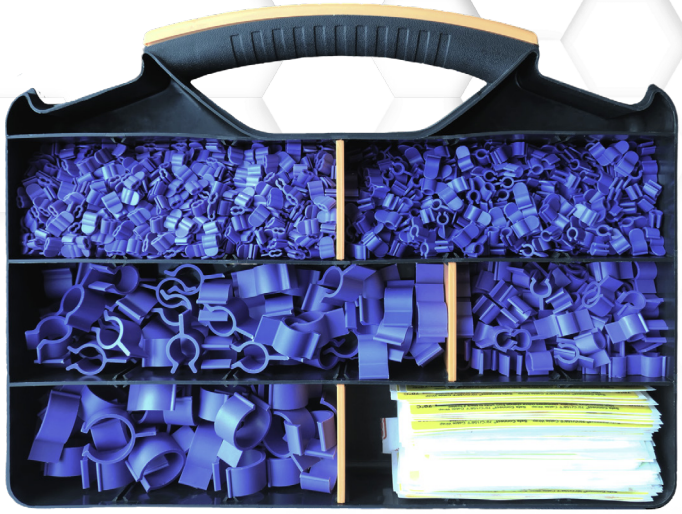
IRISS Safe-Connect TSK-1 Service Kit

Overtemperature Indicator Clips and Labels

Overview

The TSK-1 Safe-Connect™ Service Kit has been designed for the on-the-go Service Professional where portability and functionality is of the utmost importance helping you deliver to multiple sites without having to replenish your product stock. Included in the kit are the full range of IRISS Safe-Connect products. From mechanical assets to electrical assets such as switchgear, cables, and busbars, these overtemperature indicators provide visible warnings of an overtemperature event.



Kit Contains: 1000x H1 Clips, 500x H2 Clips, 100x H3 Clips, 50x H4 Clips, 25x H5 Clips, 20x TW70 Wraps, 20x TW90 Wraps, 20x Thermo-TA Labels, 20x Thermo-T-MAX Labels, 20x TSBB Labels, 20x TS52 Labels, 1x TP70-W/R-.5 Paint

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				

Model	TW70	TW90	Thermo-TA	Thermo-T-MAX	TSBB	TS52
General Specifications						
Adhesive Type	Acrylic					
Carrier	Polyester					
Covering Film	Polyester					
Response Time	2 to 5 seconds					
Color Change Material	Non-toxic, white crystalline solid on a black absorbent backing				Non-toxic, white crystalline solid on a red absorbent backing	
Activation Temperature	70˚C / 158˚F	90˚C / 194˚F	50˚C / 122˚F	50˚C / 122˚F	52˚C / 126˚F	52˚C / 126˚F
Tolerance	Approx +/- 1°C					
Storage	Store at room temperature & humidity (i.e. 16°C to 27°C & 40% to 60% RH)					
Service Life	5 years				3 years	
Dimensions	18mm x 115 mm (0.71" x 4.53")	18mm x 115 mm (0.71" x 4.53")	55.5mm x 21.3mm (2.2" x 0.84")	55.5mm x 21.3mm (2.2" x 0.84")	100 mm x 45 mm (3.94 " x 1.77 ")	Ø 17mm (0.67")

Model	TP70-W/R-.5
General Specifications	
Container Size	0.5 fl oz
Container Type	Bottle
Base Materials	Silicone free water based acrylic with organic pigments
Permanent Color Change Temperature	Approx 70°C – will show 50% full color strength at 70°C
Permanent Color Change Color	Red
Tolerance	Approx +/- 1°C, Heavier coatings will appear to show color earlier than thinner ones
Response Time	5 to 20 Seconds at temperature of 70°C, approx 1 minute for full color change
Storage	Store at room temperature & humidity not in excess of 25°C / 77°F, or cool but avoid freezing.
Product Lifespan	12 months unopened