

		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1
		Component Title: Connectors Electrical for Printed Circuit Boards Non-Removable Solder and Wire-Wrap Contacts and Connector Savers, based on type KMC Executive Member: CNES Date: 14/11/2024			Appl. No. 149QRev1
Components (including series and families) submitted for Extension of Qualification Approval:					1
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
PARTS USED FOR THE RECONDUCTION – parts manufactured at SHYI and tested at SHYF					
3401 039	01	Plug KMC026 – straight solder contact –		340103901B0265710 110	KMC0265710110
		Receptacle KMC xxxx		340103901Bxx	
DESCRIPTION OF THE KN PRODUCT					
3401 039	01	3 rows contacts: 26, 44, 62, 80, 98, 144	KN		
		Guiding and Locking Devices Codes: 110, 121, 143, 201, 202, 204, 206, 703			
		Contact Codes: 10, 30, 31, 40, 50, 51 and 91			
		Contact Ratings: 2 A (1 contact)			
		Operating Temperature Range (°C): -55 to +125			
Component Manufacturer Smiths interconnect		Location of Manufacturing Plant(s) 31 rue Isidore Maille 76410 Saint-Aubin les Elbeuf		Date of original qualification approval: Date: 15/03/1987 Certificate Ref No. 149	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3401 Issue: 5 Detail(s): 3401039 Issue: 6		Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		Qualification Extension Report reference and date: PV n°335800 ,21/06/2024	
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)					
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
See appendix					
PID changes since start of qualification None <input type="checkbox"/> Minor* <input type="checkbox"/> Major* <input checked="" type="checkbox"/> *Provide details in box: 19			Current PID Verified by: <u>F. Nouals, CNES</u> Name of Executive Representative Ref No: P.I.D CDC N° 43 Issue: W Date: 04/10/2024 Rev Date: 4/10/2024		
Current Manufacturing facilities surveyed by: <u>F.Nouals, CNES</u> on 27/11/2023 (Name of Executive Representative) (Date)					

Satisfactory: Yes No Explain

Report Reference: 1040193_____



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Connectors Electrical for Printed Circuit Boards Non-Removable Solder and Wire-Wrap Contacts and Connector Savers, based on type KMC

Executive Member: CNES

Date: 14/11/2024

Page 3

Appl. No.

149QRev1

Non compliance to ESCC requirements:

15

No.:	Specification	Paragraph	Non compliance

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

16

Executive Manager Disposition

17

Application Approval: Yes No

Action / Remarks:

Date:

B. Schade: Head of the Quality Department



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Page 2

Component title: Connectors Electrical for Printed Circuit Boards Non-Removable Solder and Wire-Wrap Contacts and Connector Savers, based on type KMC

Appl. No.

Executive Member: CNES

Date: 14/11/2024

149QRev1

12

Failure Analysis, DPA, NCCS available: Yes No (Supply data)

Ref. No's and purposes:

13

The undersigned hereby certifies on behalf of the ESCC Executive - that the above information is correct; - that the appropriate documentation has been evaluated; - that full compliance to all ESCC requirements is evidence (except as stated in box 15;) - that the reports and data are available at the ESCC Executive and therefore applies on behalf of CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 18/11/2024

L. FONTAINE, CNES

(Signature of the Executive Coordinator)

Signature numérique de Fontaine Lya-Cnes
Date: 2024.11.18
14:42:28 +01'00'

14

Continuation of Boxes above:



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: Connectors Electrical for Printed Circuit Boards Non-Removable Solder and Wire-Wrap Contacts and Connector Savers, based on type KMC

Executive Member: CNES

Date: 14/11/2024

Page 4

Appl. No.

149QRev1

ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

18

Tests conducted in compliance with:

- ESCC 3401 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

TABLEAU RECAPITULATIF DES DIFFERENTS CAS A QUALIFIER				
Diamètre contact à étamer	Spatial plomb	Standard plomb	Spatial sans-plomb	Standard sans-plomb
0,4	MHD0265742 FKE67332 PV N°335829	KNB0532647902 FKE67328 PV N°335829	MDD0501D4A FKE66759 PV N°335829	MHD0501B10001 FKE57963 PV N°: 335800
0,5	KMC0265710110 FKE57969 PV N°: 335800			KMC0441D11110 FKE67174 PV N°335829
0,6		HDC016AMB00004 FKE57975 PV N°: 335800 HOB-1677 FKE57965 PV N°: 335800 HPF062AMBC802X FKE57967 PV N°: 335800		
1				KCA0101D10 FKE57972 PV N°: 335800
1,5				REP4062B1000 FKE67199 PV N°335829

All the male and female contact have a same kind of plating

So the test done for 1 kind of termination covers all the variants

See test report document N° 335800

NORMALISATION ET ESSAIS – Fiche d'essai



N° du rapport : 335800_revB

Date du rapport : 21/06/2024

IM87178 C

Smiths Interconnect Proprietary Information - For Exclusive Use of the Addressed Party Only - It should not be re-used or transmitted without the prior written approval of Smiths Interconnect.

Italique souligné = champs obligatoires par le demandeur

Service Demandeur : Méthodes	Réf. – Désignation produit : MHD0501B10001, KCA0101D10, HDC016AMB00004, KMC0265710110, HPF062AMBC802X HOB-1677	Date de la demande : 19/06/2023
Nom du demandeur : Sébastien Viard	Plan : <i>indice :</i> Lot : Date code : Quantité : 1 MHD ; 1 KCA ; 1 HDC ; 1 KMC ; 1 HPF ; 1 HOB	
Services Destinataires : Mesures et Essais	(Sous-Traitance) FOURNISSEUR :	CLIENT : Nom : N° de cde : N° de COC
Langue du rapport d'essai : Français	N° de Projet :	

Objet (contexte) : Nouvelle machine d'étamage

But des essais (objectif) : Vérifier la soudabilité des contacts avec le méniscomètre.

Essai(s) à réaliser par ordre Chronologique :
Répertorier les résultats en fonction du numéro gravé sur les connecteurs.

Normes / protocoles / Spécifications clients + Révision / CDC Fournisseur

Délai demandé : début S26

Conclusion :

Test conforme pour l'ensemble des échantillons.

Référence	N°OF	Type étain	Protection	Contrôle visuel	Contrôle hauteur	Mouillabilité
HDC016AMB00004	FKE57975	Plomb	Standard	Conforme	Conforme	Conforme
HPF062AMBC802X	FKE57967	Plomb	Standard	Conforme	Conforme	Conforme
KMC0265710110	FKE57969	Plomb	Spatiale	Conforme	Conforme	Conforme
MHD0501B0001	FKE57963	Sans plomb	Standard	Conforme	Conforme	Conforme
KCA0101D10	FKE57972	Sans plomb	Standard	Conforme	Conforme	Conforme
HOB-1677	FKE57965	Plomb	Standard	Conforme	Conforme	Conforme

Detail Specification reference:

3401



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Page 6

Component title: Connectors Electrical for Printed Circuit Boards Non-Removable Solder and Wire-Wrap Contacts and Connector Savers, based on type KMC

Appl. No.

Executive Member: CNES

Date: 14/11/2024

149QRev1

NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

ENTRIES

Form heading	shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.
Box 1	shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
Box 2; 3 and 4	As per QPL entry; otherwise, an explanation of the changes must be supplied.
Box 5	Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.
Box 6	Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.
Box 7	Must reference the report(s) supplied in support of the application.
Box 8	Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
Box 9	If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.
Box 10	Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.
Box 11	This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
Box 12	Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.
Box 13	Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.
Box 14	To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
Box 15	Fill in Table as requested.
Box 16	Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 17	All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
Box 18	Fill in Table as requested.
Box 19	Confidential Details of PID changes including those of a confidential nature, shall be provided.
Box 20	State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.
Box 21	Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 22	Additional Comments.