BIN-SENSE® Moisture Cable Installation

1.1 Cable Arrangement

Sensing Cable:

- The cable comes out of the package in a coiled loop. This loop is intended to be your shoulder strap to make it easier to carry up the bin. When on the bin roof, secure parts and equipment adequately to prevent items from sliding off of the bin, and to avoid potential damage to equipment, the bin, or personal injury. Once the Sensing Cable is properly installed as detailed below, remove the securing cable tie from the short connector cable and plug in as required.
- Accessories needed for installing sensing cables are:

✓ 4 self-tapping screws ✓ Floor anchor kit ✓ Silicone/sealant

CAUTION: Extreme care and caution must be used when climbing up a bin. Be sure to use approved safety procedures and materials such as ladders and a safety harness. When working above 1.2 metres, wear a safety harness or personal protective equipment. An approved tool belt must be worn to keep both hands free when climbing up and down a ladder.

CAUTION: SHARP EDGES ON NODES

Figure 1 – Cable Mounting Head and Cap

Figure 2 – Sensing Cable Coil

1.2 Installing one Cable in the Center of the Bin

1. Prepare a location for the Sensing Cable that will not be directly in the grain stream of an auger or conveyor.
2. Position the Cable Mounting Cap between two roof ribs, so the two top corners of the cap just touches the ribs, marking a position of the cap to act as a guide for where to drill the cable hole.
3. Drill a vertical 1.5" (37.5 mm) hole within the center of the marked spot.
4. Feed the Sensing Cable through the hole and into the bin. Ensure that the green guide plastic insert is placed inside the hole in order to center the cable in the hole. To avoid kinking, do not over bend the cable.
5. Position the Cable Head so that it lays flat on the top of the bin. The direction of the sensor connector cable extending out of the cap should be on the low side (downward) and the swivel should be positioned on a horizontal plane directly in the center of the hole.
6. Insert the 4 self-tapping screws into the allotted pre-drilled holes. (NOTE: the swivel built into the mounting cap allows the Sensing Cable to rest vertically plumb, naturally.)
7. Connect the female end of the Link Cable to the male end of the Connector Cable of the Sensing Cable and run the Link Cable down the bin from the desired Remote/Master unit location. Secure the Link Cable using the clips and screws provided (screwing clips on top of the bin roof ribs is recommended). Ensure a bit of slack is provided for around the roof edge. For use with BIN-SENSE® DIRECT or other handheld monitors use the Link Cable as a Drop Cable to extend to the ground.
8. To install anchor in the bottom of the bin, go inside and using the screws provided, secure the ring and anchor to the floor (or hopper) directly below where the cable enters the bin. For concrete floors, use a 3/16" SDS bit to predrill the holes for the floor anchor, install cement anchors provided and screw down the floor anchor. For wood floors use the 2" long wood screws and 3/4" tek screws for steel.
9. Using the twine and snap link provided, tie one end of the rope to the eyelet on the cable first, and then the other end to the snap link (see *Figure 3*). Ensure that the length is appropriate to connect the floor anchor without being too tight. The cable should only be **snug**.

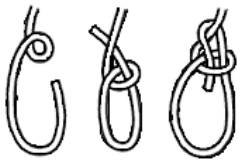

Figure 3

10. Multiple cable bins can connect to one central fastening point. If you choose to use this method you can mount a floor anchor in the middle of the bin and leave enough slack in all the ropes that when the grain fills the bin it will naturally push the cables out to their desired locations.