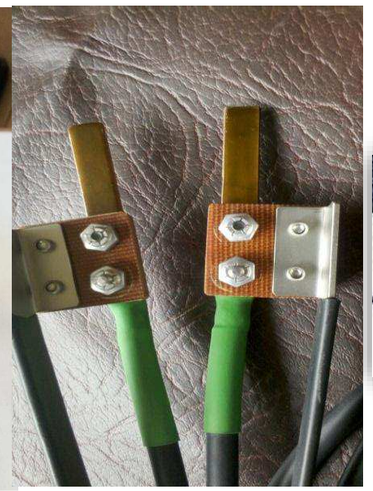
RoHS 2 TECHNICAL FILE AD-5020-TINEL-HAND-TOOL

PCN:EG1245-000



CONTENT

•This technical file contains following sections :

1. PRODUCT IDENTIFICATION
    - description
    - picture (optional)
    - list of components
    - list of suppliers
    - applicable EEE category
    - applicable exemptions

2. RISK ASSESSMENT
    - approach
    - material risk
    - supplier risk
    - part incompliance risk index (PIR-index)
    - required level of technical documentation

3. EVALUATION OF DOCUMENTATION
    - principle
    - evaluation criteria

4. REFERENCES

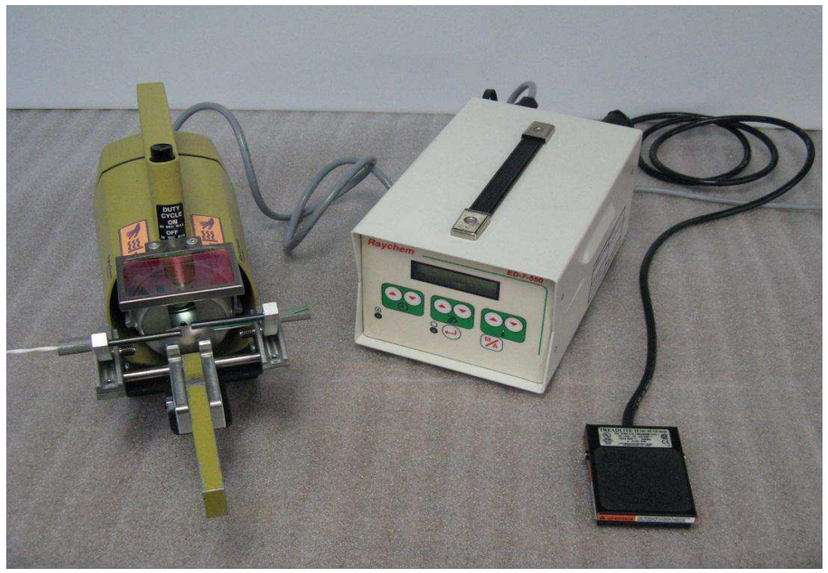
5. OVERVIEW TABLE

PRODUCT IDENTIFICATION

DESCRIPTION

product group	:	GPL 729
type	:	
IR-550/ED-7-KIT		
serial number	:	-
batch	:	-
part number(s)	:	

PICTURE (optional)



• Select/add/delete whatever descriptive categories are useful to describe the product(s) covered by this technical file.
• Make sure that identification info matches with the identification info provided on the Declaration of Conformity.

LIST OF COMPONENTS

All components are listed in the overview table.

LIST OF SUPPLIERS

All suppliers are listed in the overview table.

APPLICABLE EEE CATEGORY

6.electrical and electronic tools
• list applicable EEE category the product belongs to (see Annex 1 of Directive 2011/65/EU)

APPLICABLE EXEMPTIONS (if any)

• list applicable exempted substance applications
None

RISK ASSESSMENT

GENERAL APPROACH

• TE Connectivity considers following levels of technical documentation, ranked by effectiveness :

1. internal or third party test reports
2. full material declarations (FMD)
3. part specific statements of compliance (SoC)
4. generic statements of compliance — *not used by TE*
5. generic contractual agreements — *not used by TE*

• TE Connectivity is never relying on generic contractual agreements or generic statements of compliance to fulfill technical documentation requirements.

• The necessity of a detailed risk assessment will be based on the availability of test data :
- if TE already has test data available : no need for a detailed risk assessment; the test data, being the highest possible level of documentation, will be used by default.
- if TE has no test data availabe : a detailed risk assessment, as described below, will determine the required technical documentation.

DETAILED RISK ASSESSMENT METHODOLOGY

• MATERIAL RISK + SUPPLIER RISK ⇨ PART INCOMPLIANCE RISK ⇨ REQUIRED TECHNICAL DOCUMENTATION

• The different building blocks of this methodology are explained below.

RISK ASSESSMENT (continued)

MATERIAL RISK

- Following TE's corporate compliance validation specification TEC-138-703 or Business Unit specific compliance specifications, TE Business Units evaluate their material risk.

- Although assessment procedures and scoring systems may differ between BU's, in the end all scores are to be transferred to a low - medium - high material risk evaluation.

- This material risk evaluation for every part is documented in the overview table.

SUPPLIER RISK

- Following TE's corporate compliance validation specification TEC-138-703 or Business Unit specific quality, supplier auditing or compliance specifications, TE Business Units assess their supply chain and evaluate their suppliers.

- Although assessment procedures and scoring systems may differ between BU's, in the end all scores are to be transferred to a low - medium - high supplier compliance risk evaluation.

- This supplier compliance risk evaluation for every supplier is documented in the overview table.

RISK ASSESSMENT (continued)

PART INCOMPLIANCE RISK index (PIR-index)

- The PIR-index combines the material risk evaluation and the supplier risk evaluation into an overall low-medium-high part incompliance risk ranking.

- The material risk is the main driving factor for the PIR-index, with a beneficial influence for thrustworthy suppliers.

PIR-index			SUPPLIER COMPLIANCE RISK EVALUATION		
			LOW	MEDIUM	HIGH
MATERIAL RISK EVALUATION	LOW	⇨	LOW	LOW	LOW
	MEDIUM	⇨	LOW	MEDIUM	MEDIUM
	HIGH	⇨	LOW	MEDIUM	HIGH

- The PIR-index for every part/supplier-combination is documented in the overview table.

RISK ASSESSMENT (continued)

REQUIRED LEVEL OF TECHNICAL DOCUMENTATION

• Different levels of technical documentation, ranked by effectiveness, are :

1. internal or third party test reports
2. full material declarations (FMD)
3. part specific statements of compliance (SoC)
4. generic statements of compliance — *not used by TE*
5. generic contractual agreements — *not used by TE*

• TE Connectivity is never relying on generic contractual agreements or generic statements of compliance.

• The PIR-index (material risk X supplier risk) determines the required level of technical documents for documenting the part's compliance with the RoHS substance restrictions.

required MINIMUM level of technical documentation			SUPPLIER RISK		
			LOW	MEDIUM	HIGH
MATERIAL RISK	LOW	⇨	supplier SoC	supplier SoC	supplier SoC
	MEDIUM	⇨	supplier SoC	supplier FMD or supplier test report	supplier FMD or supplier test report
	HIGH	⇨	supplier SoC	supplier FMD or supplier test report	internal *or* 3rd party test report

• The required technical documentation for every part is documented in the overview table.

EVALUATION OF DOCUMENTATION

PRINCIPLE

- All technical documentation needs to be evaluated wether the document is of sufficient quality to be included and can be used to confirm that the component meets the substance restrictions of RoHS2.

- The evaluation is documented in the overview table.

EVALUATION CRITERIA

CE Certificate/RoHs

SEF sign off

PCB Circuit

REFERENCES

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 corporate compliance documents

- TEC-138-703 : Product Compliance Validation Specification

IDENTIFICATION			TEST RESULTS AVAILABLE ?	RISK ASSESSMENT (RA)				EVALUATION OF DOCUMENTATION
MATERIALS		SUPPLIERS	yes = no RA(*)	material	supplier	CONCLUSION		quality check OK ?
TE part number	part description	supplier name	no = RA needed	risk	risk	PIR-index	required technical document	yes/no
EG1245-000	AD-5020-TINEL-HAND-TOOL	SEF						

CE Certificate/RoHs

SEF sign off

PCB Circuit

CE DECLARATION OF CONFORMITY

NAME OF MANUFACTURER OR SUPPLIER

TE Connectivity

FULL POSTAL ADDRESS INCLUDING COUNTRY OF ORIGIN

Tyco Electronics U.K. Ltd
Faraday Rd,
Dorcan, Swindon,
Wiltshire,SN3 5HH, U.K

DESCRIPTION OF PRODUCT
Machine for installing resistance heat shrinkable Tinel rings

NAME: MODEL.
AD-5020-TINEL INSTALLATION TOOL **Product: TE-PCN:** ***EG1245-000***
STANDARDS USED, INCLUDING NUMBER, TITLE, ISSUE DATE
AND OTHER RELATIVE DOCUMENTS
The Electrical Equipment (Safety) Regulations report ref: *R007_03778a Date :16.9.2014*
EN 60335 - 1: 1995,EN60335-1:1996, 2002+A2 /2011 EN 60204-1:2006/2009
EN 60742-1:1995EN 292-2/A1
STANDARD DATE DESIGNATION EMC. Report ref *CEM 14031 ed. A Date :13-10-2014*
EN 55011 2009/11 Industrial, scientific and medical (ISM) radio-frequency equipment radio disturbance characteristics Limits and methods of measurement
EN 61000-4-2 2009/03 Electrostatic discharge
EN 61000-4-3
EN 61000-4-3/A1
EN 61000-4-3/A2
2006/05,2008/02,2010/07
Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4,EN 61000-4-4/A1,2004/12,2010/03
Electrical fast transient/burst immunity test
EN 61000-4-5 2006/11 Surge immunity test
EN 61000-4-6 2009/03 Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8 2010/02 Power frequency magnetic field immunity test

2011/65/EU (RoHS Directive)
PLACE / DATE OF ISSUE: ***Swindon Wiltshire Date: OCT 2014***
NAME OF AUTHORISED REPRESENTATIVE (PLEASE PRINT)

Mark Taylor

POSITION OF AUTHORISED REPRESENTATIVE

EPS Systems Group Product Manager for A/E

Country of origin. As postal address

Declaration
I declare that as the authorised representative, the above information in relation to the supply/manufacture of this product is in conformity with the stated standards and other related documents following the provisions of the Low Voltage Directive **73/23/EEC /2006/95/EC**

Product	Pack QTY	TE DESCRIPTION	Drawing	Package	RoHS Compliant sign off SEF sign off
Application Equipment	1	AD-5020-TINEL-HAND-TOOL EG1245-000			Douglas Nunn Project Manager 31 October 2014