

# INSRTRUCTIONS

INSTALLATION GUIDELINES FOR CABLES



OmanCables  
الكابلات العمانية





## PRECAUTIONS TO BE TAKEN DURING INSTALLATION

2

Always ensure that there are end cap on both ends of the cable.

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Cable should not be pulled suddenly or by jerks but accelerate slowly & smoothly to constant pulling speed & sharp edges, corners or contacts should be avoided. Minimum Bending radius should be maintained as per Data sheet/ Catalogue.

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Never lay the drum in flat position & never pull the cable from such flat laid cable drum.

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The cable should be pulled by "Pulling eye". Tension on the cable should not exceed the maximum pulling tension recommended for that cable.

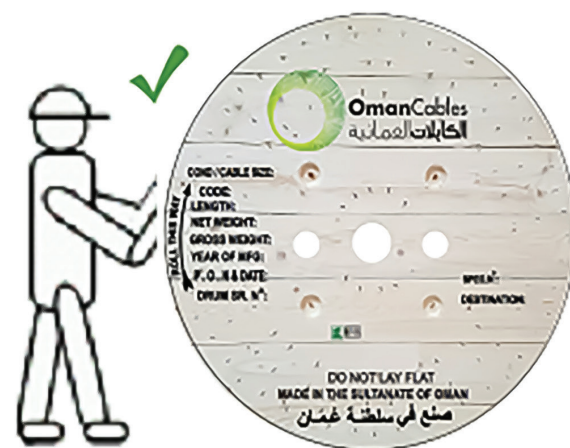
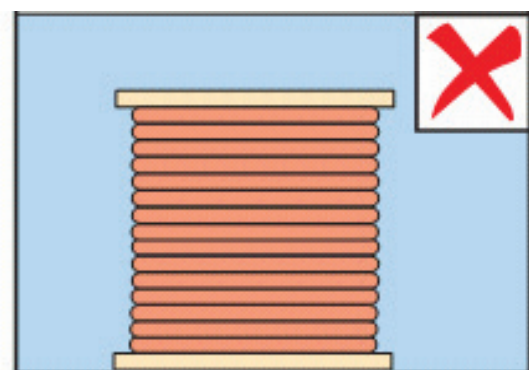
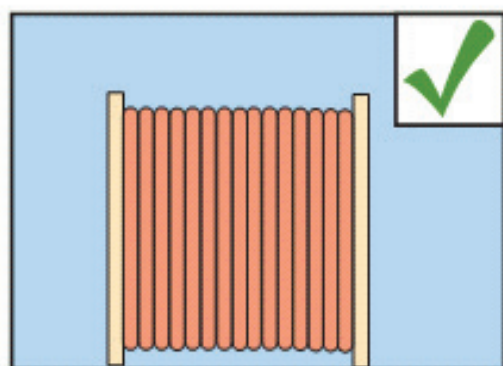
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In the case of PVC cables (PVC insulated or PVC sheathed cables) and LSZH sheathed cables, unwinding from drum & installation should be done only when both the cables and ambient temperature are above 0 ° Centigrade & have been so far at least previous 24 hours.





## LIFT DRUMS ON FORK TRUCKS CORRECTLY





# INSTALLATION GUIDELINES FOR LSZH SHEATHED CABLES

Low Smoke Zero Halogen (LSZH) sheaths (also known as LSOH, LSOH or LSF Low Smoke Fumes), does not have the same mechanical strength as other sheathing materials like Polyvinyl Chloride (PVC) & Polyethylene (PE), particularly at higher temperatures. It is therefore strongly recommended by Oman Cables Industry (OCI) that LSZH sheathed cables shall be used mainly for indoors application (not under direct sun-light), and only where cables have been specified to have low smoke and toxic gas emission property.

## INSTALLATION

We recommend the following special guidelines, in conjunction with the standard installation instructions.

- The LSZH cables must be stored in proper packed condition, in the shade. Direct exposure to sun must be avoided.
- As LSZH sheaths have lower tear strength property when compared to PVC and PE sheaths, special care must be taken during handling & installation to avoid any damage. Even a small cut on the LSZH sheath could result in the sheath splitting.
- Use pay-in rollers and corner rollers of non-metallic material (Nylon or Teflon) at least every 4 meters when laying the cable.
- Wherever possible, installation must be under cover or indoors. Where outdoor installation is unavoidable, direct exposure of cable to sunlight must be avoided by using suitable cable trays with suitable covers.
- The cable must not come into contact with hot surfaces in any circumstances.

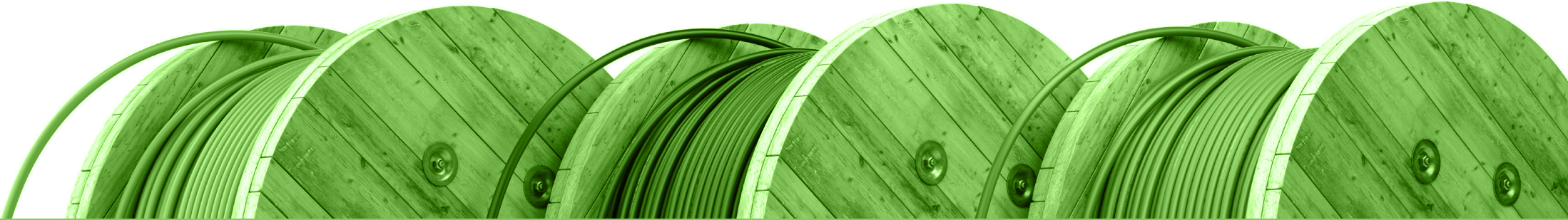
- The installation bending radius must not be less than that stated on the cable data sheet. (Care must be taken, particularly if cable is installed by the flaking method, that this minimum bending radius is not compromised.)
- Any clamping device must not be applied directly onto the outer sheath. There must be some form of cushion (for instance a rubber pad of approximately 3 mm thickness) between the cable's outer sheath and the clamps.
- The distance of unsupported length of cable for horizontal and vertical run must follow below recommendations:

Overall diameter of cable (mm)	Maximum spacing between the supports for horizontal run (mm)	Maximum spacing between the supports for vertical run (mm)
Up to 14.9	350	450
19.9 – 15.0	400	550
39.9 – 20.0	450	600
59.9 – 40.0	700	900
60.0 & above	1100	1300

## RE-WINDING

During re-winding, extreme caution must be taken during the process to avoid damage. The following must be adhered to:

- The winding must be done equally and uniformly with no over-riding of the coils or pinching on the sides of the drum.
- The pay-off drum must have an adequate braking system to prevent the cable from becoming loose on the drum.





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