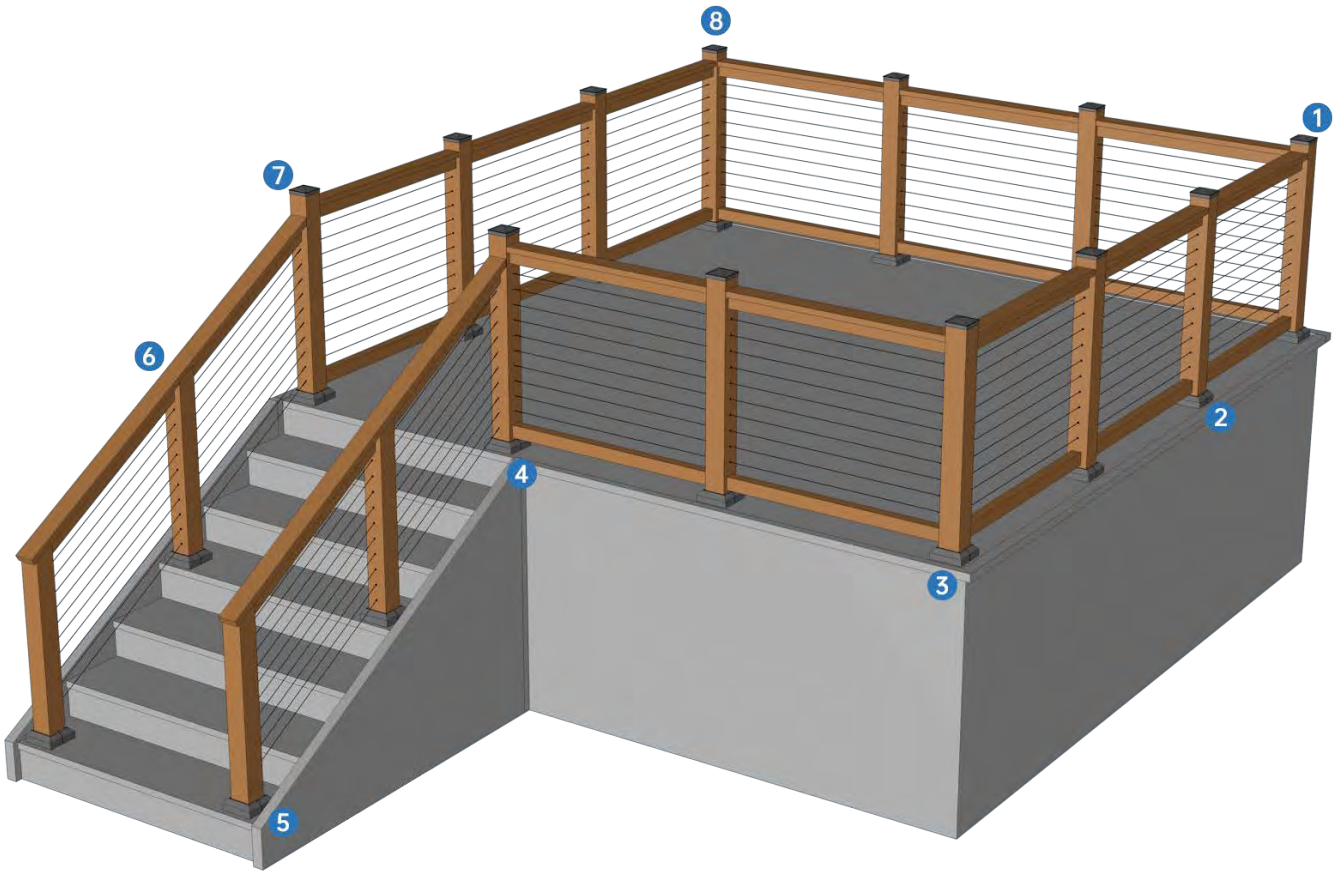
Muzata

User guide
WoodBudget
Cable railing system

01

Overview

WoodBudget is a simplified cable railing system with a terrific neat look for wood frames. It replaces the complex turnbuckle with two simple lag screws. Not only make it simple but also cut down the budget. We have a regular version CK17 and an invisible version CB24. Both work for level and stair railing with our custom angle drill guides.



02

Components

02-1 Posts

4" x 4" or larger wood posts

Notes

- It is recommended to buy wood posts from local stores since it will be cheaper without freight and packaging fee.
- This system also works for your existing wood frame. Just replace the infilling with cable railing materials.

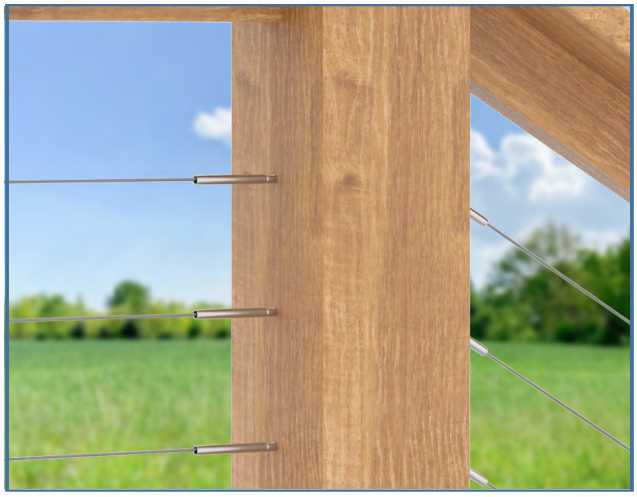
02-2 Handrails

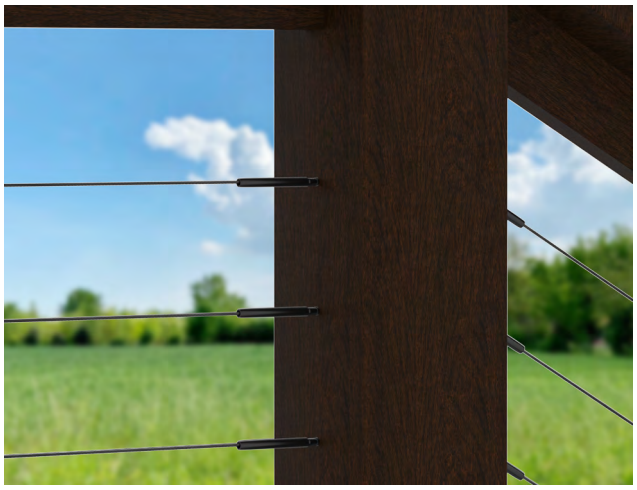
Any handrails would work

02-3 Cable infilling solutions

Here are two terminal options for your choice. Each of them has two optional color, natural color and black.

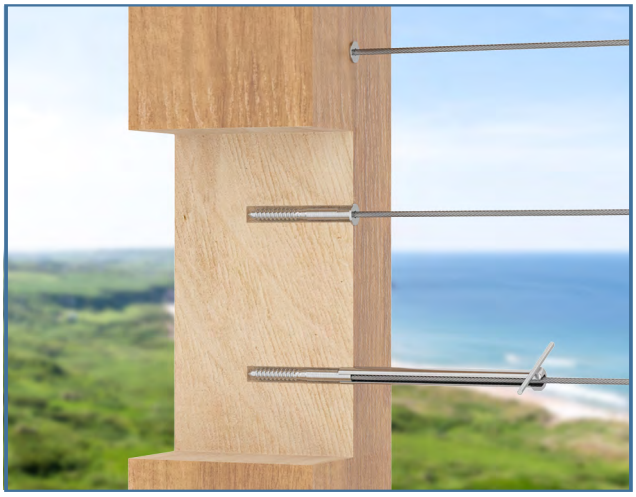
Option 1 - visible





Components \ Color	Natural	Black
Wire rope	WR01/WR02	WR17/WR19
Terminal	CK17 SN6	CK17 BD6
Level protector sleeve	CR13 SN6	CR13 BD6
Adhesive sleeve	CR68	CR67 BA1

Option 2 - invisible



Color / Components	Natural	Black
Wire rope	WR01/WR02	WR17/WR19
Terminal	CB24 SN6	CB24 BD6
Adhesive sleeve	CR75 CR67	CR75 BA1 CR67 BA1

02-4 Wire ropes

The following cables could work for this system

WR01

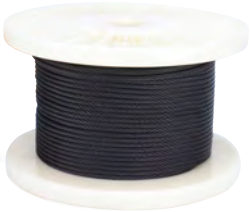
T304 stainless steel wire rope 1/8"

WR17

Black vinyl coated T304 stainless steel wire rope 1/8" thru 3/16". For both indoor and outdoor projects

WR02

T316 stainless steel wire rope 1/8"



WR19

Blackened T316 stainless steel wire rope 1/8". Only for indoor projects

Notes

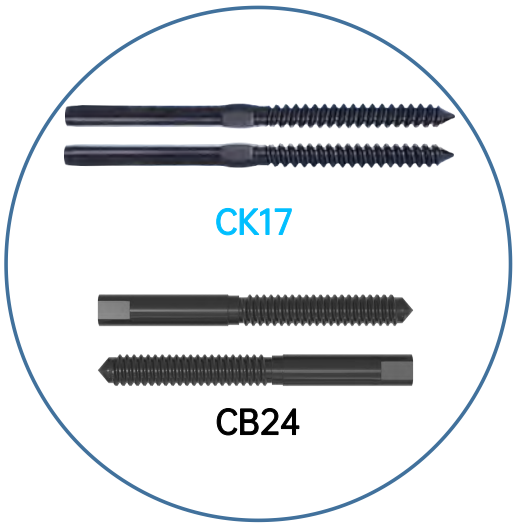
- We have two ways of packing. Wire rope in reel would be easier to control after you open it while wire rope in roll is cheaper.
- The cable in roll is recommended to open in a bucket, which could help to control the cable as it expands.
- 1/8" are recommended for code compliance in most states.
- We also have wire ropes with 5/32" or 3/16" size, vinyl-coated cables, blacken cables for your choice. Please search "muzata WP1" to find more. And remember that you should use terminals of the same size to go with wire ropes. For example, 1/8" cable should go with 1/8" terminals.

02-5 Cable terminals

Cable terminals will fix the cable on posts and fasten the cable to get enough tension as safeguards. Please check the following images to see where and how they are used for.

Natural

Black



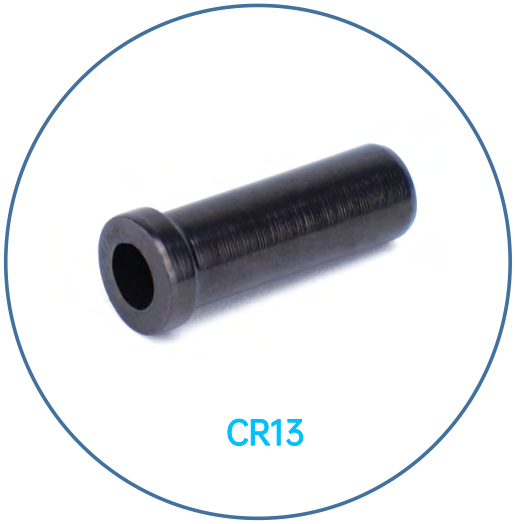
Cable railing kit

CK17 - right & left lag screw cable railing kit for wood posts

CB24 - Patent invisible lag screw kit for wood posts

Natural

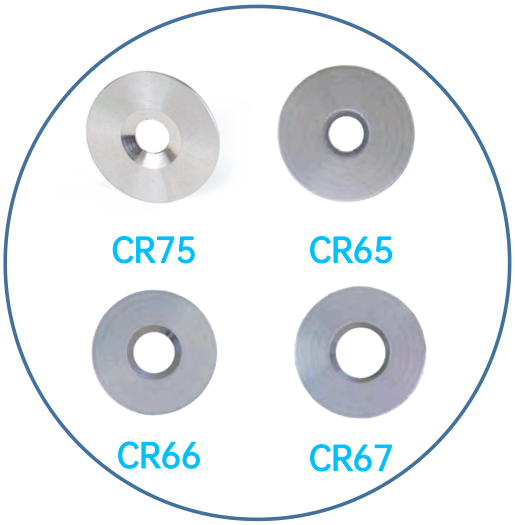
Black



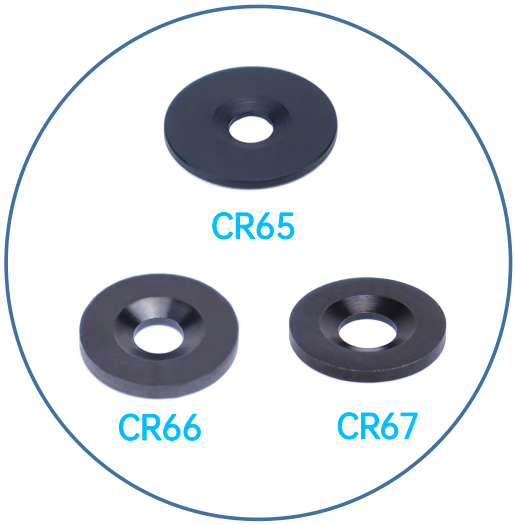
Protector sleeve

CR13- To protect the level holes

Natural



Black



Adhesive sleeve

CR75 /CR65/CR66 - To cover the level holes

CR67 - To cover the angle holes

Natural

CR68

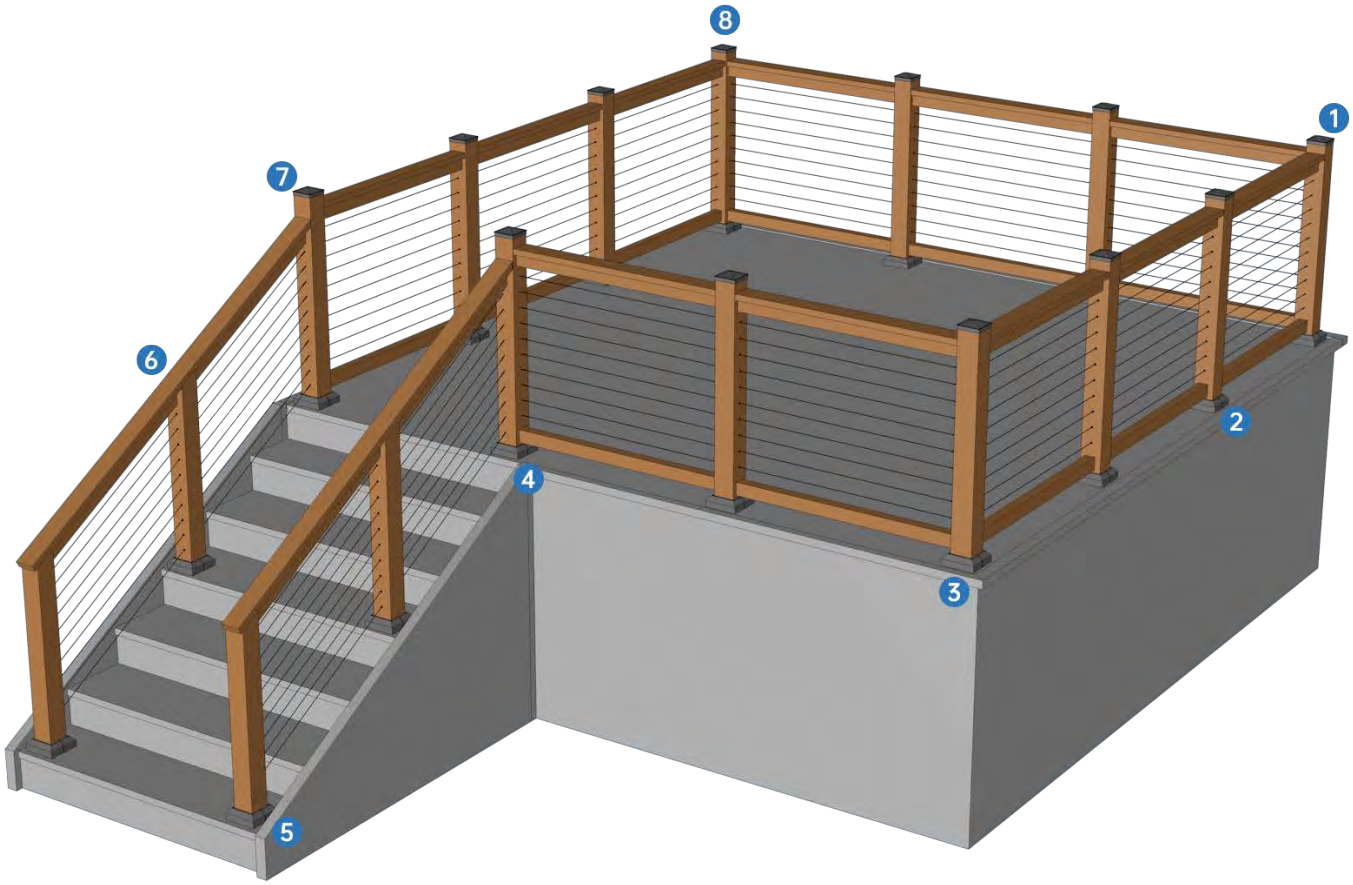
Protector sleeve

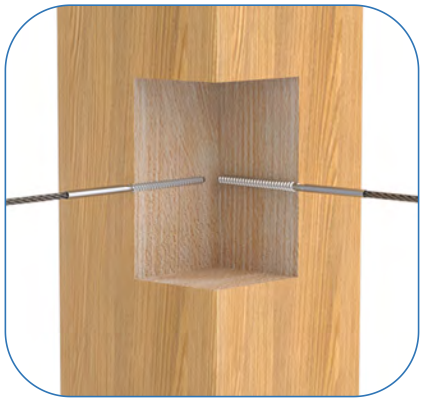
CR68 - To protect the angle holes

Notes

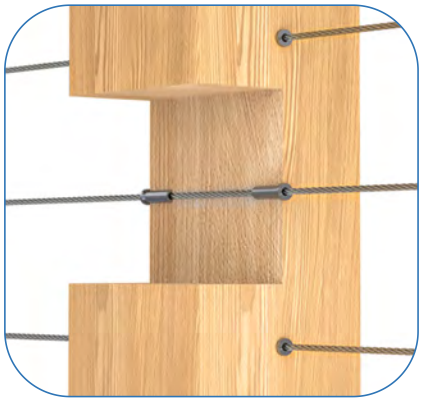
Concrete wall - if you need to install terminals on concrete/brick/stone walls please use our expansion tensioner CB25 (1/8") / CB26(3/16")

If you need the terminal of 5/32" or 3/16", please use our patent terminal CK26(5/32"), CK27(3/16")

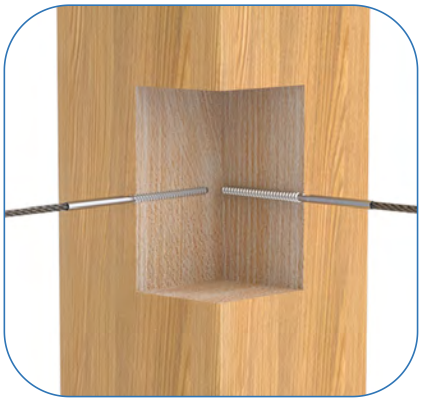




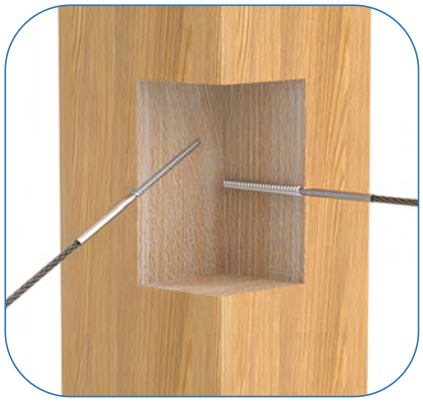
① CK17+CK17



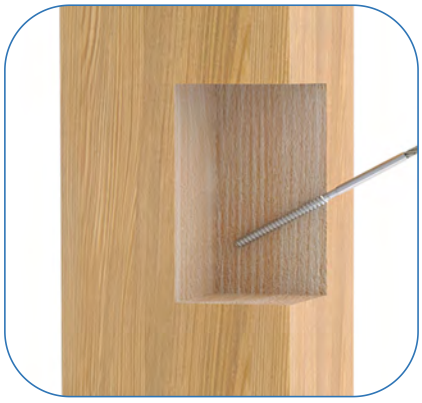
② CR13+CR13



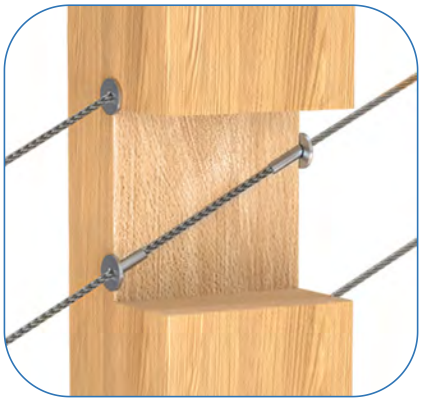
③ CK17+CK17



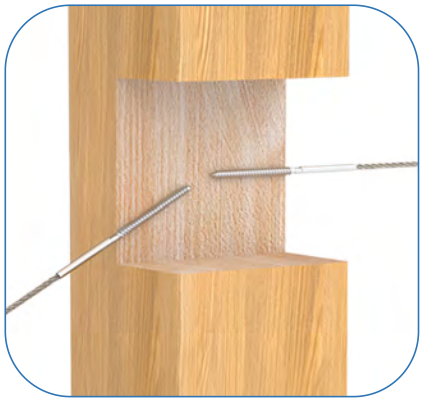
④ CK17+CK17



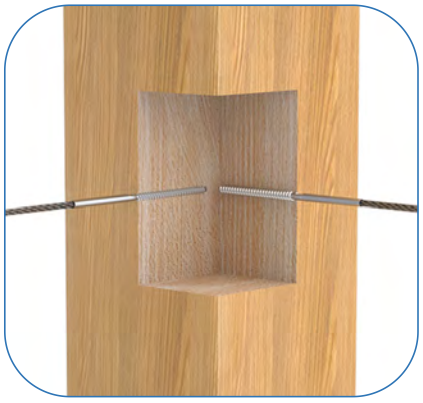
⑤ CK17



⑥ CR68+CR68



⑦ CK17+CK17



⑧ CK17+CK17

02-5 Tools

Cable cutter CR12

For cable cutting

Hydraulic hand crimper CR09

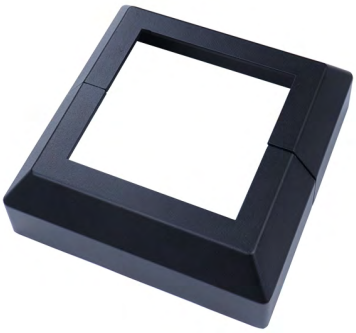
For swaging the terminals

Drill guide CT21

Help you to drill accurate holes.

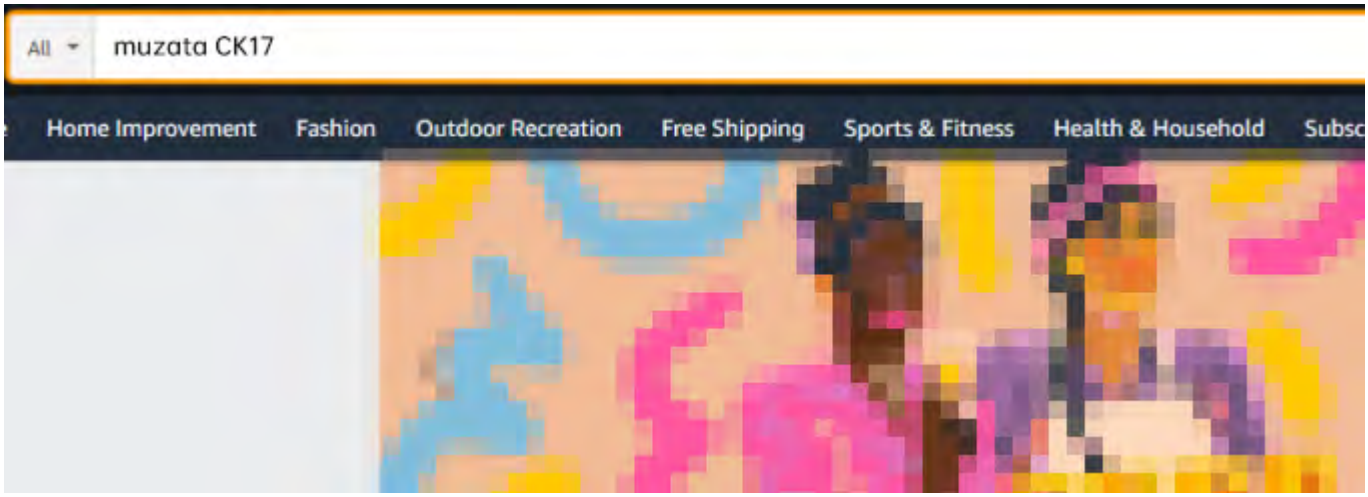
02-6 Optional components

Post cap WT06



Foot cover WT07

02-7 How to find the products?



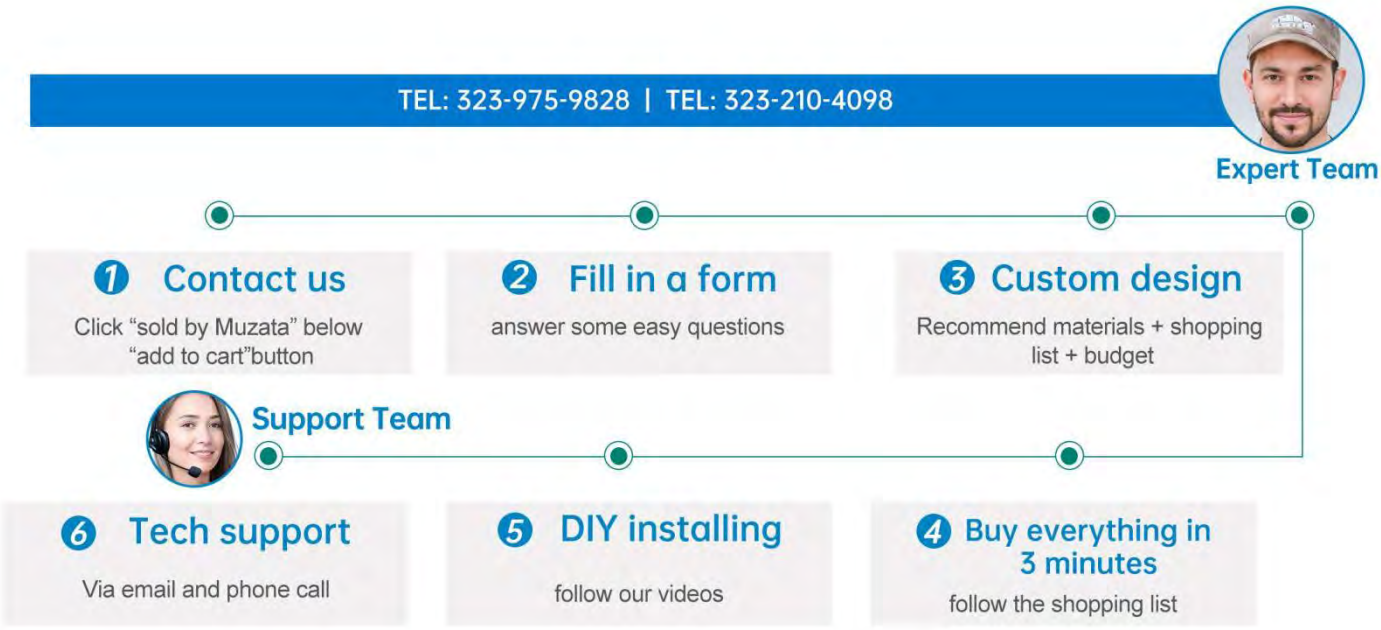
(1) Click on the model number with link (blue) on this file to open the web page

(2) Search "muzata + model number" , like muzata CK17

03

Design

If you are a beginner or not sure about how to do it. Please feel free to contact us. Our experts can do all the planning, designing and budget work for you without extra charging. Then you can follow the shopping list to buy all the materials in 3 minutes.



04

Installation

Things to Know Before You Get Started

- Please consult your local office for building codes and make sure you know all the requirements of the codes. Some states might have special rules of their own. You should choose carefully to comply with them. We can't promise everything to comply with all the codes of every state.

- It is recommended to do some planning work and estimate a budget. Please contact us if you need help with that. You might want to buy a few more materials than expected since some materials could be used by operation mistakes. Especially swage terminals and wire ropes.

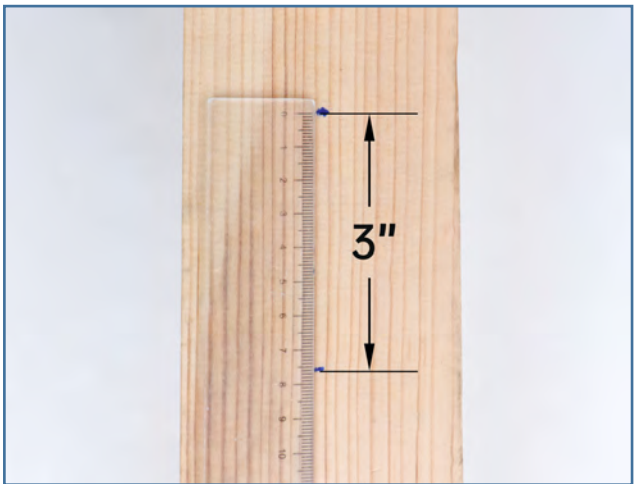
- It is suggested to be 2 person project.

- When electric instruments（Electric drill, Cutting Machine） are used in the installation process, please be careful.

- Please be careful when operating electric tools（power drill, cutting machine) and ask for help if you are not familiar with these tools.

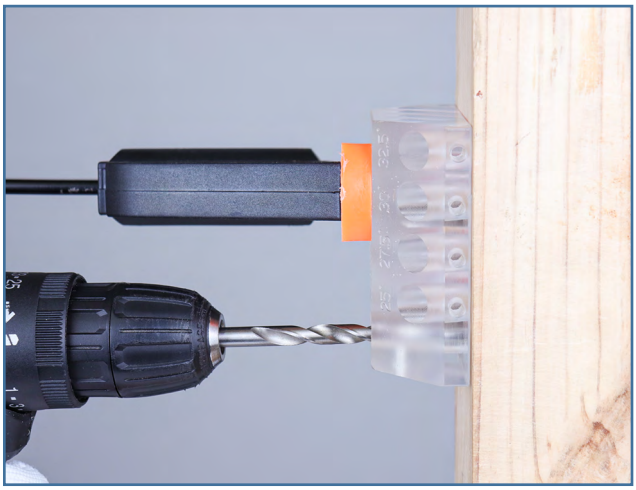
4-1 Cable infilling installation

4-1-1 General steps



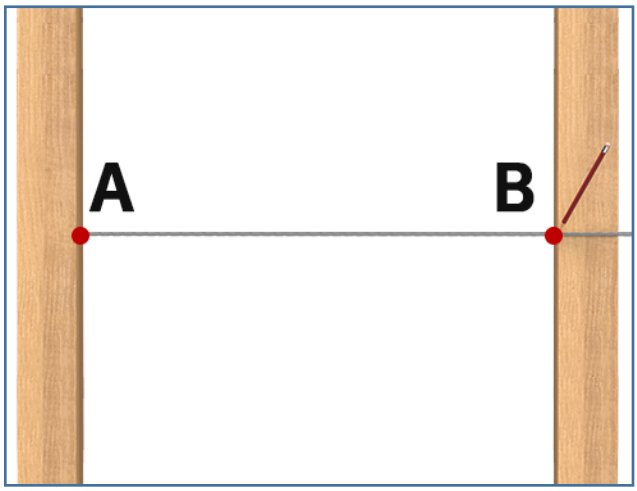
Measure and mark

Divide the height of the post into equal sections (3" recommended) for each run and mark with a pencil.



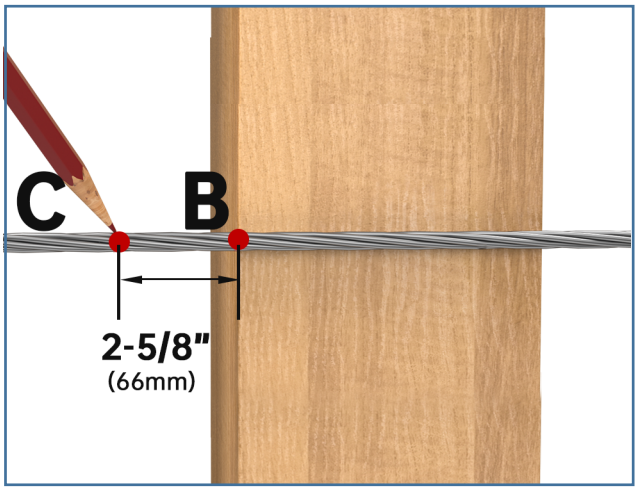
Drill a guide hole

Drill a guide hole of 7/32" for the lag screw. Use CT19 drill guide to make sure the hole is straight and level.



Measure the cable

Use the cable to measure the span between the inner side of two end posts. Mark point B with a pen. Remember to keep the cable straight.



Trim and cut

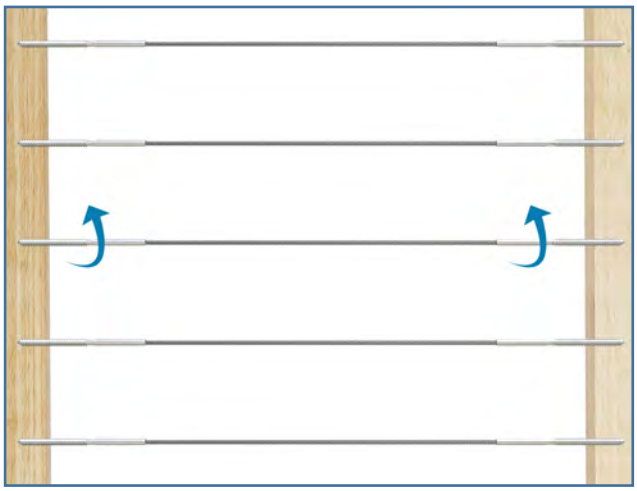
Subtract the trim length (about 2 5/8 inch) and mark point C. Cut on point C to get the correct length. The trim length is based on general conditions. Sometimes you might need to adjust it according to your project.

Swage

Place the cable end into CK17. Swage both terminal tight enough to fix the cable with hydraulic crimper CT01. Crimp twice to make sure the cable won't slip out while tightening.

Install CK17

Screw both sides of CK17 into the posts .

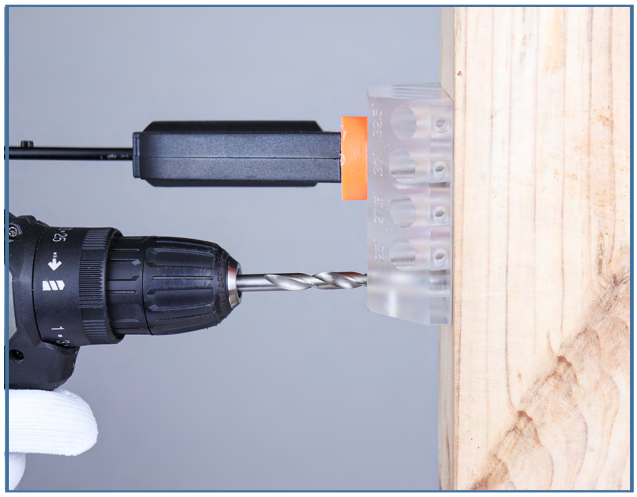


Tensioning

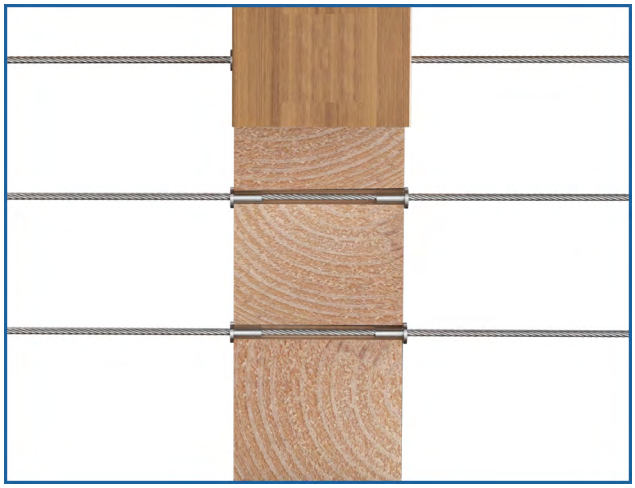
Tighten the cable with the attached wrench. Rotate the two terminals synchronously if you have a partner. If not, please take turns to rotate each side.

04-1-2 Intermediate posts related

Level intermediate posts



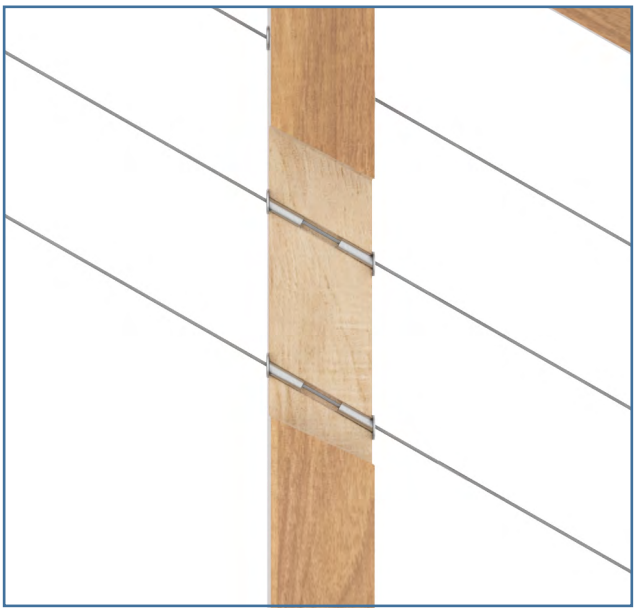
Drill straight holes with 7mm drill bit and drill guide CT19



1) Put CR13 in
2) Let the cable goes through

Angle intermediate posts

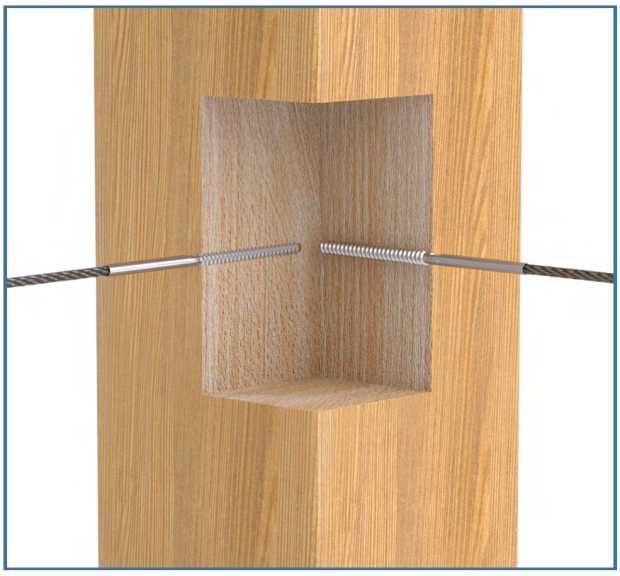
1)Choose the closest angle on the drill guide according to your stair angle.
2)Drill accurate angle holes with CT19



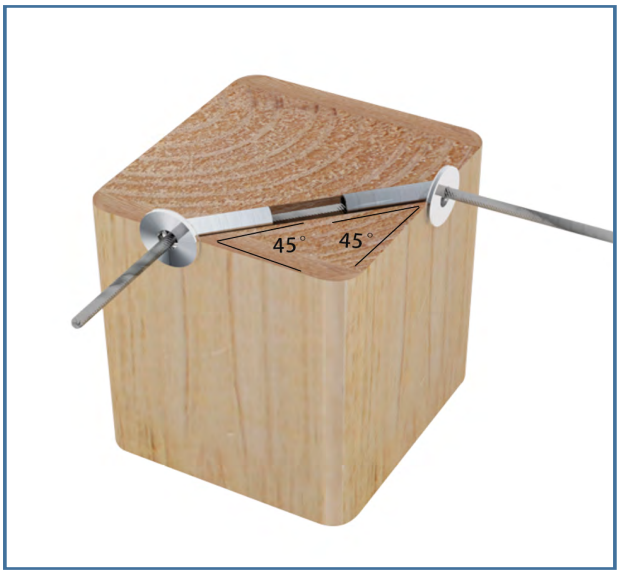
1) Put CR68 in
2) Let the cable goes through

04-1-3 Corner solution

Single post

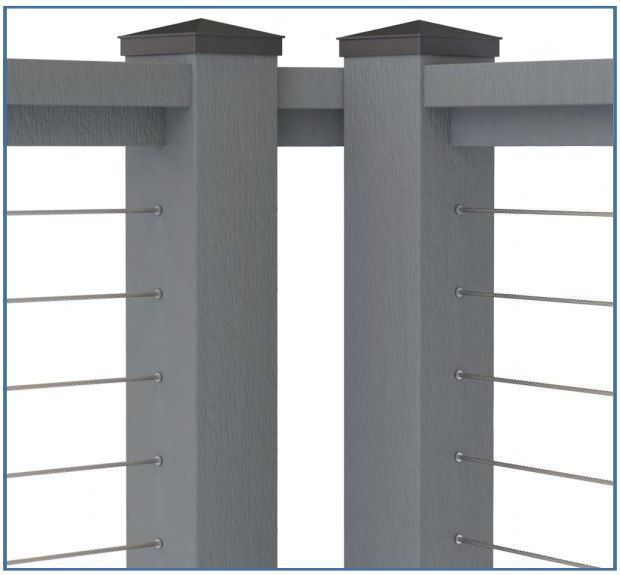


Option1: Use two terminals on adjacent sides of the post.



Option 2: An adjacent pre-drilled post to go with 2 protector sleeves CR69 to bear force and let the cable go through the corner. The size of corner post must no less than 4" x 4".

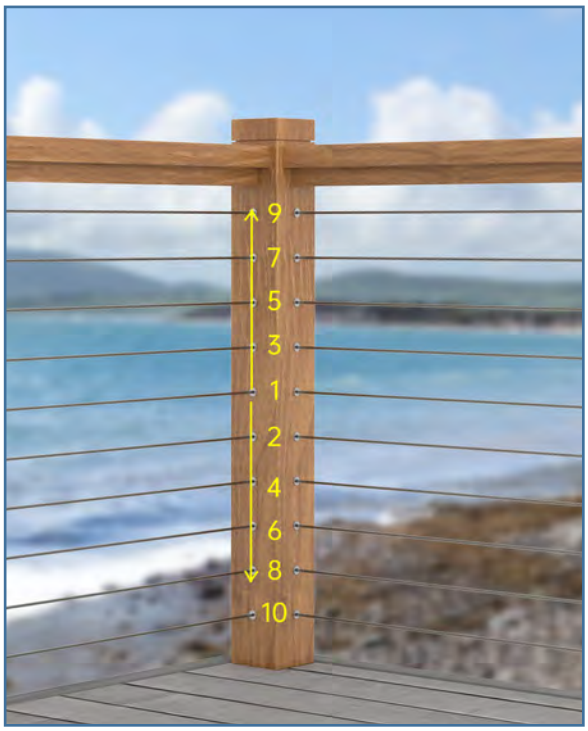
Two posts



Option 1: End the cable line at the corner and start a new one

Option 2: Use level protector sleeve CR13 to bear force and the the cable go through the two posts with a 45° angle.

Notes

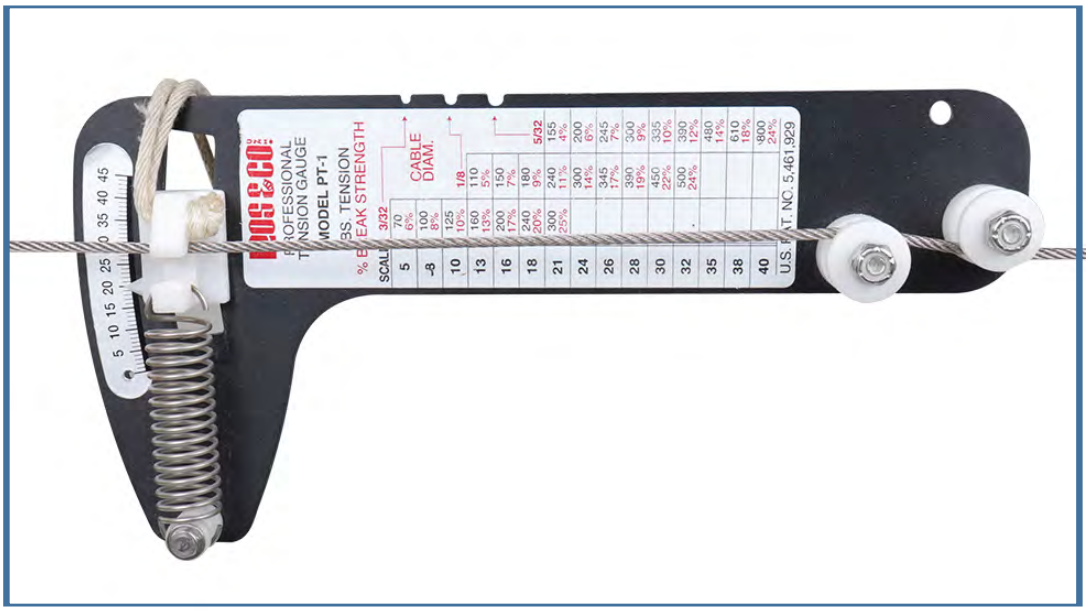


1. Please follow the sequence to tighten the cables as shown in the left image.

2. For swage tensioners, please preserve some tensioning range in case the cable gets loose due to temperature change in years.

3. Remember to leave enough length of cable before cutting to make sure the lag screw completely hidden in the post.

4. Install infilling on stairs is pretty much the same as level sections.



5. If your local building code requires 4" sphere test. The tension is recommended to be around 200 lbs to pass the test. You can buy a tension gauge from online or local store.

Congratulations ! You're done

Please feel free to contact us via phone call or email if you have any questions.

 support@muzata.com

 323-975-9828
323-210-4098