



EVERY  
CONNECTION  
COUNTS

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## RoHS 2 TECHNICAL FILE IR1759-MK5-AT3130-EDCont

PCN:CV3948-000



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•This technical file contains following sections :

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## PRODUCT IDENTIFICATION

### DESCRIPTION

product group : GPL 729  
type : Mini ray system  
Miniray IR-1759-Mk4/A & IR-3104-Mk4/A Hand tools  
ED-7-001/002, ED-7-Cont-230/110V &  
ED-7-Batterybox-230/110V Control Units

serial number : -

batch : -  
part number(s) :

Handtool/Reflector/Control Box (1)	IR1759-MK4-AT3130-EDCont	CF0024-000
Handtool, standard aperture (2)	IR-1759-MK4/A	CF0025-000
Handtool, large aperture (2)	IR-3104-MK4/A	CF5497-000
Control Box with time control-230 V (3)	ED-7-001-MK4-230V-50HZ	CF0199-000
Control Box with time control-110 V (3)	ED-7-002-MK4-110V-60HZ	CF0201-000
Control Box manual control 110/230 (4)	ED-7-CONT-230/110V-MK4	CF0026-000
Battery Box	ED-7-BATTBOX-MK4-230/110V	CF0200-000

### PICTURE (optional)



### 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*

## 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 available : 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 trustworthy 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 whether 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

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

Name of the manufacture, Product manager and address that supplies tools and spares for TE to badge and re-sale.

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## 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



## CE DECLARATION OF CONFORMITY

### NAME OF MANUFACTURER OR SUPPLIER



### FULL POSTAL ADDRESS INCLUDING COUNTRY OF ORIGIN

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

### DESCRIPTION OF PRODUCT

Infra-red heating tool for installing heat shrinkable products and solder sleeves.

### NAME, TYPE OR MODEL

MiniRay family: Heating tools

Mini-ray Tool IR1759-MK5-AT3130-EDCont PCN.CV3948-000

### STANDARDS USED, INCLUDING NUMBER, TITLE, ISSUE DATE AND OTHER RELATIVE DOCUMENTS

The Electrical Equipment (Safety) Regulations  
EN 60335 - 1: 1995, EN60335-1:1996, 2002+A2 /2011 EN 60204-1:2006/2009  
EN 60742-1:1995 EN 292-2/A1 : 1 BS EN ISO 12100:2010/995 EN 294: 1992

#### EMC compliance:

Report Nos. SRP/5/0146-1B, AERAY/AVT/003, AERAY/AVT/004, BSi 228/4146642  
89/336/EEC EMC Directive. Reassessed to 2004/108/EC made up of (EN50081-1  
1992 Emissions) EN 610000-6-2/6-3 /4-2/4-3/4-4/4-5/4-6/4-11:1999 /2005/2007. DD  
ENV 50204:1996

#### 2011/65/EU (RoHS Directive UL Conformity):

UL 499 Standard for Safety for electrical Heating Devices. 30JO  
These requirements cover heating appliances rated at 600 V or less for use in unclassified  
locations in accordance with the National Electrical Code (NEC), ANSI/NFPA 70.

### PLACE / DATE OF ISSUE

Swindon Wiltshire Jan 2014

### NAME OF AUTHORISED REPRESENTATIVE (PLEASE PRINT)

Mark Taylor

### POSITION OF AUTHORISED REPRESENTATIVE

EPS Systems Group Product Manager for A/E

### FULL POSTAL ADDRESS IF DIFFERENT FROM MANUFACTURERS

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  
Authorised Representative

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Product	Pack QTY	TE DESCRIPTION	Drawing Package	RoHS Compliant sign off SEF sign off
Application Equipment		1 IR1759-MK5-AT3130-EDCont CV3948-000		Doublet Marc Manager projet. 31 october 2014 

