



# moisture

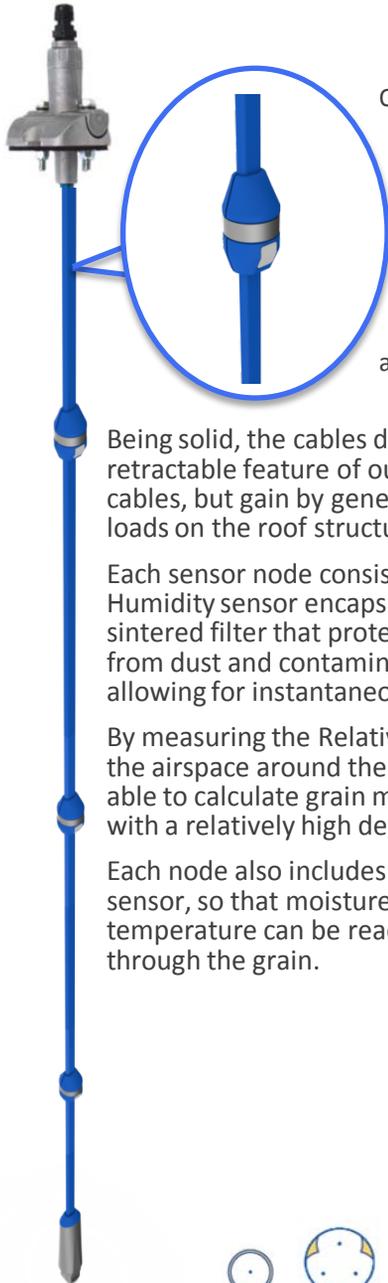
## Cable Suspension and Roof Support Options:

As with our temperature cables, moisture cables come with the option of ANGLE suspension for installing cables on the outside of the roof or HANGER suspension when hanging cables from structural members on the inside of the roof.

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

For ANGLE installations:

- BRK3 for radius cables up to 40' in length
- BRK1 and BRK2 for radius cables of lengths from 40 – 60' in length



Our new moisture cable is "solid" with sensor "nodes" placed on the cable commonly at 4' intervals in farm applications and 6' intervals in commercial applications.

Being solid, the cables do not have the retractable feature of our temperature cables, but gain by generating lower loads on the roof structure.

Each sensor node consists of a Relative Humidity sensor encapsulated in a sintered filter that protects the sensor from dust and contamination, while allowing for instantaneous readings.

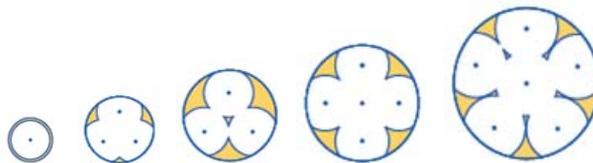
By measuring the Relative Humidity in the airspace around the grain, we are able to calculate grain moisture content with a relatively high degree of accuracy.

Each node also includes a temperature sensor, so that moisture content and temperature can be read all the way up through the grain.



BRK3

BRK 1 and BRK2



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%

## Number of Cables per Bin

Because grain is such a good insulator, we recommend multiple cables from 24' diameters and up. The beauty of the OPI-integrus system is that you can interconnect different kinds of devices, like moisture and temperature cables, on the same line. As a result, we recommend a minimum of one moisture cable with an additional moisture cable per radius in larger diameter bins.