

GUIDELINES FOR LAYING CABLES/HOSES IN DRAG CHAINS

THE LAYING OF SUPPLY CABLES AND HOSES IN DRAG CHAINS SHOULD BE UNDERTAKEN WITH THE GREATEST CARE. THE FOLLOWING POINTS SHOULD BE HEDED AS A MATTER OF PRINCIPLE:

- Note permissible bending radius of cable/hose manufacturer.
- Cables (round or flat) should, if possible, be laid individually, loose, next to one another. Laying several cables on top of one another, or laying round cables with differing diameters directly next to one another, is not recommended by cable manufacturers
- Only double-insulated highly flexible cables/hoses should be used.
- The cables must be freely movable within the chain stay. 10% of the cable diameter should be available as clearance.
- Take care that the cables run through the bending radius without any hindrance.
- In the case of multi-layered laying, the cables/hoses must be pulled into the drag chain in such a way that they have appropriate clearance among themselves even in the curvature.
- The cables should be laid in the drag chain without twists. Cable from reels or drums must be unrolled, do not lift off cables in loops.
- Highly flexible cables with a diameter of less than 10 mm should be loosely collected together and laid twisted together in a guide tube in the drag chain. The tube selected should have a diameter considerably greater than the sum of the individual cable diameters.
- Flexible pressure hose must be freely movable within the chain stay, since it becomes shorter or longer according to changing load. Information on the length behavior of hoses can be found in the manufacturers catalogues.
- Distribution of weight in the chain stay should be as symmetrical as possible. Heavy cables/hoses should be laid to the outside, lighter cables/hoses to the inside.
- All cables/hoses should be firmly clamped at the fixed point and at the driver. It should be noted that pressure may only be exerted over a large area on the sheath. Clamping must be carried out in such a way that individual cores in cables are not squashed but that the cables/hoses cannot be displaced.