

TRAVEL CABLE HANGER

Patent Pending

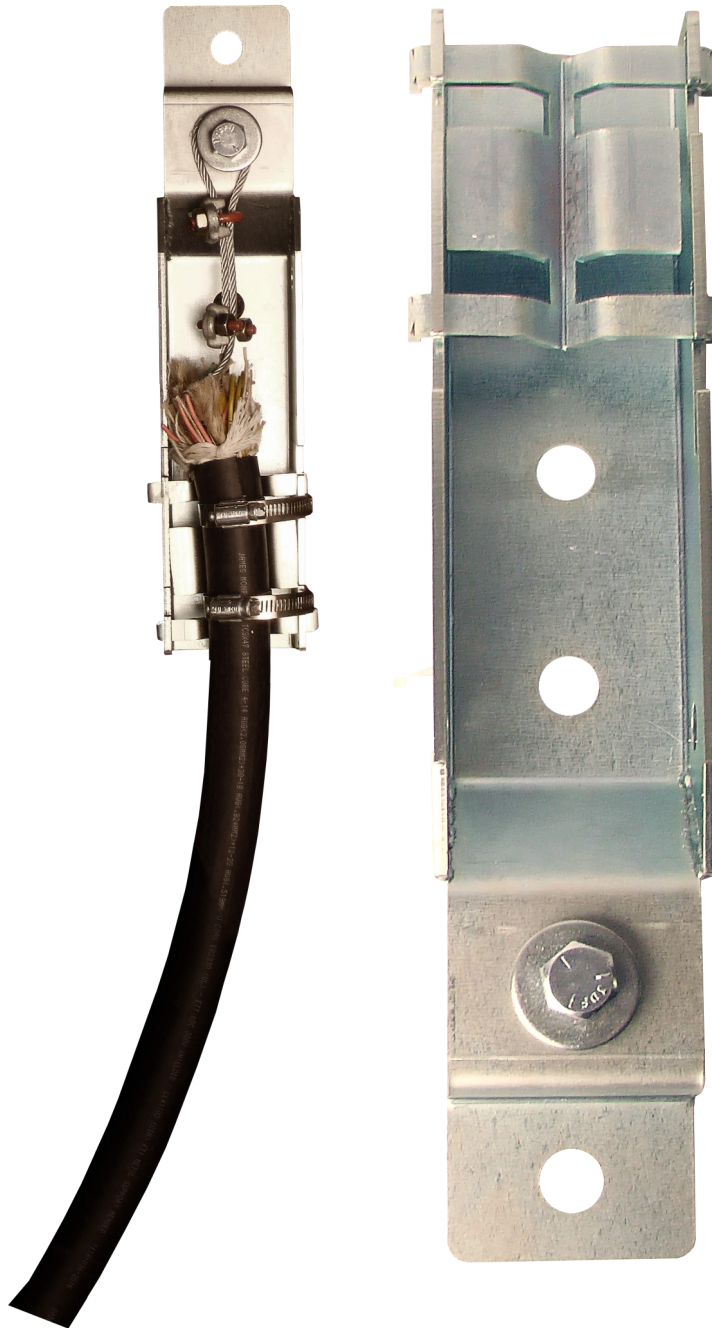


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NOTICE

ABOUT THIS MANUAL

- The equipment covered in this manual should only be installed, used, and serviced by qualified personnel trained in proper work and safety procedures. This manual is intended to assist such trained individuals in the installation of this equipment and is not intended as a substitute for proper training and experience.
- This document and any other information regarding this equipment is not intended to cover all of the possible situations which may be encountered while using the equipment described herein. Should specific situations arise which are not covered by the information provided, or should the user desire further details, the specifics should be directed to Wurtec, Inc.
- Note: In the interest of continuous product improvement, Wurtec, Inc. reserves the right to modify the design and specifications of this product at any time without notice.

WIRE ROPE CLIP SAFETY INFORMATION

Clip Size/ Rope Size	Minimum # of Clips	Amount of Rope to Turn Back	Torque (ft-lb)
1/8"	2	3-1/4"	4.5
3/16"	2	3-3/4"	7.5
1/4"	2	4-3/4"	15

If a greater number of clips are used than shown in the table, the amount of turnback should be increased proportionally.

*The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.

Table 1. Wire rope clip specifications.

The following information is from the Crosby Forged Wire Rope Clip Warnings & Applications Instructions:

- Turn back specified amount of rope from thimble or loop. Apply first clip one base width from dead end of rope. Apply U-Bolt over dead end of wire rope – live end rests in saddle (never saddle a dead horse!). Use torque wrench to tighten nuts evenly, alternate from one nut to the other until reaching the recommended torque.
- When two clips are required, apply the second clip as near the loop or thimble as possible. Use torque wrench to tighten nuts evenly, alternating until reaching the recommended torque.

NOTICE

Wire Rope Fastening

- Properly placing and fastening the wire rope clips will ensure that the steel wire rope core of the travel cable will not slip and result in the loss of the support capabilities of the Travel Cable Hanger.
- In accordance with good rigging and maintenance practices, the wire rope end termination should be inspected periodically for wear, abuse, and general adequacy.
- Refer to the Elevator Industry Field Employees' Safety Handbook for additional information

! WARNING

- Read and understand these instructions before using clips. Failure to read, understand, and follow these instructions may cause serious injury or death!
- Prepare wire rope end termination only as instructed.
- Do not use with plastic coated wire rope.
- Apply first load to test the assembly. This load should be equal to or greater than loads expected in use. Next, check and retighten nuts to recommended torque (see Table 1).

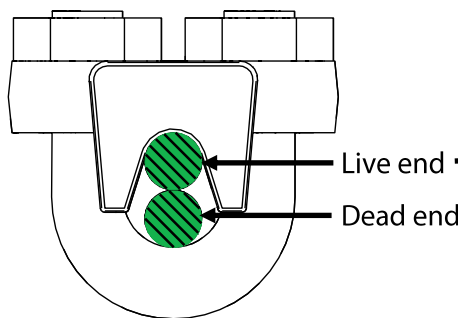


Image 1. Wire rope clip orientation.

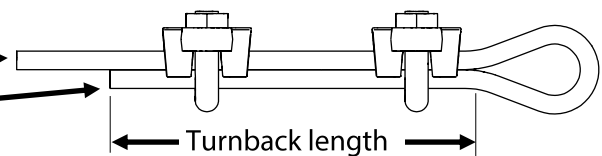
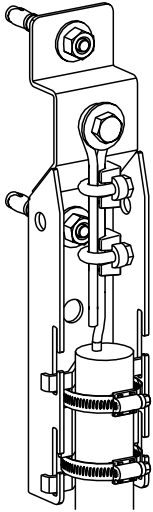


Image 2. Wire rope clip placement.

DESCRIPTION, SAFETY FEATURES, & SPECIFICATIONS



The Travel Cable Hanger is designed to be able to support the weight of any size travel cable and secure it in the hoistway or on the elevator car to prevent rotation or other unwanted cable movement.

The Travel Cable Hanger includes a **hanger bracket assembly** which can be mounted to either the hoistway wall or the elevator car. Three (3) mounting holes are provided which are intended for 5/8" anchor bolts. The hanger bracket has a support bolt & fasteners attached to it; the steel core of the travel cable is looped around the sleeve on the bolt, between the flat washer and the bracket, and is secured via two (2) wire rope clips.

The Travel Cable Hanger also includes a removable cable-mounting insert and (2) hose clamps to support the cable jacket and prevent the cable from twisting. The hanger bracket has slots to accept the flanges on the insert and keep the insert in a secure position.

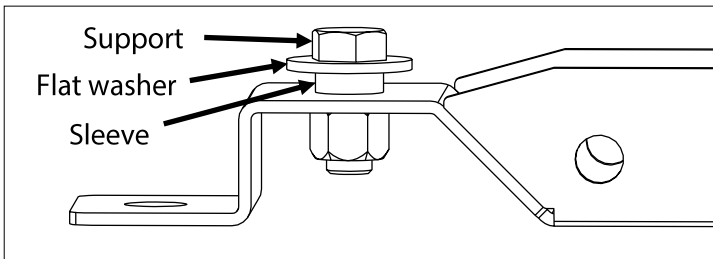


Image 3. Support bolt.

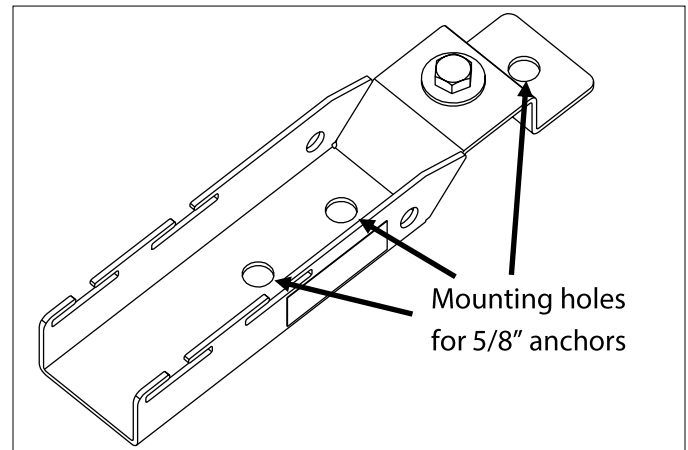


Image 4. Hanger bracket assembly.

PACKING LIST

The Travel Cable Hanger ships with the following items:

- **Hanger bracket assembly**
- **Hardware kit**—(2) wire rope clips, (2) hose clamps, (1) mounting insert

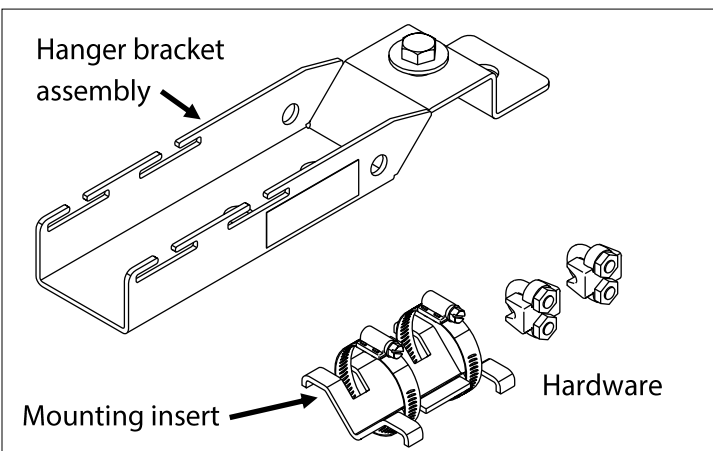


Image 5. Kit Contents.

INSTALLATION TOOLS

- 3/8", 1/2", or 9/16" socket or wrench—for the wire rope clips; see Table 2 below for tool size.
- 5/16" socket or nut driver OR flat head screwdriver—for the hose clamps

Part No.	Steel Core Ø	Wrench/ Socket Size
20-284	3/32" — 1/8"	3/8"
20-285	5/32" — 3/16"	1/2"
20-286	1/4"	9/16"

Table 2. Travel Cable Hanger specifications.

INSTALLATION

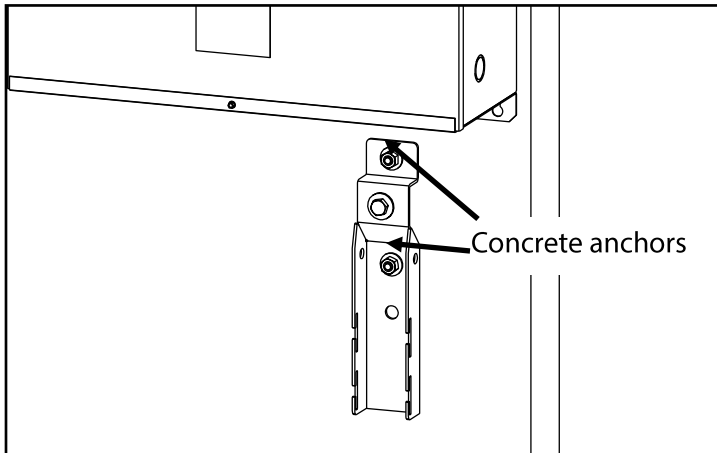


Image 6. Outer cable covering removal.

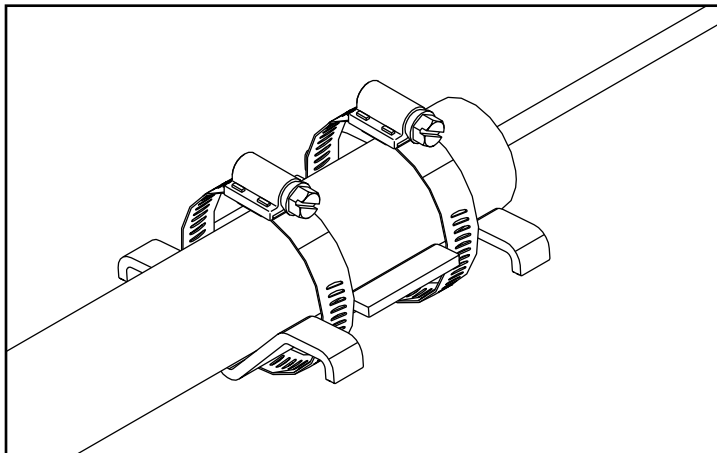


Image 7. Travel cable with insert & clamps.

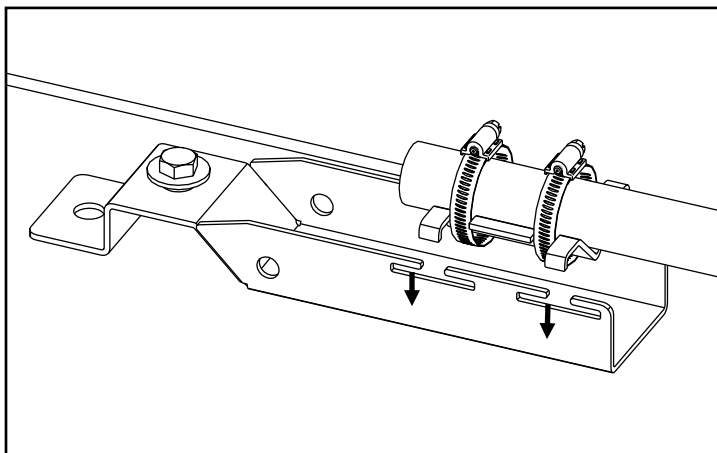
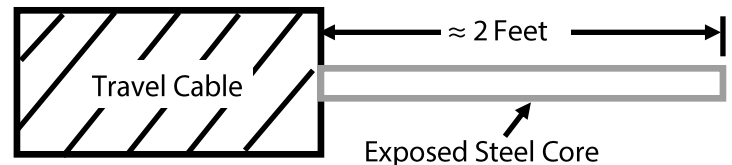


Image 8. Installing insert with cable attached.

1. Mount the Travel Cable Hanger at a suitable location in the hoistway or to the elevator car.
There are three (3) 11/16" holes on the bracket which can be used for 5/8" concrete anchors or other fasteners. Only two (2) fasteners are required.
2. Trim away the cable covering on the travel cable to expose the wires and steel core.
3. Leave at least 2 feet of steel core exposed so there is plenty of wire available to wrap around the bolt and create a proper wire rope end termination.
4. Remove any covering on the steel core so that the metal is exposed.



5. Place hose clamps around the appropriate insert. Leave the clamps open so that you can fit the travel cables inside of them.
6. Place the travel cable onto the insert and inside of the hose clamps.
7. Tighten the hose clamps around the travel cable.
8. Place the insert into the slots on the hanger.
9. Allow the weight of the cable to pull the insert into a secure position in the slots.

Make sure the hose clamps are tight so the cable does not slip out.

INSTALLATION

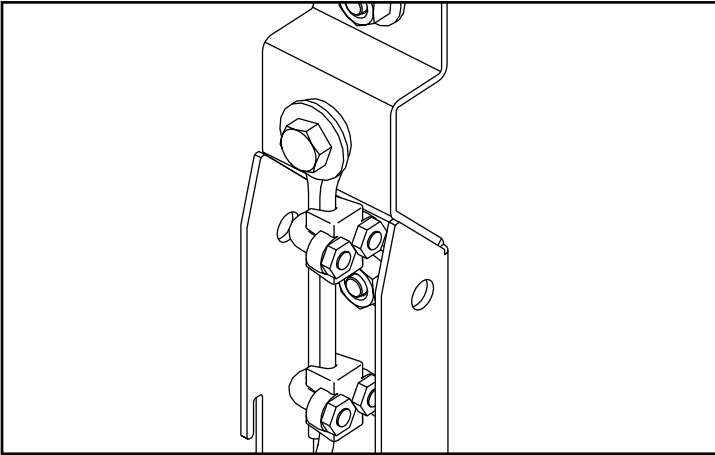


Image 9. Looping the steel core around the support bolt.

Clip Size/ Rope Size	Minimum # of Clips	Amount of Rope to Turn Back	Torque (ft·lb)
1/8"	2	3-1/4"	4.5
3/16"	2	3-3/4"	7.5
1/4"	2	4-3/4"	15

If a greater number of clips are used than shown in the table, the amount of turnback should be increased proportionally.

*The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.

Table 1. Wire rope clip specifications.

- Loop the steel core around the Support Bolt and secure it to itself with the wire rope clips. Use the appropriate torque value for the wire rope clips. Also, make sure to use the specified length rope turnback for the dead side of the steel core. The torque and turnback values are shown in Table 1 (replicated below).

WARNING

Clamp the U-bolt to the loose or "dead" end of the wire rope, and the live end up against the saddle. See Images 1 & 2 (replicated below).

Be sure to double check the tightness of the nuts on the wire rope clips to ensure that the wire will not slip.

- Tighten all hardware connections and test the system in a controlled setting to ensure that the travel cable is fully supported and secured by the Travel Cable Hanger.

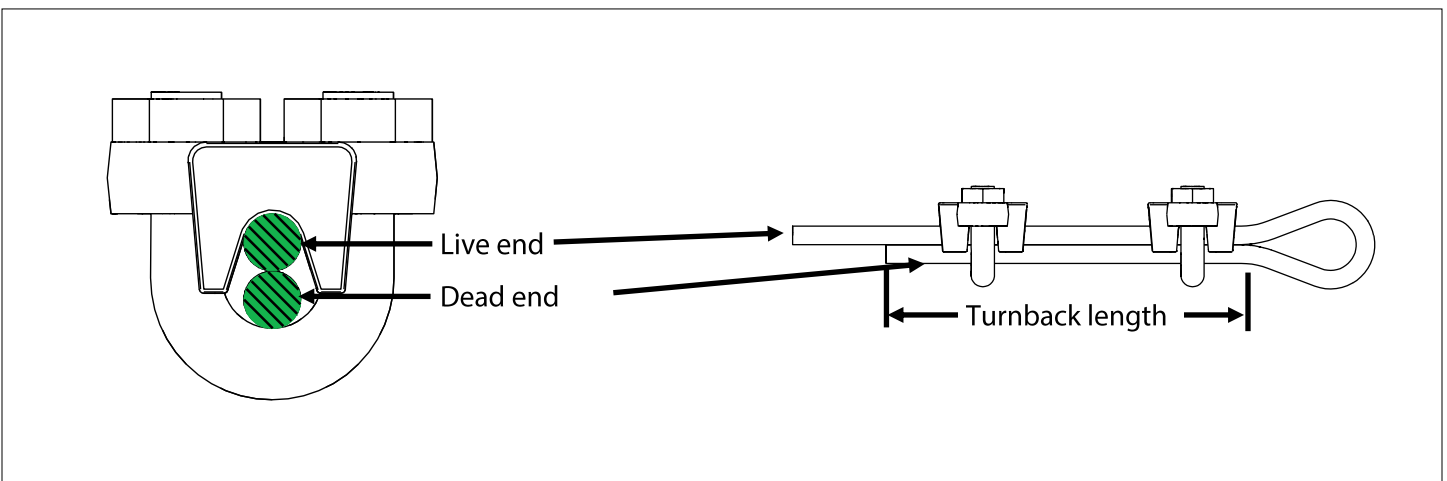


Image 1. Wire rope clip orientation.

Image 2. Wire rope clip placement.

SAFETY CHECKLIST

Perform these checks prior to use:

Item	Action	Date	Initials
1	Check for proper orientation of wire rope clips		
2	Tighten wire rope clips to specified torque value		
3	Tighten hose clamps around travel cable jacket		
4	Check for secure positioning of the insert		
5	Check mounting connections		

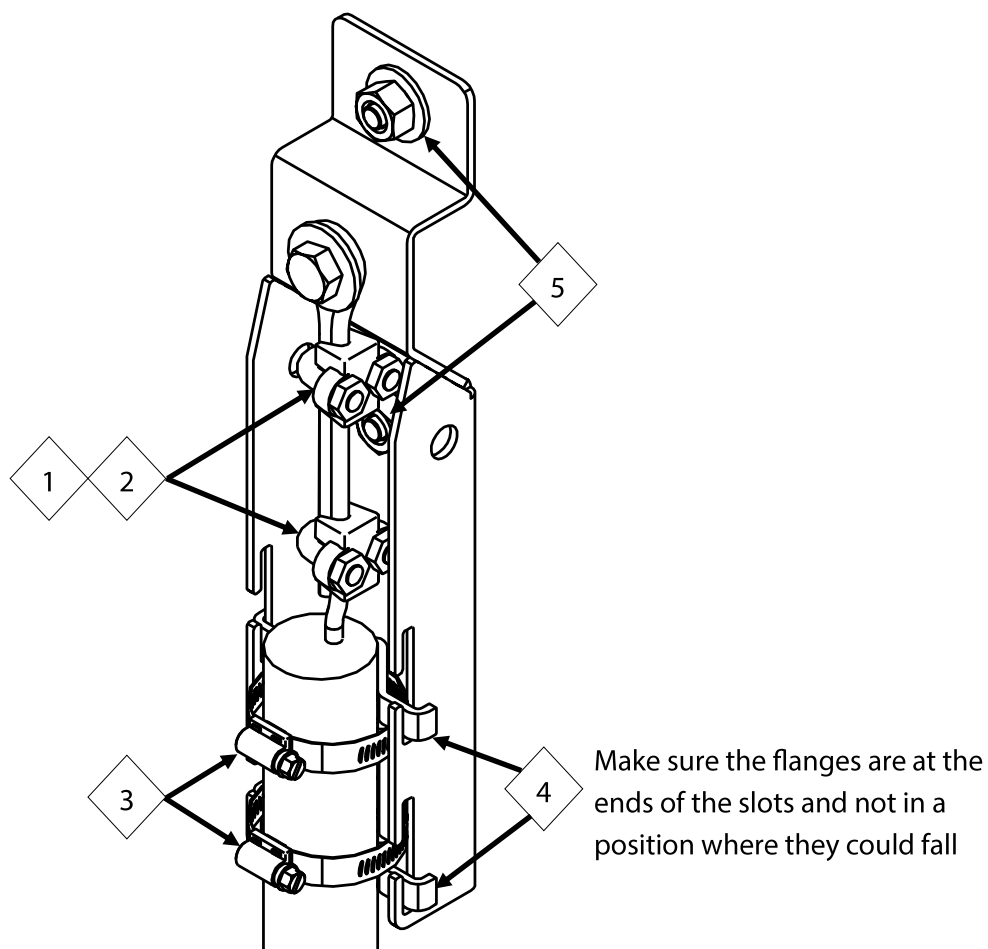
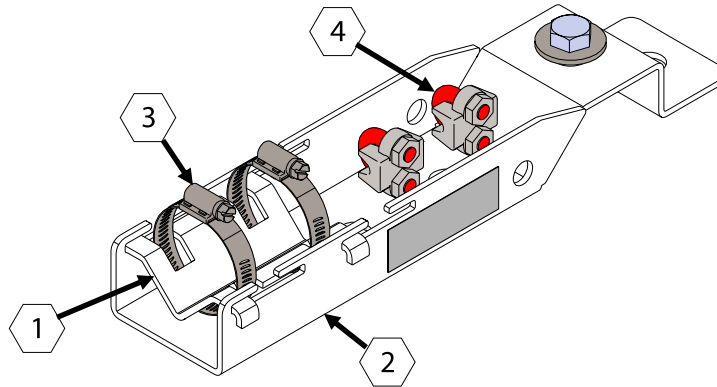
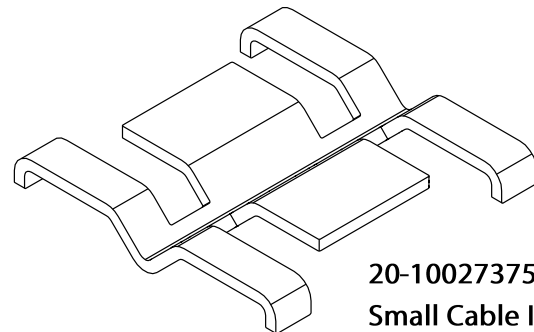


Image 7. Safety checklist diagram.

BILL OF MATERIALS

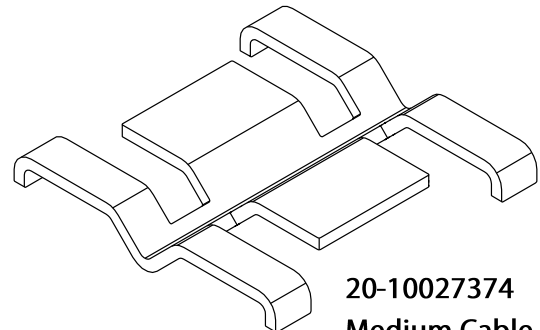


20-284				
ITEM	QTY.	PartNo	Description	Size
1	1	20-10027375	SMALL CABLE INSERT	-
2	1	20-10034087	BRACKET ASSEMBLY	-
3	2	5415K140	HOSE CLAMP	#12 X 1/2" W
4	2	16-017	WIRE ROPE CLIP	1/8"



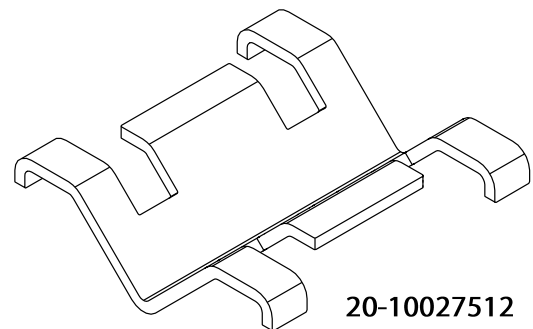
20-10027375
Small Cable Insert

20-285				
ITEM	QTY.	PartNo	Description	Size
1	1	20-10027374	MEDIUM CABLE INSERT	-
2	1	20-10034087	BRACKET ASSEMBLY	-
3	2	5415K160	HOSE CLAMP	#20 X 1/2" W
4	2	16-019	WIRE ROPE CLIP	3/16"



20-10027374
Medium Cable Insert

20-286				
ITEM	QTY	PartNo	Description	Size
1	1	20-10027512	LARGE CABLE INSERT	-
2	1	20-10034087	BRACKET ASSEMBLY	-
3	2	5415K180	HOSE CLAMP	#28 X 1/2" W
4	2	16-010	WIRE ROPE CLIP	1/4"



20-10027512
Large Cable Insert