Draka Elevator Products, Inc.

Whisper-Flex® Elevator Compensating Cable Installation Procedure for JCC-XX-CHN and WF-XX-CPLG Kits

IMPORTANT! ***Failure to follow Draka Elevator Products, Inc. ("Draka EP") installation procedures will invalidate any warranty and could endanger public safety.***

CABLE END PREPARATION

Remove enough insulation from the end of the cable so that the first link of chain is allowed to move freely (Figure 1). Ensure that exposed chain links have not been cut or damaged. A special tool kit designed for field stripping compensating cable is available (Contact Draka-EP for details or to order).

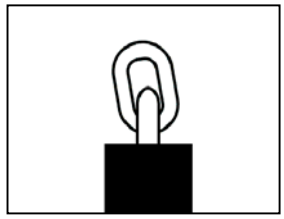

Fig.1 First Link Free

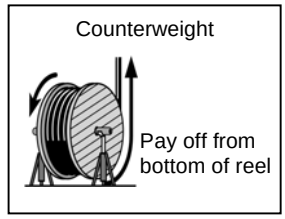

Fig.2 Raising Cable

RAISING CABLE UP IN HOISTWAY

Support the reel in the pit or on lowest floor level with the same supporting equipment used to pay off traveling cables (Figure 2).

TERMINATION OF CABLE ENDS

Note: ***All installation hardware should only be obtained from Draka EP. Consult TABLE A for ordering information.***

- Attach the WFBRKT to the counterweight frame and terminate the exposed chain link to the WFBRKT (Figure 3).

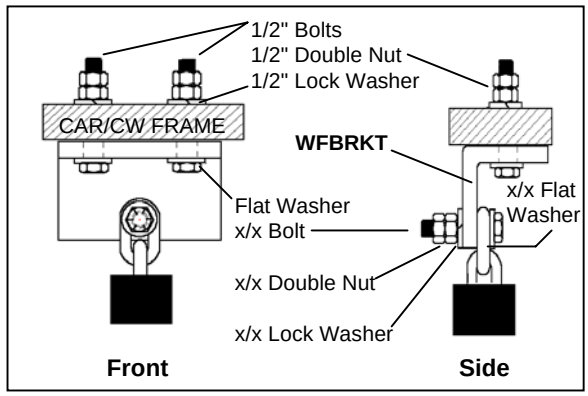

Fig. 3 Securing WFBRKT and Chain
(x/x = 3/8" for WF10, x/x = 7/16" for WF15 to WF30, and x/x = 1/2" for WF35 & WF40)

- Raise the counterweight until enough cable has paid off the reel to reach the car frame. Cut the cable with a hacksaw, and prepare the elevator car-side chain link as shown in Figure 1.
DO NOT EXCEED MAXIMUM HANG LENGTHS LISTED IN TABLE A

- Attach the bare chain length to the car-side end of the cable using a coupling. If there are two couplings within the kit, use the 9/32" coupling with WF25 and WF30 cables and the 3/8" coupling with WF35 and WF40. Each coupling has instructions included.

- Mount the U-bolt so that the distance from the counterweight WFBRKT to the U-bolt matches the loop diameter measurements listed in TABLE A.

- Hang a portion of the bare chain section onto the S-hook to form a safety/adjustment loop beneath the car (Figure 4). With WF25 to WF40 cable sizes, the second coupling (9/32") will need to be used to attach the car-side cable end to the S-hook. Ensure at least 6" of clearance from the WF cable loop to the pit floor before affixing the coupling within a middle link.

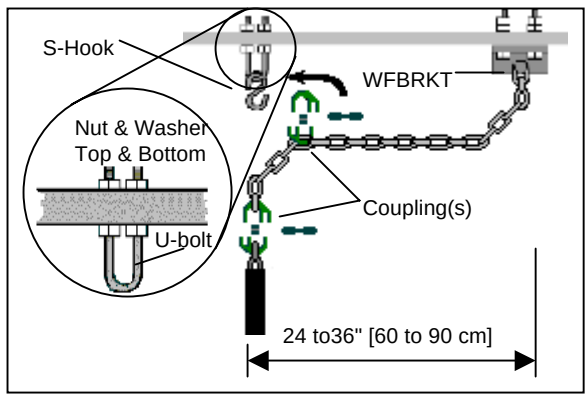

Fig. 4 Forming Safety/Adjustment Loop

- Attach the WFBRKT to the car frame. This should be located 24" to 36" [60 to 90 cm] from the U-bolt (Figure 4).

- Terminate the end link of the chain length underneath the car by attaching the chain to the WFBRKT (Figure 3).

(CONTINUED ON BACK)

NOTE: Draka EP specified hardware has been designed and tested specifically for use with Whisper-Flex® Compensating Cables. Draka Elevator Products, Inc. will not be liable for installations using hardware not supplied by Draka Elevator Products, or for using Draka EP hardware in any method not recommended by Draka Elevator Products. For your safety and the safety of elevator passengers, know the product you are using!

FINAL INSTALLATION STEPS

To balance the load on an elevator car, it may be necessary to distribute the compensation weight between two lengths of cable. If this is desired, space the lengths evenly about the centerline of the counterweight and the elevator cab. Ensure that both lengths remain parallel at all times and have similar loop dimensions (Figure 5).

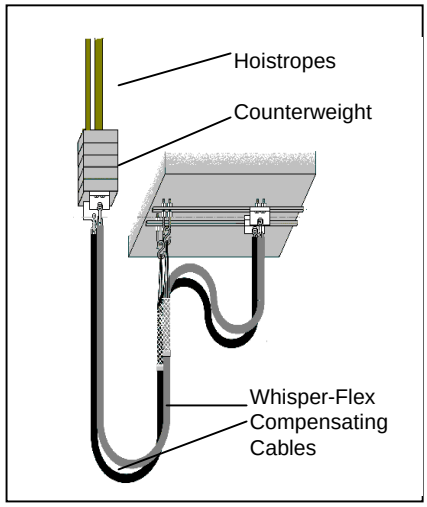

Fig. 5 Placement of Cables

FINAL INSPECTION

Give your installation a final inspection. Ensure that all bolts are installed properly and are tightly fastened. As with any elevator product, a routine inspection plan should be implemented to maximize product safety and performance.

HIGH SPEED APPLICATIONS (Greater than 350 ft/min [1.78 m/s])

Dampening devices (WF-SRD/WF-DSRD) are specified to dampen cable sway. The SwayLess™ (WF-SRD) device is composed of a brass ring with a urethane base and recommended for elevator rated speeds of 350 to 500 ft/min [1.78 to 2.54 m/s]. The Super SwayLess™ (WF-DSRD) device is composed of four overlapping rollers which form a box opening. The WF-DSRD is recommended for elevator rated speeds of 500 to 700 ft/min [2.54 to 3.56 m/s].

Mount the dampening devices 3 ft [91 cm] above the bottom-most portion of the loop. Two dampening devices will be required for each cable, one on each vertical portion of the loop.

When the car is stationary, the inside of the cable loop should contact the dampening devices. As the car travels, the loop will become slightly wider and the cable will periodically contact the devices thereby limiting cable sway and dampening oscillation (Figure 6).

NOTE: When two Super SwayLess™ devices are mounted in the pit to guide one compensating cable, it is essential that two rollers of each device remain parallel to the hanging plane of the cable loop (Figure 6).

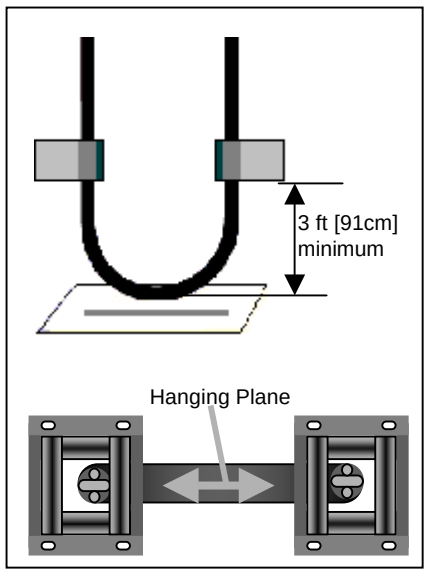

Fig. 6 Correct Placement of Devices

INSTALLATION KITS

Draka Elevator Products, Inc. has developed a Whisper-Flex® installation kit with all necessary hardware to hang one Whisper-Flex compensating cable. *Each kit includes: Mounting Hardware (U-bolt, S-Hook, 2-WFBRKTs and all necessary hardware), 1 – 4 ft Chain length, 1 or 2 Couplings.*

TABLE A - PRODUCT SPECIFICATIONS

Product Code	Weight lbs/ft	Weight kg/m	Loop Diameter in	Loop Diameter mm	Max. Hang ft	Max. Hang m	Installation Kit
WF10	1	1.49	24	610	600	180	JCC-10-CHN
WF15	1.5	2.23	24	610	600	180	JCC-20-CHN
WF20	2	2.98	26	660	520	158.5	JCC-20-CHN
WF25	2.5	3.72	26	660	600	180	JCC-30-CHN
WF30	3	4.46	26	660	505	154	JCC-30-CHN
WF35	3.5	5.21	27	690	600	180	JCC-40-CHN
WF40	4	5.95	27	690	530	161.5	JCC-40-CHN

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