



EVERY  
CONNECTION  
COUNTS

## **RoHS 2 TECHNICAL FILE**

***PN: 2217482-1, -2, -3, -4, & -5***

*TE Form : 5350  
24-January-2013*

2217482\_TEFT\_2  
REV. A

•This technical file contains following sections :

### 1. PRODUCT IDENTIFICATION

- description
- list of components
- list of suppliers
- applicable EEE category
- applicable exemptions
- picture (optional)

### 2. RISK ASSESSMENT

- risk assessment methodology
- material risk
- supplier risk
- part noncompliance risk
- recommended level of technical documentation

### 3. EVALUATION

- evaluation of documentation
- evaluation criteria
- compliancy confirmation

### 4. REFERENCES

- International Standards
- EU documents
- TE Connectivity documents

### 5. OVERVIEW TABLE

## 1. PRODUCT IDENTIFICATION

### DESCRIPTION

product group	<b>Powered Tools</b>
type	<b>Battery Tools</b>
serial number	<b>Not Applicable</b>
batch	<b>Not Applicable</b>
part number(s)	<b>2217482-1, -2, -3, -4, &amp; -5</b>
part description	<b>Certi-Crimp II Head BTLI Battery Crimp Tool Kits</b>

### LIST OF COMPONENTS

All components are listed in the overview table of this technical file.

### LIST OF SUPPLIERS

All suppliers are listed in the overview table of this technical file.

### APPLICABLE EEE CATEGORY

6. Electrical and Electronic Equipment

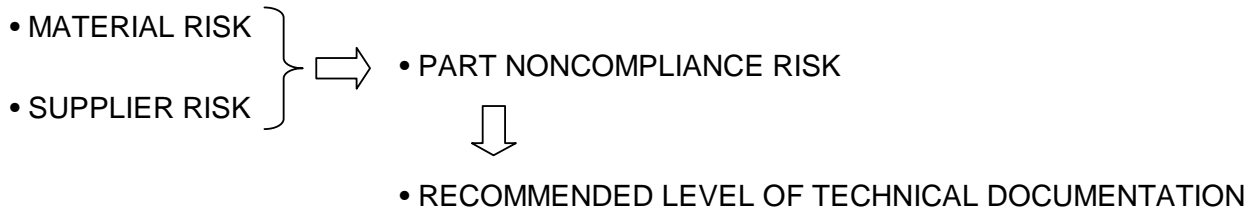
### APPLICABLE EXEMPTIONS (if any)

### PICTURE (optional)



## 2. RISK ASSESSMENT

### RISK ASSESSMENT METHODOLOGY



### MATERIAL RISK

- All TE Connectivity parts are categorized in commodity codes. All these commodity codes were evaluated by an internal material expert team and assigned a LOW-MEDIUM-HIGH material risk.
- This LOW-MEDIUM-HIGH material risk evaluation is documented in the overview table of this technical file.
- Business Units (BU) have the opportunity to override this default material risk, based on :
  - BU specific implementation of TE's corporate compliance validation specification TEC-138-703
  - or BU specific compliance procedures
  - or detailed material knowledge of the evaluated component.
- Requirements for BU override of material risk :
  - although BU specific assessment procedures and scoring systems may differ, in the end all scores are to be transferred to a LOW-MEDIUM-HIGH material risk evaluation that can be documented in the overview table
  - any material risk override needs to be explained by a comment in the overview table.

## SUPPLIER RISK

- All TE Connectivity suppliers are assigned a LOW-MEDIUM-HIGH supplier risk, using several measurement criteria as indicators for supplier's capabilities to manage hazardous substance content of their products.
- This LOW-MEDIUM-HIGH supplier risk evaluation is documented in the overview table of this technical file.
- Business Units (BU) have the opportunity to override this default supplier risk, based on :
  - BU specific implementation of TE's corporate compliance validation specification TEC-138-703
  - or BU specific compliance procedures
  - or available supplier audit results
- Requirements for BU override of supplier risk :
  - although BU specific assessment procedures and scoring systems may differ, in the end all scores are to be transferred to a LOW-MEDIUM-HIGH supplier risk evaluation that can be documented in the overview table
  - any supplier risk override needs to be explained by a comment in the overview table.

## PART NONCOMPLIANCE RISK

- The PART NONCOMPLIANCE RISK combines the material risk evaluation and the supplier risk evaluation into an overall LOW-MEDIUM-HIGH part noncompliance risk ranking.
- The material risk is the main driving factor for the PART NONCOMPLIANCE RISK, with a beneficial influence for trustworthy suppliers.

PART NONCOMPLIANCE RISK		SUPPLIER RISK		
		LOW	MEDIUM	HIGH
MATERIAL RISK	LOW	⇒ LOW	⇒ LOW	⇒ LOW
	MEDIUM	⇒ LOW	⇒ MEDIUM	⇒ MEDIUM
	HIGH	⇒ LOW	⇒ MEDIUM	⇒ HIGH



### **3. EVALUATION**

#### **EVALUATION OF DOCUMENTATION**

- All technical documentation needs to be evaluated whether :
  - the document is of sufficient quality to be used, and
  - actually confirms the required compliancy with the substance restrictions of RoHS2.

#### **EVALUATION CRITERIA**

- Following is a non-exhaustive list of criteria to take into account for the evaluation of supplier answers and/or test reports :
  - clear identification of supplier or test lab / letterhead
  - date of answer/test report
  - location of test lab and name of tester
  - clear product identification
  - applicable legislation stated
  - analytical test method used for the test
  - ISO 17025 certification of test lab
  - description of the conclusion of the testing / confirmation that all results do meet the substance restrictions limits
  - no unacceptable waiver statements
  - contact for further information
  - signature

#### **COMPLIANCY CONFIRMATION**

- For each component, the result of this compliancy check is documented, by including the following information in the overview table :
  - result of the quality/compliance check (Compliant or Not OK)
  - name of the evaluator who performed the quality/compliancy check
  - date of the quality/compliancy check

## 4. REFERENCES

### International Standards

- ISO 9001 Quality Management Systems - Requirements
- IECQ QC080000 Electrical and Electronic Components and Products Hazardous Substance Process Management System Requirements

### EU documents

- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment
- EN 50581 (2012) : Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

### TE Connectivity documents

- TE Quality Policy (TEC-11-01)
- TE Product Environmental Compliance Policy ( TEC-16-01)
- TE Global Quality Management System (TEC-1000)
- TE Product Environmental Compliance Processes flowchart
- TE Product Compliance Validation Specification (TEC-138-703)



**5. OVERVIEW TABLE**

Quality / Compliance Check

Accepted

Evaluation by:

Richard Schaeffer

Date:

22-Aug-13

Assy PN	Part Description	ROHS Code	Material Risk	Supplier Risk	Part Risk	Min Recommended Documentation
<b>2217482-1</b>	<b>CERTI-CRIMP II HEAD BTLI KIT</b>	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	TE Self Declared
Component	CE DECLARATION, BATTERY TOOL	U - NOT IN SCOPE FOR EU ROHS/ELV COMPLIANCE	LOW	LOW	LOW	TE Self Declared
Component	POWER UNIT W/O HEAD BTLI KIT	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	Label, EPUP 25 years	U - NOT IN SCOPE FOR EU ROHS/ELV COMPLIANCE	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	BATTERY CHARGER	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	BATTERY	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	PLATE, IDENTIFICATION	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	CUSTOMER MANUAL	U - NOT IN SCOPE FOR EU ROHS/ELV COMPLIANCE	LOW	LOW	LOW	TE Self Declared
Component	SDE HEAD ADAPTER ASSEMBLY	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	TE Self Declared
Component	COMPRESSION SPRING, RETURN	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	RAM CAP, PRE-CLAMP	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	SCREW, CAP, SOCKET HEAD	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Material Declaration or Test Report
Component	SPRING, COMPRESSION	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	Generic Supplier Compliance Response
Component	PIN, QUICK	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	TE Self Declared
Component	PIN, QUICK	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	TE Self Declared
Component	TOOL HOLDER, SDE	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	TE Self Declared
Component	SHOULDER BOLT, RAM	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	TE Self Declared
Component	RAM, SDE HEAD	R - ALWAYS EU ROHS/ELV COMPLIANT	LOW	LOW	LOW	TE Self Declared