

# Flat Cable Installation Instructions (Simplified)



**IMPORTANT!** This is only a brief summary of procedures. For more details, refer to the Draka Elevator Flat Traveling Cable Installation Guide. Only full compliance with that Guide's procedures will ensure full product warranty coverage.

## STORAGE AND HANDLING

**Step 1:** Immediately inspect cables when they arrive at the job site to ensure they have not been damaged en route. Store them in a secure area to avoid damage resulting from other construction activities. If they need to be moved, roll the reel or move it forklift as shown.

## DETERMINE THE CORRECT FLAT CABLE SUSPENSION DEVICE (FCSD)

**Step 2:** The flat cable installation devices listed below are for unsupported cables unless noted otherwise:

### FLAT CABLE SUSPENSION DEVICES (FCSDs)

Part Number	Max. Cable Width inches • mm	Max. Total Cable Thickness inches • mm
FCSD-2	2.00 • 52 + additional cables that are up to 70% width of the first cable	0.47 • 12
FCSD-3	3.00 • 75 + additional cables that are up to 70% width of the first cable	0.59 • 15
FCSD-4P	4.50 • 114 + additional cables that are up to 70% width of the first cable	0.59 • 15
FCSD-S*	4.10 • 105 + additional cables that are up to 70% width of the first cable	0.625 • 16

\*For steel-supported installations, use the FCSD-S. Refer to the Draka EHC Flat Traveling Cable Installation Guide for more information on installing steel-supported cables. Go to <https://www.prysmiangroup.com> for a downloadable version.

## LOCATE AND INSTALL THE FCSDs

**Step 3:** It is critical that the hoistway hanging device and the cab hanging device(s) are aligned on the same plane with a common centerline. Failure to do so will result in poor tracking.

Locate a place on the cab frame on the same plane as the hoistway hanging device. The horizontal distance between the hoistway hanging device and the car hanging device depends on the recommended cable loop width.

## RAISING CABLE IN HOISTWAY

**Step 4:** Place the reel(s) on reel rollers or jackstands in the car and proceed to the top floor. Feed enough cable into the machine room to connect with the controller and secure the end. If you are using a hanging device at the top of the hoistway, you may attach the cable there before lowering the cab. Secure the cable in the FCSD by LIGHTLY tapping the wedge in place. The cable may need minor adjustments to improve tracking (see next page).

**Step 1)** Moving cable with forklift

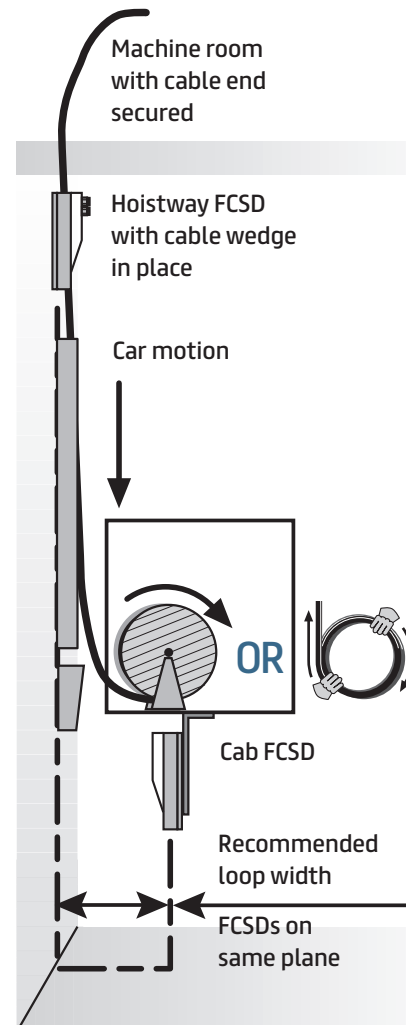
**YES**



**NO**



**Steps 3 & 4)** Make sure the FCSDs are on the same vertical plane before paying out the cable from the car.



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Slowly lower the car while carefully placing the cable into the raceway (if applicable) until the midpoint is reached.

The cable should pay off from the bottom of the reel so that the cable bend direction is consistent between the reel and the loop. If the flat cable is provided on coils, uncoil it as if it were on a reel, rotating it with your hands.

### SETTING THE PROPER LOOP

**Step 5:** Place the cable into the car FCSD. Have a helper hold the cable in place while setting the loop.

The loop should not touch the cab's bottom edges and should not 'bell out.' The cable should hang vertically so that both legs of the loop are parallel.

If installing two or more cables, make sure there are 5 to 10 cm • 2 to 4 inches between the loops.

Once the loops are set, temporarily secure the cable in the hanging device by lightly tapping the wedge into place.

If the cables are running off-plane, the cable tracking can be adjusted by VERY slightly angling the cable in the hanging devices. Angling the cable by as little as 3 mm • 1/8 in off vertical will move a cable as much as 60 cm • 2 feet in a ten story building.

For unsupported cables, once proper tracking has been confirmed or established, firmly tap in the wedges at all hanging devices. The cable should be tightly held but not crushed or deformed in the hanging devices. Do not let the wedge visibly compress the cable jacket.

### CABLE STRIPPING

**Step 6:** The 36-135-M1 Flat Cable Stripper is the recommended tool for jacket removal.

Starting from the printed jacket surface, place the point of the guard between the conductor and jacket.

Pull the stripper smoothly for about 15 cm • 6 inches using a slight upward motion to avoid nicking the conductors.

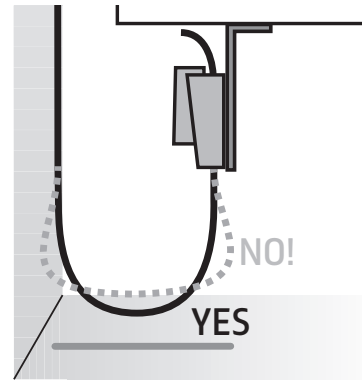
Stripping will expose the ripcords in the cable. If more jacket needs to be removed, use needle-nose pliers to grip the ripcord, twisting it around the jaws of the pliers for more grip. Pull ripcords directly against the jacket to increase the strip length.

Electrical tape can be used to organize bundles of exposed conductors.

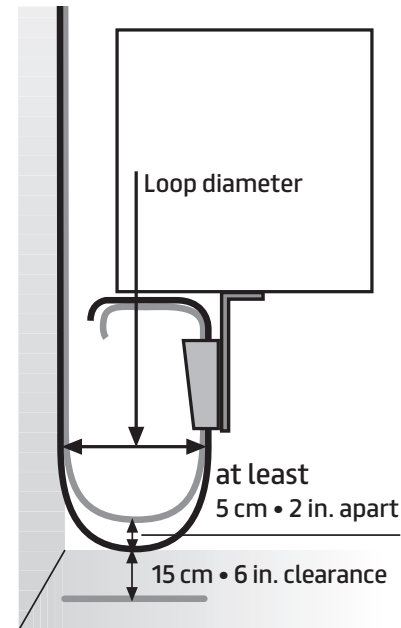
**NOTE:** A routine inspection program should be implemented to maximize product performance and safety.

**NOTE:** Draka EHC reserves the right to improve, enhance and modify the features and specifications of our products without prior notification.

**Step 5)** The loop should be hanging straight and not "belling out"



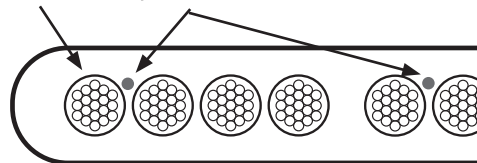
Multiple cables should be at least 2 inches apart at the base of the loop



36-135-M1 Flat Cable Stripper



Conductors and ripcords



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