

# Mercury CEMS Umbilical

DEKORON®  
**Unitherm™**  
Tubing Bundle Experts Since 1962

Dekorun Unitherm introduced the *Integrity Series* Mercury CEMS umbilical to meet the needs of the Electric Power Industry.

The *Integrity Series* design employs a high-efficiency thermal insulation which results in an umbilical that is 1/3rd the size and 30% lighter than an identical umbilical using standard fibrous glass thermal insulation.

Continuous refinement has resulted in the smallest, lightest and most efficient Mercury CEMS umbilical in the industry.

#### Application:

- Continuous Emissions Monitoring Systems sampling stack gasses for Mercury in Coal-Fired power plants, cement plants and other emitters.

#### Sample and auxiliary tubing material:

- Virgin PFA and PTFE fluoropolymers
- Ultraclean medical grade PFA fluoropolymer
- Pre-treated and cleaned PFA fluoropolymer

#### Thermal Insulation:

- High efficiency, aerogel thermal insulation with an effective K factor 1/2 to 1/3rd that of conventional fibrous glass thermal insulation.

#### Outer jacket materials:

- Lead-free UV Stabilized low temperature flame retardant PVC
- Halogen free UV Stabilized thermoplastic polyurethane



The *Integrity Series* Mercury CEMS umbilical shown on the left is dwarfed by an umbilical designed with the same core and heat loss using conventional fibrous glass thermal insulation.

The efficient design provides easier handling, better tray loading, lighter hanging weight and tighter bending radius than conventional designs.

#### Heating Cables:

- 18 watt/ft constant power density heating cable using a high temperature inorganic insulation system.
- Multiple heating zones for umbilical lengths up to 1000 feet.

#### Auxiliary Items:

- Single or multiple temperature sensors
- J and K thermocouple or Pt100 2 or 3 wire RTD
- Shielded sensor cables
- Fluoropolymer insulated power leads

For more information see:

[links to other pages](#)

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