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CONNECTOR SAVERS, ELECTRICAL, RECTANGULAR, MICROMINIATURE,

BASED ON TYPE MDM

ESCC Detail Specification No. 3401/041

Issue 6 January 2019



Document Custodian: European Space Agency - see https://escies.org



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DCR No.	CHANGE DESCRIPTION
1187	Specification upissued to incorporate changes per DCR.

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1 **GENERAL**

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for Connector Savers, Electrical, Rectangular, Microminiature with Non-removable Crimp-type Contacts, based on type MDM.

It shall be read in conjunction with:

- (a) ESCC Generic Specification No. 3401, Connectors, Electrical, Non-Filtered, Circular and Rectangular.
- (b) ESCC Detail Specification No. 3401/032, Accessories for Connectors, Microminiature, 3401/029, 3401/077 and Connector Savers 3401/041.

the requirements of which are supplemented herein.

1.2 TYPE VARIANTS

Variants of the basic type connector savers specified herein, which are also covered by this specification, together with their mechanical characteristics, are given in Table 1(a).

1.3 MAXIMUM RATINGS

The maximum ratings, which shall not be exceeded at any time during use or storage, applicable to the connector savers specified herein, are scheduled in Table 1(b).

1.4 PARAMETER DERATING INFORMATION

The derating information applicable to the connector savers specified herein is shown in Figure 1.

1.5 PHYSICAL DIMENSIONS

The physical dimensions of the connector savers specified herein are shown in Figure 2.

1.6 CONTACT ARRANGEMENTS

Contact arrangements are shown in Figure 3.

2 APPLICABLE DOCUMENTS

The following documents form part of this specification and shall be read in conjunction with it:

- (a) ESCC Generic Specification No. 3401, Connectors, Electrical, Non-Filtered, Circular and Rectangular.
- (b) ESCC Detail Specification No. 3401/032, Accessories for Connectors, Microminiature, 3401/029, 3401/077 and Connector Savers 3401/041.
- (c) A-A-59551, Wire, Electrical, Copper, Uninsulated.
- (d) MIL-DTL-45204, Gold Plating, Electro-deposited.
- (e) MIL-DTL-14550, Copper Plating, Electro-deposited.
- (f) MIL-DTL-83513, Connectors, Electrical, Rectangular, Microminiature, Polarised Shell, Generic Specification for.



3 TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESCC Basic Specification No. 21300 shall apply.

TABLE 1(a) - TYPE VARIANTS

Variant	Shell Size Notes 1, 2	Max. Weight (g)	Max. Mating Force		ng Force (N)
		Note 3	(N)	Max.	Min.
01	9	4	25	25	1.3
02	15	5.5	42	42	2
03	21	7	58	58	2.9
04	25	8	70	70	3.5
05	31	9.5	86	86	4.3
06	37	10	103	103	5.1
07	51	13.5	142	142	7.1

NOTES:

- 1. Contacts are fixed in the connector saver.
- 2. Shell Size 51 is not applicable to MDMA connectors.
- 3. Connector saver with contacts and without screw-locks.

TABLE 1(b) - MAXIMUM RATINGS

No.	Characteristics	Symbol	Maximum Rating	Unit	Remarks
1	Working Voltage (Sea Level)	U _R	150	Vrms	Note 1
2	Rated Current: (uninsulated solid wire)	I _R	2.5	Α	Note 2
3	Operating Temperature Range	T _{op}	-55 to +125	°C	
4	Storage Temperature Range	T_{stg}	-55 to +125	°C	

NOTES:

- 1. Between contacts, and contact and shell.
- 2. IR requires derating if the number of current-carrying contacts in the connector saver is 2 or greater. See Figure 1(b).



FIGURE 1 - PARAMETER DERATING INFORMATION

FIGURE 1(a) - WORKING VOLTAGE VERSUS ALTITUDE

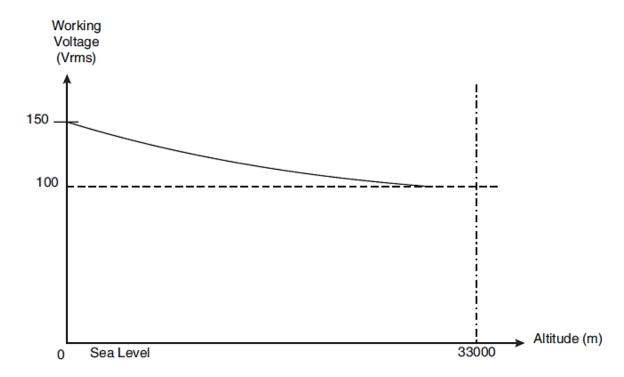


FIGURE 1(b) - MAXIMUM CURRENT VERSUS NUMBER OF CONTACTS

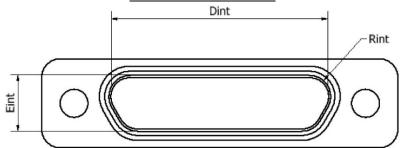
Number of Current-Carrying Contacts per Connector Saver	Maximum Current per Contact (A)
Contacts per Connector Saver	Uninsulated Solid Wire
2 - 4	2
5 - 14	1.8
15 and over	1.4

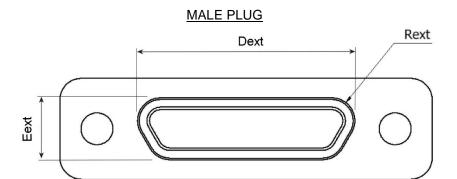


FIGURE 2 - PHYSICAL DIMENSIONS

FIGURE 2.0 – MALE AND FEMALE INTERFACE DIMENSIONS

FEMALE RECEPTACLE

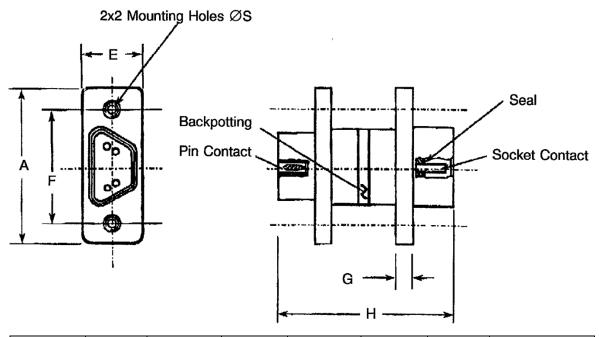




Shell Size	<u>Dint</u> Min.	Eint Min.	Rint Min.	Dext Max.	Eext Max.	Rext Max.
9	8.49	4.7	1.704	8.48	4.69	1.699
15	12.3	4.7	1.704	12.29	4.69	1.699
21	16.11	4.7	1.704	16.1	4.69	1.699
25	18.65	4.7	1.704	18.64	4.69	1.699
31	22.46	4.7	1.704	22.45	4.69	1.699
37	26.27	4.7	1.704	26.26	4.69	1.699
51	25	5.8	1.704	24.99	5.78	1.699



FIGURE 2.1 - CONNECTOR SAVER DIMENSIONS



Variant	Size	Α	Е	F	G	Н	Ç	ØS .
		Max.	Max.	Max.	Typical	Typical	Min.	Max.
01	09	19.94	7.75	14.35	2.29	22.86	2.23	2.44
02	15	23.75	7.75	18.16	2.29	22.86	2.23	2.44
03	21	27.56	7.75	21.97	2.29	22.86	2.23	2.44
04	25	30.1	7.75	24.51	2.29	22.86	2.23	2.44
05	31	33.91	7.75	28.32	2.29	22.86	2.23	2.44
06	37	37.72	7.75	32.13	2.29	22.86	2.23	2.44
07	51	36.45	7.75	30.86	2.29	22.86	2.23	2.44

NOTES:

1. All dimensions are in millimetres.

FIGURE 2.2 - CONTACT POSITION FIGURE 2.2.1 - MOUNTING CONDITION

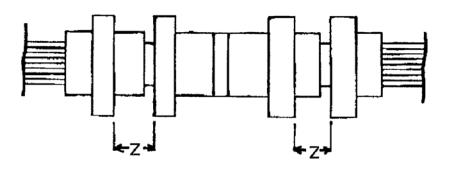




FIGURE 2.2.2 - PLUG MALE CONTACT

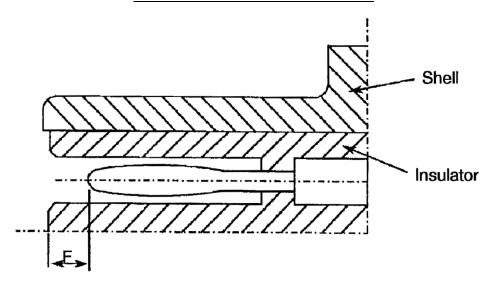
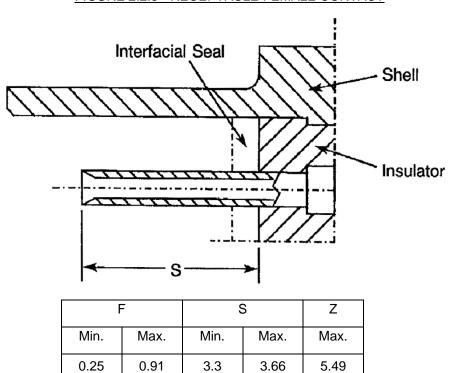


FIGURE 2.2.3 - RECEPTACLE FEMALE CONTACT



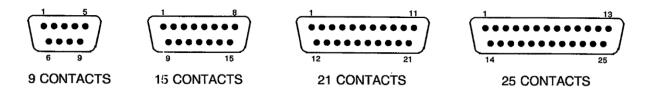
NOTES:

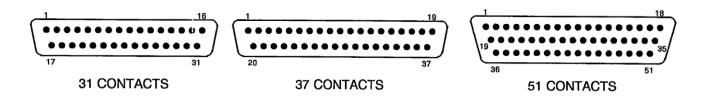
1. All dimensions are in millimetres.



FIGURE 3 - CONTACT ARRANGEMENTS

FRONT VIEW OF MALE INSERT - USE MIRROR VIEW FOR FEMALE INSERT

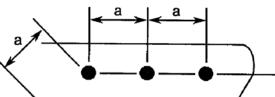


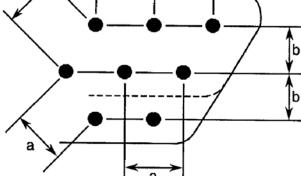


NOTES:

1. Only the outside contact cavities on each row are identified in the drawing, the remainder follow sequentially. Contact numbers are shown outside the insert for readability.

Contact Centres





NOTES:

- $\overline{1.}$ a = Distance between contact centres: 1.27mm typical.
- 2. b = Distance between rows: 1.09mm typical.



4 **REQUIREMENTS**

4.1 GENERAL

The complete requirements for procurement of the connector savers specified herein are stated in this specification and ESCC Generic Specification No. 3401. Deviations from the Generic Specification, applicable to this specification only, are listed in Para. 4.2.

Deviations from the applicable Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESCC requirements and do not affect the components' reliability, are listed in the appendices attached to this specification.

4.2 <u>DEVIATIONS FROM GENERIC SPECIFICATION</u>

4.2.1 <u>Deviations from Special In-Process Controls</u>

Para. 9.15, Joint Strength: The contacts shall be crimped to uninsulated solid wire AWG25. The value of failure shall be recorded together with the information to whether the failure was "pull-out", "break in crimp" or "break in wire'. The minimum tensile strength shall be as follows:

Wire	Male and Female Contacts
	AWG25 - Solid Uninsulated
Tensile Strength (N)	22

4.2.2 Deviations from Final Production Tests (Chart II)

- (a) Para. 9.3, Contact Retainer Test: Not applicable.
- (b) Para. 9.4, Contact Capability: This test shall be performed on the male contacts. For details see Para. 4.3.3 of this specification.
- (c) Para. 9.5, Magnetism Level: Not applicable.

4.2.3 <u>Deviations from Burn-in and Electrical Measurements (Chart III)</u>

Chart III is not applicable.

4.2.4 <u>Deviations from Qualification Tests (Chart IV)</u>

- (a) Para. 9.9, Seal Test: Not applicable.
- (b) Para. 9.15, Joint Strength: Not applicable.
- (c) Para. 9.17, Contact Retention (in insert): Not applicable with male contact.
- (d) Para. 9.27, Maintenance Ageing: Not applicable.
- (e) Para. 9.29, Oversize Pin Exclusion: Not applicable.
- (f) Para. 9.30, Probe Damage: Not applicable.

4.2.5 <u>Deviations from Lot Acceptance Tests (Chart V)</u>

- (a) Para. 9.9, Seal Test: Not applicable.
- (b) Para. 9.15, Joint Strength: Not applicable.
- (c) Para. 9.17, Contact Retention (in insert): Not applicable with male contact.
- (d) Para. 9.27, Maintenance Ageing: Not applicable.
- (e) Para. 9.29, Oversize Pin Exclusion: Not applicable.
- (f) Para. 9.30, Probe Damage: Not applicable.



4.3 MECHANICAL REQUIREMENTS

4.3.1 Dimension Check

The dimensions of the connector savers specified herein shall be verified in accordance with the requirements set out in Para. 9.6 of ESCC Generic Specification No. 3401 and shall conform to those shown in Figure 2 of this specification. Only the underlined dimensions shall be checked during procurement.

4.3.2 Weight

The maximum weight of the connector savers specified herein shall be as specified in Table 1(a).

4.3.3 Contact Capability

For the purpose of this test, the pick-up and drop weights shall be as follows.

Measurements	Pick-up Weight	Drop Weight
Weight (g)	14	170
Inner Gauge Diameter (mm) (1)	0.582 - 0.587	0.559 - 0.564
Insertion Depth (mm)	1.5	1.5

NOTES:

1. See Figure 4 for ØA.

4.3.4 Contact Retention (in Insert)

Contact retention within the insert shall be 22.25 Newtons. There shall be no displacement of the contact. Not applicable to male contacts.

4.3.5 Mating and Unmating Forces

The forces applied for the mating and unmating of the connector savers shall conform to the values specified in Table 1(a).

4.3.6 <u>Insert Retention (in Shell)</u>

Connector saver inserts shall withstand a pressure of 34.4N/cm² applied from the mating side to the rear side.

4.3.7 Jackscrew Retention

Not applicable.

4.3.8 Contact Insertion and Withdrawal Forces

Not applicable.

4.3.9 <u>Engagement and Separation Forces (Male Contacts)</u>

The contact engagement and separation forces of the male contacts shall be tested to a depth of 1.5mm with the applicable test gauge fixtures specified in Figure 4 of this specification, and shall not exceed the values of the table hereunder.

Measurements	Inner Diameter (mm)		•	0 0
	Min.	Max.	Min. (N)	Max. (N)
Minimum Diameter Test Sleeve	0.559	0.564	-	1.667
Maximum Diameter Test Sleeve	0.582	0.587	0.137	-



4.3.10 Oversize Pin Exclusion

Not applicable.

4.3.11 Probe Damage

Not applicable.

4.3.12 Solderability

Not applicable.

4.4 MATERIALS AND FINISHES

The materials and finishes shall be as specified herein. Where a definite material is not specified, a material which will enable the components specified herein to meet the performance requirements of this specification shall be used. Acceptance or approval of any constituent material does not guarantee acceptance of the finished product.

4.4.1 <u>Shells</u>

Shells shall be made of aluminium alloy plated with a minimum thickness of 25.4µm of electroless nickel.

4.4.2 Inserts

Inserts shall be made of glass-fibre filled diallylphthalate resin or a suitable thermoplastic material.

4.4.3 Contacts

4.4.3.1 Female Contacts

The contact body shall be made of copper alloy with an underplate of 1µm minimum of copper to MIL-C-14550, gold plated with 1.27µm minimum of gold, Type 2, Grade C of MIL-DTL-45204. Measurement of thickness shall be performed at a distance of 1.5mm from the engagement end.

4.4.3.2 Male Contacts

The contact body and the bundle shall be made of copper alloy with an underplate of 1µm minimum of copper to MIL-C-14550, gold plated with 1.27µm minimum of gold, Type 2 Grade C of MIL-DTL-45204. Measurement of thickness shall be performed at a distance of 1.5mm from the engagement end.

4.4.4 Seals Interfacial

Interfacial seals shall be made of silicon base rubber.

4.4.5 Uninsulated Solid Wire

Uninsulated solid wires shall be made of copper alloy in accordance with Type S as specified in A-A-59551. They shall be gold-plated in accordance with Class 00, Grade C or D, as specified in MIL-DTL-45204.

4.4.6 Potting

Potting shall be made of epoxy resin.



4.5 MARKING

4.5.1 General

The marking of components delivered to this specification shall be in accordance with the requirements of ESCC Basic Specification No. 21700 and the following paragraphs. When the component is too small to accommodate all of the marking specified, as much as space permits shall be marked and the marking information, in full, shall accompany the component in its primary package.

The information to be marked and the order of precedence shall be as follows:

- (a) The ESCC Component Number.
- (b) Characteristics.
- (c) Traceability Information.

4.5.2 The ESCC Component Number

Each component shall bear the ESCC Component Number which shall be constituted and marked as follows:

Example: 340104101B

Detail Specification Number: 3401041
Type Variant (See Table 1(a)): 01

Testing Level: B

4.5.3 Characteristics

The characteristics to be marked in the following order of precedence are:

- (a) Shell Size.
- (b) Type of Contact.

The information shall be constituted and marked as follows (example): 9PS

Shell size: 9

Type of Contact: PS

4.5.3.1 Shell Size

Shell size shall be designated by the number of contacts. Specified numbers are: 9, 15, 21, 25, 31, 37 and 51.

4.5.3.2 Type of Contact

The contact types shall be indicated by the following code letters.

Code Letter	Contact Type	
PS	Male/Female	

4.5.4 <u>Traceability Information</u>

Traceability information shall be marked in accordance with the requirements of ESCC Basic Specification No. 21700.



4.6 <u>ELECTRICAL MEASUREMENTS</u>

4.6.1 <u>Electrical Measurements at Room Temperature</u>

The parameters to be measured in respect of electrical characteristics are scheduled in Table 2. Unless otherwise specified, the measurements shall be performed at $T_{amb} = +22 \pm 3$ °C.

- 4.6.2 <u>Electrical Measurements at High and Low Temperatures (Table 3)</u> Not applicable.
- 4.6.3 <u>Circuits for Electrical Measurements (Figure 4)</u>
 Not applicable.

4.7 <u>BURN-IN AND ELECTRICAL MEASUREMENTS (TABLES 4 AND 5)</u> Not applicable.

TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE

No.	Characteristics	Symbol	ESCC 3401	Test Condition	Lin	Unit	
			Test Method		Min.	Max.	
1	Insulation Resistance	Ri	Para. 9.1.1.1	Para. 9.1.1.1	5000	-	МΩ
2	Voltage Proof Leakage Current	lι	Para. 9.1.1.2	600Vrms		2	mA
3	Mated Shell Conductivity (Voltage Drop) Note 1	V_d	Para. 9.1.1.4	Para. 9.1.1.4	Not app	olicable	mV
4	Contact Resistance Low Level Current	R _{cl}	Para. 9.1.1.3	Para. 9.1.1.3	-	12	mΩ
5	Contact Resistance Rated Current	Rcr	Para. 9.1.1.3	Table 1(b)	-	10	mΩ

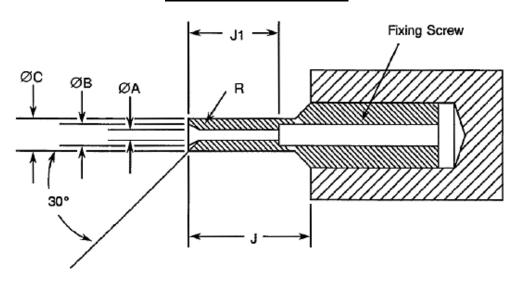
NOTES:

1. Applicable to mated connectors with grounding option.

TABLES 3, 4 AND 5

Not applicable.

FIGURE 4 - GAUGE FIXTURE



MINIMUM DIAMETER TEST SLEEVE

W	Remarks		
	Min.	Max.	
ØA	0.559	0.564	Note 2
ØB	0.749	0.775	-
ØC	0.813	0.825	-
J	4	ı	-
J1	3.13	3.23	-
R	0.381	0.483	Note 1

MAXIMUM DIAMETER TEST SLEEVE

V	Remarks		
	Min.	Max.	
ØA	0.582	0.587	Note 2
ØB	0.749	0.775	-
ØC	0.813	0.825	-
J	4	-	-
J1	3.13	3.23	-
R	0.381	0.483	Note 1

NOTES:

- 1. Radius R, must be tangent to entry chamfer and ØA.
- 2. ØA and entry chamfer shall have a surface roughness of 3.2µm (roughness grade N8).



- 4.8 <u>ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION NO. 3401)</u>
- 4.8.1 Measurements and Inspections on Completion of Environmental Tests

The parameters to be measured and inspections to be performed on completion of environmental testing shall be those specified in Table 6. Unless otherwise specified, these measurements shall be performed at $T_{amb} = +22 \pm 3$ °C.

- 4.8.2 <u>Measurements and Inspections at Intermediate Points during Endurance Tests</u>
 Not applicable.
- 4.8.3 <u>Measurements and Inspections on Completion of Endurance Tests</u>

The parameters to be measured and inspections to be performed on completion of endurance testing shall be those specified in Table 6. Unless otherwise specified, the measurements shall be performed at $T_{amb} = +22 \pm 3$ °C.

- 4.8.4 <u>Conditions for Operating Life Test (Part of Endurance Testing)</u>
 Not applicable.
- 4.8.5 <u>Electrical Circuit for Operating Life Test (Figure 5)</u>
 Not applicable.
- 4.8.6 <u>Conditions for High Temperature Storage Test (Part of Endurance Testing)</u>

The requirements for the high temperature storage test are specified in Section 9 of ESCC Generic Specification No. 3401. The temperature to be applied shall be the maximum storage temperature specified in Table 1(b) of this specification.

TABLE 6 - MEASUREMENTS AND INSPECTIONS ON COMPLETION OF ENVIRONMENTAL AND ENDURANCE TESTING

No.	ESCC Generic S	spec. No. 3401	Measurements an	d Inspections	Symbol	Lin	nits	Unit
	Environmental and Endurance Tests (Note 1)	Test Method and Conditions	Identification	Conditions		Min.	Max.	
01	Seal Test	Para. 9.9	ESCC 3401 Para. 9.9	-	-	Not ap	plicable	-
02	Wiring	Para. 9.10	Low Level Contact Resistance	-	R _{cl}	Not ap	plicable	-
03	Vibration	Para. 9.11	Initial Measurements Coupling Screw(s) Unlocking Torque Final Measurements	-	-	Record	Values	-
			Full Engagement Coupling Screw(s) Unlocking Torque Drift Visual Examination	-	ΔTqe/Tqe	-25 -	+25	%
04	Shock or Bump	Para. 9.12	Full Engagement Visual Examination	-	-	-	-	-



No.	ESCC Generic S	Spec. No. 3401	Measurements a	nd Inspections	Symbol	Limits		Unit
	Environmental and Endurance Tests (Note 1)	Test Method and Conditions	Identification	Conditions		Min.	Max.	
05	Climatic Sequence	Para. 9.13	Dry Heat	At High Temperature				
			Insulation Resistance	Table 2 Item 1	R_{i}	10	-	МΩ
			Low Air Pressure					
			Voltage Proof Leakage Current	Figure 1	IL		9.13.5	mA
			Damp Heat	Immediately after test				
			Insulation Resistance	Table 2 Item 1	R_{i}	100	-	МΩ
			Final Measurements	After 1-24 hrs Recovery				
			External Visual Inspection	ESCC 3401 Para. 9.7			3401 a. 9.7	
			Insulation Resistance	Table 2 Item 1	R_{i}	Table 2	2 Item 1	МΩ
			Voltage Proof Leakage Current	Table 2 Item 2	IL	Table 2	2 Item 2	mA
06	Plating Thickness	Para. 9.14	Thickness	-	-		.3 of this ec.	-
07	Joint Strength	Para. 9.15	ESCC 3401 Para. 9.15	-	-	Not ap	plicable	-
08	Rapid Change of	Para. 9.16	Visual Examination	-	-	-	-	-
	Temperature		Insulation Resistance	Table 2 Item 1	R_{i}	Table 2	2 Item 1	МΩ
			Voltage Proof Leakage Current	Table 2 Item 2	IL	Table 2	2 Item 2	mA
09	Contact Retention (In Insert)	Para. 9.17 & Para. 4.3.4 of this spec.	Contact Displacement	Not applicable for male contacts	-		3401 . 9.17	-
10	Endurance	Para. 9.18	Initial Measurements					
			Mating/Unmating Forces	-	F		3.5 of this ec.	N
			Low Level Contact Resistance	Table 2 Item 4	R_{cl}		l Values	mΩ
			Mated Shell Conductivity	Table 2 Item 3	V_{d}	Not ap	plicable	mV
			Final Measurements					
			Visual Examination	-	-	-	-	-
			Mating/Unmating Forces	-	F		3.5 of this ec.	N
			Low Level Contact Resistance Drift	Table 2 Item 4	ΔR_{cl}	-	3	mΩ
			Mated Shell Conductivity	Table 2 Item 3	V_{d}	Not ap	plicable	mV
			Insulation Resistance	Table 2 Item 1	R_{i}	Table 2	2 Item 1	МΩ
			Voltage Proof Leakage Current	Table 2 Item 2	ΙL	Table 2	2 Item 2	mA
11	Permanence of Marking	Para. 9.19	-	-	-	-	-	-
12	Mating/Unmating Forces	Para. 9.20	Force	-	F		3.5 of this ec.	N



No.	No. ESCC Generic Spec. No. 3401		Measurements ar	nd Inspections	Symbol	Lin	Limits	
	Environmental and Endurance Tests (Note 1)	Test Method and Conditions	Identification	Conditions		Min.	Max.	
13	High Temperature	Para. 9.21	Initial Measurements					
	Storage		Low Level Contact Resistance	Table 2 Item 4	R _{cl}	Record	l Values	mΩ
			Mated Shell Conductivity	Table 2 Item 3	V_{d}	Not ap	plicable	mV
			Final Measurements					
			Visual Examination	-	-	-	-	-
			Mating/Unmating Forces	-	F		3.5 of this ec.	N
			Low Level Contact Resistance Drift	Table 2 Item 4	ΔR_{cl}	-	3	mΩ
			Rated Current Contact Resistance	Table 2 Item 5	R_{cr}	Table 2	2 Item 5	mV
			Mated Shell Conductivity	Table 2 Item 3	V_{d}	Not ap	plicable	mV
			Insulation Resistance	Table 2 Item 1	R_{i}	Table 2	2 Item 1	МΩ
			Voltage Proof Leakage Current	Table 2 Item 2	lι	Table 2	2 Item 2	mA
			Contact Retention (In Insert)	Para. 4.3.4 of this spec.	-		3401 . 9.17	N
14	Corrosion	Para. 9.22	Visual Examination	-	-	-	-	-
15	Insert Retention (In Shell)	Para. 9.23 & Para. 4.3.6 of this spec.	Visual Examination	-	-		3.6 of this ec.	-
16	Jackscrew Retention	Para. 9.24 & Para. 4.3.7 of this spec.	Visual Examination	-	-	Not ap	plicable	-
17	High Temperature Measurements	Para. 9.25	Insulation Resistance	Table 2 Item 1	R _i	5000	-	ΜΩ
18	Overload Test	Para. 9.26	Internal Temperature	-	Т	-	+100	°C
			Rated Current Contact Resistance	Table 2 Item 5	R_{cr}	Table 2	2 Item 5	mΩ
			Mated Shell Conductivity	Table 2 Item 3	V_{d}	Not ap	plicable	mV
			Insulation Resistance	Table 2 Item 1	R_{i}	Table 2	2 Item 1	МΩ
			Voltage Proof Leakage Current	Table 2 Item 2	IL	Table 2	2 Item 2	mA
19	Maintenance Aging	Para. 9.27	-	-	-	Not ap	plicable	-
20	Engage/Separation Forces	Para. 9.28 & Para. 4.3.9 of this spec.	Force	-	F		3.9 of this ec.	N
21	Oversize Pin Exclusion	Para. 9.29 & Para. 4.3.10 of this spec.	-	-	-	Not ap	plicable	-
22	Probe Damage	Para. 9.30 & Para. 4.3.11 of this spec.	Contact Separation Force	-	-	Not ap	plicable	-



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No.	ESCC Generic S	pec. No. 3401	Measurements and Inspections		Symbol	Lin	nits	Unit
	Environmental	Test Method and	Identification	Conditions		Min.	Max.	
	and Endurance	Conditions						
	Tests (Note 1)							
23	Solderability	Para. 9.31 &	-	-	-	Not ap	plicable	-
		Para. 4.3.12 of						
		this spec.						

NOTES:1. The tests in this Table refer to either Chart IV or V and shall be used as applicable.



APPENDIX 'A' AGREED DEVIATIONS FOR C & K COMPONENTS (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
Para. 4.2.2, Deviations from Final Production Tests (Chart II)	Para. 9.4, Contact Capability: 100% Contact Capability Test may be omitted provided that a 100% visual inspection of the contacts is performed on each batch submitted to tests defined in the C&K PID requirements.