

## EHV CABLE DRUM LOADING & UNLOADING AT SITE

The purpose of this guide is to provide right procedure to handle the EHV Cable Drum. Cable drum has been designed in such a way that if handled properly, there will not be any damage to the product.

### **Inspection on Receipt/Pre-installation:**

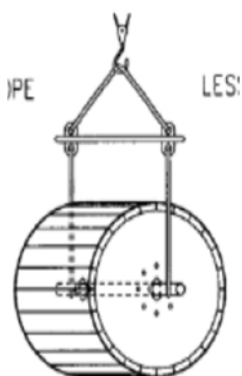
- i) Check during drum loading and unloading: the cable marking against packing list to confirm the size, length, type and grade of the cable, Direction of rotation, Customer name and Address, Manufacturer name, Drums Number etc.
- ii) Ensure the use of proper tools for opening the packing.
- iii) Check for damages that may have occurred during transit or unloading
- iv) Damages to be checked as: Condition of the cable drum and its packing. Lagging /PP sheet damaged/outer GI sheet, Presence of cable end seals. Sheath ruptures /Damage / Armor breakage or bent Condition of the drum/reel, If any damage found during transportation proper reporting with photographs as in condition with transporting vehicle must be done.

### **Loading and Unloading of the Drum and storage:**

EHV Cable Drum loading and unloading should be done with proper capacity crane, shaft as shown in below pictures, good quality sling or belt, Drum should not be dropped from the vehicle or height while unloading. Drum should not strike another drum while unloading.

This arrangement is very important for Loading and unloading of cable drums at main store / site store why because it doesn't allow to press cable by pressure of slings and weight of cable drums.

- **Storage area surface should be flat and rigid, brick /RCC. It is very important to protect cable drums from any mechanical damage/theft/water. Storage platform should be some extra height to avoid any water logged.**
- **Storage area should have boundary wall with proper lockable gate and security guard should be provided 24hrs. Proper Lighting facility must be arranged.**
- **Drum should be inspected after every three months in case it is stored for long periods.**



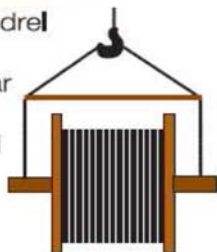
When off loading reels from a truck, lower reels carefully using a hydraulic gate, hoist or forklift truck.



Never drop reels. If reels must be rolled, roll in opposite direction of the cable wraps to keep cable from loosening on the reel.



When using a hoist, install a mandrel through the reel arbor holes and attach a sling. Use a spreader bar approximately 6 inches longer than the overall reel width placed between the sling ends just above the reel flanges.



This may lead to the bending of the reel flanges and mashing the cable.



It is always safer to use a strong and well-drained surface for storing drums. If possible, the drums should be raised from the ground by the insertion of wooden planks, etc, below and on both sides of the drums : some check pieces should be placed so as not to allow the drums to be rolled loosely and easily. Cable drums should also be stored away from the direct sun and rains. Reason : Direct sunrays can cause deterioration due to UV rays and rain can cause damage to wooden drum, resulting drum collapse after few months.



Multiple reels stacked on top of each other ("Pancake" storage) is not recommended for cable drums. The weight of the stack can total thousands of kgs, creating an enormous load on the bottom reel. Also, damage to the reel and/or cable will likely occur when the reel is flipped for transit. A concentration of stress on the reel flange may cause it to break and subsequently damage the cable.



### Fasten the Drums during Transportation or Shifting at site

The drums shall be fastened to the base through the center hole or across the flanges with wires or ropes. To prevent movement of the drums, a combination of wedges / Stopper / support should be used as shown in figure.

Cable Drum should be shifted at site location when cable laying pre-activity (Cable Trench excavation, HDPE pipe cleaning) completed.

Unloading of cable drum should be done with same arrangement as shown as previous slide.

