

StackTuff™ Test Umbilical

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

Dekoron® Unitherm™ continues its support of the analyzer industry by offering superior heat-traced products designed specifically for portable RATA testing applications.

The Dekoron® Unitherm™ StackTuff™ Test Umbilical is designed to provide long, trouble-free service in portable CEMS testing operations.

The tough, corrugated nylon outer jacket provides superior abrasion protection when installing the umbilical over gravel access roads and concrete cornices. It also prevents kinking in the sample tube when the umbilical is routed over a wall or railing.

For dry applications there is an optional expanded polyester outer jacket for improved flexibility.

The integral draw cable supports the umbilical in vertical pulls without the need for additional grips or cables.

The RATA-LOC™ end caps allow the operator to change the replicable tube stub ends without twisting the sample tube, even when wearing gloves.

SPECIFICATIONS:

Sample Tubes: Flexible braided Teflon sample line with replaceable fittings.

Heater: Heating element designed to allow repeated bending for longer life. Heater output sized to maintain proper sample temperature at ambients to -20°F.

Control Sensors: Umbilical contains both Type J and Type K control thermocouples.

Insulation/Jacket: Insulated to keep outer jacket temperature below 140°F during operation. Corrugated outer jacket improves handling and prevents hot spots and kinking due to tight bends. Optional polyester jacket for dry applications.

Probe Cable: (Designed per customer specification. Separate from the StackTuff™ bundle) Optional control /sensor cable includes components required for sensors and control at the probe.



FEATURES AND BENEFITS:

- Consistent and predictable operation
- Lightweight and flexible
- Continuous lengths to 100ft
- Continuous weather-resistant outer jacket
- Outer jacket designed for easy installation
- Integral draw cable to allow self-supported vertical pulls up to 100 feet
- Flexible braided fluoropolymer sample tube
- Replaceable end fittings
- RATA-LOC™ end caps to eliminate twisting during installation and removal
- Optional modular construction to allow two or more lengths to be joined together for longer runs.

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Typical Model Numbers: *Contact Dekoron Unitherm for full line of products.*

Model Number	Length	Voltage	Sensor	Configuration
STU64-1JK-SS-25	25 FT	120 VAC	(1) TYPE J T/C (1) TYPE K T/C	3/8" & 1/4" OD X 6" Long SSS Replaceable Tubes E/E
STU64-2JK-SS-25M	25 FT	208 VAC	(1) TYPE J T/C (1) TYPE K T/C	3/8" & 1/4" OD X 6" Long SSS Replaceable Tubes E/E, Modular Plug
STU64-2JK-FP-50	50 FT	208 VAC	(1) TYPE J T/C (1) TYPE K T/C	3/8" & 1/4" OD x 12" Long PFA Fluoropolymer tubes E/E
STU64-2JK-SS-100	100 FT	208 VAC	(1) TYPE J T/C (1) TYPE K T/C	3/8" & 1/4" OD X 6" Long SSS Replaceable Tubes E/E

Construction Details

- Compression unions at each end allow stainless steel or PFA Fluoropolymer tubes to be replaced.
- Compression unions are bonded to end cap to allow easier replacement of tube stubs.
- Hoses configured for modular construction will have circular connectors at each end allowing multiple hoses to be powered from on end. The first hose will control temperature for all hoses.

Specifications:

Sample Tube:	3/8" OD x 0.062" wall PFA fluoropolymer tubing with tinned-copper braid.
Calibration Tube:	1/4" OD x 0.047" wall PFA fluoropolymer tubing with tinned-copper braid.
Tube Fittings:	Stainless Steel Compression Unions E/E
Covering:	Convoluted Nylon jacket. Optional Flexible expanded polyester jacket
Draw Cable:	1/8" OD Galvanized Steel cable, break strength 2000 lbs

Design Specifications:

Design Specifications:	Umbilical designed to maintain tube temperature of up to 400°F (204°C) at ambients to -20°F (-4°C).
Minimum Bending Radius:	12" at -20°F (-4°C) 7" at +50°F (+10°C)
Maximum Operating Temperature:	400°F (204°C)
Heating Element:	Series Resistance Heater Heater temperature must be controlled.
Heater Power:	17 to 25 W/ft based on bundle length
Heater Control:	Type J or Type K thermocouple controller (Supplied by Customer)
Nominal Weight:	
25 ft Hose	28 lbs (13 Kg)
50 ft Hose	55 lbs (25 Kg)
100 ft Hose	110 lbs (50 Kg)
Maximum Pulling Tension	125 lbs (275 Kg)
Minimum Ambient Installation Temperature	-20°F (-4°C)



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For additional information visit our website:
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