During DPA investigations on PHL50 relays at Tesat it was found that materials have been used which are not compliant to the requirements of the ESCC specifications.

ESCC3602/014, ESCC23500:

- The main terminals shall be made of silver (type 'O'), but they have a copper core with FeNi.

- The terminals of the auxiliary contacts shall be made of a copper core and FeNi alloy 52 plus a Tin-Lead finish (type 'H' with type '3' finish), but they are of FeNi without copper core.

It was found that the materials of the relays delivered to Tesat are correct but the definition of the materials in Para. 4.4.2 of the detail specification ESCC3602/014 can be misunderstood. In Para. 4.4.2 the materials of the contacts are defined, but they are called terminal material (... for main contacts the terminal material shall be Type "O" ...).

The main contacts are of type "O" (pure silver) but not the terminals. The word "terminal" has to be removed in Para. 4.4.2.

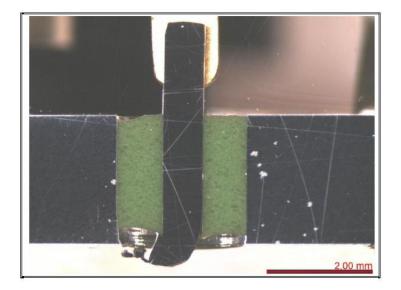


Figure:	23
S/N:	6
Magnification:	See scale bar
Comments:	
View onto the cr	oss sectioned
FeNi hook termin	nal.
According to spe	cification
ESCC3602/014 fc	or the hook
terminals a copp	er core under the
	Contraction in the second s
FeNi finish was e	expected.
FeNi finish was e The materials we	
	ere checked with

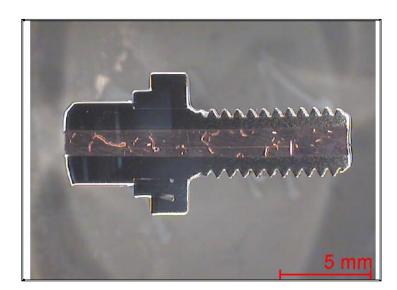


Figure:	24
S/N:	6
Magnification:	See scale bar
Comments:	
Cross section of t	the main contact
terminal.	
A copper core an	id a FeNi finish
are visible.	
	cification
According to spe	
According to spe ESCC3602/014 fc	or main contacts
are visible. According to spe ESCC3602/014 fc the terminal mat silver.	or main contacts
According to spe ESCC3602/014 fc the terminal mat	or main contacts terial should be