



EVERY
CONNECTION
COUNTS

RoHS 2 TECHNICAL FILE

AA-400-32-Mk3 (110V) 582602-000

AA-400-200-CE-SUPERHTR (230V) CE 281917-000





AA-400 Super Heater Compressed-Air Heating Tool

Used for installing heat-shrinkable tubing in multiple applications.

Excellent for Installing:

- ***Heat-shrinkable tubing in multiple applications and confined spaces.***
- ***Installing small Solder-Sleeves ,Devices (wire-to-pin applications) and Solder-Tacts contacts.***

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

PICTURE

product group : GPL 729

AA-400-32-Mk3 (120V) 582602-000 AA-400-200-CE-SUPERHTR (230V) CE 281917-000

-

-

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)

None





≡ (optional)



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

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	
MATERIALS	
TE part number	part description
Model	Voltage versions AC
*AA-400 Super Heater with stand, needlepoint tip, Mini Solder-Sleeve reflector, and input air filter	120
	240 CE.

***Indicates parts that come with the Super Heater**

Accessories and Replacement Parts*	Description
Solder-Sleeve reflector	AA-400-94-SLD-SLV-TIP-KIT
*Needlepoint tip	AA-400-96
Boot and tubing tip	AA-400-101
*Mini Solder-Sleeve reflector	AA-400-102
Low-flow tip	AA-400-103
Heating Element replacement kit, 120 V	AA-400-128
Heating Element replacement kit, 240 V (CE)	AA-400-228-EL-KT-240V-CE
*Stand	AA-400-09
*Input air filter	AA-400-P-Y-92-Filter
Air hose replacement kit	AA-400-136
Gun and air hose replacement kit	AA-400-229-Gun-Hse-Kit
Regulator and Gauge replacement kit	AA-400-89-REG&GAE-KIT

CE Certificate and RoHS 2011



		TEST RESULTS AVAILABLE ?	
SUPPLIERS		yes = no RA(*)	material risk
supplier name		no = RA needed	
Description	Part No.	NO	HIGH
AA-400-32-Mk3 (110V)	582602-000	NO	HIGH
AA-400-200-CE-SUPERHTR	281917-000	NO	HIGH
Part No.	NSN Stock No.		
979646-000	4940-00-609-4993		
979647-000	4940-00-148-9847		
979691-000	4940-00-148-9848		
979663-000	4940-01-043-7634		
979672-000	3439-01-173-8810		
013750-000			
444179-000			
979649-000			
979673-000			
156553-000			
238231-000			
979951-000			

--

--

--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

RISK ASSESSMENT (RA)

supplier risk	CONCLUSION	
	PIR-index	required technical document
LOW	LOW	supplier FMD
LOW	LOW	supplier FMD
LOW	LOW	supplier FMD

EVALUATION OF DOCUMENTATION

quality check OK ? yes/no
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES
YES

YES
YES
YES

YES
YES
YES
YES
YES
YES

--	--	--

YES

YES
YES
YES
YES
YES
YES

YES
YES
YES
YES
YES
YES
YES

--	--	--

YES

YES
YES
YES
YES

YES
YES
YES
YES
YES

YES
YES
YES
YES

YES
YES
YES
YES

