IRISS Safe-Connect TSK-2 Service Kit

Fixed-Wire Overtemperature Indicator Clips

Overview

The TSK-2 ThermoClip™ Service Kit are visual overtemperature indicators for electrical assets. Using a patented Thermochromic technology, these easily-installed clips provide a color-changing visual indicator that work in tandem with IR inspection windows from IRISS as part of the visual component in the inspection process prior to and between infrared and ultrasound inspections. With a memory-effect feature, these non-conducive clips provide inspectors with a permanent visible warning of an overtemperature event.

Kit Contains: 200x H1 Clips, 150x H2 Clips, 50x H3 Clips, 25x H4 Clips, 25x H5 Clips



Key Features

Simple Application
Easy and quick push-on installation with no training required.

Easy to Read
The thermochromic indicators provide a highly visible predictive warning when viewing through IR inspection windows.

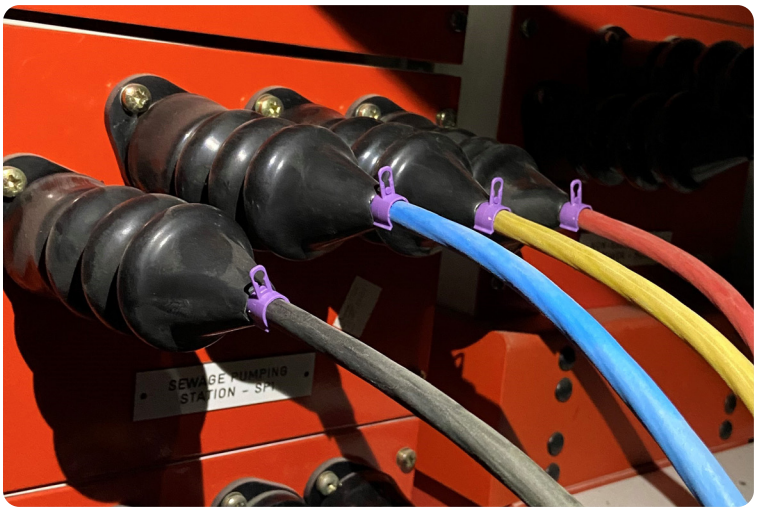
Thermo-Lock Technology
Our patented thermochromic technology enables the indicators to change and lock color to signal elevated temperatures.

Broad Coverage
Multiple models are available to provide for varying wire sizes 17AWG to 750MCM wires suitable for circuits rated 36kVAC/600VDC.

Cost-Effective Solution
Minimum investment for an increased and noticeable improvement to your Operations Safety and Reliability Program.

Passive Design
Temperature-responsive color changes as a passive visual alert system for hazard detection and prevention.





Specifications

Model	H1	H2	H3	H4	H5
General Specifications					
Wire Range	17-12 AWG	10-6 AWG	4-2/0 AWG	3/0-350 MCM	400-750 MCM
Wire Outside Diameter Range	Ø 2.3-4.2 mm	Ø 4.8-7.1 mm	Ø 8-13.6 mm	Ø 13.8-23 mm	Ø 23-31 mm
Overall Height	10.8 mm	13.2 mm	17.8 mm	30.0 mm	34.6 mm
Overall Width	4.8 mm	6.4 mm	10.0 mm	16.0 mm	24.4 mm
Base Materials	5-10% Thermochromic Masterbatch. 90-95% Polypropylene, flame retardant to UL94V0 self extinguishing rating, non-halogenated.				
Initial Color Change Temperature	53°C				
Permanent Color Change Temperature	70°C				
Permanent Color Change Color	Pink				
Tolerance	Approx +/- 1°C				
Response Time	5 to 20 Seconds at temperature of 70°C				
Storage	Store at room temperature & humidity (i.e. 16°C to 27°C & 40% to 60% RH)				
Product Lifespan	Replace overtemperature connection indicators within a maximum lifespan interval of 5 years.				
Dielectric Strength	44Kv Per mm				
Wire Insulation Rating	36kVAC/600VDC				

Specifications are subject to change without notice. For the most up-to-date specs, go to www.iriss.com

*Installation: Thermo Clip Series Clips are designed to be push fitted only onto the outer insulation of a cable, adjacent (15mm-30mm distance) to its connection terminal. Thermo Clip should not be inserted anywhere into the current carrying path of the circuit or directly attached to bare live metal parts of the circuit.

*Caution: Thermo Clip Series are designed for use on electrical cables and as such installation must be assessed by a competent electrician licensed to applicable local requirements prior to their application.

*Limitations:

- The Safe-Connect Series of products are not suitable for unprotected use outdoors or in direct sunlight. They are vulnerable to degradation and non-performance from prolonged exposure to ultra-violet (UV) light or high Relative Humidity.
- The Safe-Connect Series will not prevent electrical faults or fires but will aid in monitoring abnormal temperatures and will give visual indication of potential electrical faults and fire risks.
- The Safe-Connect Series do not replace the need to formally install, test, inspect and maintain electrical installations as per the Electricity at Work Act, Electrical Installations Wiring Regulations and Manufacturer's Instructions.
- This information is provided solely for consideration, investigation and verification by the user. The Safe-Connect Series of products are made to the highest standard however they are not suitable for all environmental applications. The customer must ensure that they are suitable for use in their application.



Maintenance Solution of The Year



Innovative Product of The Year



Life Safety & Security Award