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CONNECTORS, ELECTRICAL, RECTANGULAR,

MICROMINIATURE, REMOVABLE CRIMP CONTACTS,

BASED ON TYPE MDMA

ESCC Detail Specification No. 3401/077

Issue 3	March 2010



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	560	Specification upissued to incorporate editorial and technical changes per DCR.



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1. <u>GENERAL</u>

1.1 <u>SCOPE</u>

This specification details the ratings, physical and electrical characteristics, test and inspection data for Electrical, Rectangular, Microminiature Connectors with Removable Crimp Contacts, based on type MDMA. It shall be read in conjunction with:

- (a) ESCC Generic Specification No. 3401, Connectors, Electrical, Rectangular and Circular.
- (b) ESCC Detail Specification No. 3401/032, Accessories for Connectors, Microminiature, 3401/029, 3401/077 and Connector Savers 3401/041.
- (c) ESCC Detail Specification No. 3401/078, Contacts, Electrical, Crimp, for 3401/077 Microminiature Connectors based on type MDMA.

1.2 <u>COMPONENT TYPE VARIANTS AND RANGE OF COMPONENTS</u>

The different sizes of the basic type connectors specified herein, together with their mechanical characteristics, are scheduled 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 connectors specified herein, are given in Table 1(b).

- 1.4 <u>PARAMETER DERATING INFORMATION</u> The derating information applicable to the connectors specified herein is shown in Figure 1.
- 1.5 <u>PHYSICAL DIMENSIONS</u> The physical characteristics of the connectors specified herein are shown in Figure 2.

1.6 <u>CONTACT ARRANGEMENTS</u> Contact arrangements are shown in Figure 3.

2. <u>APPLICABLE DOCUMENTS</u>

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

- (a) ESCC Generic Specification No. 3401, Connectors, Electrical, Circular and Rectangular.
- (b) ESCC Detail Specification No. 3401/032, Accessories for Connectors, Microminiature, 3401/029, 3401/077 and Connector Savers 3401/041.
- (c) ESCC Detail Specification No. 3401/078, Contacts, Electrical, Crimp for 3401/077 Microminiature Connectors based on type MDMA.
- (d) MIL-DTL-45204, Gold Plating, Electro-deposited.
- (e) MIL-C-14550, Copper Plating, Electro-deposited.

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.



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TABLE 1(a) - COMPONENT TYPE VARIANTS AND RANGE OF COMPONENTS

	Variants Shell Finish		Weight Max g Note 2	Mating Force N Max	Unmatir	ng Force
Nickel	Gold				N Max	N Min
01	02	9	2	20	20	1.3
01	02	15	2.6	33	33	2
01	02	21	3.2	47	47	2.9
01	02	25	3.6	55	55	3.5
01	02	31	4.2	69	69	4.3
01	02	37	4.8	82	82	5.1

NOTES:

1. See Figures 2.1(a) and 2.1(b).

2. Weight without cables, floating eyelets, captive nut and contacts (see Para. 4.5.4.4). Add 0.4 grammes for connectors with floating mounts and 1 gramme for connectors with captive nuts. See Figures 2.3 and 2.4 for the weight of cable and ESCC Detail Specification No. 3401/078 for contact weights.

No.	Characteristic	Symbol	Maximum Rating	Unit	Remarks
1	Working Voltage	U _R	150	Vrms	Note 1
2	Rated Current with: AWG26 and uninsulated solid wire AWG28 wire	I _R	2.5 1.5	A	Note 2
3	Operating Temperature Range	Т _{ор}	-55 to +125	°C	T _{amb}
4	Storage Temperature Range	T _{stg}	-65 to +125	°C	-

TABLE 1(b) - MAXIMUM RATINGS

NOTES:

- 1. At Sea Level, between contacts, and contact and shell. U_R requires derating at altitudes above sea level. See Figure 1(a).
- 2. I_R requires derating if the number of carrying contacts in the connector is 2 or greater. See Figure 1(b).



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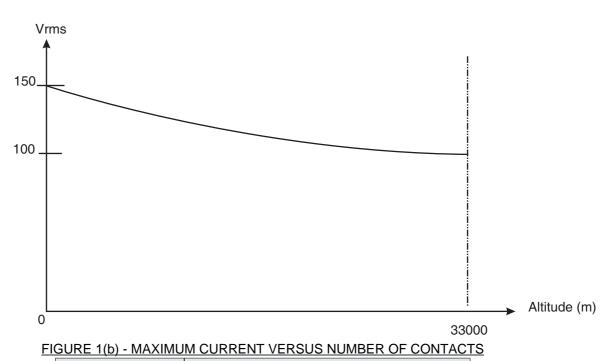


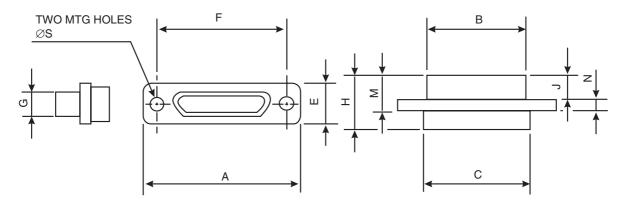
FIGURE 1 - PARAMETER DERATING INFORMATION FIGURE 1(a) - WORKING VOLTAGE VERSUS ALTITUDE

NUMBER OF MAXIMUM CURRENT PER CONTACT (A)

CURRENT- CARRYING	WIRE SIZE							
CONTACTS PER CONNECTOR	AWG26 AND UNINSULATED SOLID WIRE	AWG 28						
2 - 4	2	1.4						
5 - 14	1.8	1.2						
15 and over	1.4	0.9						

FIGURE 2 - PHYSICAL DIMENSIONS

Figure 2.1(a) Connector Shells - Plug (Male Contacts)



SHELL	A	B	С	D	E	Ē		E		E		Ē		E		E		E		E	E	E		E		E		-	Ē		Ē		Ē		E		E		Ē		E		Н	J	M	N	I	Ø	S
SIZE	Max	Max	Max	Max	Max	Min	Max	Max	Max	Max	Max	Min	Max	Min	Max																																		
9	19.94	8.46	10.16	6.86	7.82	14.22	14.48	4.69	10.57	4.72	7.26	2.23	2.49	2.23	2.39																																		



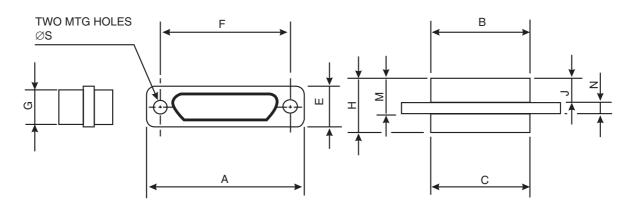
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SHELL	A	B	С	D	E	Ē		<u>G</u>	Н	J	М	Ν	1	Ø	S
SIZE	Max	Max	Max	Max	Max	Min	Max	Max	Max	Max	Max	Min	Max	Min	Max
15	23.75	12.27	13.97	6.86	7.82	18.03	18.29	4.69	10.57	4.72	7.26	2.23	2.49	2.23	2.39
21	27.56	16.08	17.78	6.86	7.82	21.84	22.1	4.69	10.57	4.72	7.26	2.23	2.49	2.23	2.39
25	30.1	18.62	20.32	6.86	7.82	24.38	24.64	4.69	10.57	4.72	7.26	2.23	2.49	2.23	2.39
31	33.91	22.43	24.13	6.86	7.82	28.19	28.45	4.69	10.57	4.72	7.26	2.23	2.49	2.23	2.39
37	37.72	26.24	27.94	6.86	7.82	32	32.26	4.69	10.57	4.72	7.26	2.23	2.49	2.23	2.39

NOTES:

1. All dimensions are in millimetres.





SHELL	A	B	С	D	E	E	_	G H	J	М	Ν	1	Øs		
SIZE	Max	Max	Max	Max	Max	Min	Max	Max	Max	Max	Max	Min	Max	Min	Max
9	19.94	10.16	10.16	6.86	7.82	14.22	14.48	6.38	10.9	5.05	7.59	2.23	2.49	2.23	2.39
15	23.75	13.97	13.97	6.86	7.82	18.03	18.29	6.38	10.9	5.05	7.59	2.23	2.49	2.23	2.39
21	27.56	17.78	17.78	6.86	7.82	21.84	22.1	6.38	10.9	5.05	7.59	2.23	2.49	2.23	2.39
25	30.1	20.32	20.32	6.86	7.82	24.38	24.64	6.38	10.9	5.05	7.59	2.23	2.49	2.23	2.39
31	33.91	24.13	24.13	6.86	7.82	28.19	28.45	6.38	10.9	5.05	7.59	2.23	2.49	2.23	2.39
37	37.72	27.94	27.94	6.86	7.82	32	32.26	6.38	10.9	5.05	7.59	2.23	2.49	2.23	2.39

NOTES:

1. All dimensions are in millimetres.



FIGURE 2.2 - CONTACT POSITIONS

Figure 2.2.1 - Mounting Condition

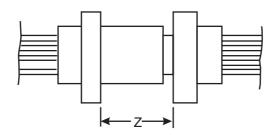
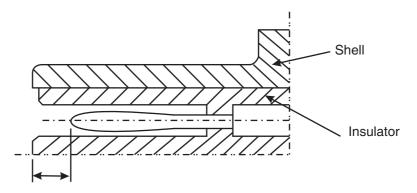
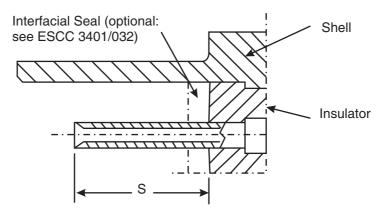


Figure 2.2.2 - Plug Male Contact







I	=	S	Z	
Min	Max	Min	Max	Max
0.25	0.91	3.3	3.66	5.49

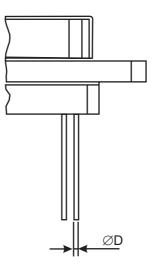
NOTES:

1. All dimensions are in millimetres.



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FIGURE 2.3 - UNINSULATED SOLID WIRES ACCEPTED



Wire Size AWG	25				
Max Diameter D mm	0.46				
Min Diameter D mm	0.45				
Min Gold Plating Thickness µm	0.5				
Max Weight g/m	1.6				

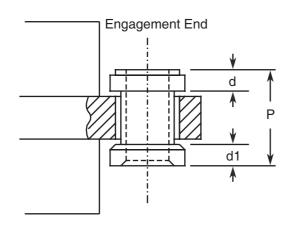
FIGURE 2.4 - INSULATED WIRES ACCEPTED

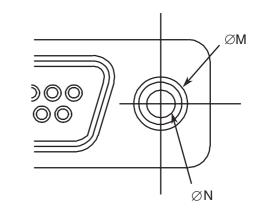
		ESCC 3	901/002	ESCC 3	901/013
			Wire Siz	ze AWG	
		26	28	26	28
Conductor	Maximum Diameter mm	0.53	0.43	0.5	0.42
Characteristics	Nominal Cross-section mm ²	0.15	0.1	0.14	0.1
Wire Characteristics	Maximum Diameter mm	0.78	0.68	0.89	0.82
	Maximum Weight g/m	1.93	1.23	2.3	1.8



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FIGURE 2.5 - FLOATING MOUNT (Notes 2 and 3)



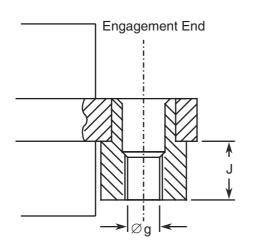


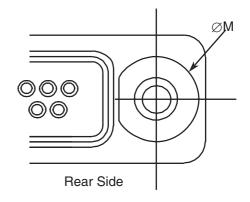
d	d1	Øм Max	ØN Min	P Max
1	0.8	4	2.26	4.7

NOTES:

- 1. All dimensions are in millimetres.
- 2. Total Lateral Float 0.4 (typical).
- 3. Total Axial Float 0.4 (typical).

FIGURE 2.6 - CAPTIVE NUT





Øg	J Max	Øм Мах
Note 2	2.6	5.1

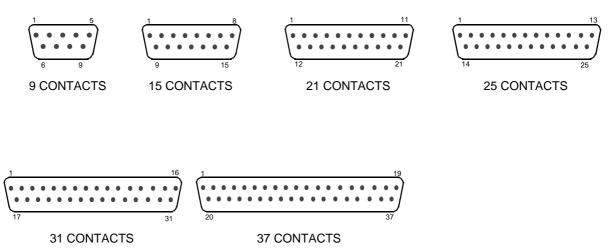
NOTES:

- 1. All dimensions are in millimetres.
- 2. Øg: 2-56 UNC 2B, Maximum Torque 0.44Nm.



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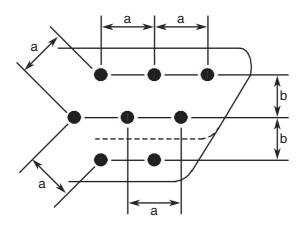
FIGURE 3 - CONTACT ARRANGEMENTS FRONT VIEW OF MALE INSERT - USE MIRROR VIEW FOR FEMALE INSERT



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:

- 1. a = Distance between contact centres: 1.27mm (typical)
- 2. b = Distance between rows: 1.09mm (typical).

4. <u>REQUIREMENTS</u>

4.1 <u>GENERAL</u>

The complete requirements for procurement of the connectors 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



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requirements and do not affect the components' reliability, are listed in the appendices attached to this specification.

4.2 DEVIATIONS FROM GENERIC SPECIFICATION

- 4.2.1 <u>Deviations from Special In-Process Controls</u> None
- 4.2.2 <u>Deviations from Final Production Tests (Chart II)</u>
 (a) 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. 9.29, Oversize Pin Exclusion: Not applicable.
 - (c) Para. 9.30, Probe Damage: Not applicable.
 - (d) Para. 9.31, Solderability: Not applicable.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)

- (a) Para. 9.9, Seal Test: Not applicable.
- (b) Para. 9.29, Oversize Pin Exclusion: Not applicable.
- (c) Para. 9.30, Probe Damage: Not applicable.

4.3 <u>MECHANICAL REQUIREMENTS</u>

4.3.1 <u>Dimension Check</u>

The dimensions of the connectors 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 connectors specified herein, without contacts and interfacial seals, shall be in accordance with the values given in Table 1(a) of this specification.
- 4.3.3 <u>Contact Capability</u> As specified in ESCC Detail Specification No. 3401/078.
- 4.3.4 <u>Contact Retention (in Insert)</u> As specified in ESCC Detail Specification No. 3401/078.
- 4.3.5 <u>Mating and Unmating Forces</u>
 The forces applied for the mating and unmating of the connectors shall conform to the values specified in Table 1(a).



Insert Retention (in Shell)

4.3.6

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

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4.3.7	Jackscrew Retention Not applicable.
4.3.8	<u>Contact Insertion and Withdrawal Forces</u> As specified in ESCC Detail Specification No. 3401/078.
4.3.9	Engagement and Separation Forces (Male Contacts) As specified in ESCC Detail Specification No. 3401/078.
4.3.10	Oversize Pin Exclusion Not applicable.
4.3.11	Probe Damage Not applicable.
4.3.12	<u>Solderability</u> 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 Shells

Shells shall be made of aluminium alloy. Variant 01 shall have a minimum plating thickness of $25.4\mu m$ of electroless nickel. Variant 02 shall have a minimum plating thickness of $2.54\mu m$ of gold over a layer of electroless nickel.

- 4.4.2 <u>Inserts</u> Inserts shall be made of a suitable thermoplastic material.
- 4.4.3 <u>Contacts</u> As specified in ESCC Detail Specification No. 3401/078.
- 4.4.4 <u>Contact Retaining Clip</u> The retaining clip shall be made of beryllium copper.

4.5 <u>MARKING</u>

4.5.1 <u>General</u>

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.

Each component shall be marked in respect of:



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- (a) The ESCC qualified components symbol (for ESCC qualified components only).
- (b) The ESCC Component Number.
- (c) Series.
- (d) Characteristics.
- (e) 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:

340107701B

- Detail Specification Number: 3401077
- Type Variant (See Table 1(a)): 01
- Testing Level: B

4.5.3 <u>Series</u>

The series of the connector, MDMA, shall be marked on the connector if space permits.

4.5.4 Characteristics

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

- (a) Mounting.
- (b) Shell Size.
- (c) Contact Type.
- (d) Contact Information.

The information shall be constituted and marked as follows (example): Y37P-FO

- Mounting: Y
- Shell size: 37
- Contact type: P
- Contact information: -FO

4.5.4.1 Fixing Option

The letter "Y" shall indicate a floating mount. The letter "E" shall indicate captive nuts. If the shell has standard mounting holes, the letter shall be omitted.

4.5.4.2 Shell Size

Shell size shall be designated by the number of contacts.

Specified numbers are: 9, 15, 21, 25, 31 and 37.

4.5.4.3 Contact Type

Contact types shall be indicated by the following code letters.



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Code Letter	Contact Type
Р	Male
S	Female

4.5.4.4 Contact Information

-FO = Connector ordered without contacts. This information shall not be marked on the connector; it is only included on the packaging and all relevant data documentation.

Contacts must be from the same Manufacturer as the connector in which they are fitted and this shall be verified prior to assembly.

4.5.4.5 Traceability Information

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

4.6 ELECTRICAL MEASUREMENTS

- 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 measurement shall be performed at $T_{amb} = +22 \pm 3^{\circ}C$.
- 4.6.2 <u>Electrical Measurements at High and Low Temperatures</u> Not applicable.
- 4.6.3 <u>Circuits for Electrical Measurements</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.	Characteristic	Symbol ESCC 3401		Test Condition	Lim	Unit	
			Test Method		Min	Max	
1	Insulation Resistance	R _i	Para. 9.1.1.1	Para. 9.1.1.1	5000	-	MΩ
2	Voltage Proof Leakage Current	ΙL	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	licable	mV

NOTES:

1. Applicable to mated connectors with grounding option.

TABLES 3, 4 AND 5

Not applicable.



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4.8 <u>ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC</u> <u>SPECIFICATION NO. 3401)</u>

- 4.8.1 <u>Measurements and Inspections on Completion of Environmental Tests</u> 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 $T_{amb} = +22 \pm 3^{\circ}C$.
- 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, these measurements shall be performed at $T_{amb} = +22 \pm 3^{\circ}C$.
- 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</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 Spec. No	o. 3401	Measurements	and Inspections	Symbol	Lir	nits	Unit
	Environmental and Endurance Tests Note 1	Test Method and Condi- tions	Identification	Conditions		Min	Max	
01	Seal Test	Para. 9.9	Not applicable					
02	Wiring	Para. 9.10	ESCC 3401/078	-	-	-	-	
03	Vibration	Para. 9.11	Initial Measurements Coupling screw(s) Unlocking Torque		Tqe	Record	l Values	
			Final Measurements Full Engagement Coupling screw(s) Unlocking Torque Drift Visual Examination	-	∆Tqe/Tqe -	-25	+25	%
04	Shock or Bump	Para. 9.12	Full Engagement Visual Examination	-	-	-	-	
05	Climatic Sequence	Para. 9.13	Dry Heat Insulation Resistance	At High Temperature Table 2, Item 1	R _i	10	-	MΩ
			Low Air Pressure Voltage Proof Leakage Current	Figure 1 Immediately after test	۱ _L		401 Para. 3.5	mA



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No.	ESCC Generic Spec. No	o. 3401	Measurements a	and Inspections	Symbol	Lin	nits	Unit
	Environmental and Endurance Tests Note 1	Test Method and Condi- tions	Identification	Conditions		Min	Max	
			Damp Heat Insulation Resistance	Table 2, Item 1	R _i	100	-	MΩ
			Final Measurements External Visual Inspection	After 1-24 hrs Recovery ESCC 3401 Para. 9.7		ESCC 34 Para	401 Para. a. 9.7	
			Insulation Resistance Voltage Proof Leakage Current	Table 2, Item 1 Table 2, Item 2	R _i I _L		2, Item 1 2, Item 2	MΩ mA
06	Plating Thickness	Para. 9.14	Thickness	-	-		-	
07	Joint Strength	Para. 9.15	ESCC 3401/078	-	-		-	
08	Rapid Change of Temperature	Para. 9.16	Visual Examination	-	-	-	-	-
			Insulation Resistance Voltage Proof Leakage Current	Table 2, Item 1 Table 2, Item 2	R _i I _L	1	, Item 1 , Item 2	MΩ mA
09	Contact Retention (in Insert)	Para. 9.17 & Para. 4.3.4 of this spec.	Contact Displacement	ESCC 3401/078	-	ESCC 3	401/078	
10	Endurance	Para. 9.18	Initial Measurements Mating/Unmating Forces		F		3.5 of this ec.	Ν
			Low Level Contact Resistance Mated Shell Conductivity	ESCC 3401/078 Table 2, Item 3	R _{cl} V _D		401/078 plicable	mΩ mV
			Final Measurements Visual Examination	-	-	-	-	
			Mating/Unmating Forces	Table 2, Item 4	F		3.5 of this ec	Ν
			Low Level Contact Resistance Drift	ESCC 3401/078	ΔR_{cl}		401/078	mΩ
			Mated Shell Conductivity Insulation Resistance	Table 2, Item 3 Table 2, Item 1	V _D R _i		plicable	mV MΩ
			Voltage Proof Leakage Current	Table 2, Item 2	ι	1	, Item 2	mA
11	Permanence of Marking	Para. 9.19	As applicable	-	-		-	
12	Mating/Unmating Forces	Para. 9.20	Force	-	F		3.5 of this bec	Ν
13	High Temperature Storage	Para. 9.21	Initial Measurements Low Level Contact Resistance	ESCC 3401/078	R _{cl}		401/078	mΩ
			Mated Shell Conductivity Final Measurements	Table 2, Item 3	V _D	Not ap	plicable	mV
			Visual Examination	-	-	-	-	



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No.	ESCC Generic Spec. N	lo. 3401	Measurements a	and Inspections	Symbol	Lir	nits	Unit
	Environmental and Endurance Tests Note 1	Test Method and Condi- tions	Identification	Conditions		Min	Max	
			Mating/Unmating Forces	-	F		3.5 of this bec	N
			Low Level Contact Resistance Drift	ESCC 3401/078	ΔR_{cl}		8401/078	mΩ
			Rated Current Contact Resistance	ESCC 3401/078	R _{cr}		8401/078	mΩ
			Mated Shell Conductivity Insulation Resistance	Table 2, Item 3 Table 2, Item 1	V _D		plicable 2, Item 1	mΩ MΩ
			Voltage Proof Leakage	Table 2, Item 2	R _i IL		2, Item 2	mA
			Current Contact Retention (in Insert)	ESCC 3401/078			3401/078	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 and 4.3.7 of this spec	Not applicable					
17	High Temperature Measurements	Para. 9.25	Insulation Resistance	Table 2 Item 1	R _i	10	-	MΩ
18	Overload Test	Para. 9.26	Internal Temperature	-	Т	-	+100	°C
			Rated Current Contact Resistance	ESCC 3401/078	R _{cr}	ESCC 3	8401/078	mΩ
			Mated Shell Conductivity	Table 2 Item 3	VD		plicable	mV
			Insulation Resistance	Table 2 Item 1	R _i		2, Item 1	MΩ
			Voltage Proof Leakage Current	Table 2 Item 2	IL IL		2, Item 2	mA
19	Maintenance Aging	Para. 9.27	Visual Examination	-	-	-	-	
			Contact Retention (in In- sert)	ESCC 3401/078		ESCC 3	3401/078	N
			Contact insertion and withdrawal forces	ESCC 3401/078		ESCC 3	8401/078	N
20	Engage/Separation Forces	Para. 9.28 & Para. 4.3.9 of this spec.	Force	ESCC 3401/078	F	ESCC 3	3401/078	N
21	Oversize Pin Exclusion	Para. 9.29 and 4.3.10 of this spec.	Not applicable					
22	Probe Damage	Para. 9.30 and 4.3.11 of this spec.	Not applicable					
23	Solderability	Para. 9.31 & Para. 4.3.12 of this spec.	Not applicable					

NOTES:

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



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

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
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.