

CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 60669-1:2017	24.1	PDSH 2165	2020
Category			
INST			
Subject	Keywords	Developed by	To be approved
Glow-wire test on parts of insulating material	Insulating material Glow-wire test	ETF 4	2021 CTL Plenary Meeting

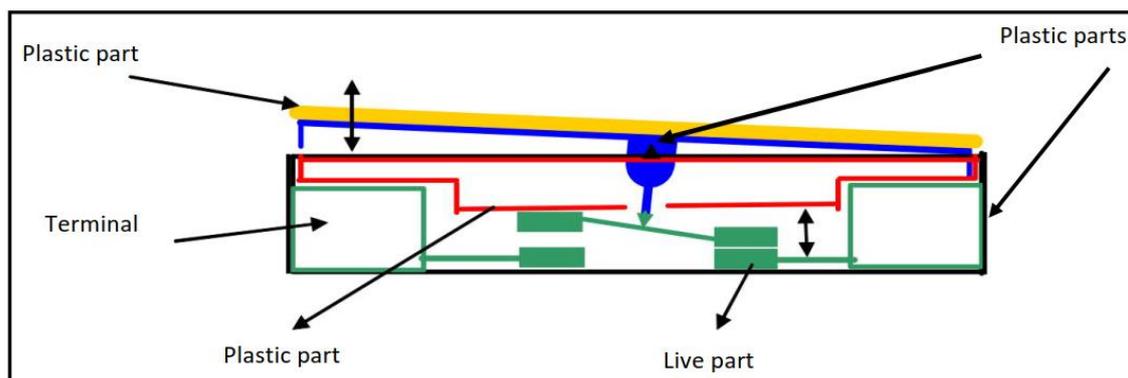
Question

According to IEC 60669:2017, clause 24.1 for parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, a glow-wire test at 850 °C is required.

For parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though they are in contact with them, a glow-wire test at 650 °C is required.

In case of doubt, to determine whether an insulating material is necessary to retain current-carrying parts and parts of the earthing circuit in position, the device is examined without conductors while held in positions most likely to cause displacement of the current-carrying parts or parts of the earthing circuit with the insulating material in question removed.

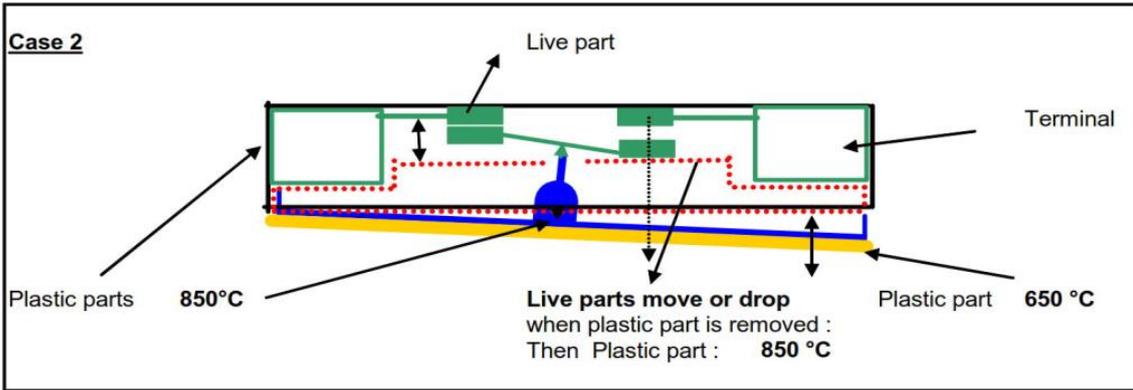
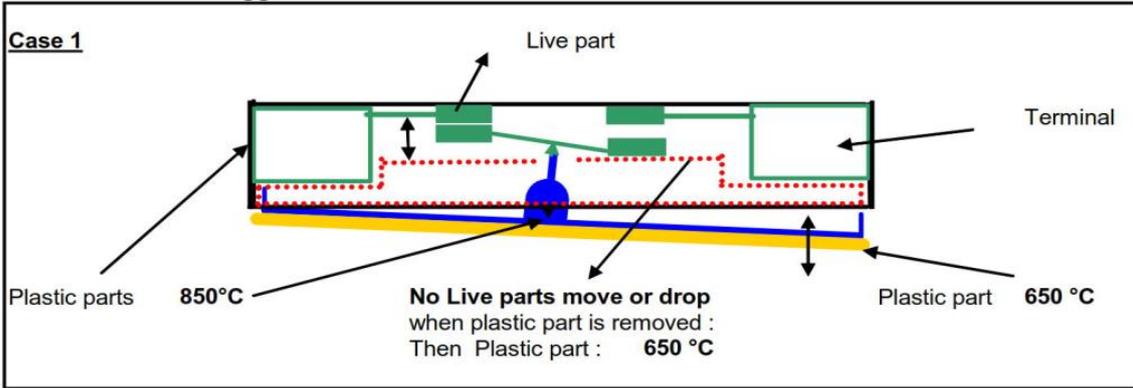
This figure shows a typical construction of an installation switch with different parts of insulating material:



Which parts of insulating material have to be subjected to the glow-wire test at a temperature of 850 °C and which parts of insulating material have to be subjected to the glow-wire test at a temperature of 650 °C ?

Decision

The different parts of insulating material shall be subjected to the glow-wire test at the temperature values as stated in the following figures:



Explanatory notes

This topic was subject of OSM Decision OSM/IN 209 and the decision was made in accordance with the above given proposal to this CTL Enquiry.