StorMax
Retractable Temperature Cable

System consists of one or more temperature cables per bin, with each cable having temperature sensors at 4' spacing. Based on our industry-leading digital technology, a series of cables may be interconnected to a convenient location for readout to your StorMax monitor.

Retractable Temperature Cables

Our exclusive retractable temperature cables feature a reliable design that shields temperature sensors inside a protective outer tube. StorMax cables are easy to install and are easily serviced by the customer, whether your bin is empty or full!

Cable Type	Medium-Duty MDR2	Commercial-Duty CDR2	Heavy-Duty HDR2
Grain Depth	Up to 70'	70' – 140'	> 140'
Tensile Strength	3,400 lbs	8,400 lbs	11,000 lbs
Estimated Load	20 lbs/foot	25 lbs/foot	30 lbs/foot

Hanger for inside suspension to the roof structure.

Angle for mounting on the outside of the roof. Great for retrofit applications!

2-Channel Line Divider

3-Channel Line Divider

Many kinds and numbers of sensors can be interconnected on the same line.

Cables consist of an outer and inner removable tube and sensors. Cable length and the number of cables and sensors depend on your bin size.
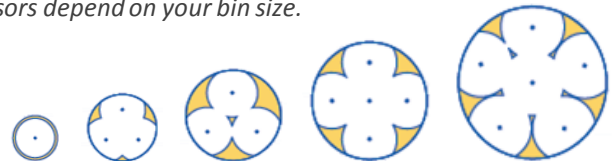
Multi-Cable Options

Since grain is such a good insulator, temperature won't move very far across the bin. As a result, bins 24' and greater in diameter require multiple cables.

Bin Diameter	<24'	24'	36'	42'	48'
Coverage with OPI recommended cables	90%	99%	80%	86%	88%
Coverage with One center cable only	90%	69%	31%	23%	17%

Roof Support Brackets

OPI-integris offers a series of roof support brackets for cable lengths of up to 50', which may be installed during or after bin construction.

BRK3 roof support bracket for radius cables up to 35' in length.

BRK1 & 2 roof support bracket for radius cables 35' - 50' in length.

Read these instructions before cable installation to familiarize yourself with our StorMax cables.
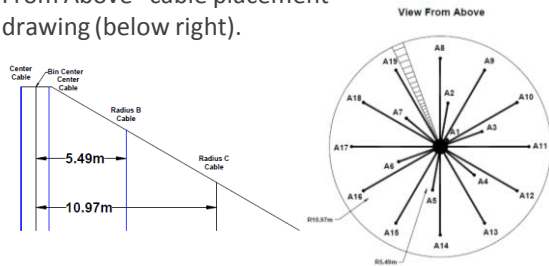
Address Number

Step 1: Identify Cables by Address
Each cable comes with a pre-set address, which is the "A#" on the white tag attached to the sensing element and tube.
It is very important to install each cable in its correct location.

Step 2: Cable Location
Install the cables by address as illustrated in the "View From Above" cable placement drawing (below right).

Step 3: Cable Installation
It is very important to install the eyebolt in-line to the rafter (as shown).
Keep enough clearance from the rafter to the bottom hole, so the cable can move freely without hitting the rafter.


Good Eyebolt Installation   *Bad Eyebolt Installation*

Step 4: Lead Installation
1. Secure the INT2 lead to the V-bolt (i.e., tie-wrap) to relieve all strain on the connector.
2. Fully engage the connector with the snap over the tab.
3. Route the lead up to the rafter with enough slack to allow for movement. Clip the lead to the rafter every 3' using the clips and Tek screws.
4. Away from moving equipment and grain flow, route all leads around the roof cap to a common point where the collected group will exit the roof cap.

Collection Point for 1¼" Conduit Fitting
View from Bottom
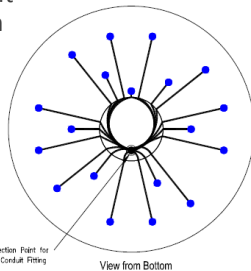
Step 5: Test Cables
Test each cable for correct address and temperature readings, before jacking the bin!
1. Turn on the StorMax monitor.
2. Connect the test lead plug into the top of the monitor with the white alligator clip to the white wire and the black alligator clip to the black wire on the INT2 lead.
3. The monitor should display "Please Wait" for 1-2 seconds before displaying temperatures with:
   a. Address number (bottom)
   b. Question marks (top)
   c. Temperatures based on the "S" (sensor) letter shown on the right side. Use the Up/Down arrows to see all sensors.
4. Troubleshooting
   a. If nothing happens when the cable is connected to the StorMax monitor, there is a disconnected or broken wire between the monitor and the cable.
   b. If the monitor flashes "Please Wait" there is likely a shorted wire between the monitor and cable.

Step 6: Cable Uncoiling
Uncoil the cables as the bin is jacked. Do not try to uncoil the cables by dropping the coil as this will either damage the cable, or create a knot which must be corrected.

Step 7: Cable Tie-Down
Cables must hang vertically and be kept from being pushed out of position as the bin is filled and emptied. The most common method is to tie cables down to a recessed hook in the floor with a twine that is no stronger than 25% of the cable strength. This should not exceed 850 pounds for MDR2 cables and 2,100 pounds for CDR2 cables.