

Description

Duct averaging temperature sensors are designed specifically for HVAC system temperature control. The averaging sensors come in thermistor compatible with most BAS systems available today. Averaging sensors come with a foambacked handy box and in 12ft(3.5m), 24ft(7m),39ft(12m) lengths.

Duct averaging temperature sensor should be mounted across a duct in a serpentine fashion with bends in a smooth ark using clip.



12 meter cable with 9 overmolded sensor elements



Clip

Features

- Lengths of 12ft (3.5m),24ft (7m),39ft(12m)
- Five-year warranty
- Cable Property FT4, 105°C, 300V standard or 200°C, 300V high temperature on request.
- Cable Material PVC standard or High temperature silicon available on request.

Specifications

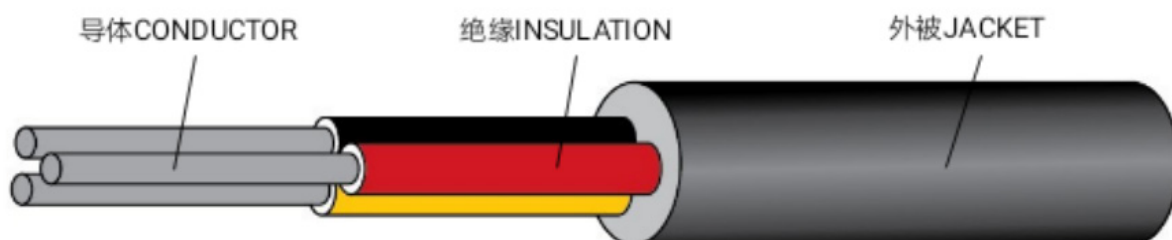
Accuracy	
Thermistor	$\pm 0.36^{\circ}\text{F}$ (0.2°C)
RTD	$\pm 0.5^{\circ}\text{F}$ (0.28°C)
Sensor Type	
Thermistor	10 k Ω Type II & III
RTD	1000 Ω
Temperature Range	-20 $^{\circ}\text{C}$ ~80 $^{\circ}\text{C}$
Stability	
Thermistor/RTD	0.24 $^{\circ}\text{F}$ (0.13°C) over five years
Heat Dissipation	Thermistor, 3mW/ $^{\circ}\text{C}$ (power needed to raise the temperature by 1 $^{\circ}\text{C}$)
Enclosure Rating	Watertight metal box, Metal box, Plastic box
Warranty	5 years

Wire Specifications

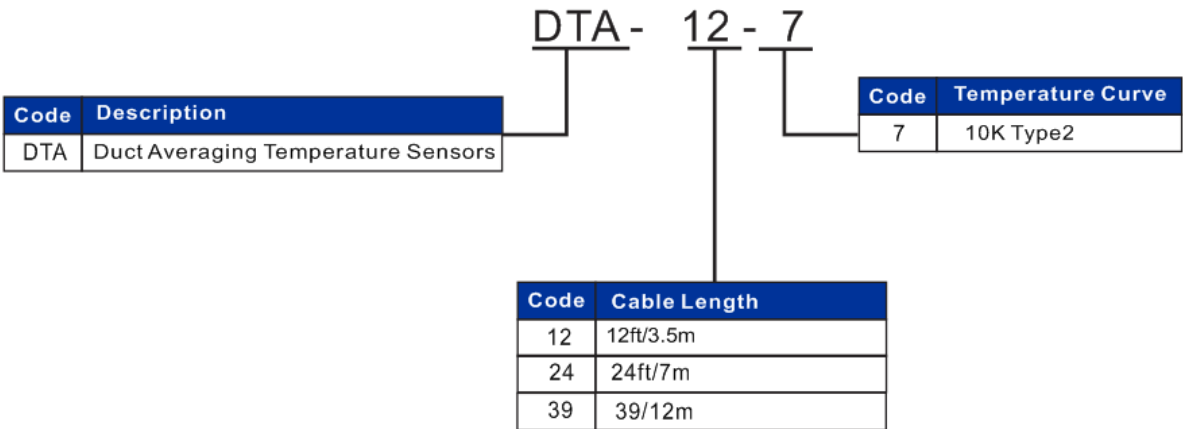
SPEC NO	UL2464 20AWG
Reference Standard	UL1581/758
Rated Temperature	80 $^{\circ}\text{C}$
Rated Voltage	300V
Flame Retardant Grade	VW-1
Environmental Standards	RoHS

Conductor	Sectional Area	AWG/mm	21/0.178 \pm 0.008TS
	Conductor Material	/	Tinned Copper Wire
	Sectional Area	mm ²	0.52
	Stranded Diameter	mm	0.94
Insulation	Material	/	Pvc
	The Average Thickness	mm	0.28
	Minimum Gauge	mm	0.24
	Insulation Diameter	mm	1.5 \pm 0.1
Jacket	Material	/	Pvc
	The Average Thickness	mm	1.05
	Minimum Gauge	mm	0.95
	Overall Diameter	mm	4.8 \pm 0.15

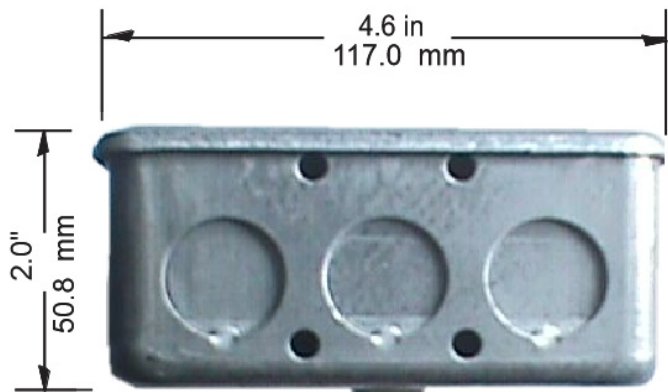
Structure Diagram



Part Number Scheme



Dimension



Wiring Arrangement

