.



**Step 6** - Pull the cable against the right end post, mark point A from the outside, and cut cable on point A with cable cutter ⑧.



**Step 7** - Mark and cut at B with the cable cutter ⑧, which is 1 9/16" away from point A.



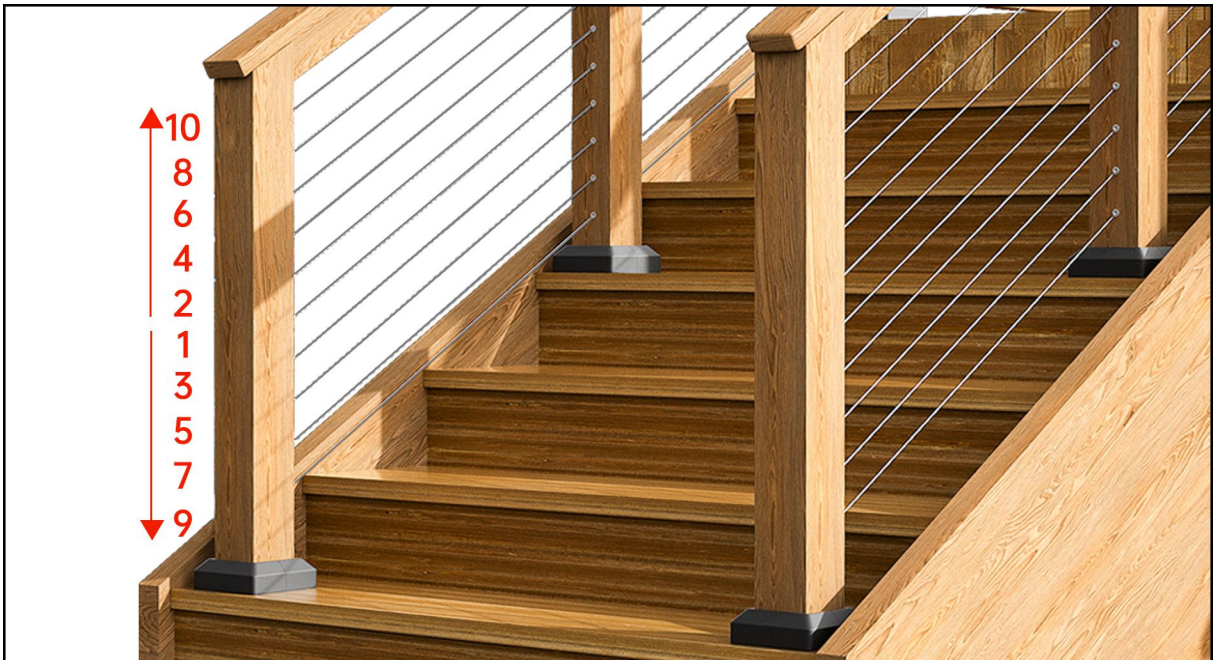
**Step 8** - Swage tensioner ① with the hydraulic crimper ⑨.



**Step 9** - Put in angle washer ⑤, tighten the tensioner ① with an Allen wrench ⑩ and socket wrench ⑪ on the right end post.



**Step 10** – Install adhesive washers **6**.



**Step 11** – Follow the sequence to install other cable runs.

## 5. Items related(Metal posts)

Listed below are all of the accessories and tools related to the Muzata CR27. Please note that not all items are essential. Some may not be included in your package. If you need them, you may need to purchase them separately.

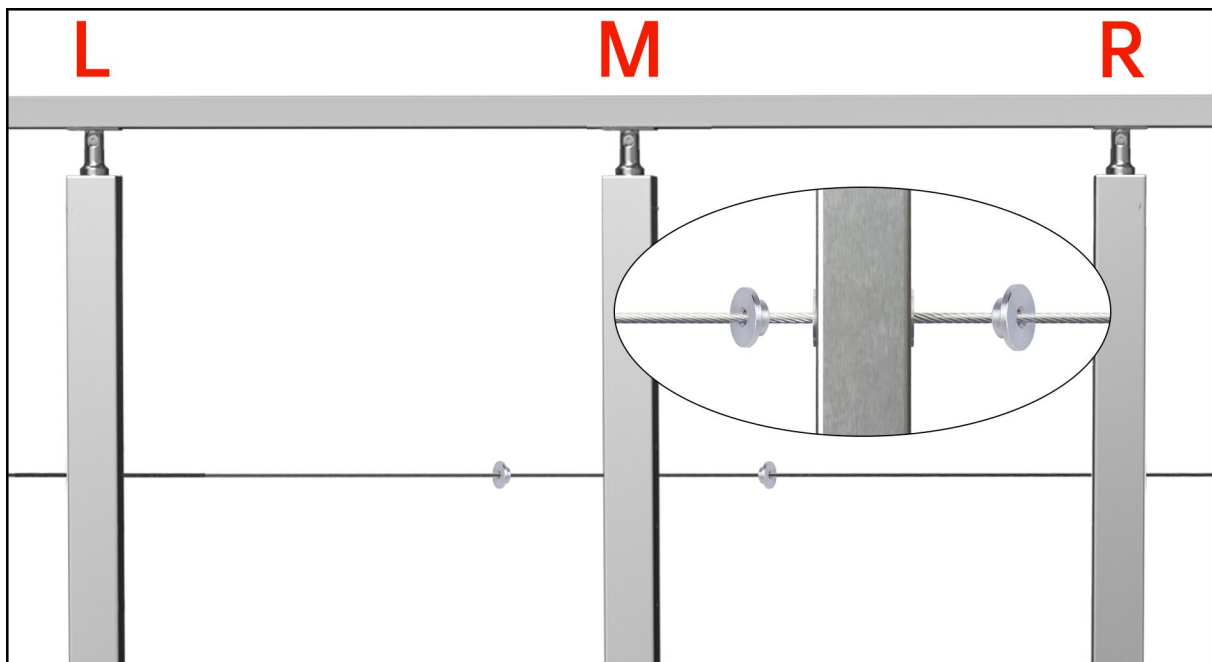
<p><b>1</b></p>  <p><b>CR27</b></p> <p>Cable tensioner &amp; Fixed</p>	
<p><b>2</b></p>  <p><b>WR14</b></p> <p>3/16" Stainless steel</p>	<p><b>3</b></p>  <p><b>CR79</b></p> <p>Angle protector sleeve</p>
<p><b>4</b></p>  <p><b>CR60</b></p> <p>Angle washer</p>	<p><b>5</b></p>  <p><b>CR90</b></p> <p>Level protector sleeve</p>
<p><b>6</b></p>  <p><b>CT17</b></p> <p>Socket wrench</p>	<p><b>7</b></p>  <p><b>CR03</b></p> <p>Cable cutter</p>
<p><b>8</b></p>  <p><b>CT01</b></p> <p>Hydraulic crimper tool</p>	<p><b>9</b></p>  <p>Allen wrench</p>



# 6. Installation Steps

We will install the tensioner on the right end post as an example. Actually you can install it on either side according to your need.

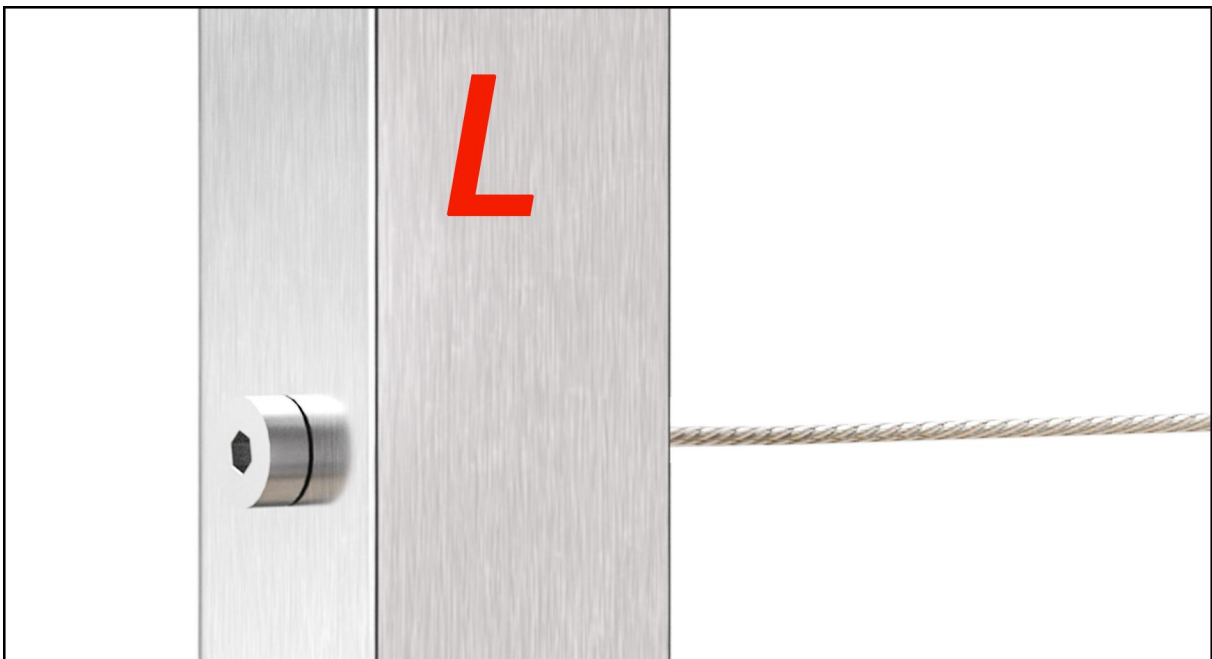
## 6.1 For level railing



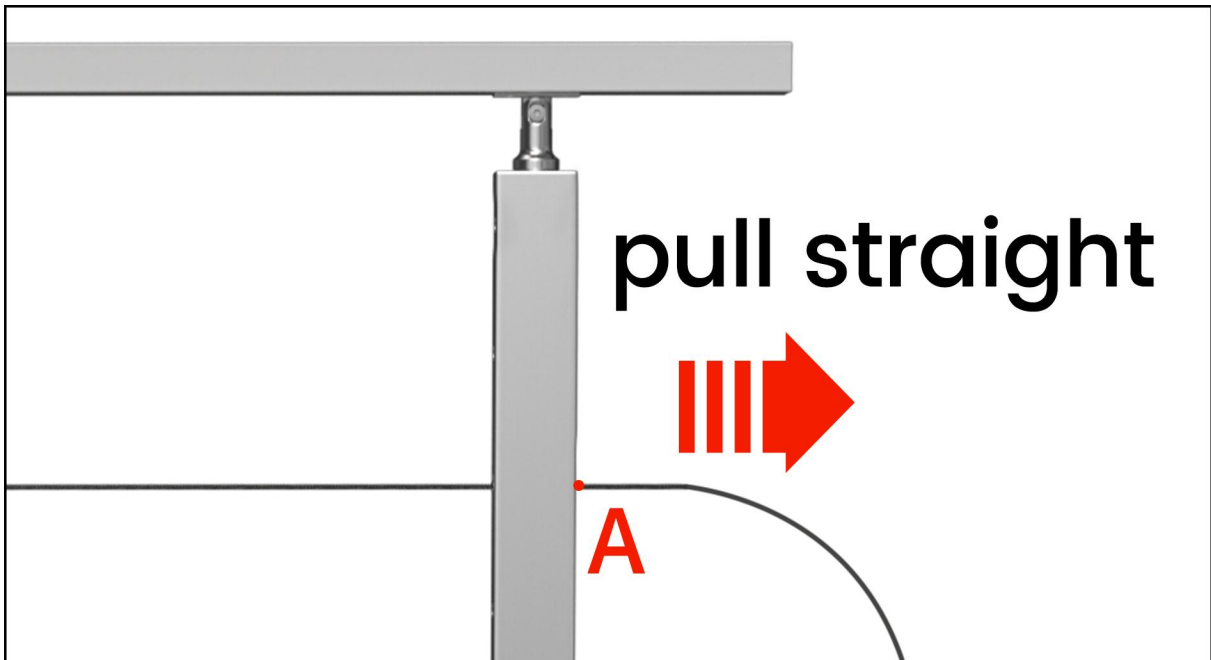
**Step 1** - While passing the cable ② from the right post to the left post, and put in level protector sleeves ⑤ for intermediate posts.



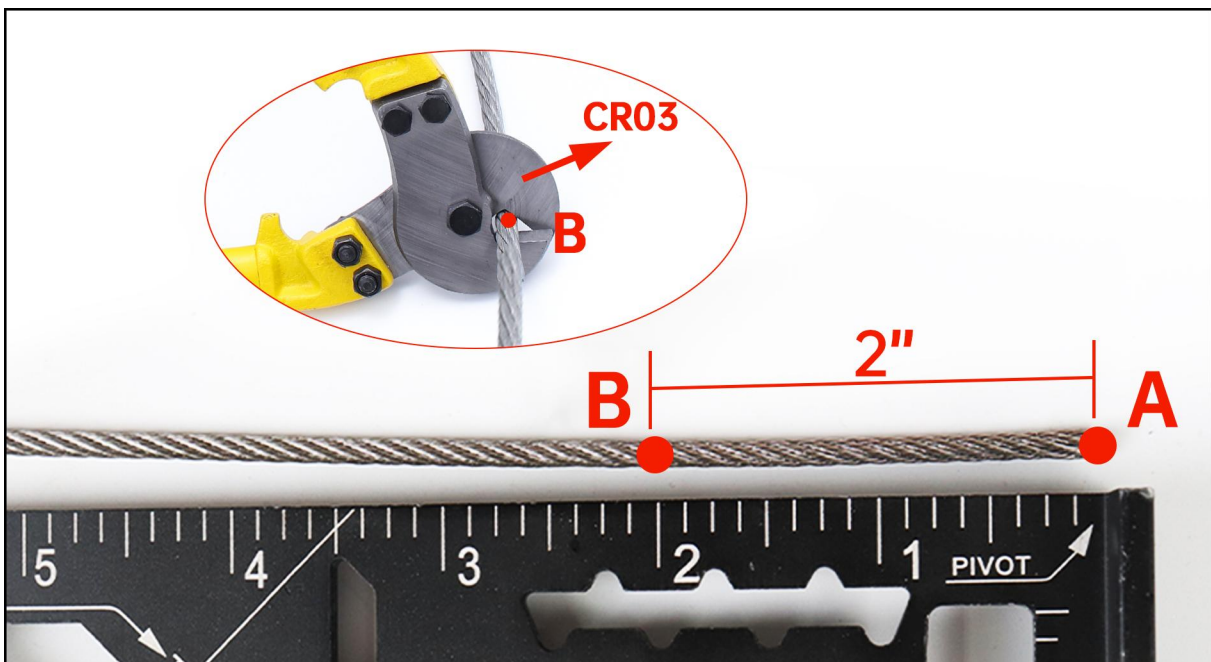
**Step 2** - Swage the fixed end **1** with the hydraulic crimper **8**.



**Step 3** - Install fixed end **1** to the left end posts.



**Step 4** - Pull the cable against the right end post, mark point A from the outside, and cut cable on point A with cable cutter **7** .



**Step 5** - Mark and cut at point B with cable cutter **7**, which is 2" away from point A.



**Step 6** - Swage tensioner **1** with hydraulic crimper **8**.

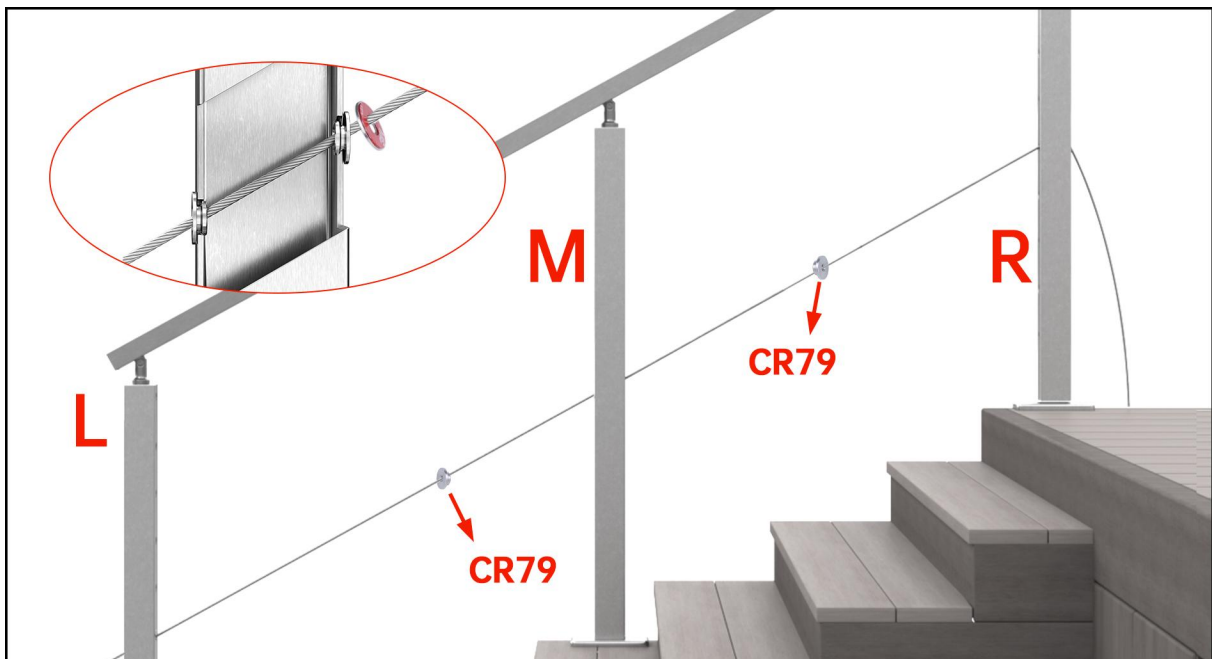


**Step 7** - Tighten the tensioner **1** with an Allen wrench **9** and socket wrench **6** on the right end post.



**Step 8** - Follow the sequence to install other cable runs.

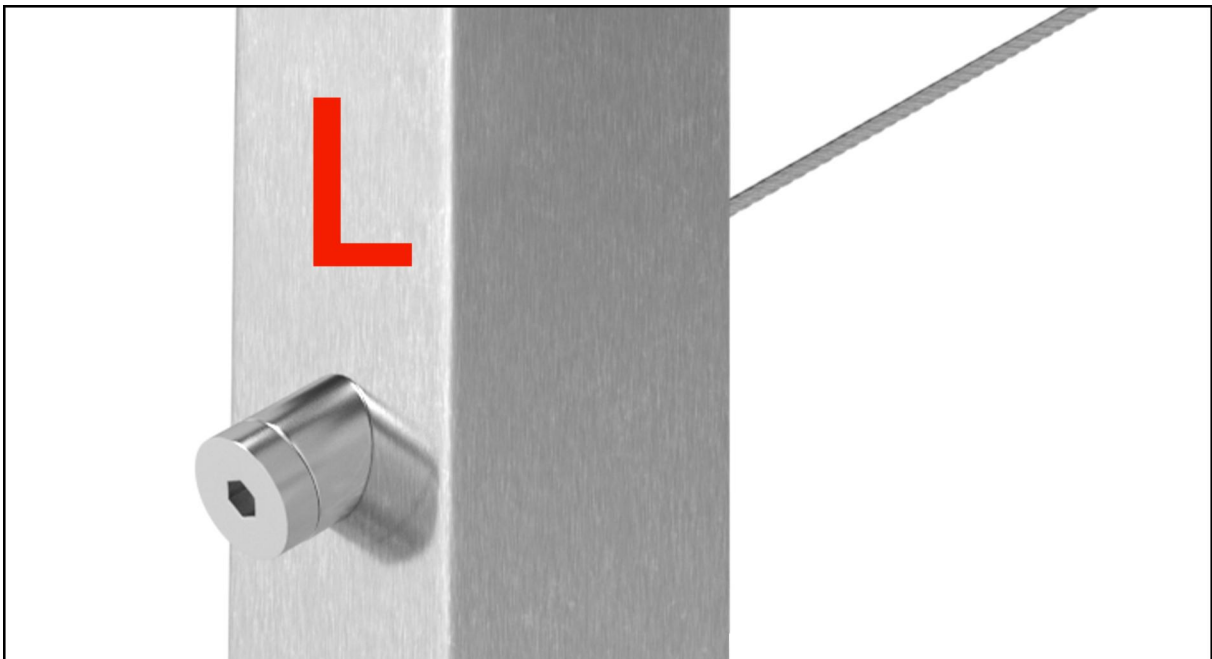
## 6.2 For angle railing



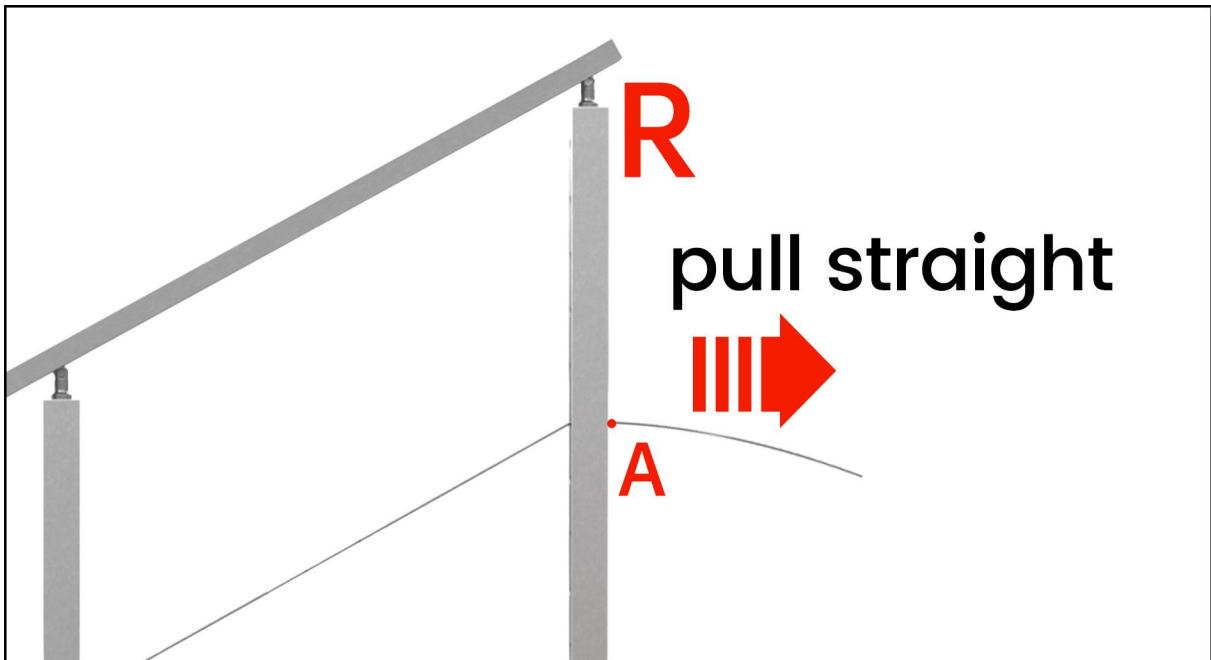
**Step 1** - While passing the cable ② from the right side to the left post, put in angle protector sleeves ③ for intermediate posts.



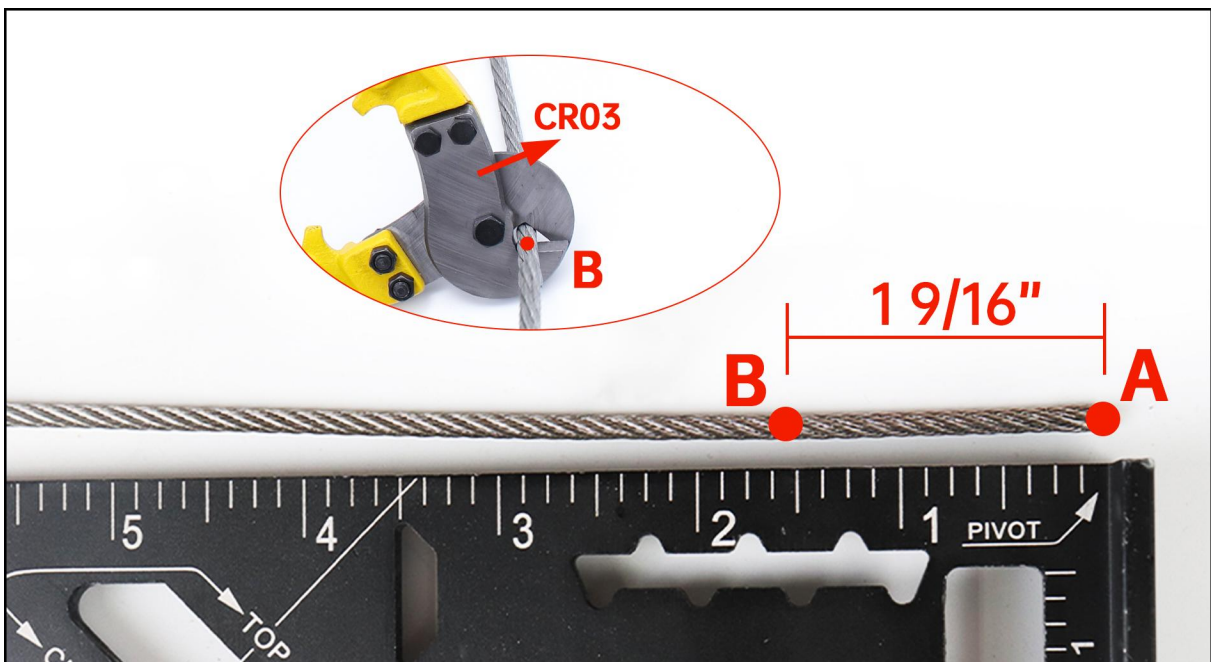
**Step 2** - Put in angle washer **4** to the fixed end **1** before swaging with hydraulic crimper **8**.



**Step 3** - Install fixed end **1** to the left end post.



**Step 4** - Pull the cable against the right end post, mark point A from the right side, and cut cable on point A with cable cutter **7**.



**Step 5** - Mark and cut at B with cable cutter **7**, which is 1 9/16" away from point A.

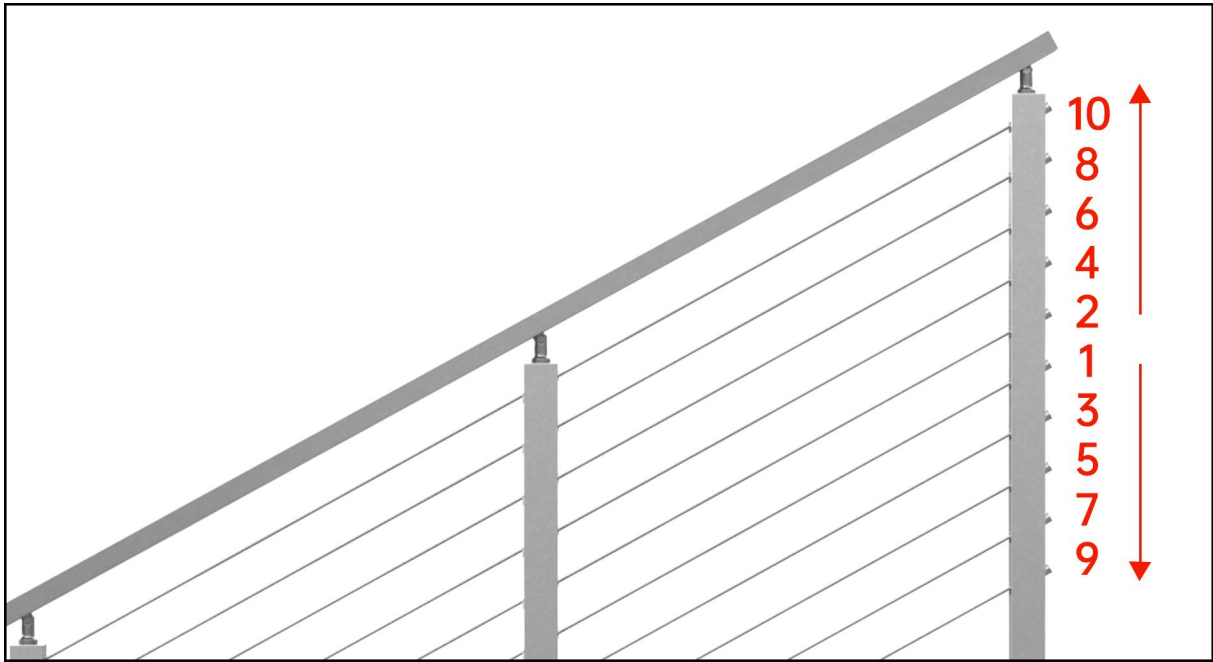


**Step 6** - Swage tensioner **1** with hydraulic crimper **8**.



**Step 7** - Put in angle washer **4** , tighten the tensioner **1** with an Allen wrench **9** and socket wrench **6** on the right end post.





**Step 8** - Follow the sequence to install other cable runs.

Please note that installation videos are available on our product pages for further details if needed.

## 7. Tips

- (1) Ensure that your posts and handrails are properly installed before your start cable installation.
- (2) You may need to buy some spare materials in case some materials may not be reusable after operation mistakes.
- (3) The recommended post spacing between two posts is 3ft-4ft, no more than 4ft. For our 6'6" handrails, it would be best to use 3'3" post spacing.
- (4) The overall height of the railing (includes handrail) should be equal or higher than 36" to meet residential building codes of most states.
- (5) 3" cable spacing and 200 lbs tension on each cable line is recommended in order to pass the 4" sphere test (required by some states). You can buy a tension gauge online or from local stores.

## 8. Free design service

We offer custom cable railing design service for free. If you are a beginner or not sure about how to do it, please reach us. Our experts can do all the planning, designing and budget work for you without extra charging.

## 9.About Muzata

Muzata has helped millions of families with their cable railing projects during the past years. We believe that home renovation should be easy and affordable. So we work with every effort to provide quality products and professional service, to make Muzata a reliable brand.

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