CONNECTOR SAVERS AND ACCESSORIES, ELECTRICAL, RECTANGULAR, MICROMINIATURE, HIGH DATA RATE

BASED ON TYPES AXOMACH

ESCC Detail Specification No. 3401/090

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DCR No.	CHANGE DESCRIPTION

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1 GENERAL

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for Electrical, Rectangular, Microminiature, High Data Rate Connector Savers, and Accessories, based on type AxoMach.

It shall be read in conjunction with:

- ESCC Generic Specification No. 3401, Connectors, Electrical, Rectangular and Circular.
- ESCC Detail Specification No. 3401/089, Connectors, Electrical, Rectangular, Microminiature, High Data Rate (Female Coaxial Contacts), based on type AxoMach and SpaceFibre.
- ESCC Detail Specification No. 3409/001, High Data Rate Cable Assembly with Microminiature Rectangular, Coaxial Connectors, based on types AxoMach and SpaceFibre.

the requirements of which are supplemented herein.

1.2 COMPONENT TYPE VARIANTS AND RANGE OF COMPONENTS

The different physical configurations of the basic type connectors specified herein 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 PARAMETER DERATING INFORMATION

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

1.5 PHYSICAL DIMENSIONS

The physical dimensions and characteristics of the connectors specified herein are shown in Figure 2.

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

Variant Number	Description	Physical Configuration	Weight Max (g)
01	Connector Saver, AxoMach HDR, 1 Way	See Figure 2(a)	5
02	Connector Saver, AxoMach HDR, 2 Way	See Figure 2(b)	7
03	Connector Saver, AxoMach HDR, 4 Way	See Figure 2(c)	12
04	Blanking Plate, AxoMach HDR, 1 Way	See Figure 2(d)	3
05	Blanking Plate, AxoMach HDR, 2 Way	See Figure 2(e)	4
06	Blanking Plate, AxoMach HDR, 4 Way	See Figure 2(f)	5.5

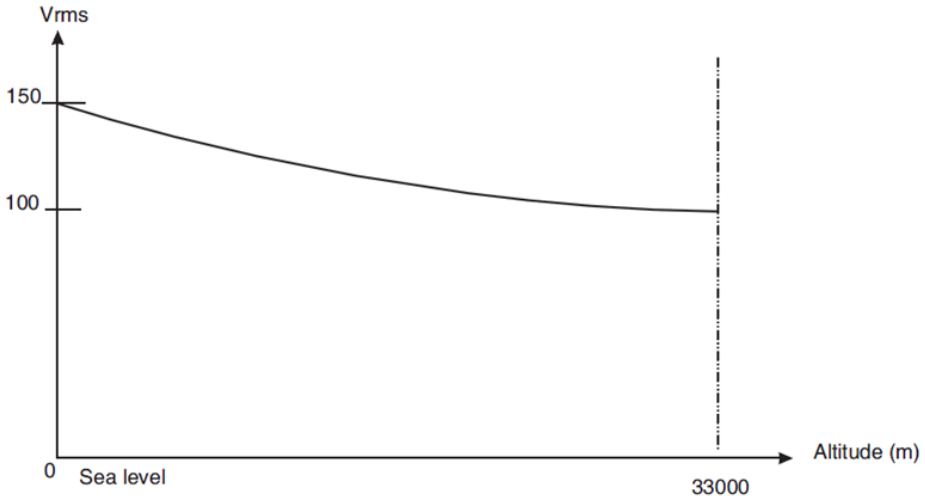
TABLE 1(b) - MAXIMUM RATINGS

Characteristics	Symbols	Maximum Ratings	Units	Remarks
Maximum Operating Data Rate	DR_{max}	10	Gb/s	Not applicable to Variants 04, 05, 06.
Operating Frequency Range	f_R	≤ 10	GHz	Not applicable to Variants 04, 05, 06.
Working Voltage	U_R	150	Vrms	At sea level. Note 1. See Figure 1(a). Not applicable to Variants 04, 05, 06.
Rated Current	I_R	1	A	Each contact. Not applicable to Variants 04, 05, 06.
Operating Temperature Range	T_{op}	-55 to +125	°C	T_{amb}
Storage Temperature Range	T_{stg}	-55 to +125	°C	

NOTES:
1. Between contacts, and contacts and shell.

FIGURE 1 - PARAMETER DERATING INFORMATION

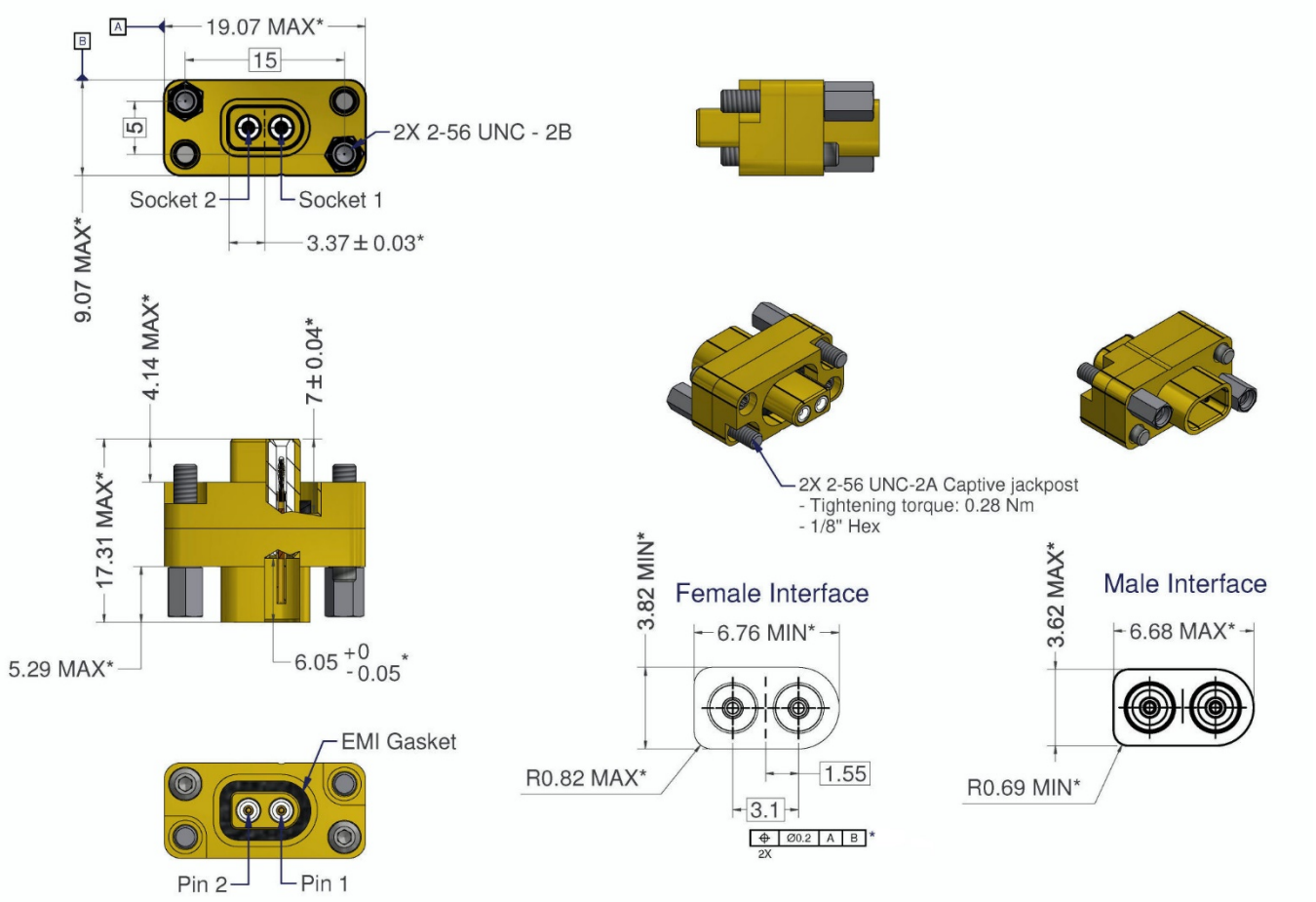
FIGURE 1(a) - WORKING VOLTAGE VERSUS ALTITUDE (NOTE 1)



NOTES:
1. Not applicable to Variants 04, 05, 06.

FIGURE 2 - PHYSICAL DIMENSIONS

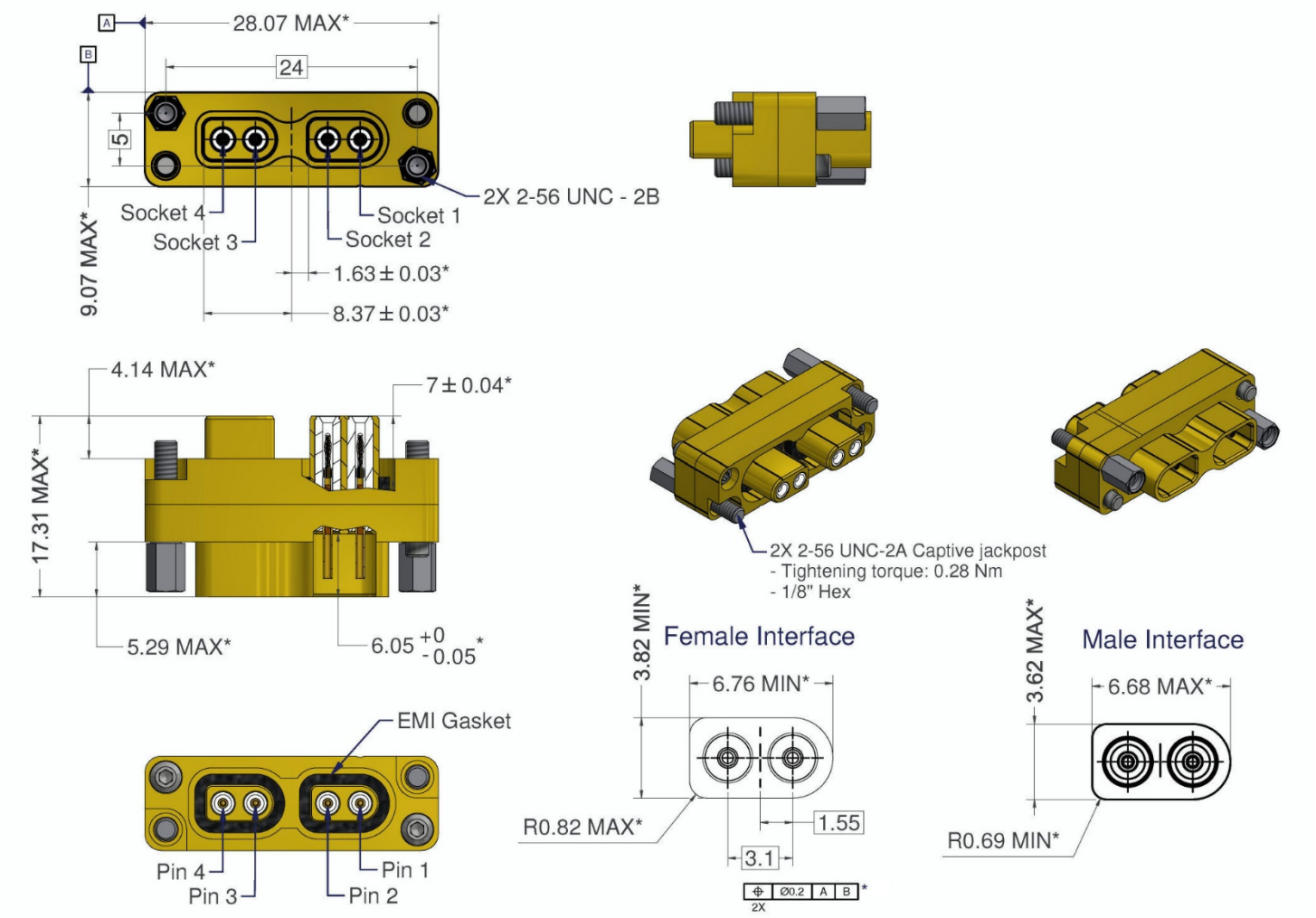
FIGURE 2(a) – VARIANT 01 - CONNECTOR SAVER, AXOMACH HDR, 1 WAY



NOTES:

1. All dimensions are in mm.
2. Dimensions with an asterisk (*) shall be checked after assembly of the connector.
3. For connector interface dimensions, see also Figure 2(g).
4. Mating torque: 0.28N.m (+10 -0)%.
5. Contact identification: contact (pin & socket) Nos. 1 and 2 are indicated by the physical configuration. In addition, contact No. 1 is indicated by an index mark on the shell above pin/socket 1 (as shown above).

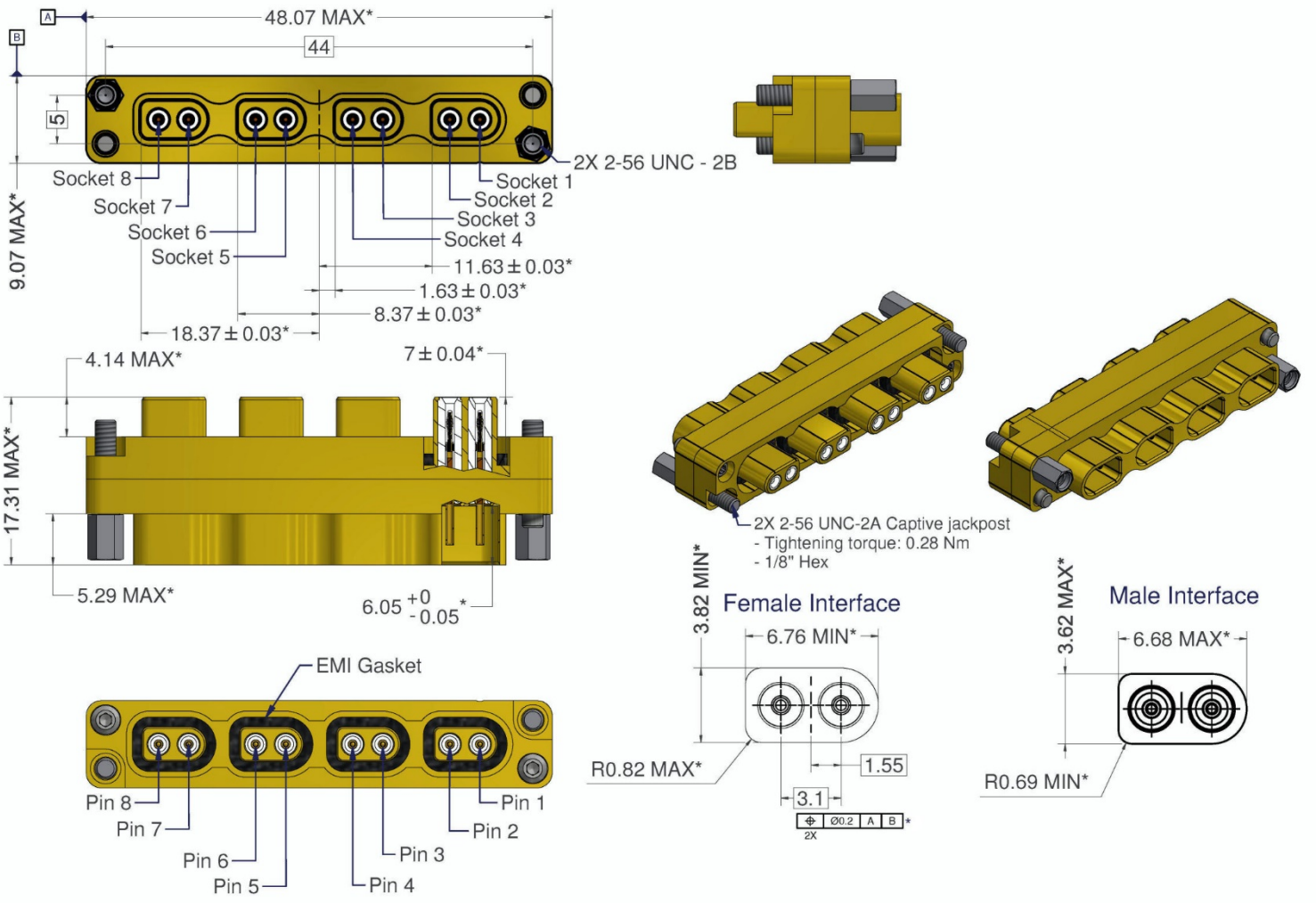
FIGURE 2(b) – VARIANT 02 - CONNECTOR SAVER, AXOMACH HDR, 2 WAY



NOTES:

1. All dimensions are in mm.
2. Dimensions with an asterisk (*) shall be checked after assembly of the connector.
3. For connector interface dimensions, see also Figure 2(g).
4. Mating torque: 0.28N.m (+10 -0)%.
5. Contact identification: contact (pin & socket) Nos. 1 to 4 are indicated by the physical configuration (as shown above). In addition, contact No. 1 is indicated by an index mark on the shell above pin/socket 1 (as shown above).

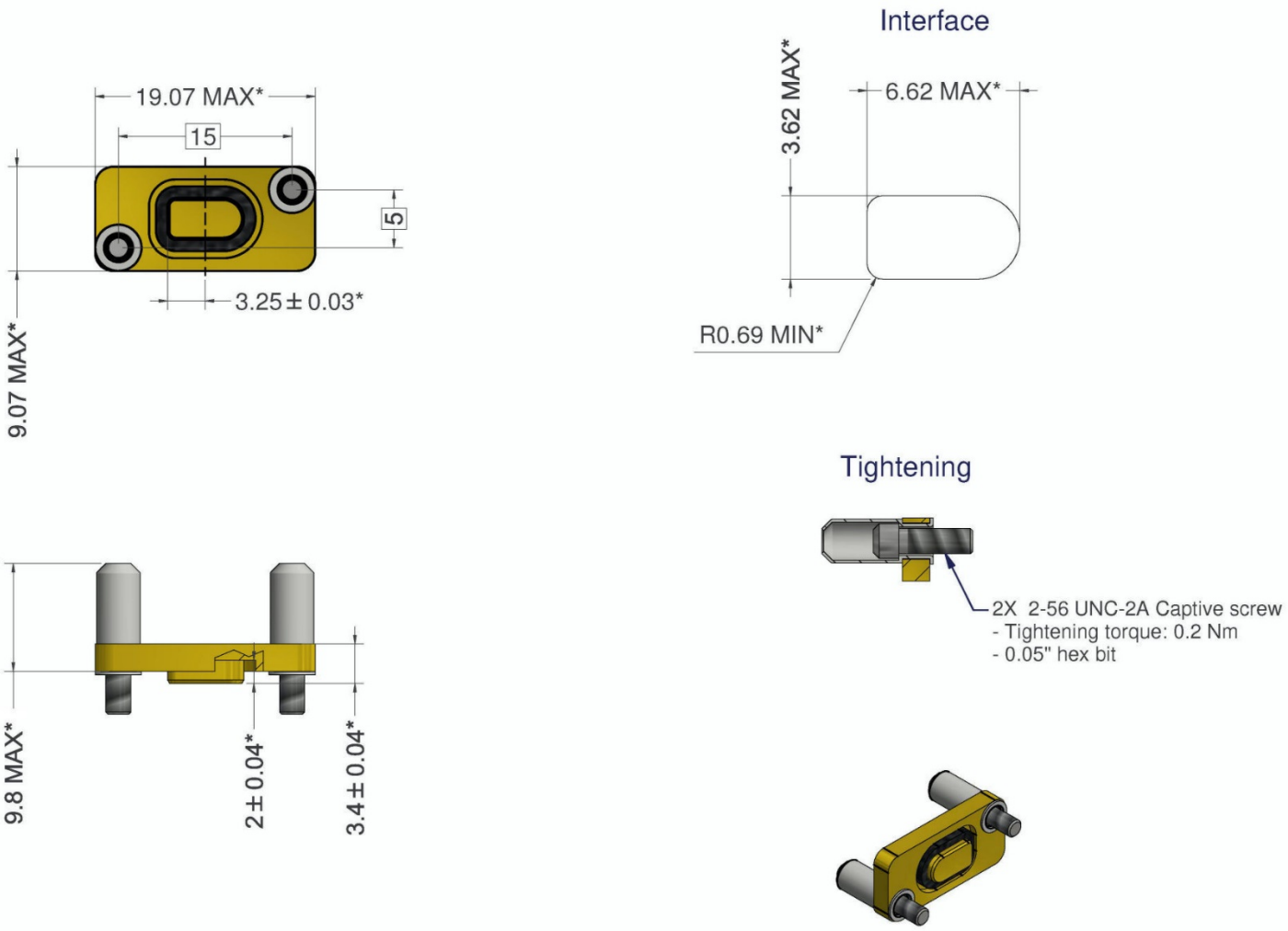
FIGURE 2(c) – VARIANT 03 - CONNECTOR SAVER, AXOMACH HDR, 4 WAY



NOTES:

1. All dimensions are in mm.
2. Dimensions with an asterisk (*) shall be checked after assembly of the connector.
3. For connector interface dimensions, see also Figure 2(g).
4. Mating torque: 0.28N.m (+10 -0)%.
5. Contact identification: contact (pin & socket) Nos. 1 to 8 are indicated by the physical configuration (as shown above). In addition, contact No. 1 is indicated by an index mark on the shell above pin/socket 1 (as shown above).

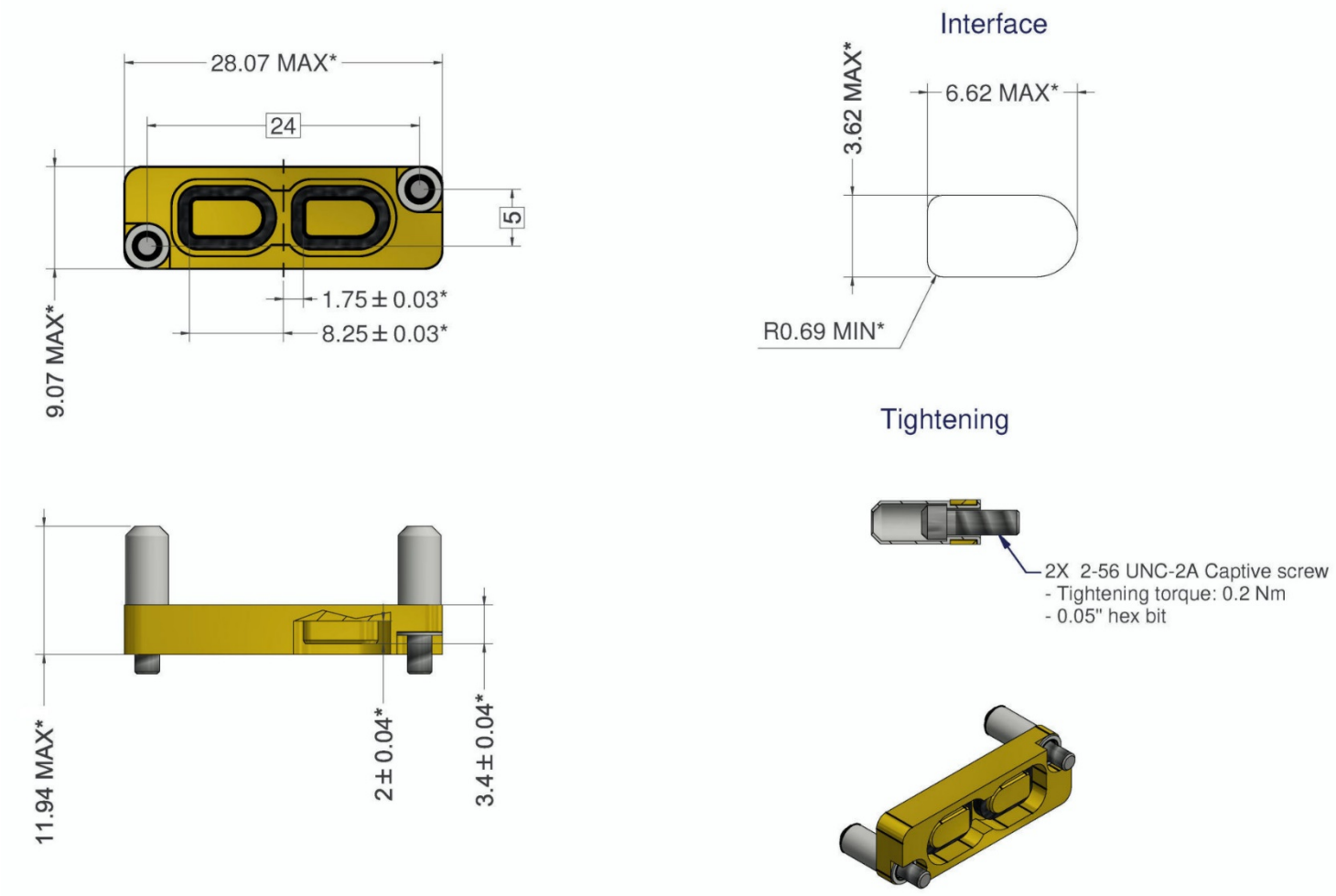
FIGURE 2(d) – VARIANT 04 - BLANKING PLATE, AXOMACH HDR, 1 WAY



NOTES:

1. All dimensions are in mm.
2. Dimensions with an asterisk (*) shall be checked after assembly of the connector.
3. Mating torque: 0.2N.m (+5 -0)%.

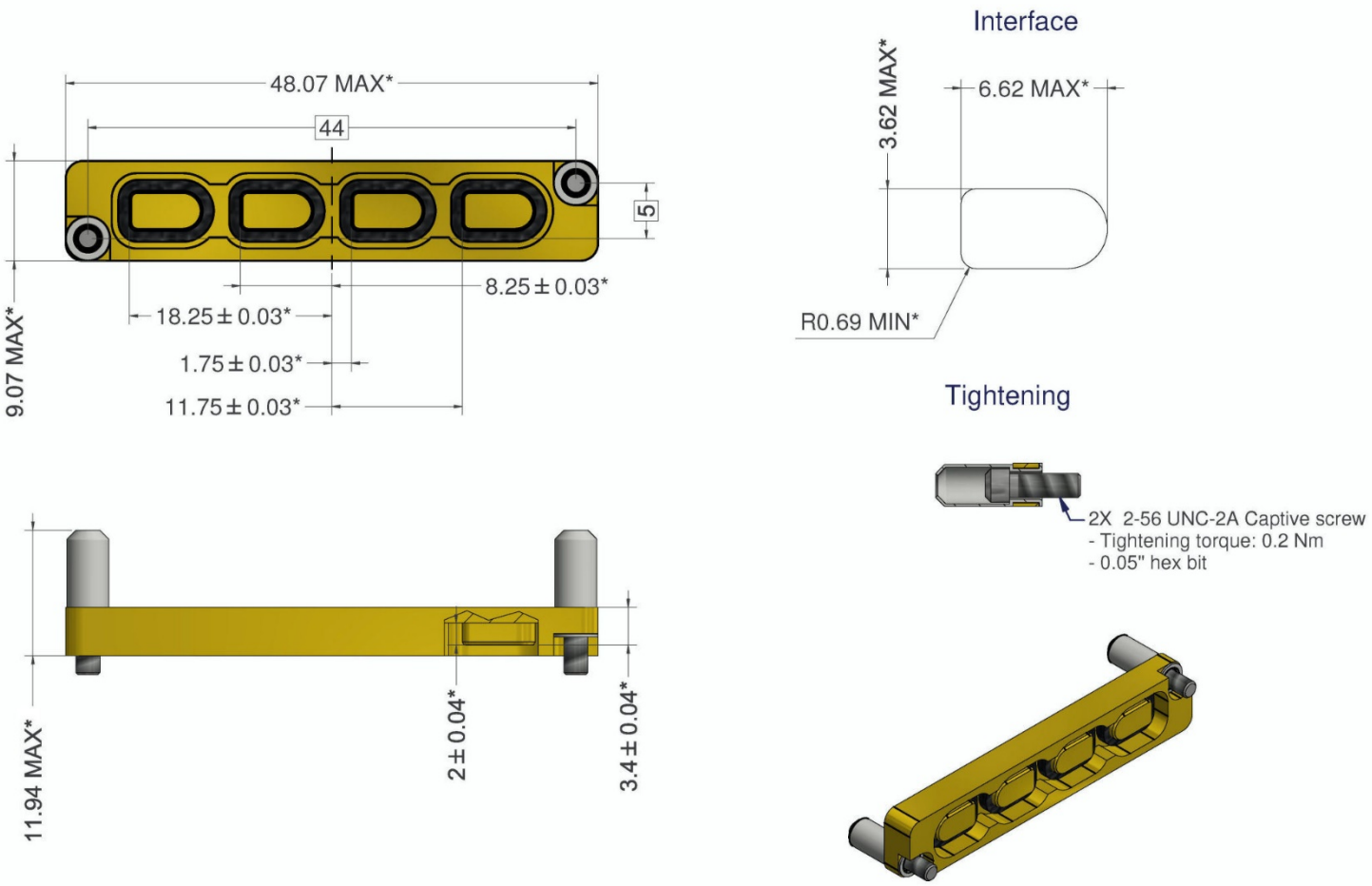
FIGURE 2(e) – VARIANT 05 - BLANKING PLATE, AXOMACH HDR, 2 WAY



NOTES:

1. All dimensions are in mm.
2. Dimensions with an asterisk (*) shall be checked after assembly of the connector.
3. Mating torque: 0.2N.m (+5 -0)%.

FIGURE 2(f) – VARIANT 06 - BLANKING PLATE, AXOMACH HDR, 4 WAY

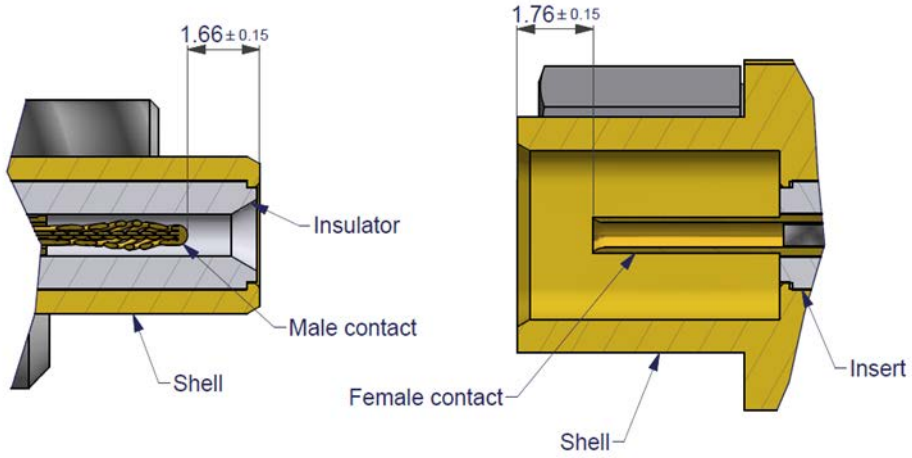


NOTES:

1. All dimensions are in mm.
2. Dimensions with an asterisk (*) shall be checked after assembly of the connector.
3. Mating torque: 0.2N.m (+5 -0)%.

FIGURE 2(g) - INTERFACE DIMENSIONS – VARIANTS 01 TO 03

Plug Side, Male Contact Jack Side, Female Contact



NOTES:

1. All dimensions are in mm.

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, Circular and Rectangular.

(b) ESCC Detail Specification No. 3401/089, Connectors, Electrical, Rectangular, Microminiature, High Data Rate (Female Coaxial Contacts), based on type AxoMach and SpaceFibre.

(c) ESCC Detail Specification No. 3409/001, High Data Rate Cable Assembly with Microminiature, Rectangular, Coaxial Connectors, based on types AxoMach and SpaceFibre.

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.

4 REQUIREMENTS

4.1 GENERAL

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

4.2 DEVIATIONS FROM THE GENERIC SPECIFICATION

4.2.1 Deviations from Special In-Process Controls

(a) Crimping Capability:
- For Variants 01, 02, 03: The minimum tensile strength shall be 30N.
- For Variants 04, 05, 06: Not applicable.

(b) Solderability: Not applicable.

4.2.2 Deviations from Final Production Tests - Chart II(b)

(a) Para. 9.4, Contact Capability: For Variants 04, 05, 06: Not applicable.

(b) Para. 9.6, Dimension Check (Contacts): For Variants 04, 05, 06: Not applicable.

(c) Para. 9.8, Installation of Contacts into Insert: For Variants 04, 05, 06: Not applicable.

(d) Para. 9.1.4, Electrical Measurements at Room Temperature: For Variants 04, 05, 06: Not applicable.

(e) Para. 9.9, Seal Test: Not applicable

(f) Para. 9.5, Magnetism Level: Not applicable.

4.2.3 Deviations from Burn-in and Electrical Measurements - Chart III

None (Chart III is not applicable).

4.2.4 Deviations from Qualification Tests – Chart IV

(a) Para. 9.9, Seal Test: Not applicable.

(b) Para. 9.10, Wiring: Not applicable.

(c) Para. 9.11, Vibration: Measurements and inspections shall be performed in accordance with Table 6 herein.

(d) Para. 9.12, Shock or Bump: Measurements and inspections shall be performed in accordance with Table 6 herein.

(e) Para. 9.13, Climatic Sequence: Measurements and inspections shall be performed in accordance with Table 6 herein.

(f) Para. 9.15, Joint Strength: Not applicable.

(g) Para. 9.16, Rapid Change of Temperature: Measurements and inspections shall be performed in accordance with Table 6 herein.

(h) Para. 9.17, Contact Retention (in Insert): For Variants 04, 05, 06: Not applicable.

(i) Para. 9.18, Endurance: For Variants 04, 05, 06: Not applicable.

(j) Para. 9.20, Mating and Unmating Forces: For Variants 04, 05, 06: Not applicable.

(k) Para. 9.21, High Temperature Storage:
- For Variants 01, 02, 03: Measurements and inspections shall be performed in accordance with Table 6 herein.
- For Variants 04, 05, 06: Not applicable.

(l) Para. 9.23, Insert Retention (in Shell): For Variants 04, 05, 06: Not applicable.

(m) Para. 9.24, Jackscrew Retention: Not applicable.

(n) Para. 9.25, High Temperature Measurement:
- For Variants 01, 02, 03: Measurements and inspections shall be performed in accordance with Table 6 herein.
- For Variants 04, 05, 06: Not applicable.

(o) Para. 9.26, Overload: Not applicable.

(p) Para. 9.27, Maintenance Aging: Not applicable.

(q) Para. 9.28, Engagement and Separation Forces: For Variants 04, 05, 06: Not applicable.

(r) Para. 9.29, Oversize Pin Exclusion: Not applicable.

(s) Para. 9.30, Probe Damage: Not applicable.

(t) 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. 9.10, Wiring: Not applicable.

(c) Para. 9.13, Climatic Sequence:
- For Variants 01, 02, 03: Measurements and inspections shall be performed in accordance with Table 6 herein.
- For Variants 04, 05, 06: Not applicable.

(d) Para. 9.15, Joint Strength: Not applicable.

(e) Para. 9.16, Rapid Change of Temperature:
- For Variants 01, 02, 03: Measurements and inspections shall be performed in accordance with Table 6 herein.
- For Variants 04, 05, 06: Not applicable.

(f) Para. 9.17, Contact Retention (in Insert): For Variants 04, 05, 06: Not applicable.

(g) Para. 9.18, Endurance: For Variants 04, 05, 06: Not applicable.

(h) Para. 9.27, Maintenance Aging: Not applicable.

(i) Para. 9.28, Engagement and Separation Forces: For Variants 04, 05, 06: Not applicable.

(j) Para. 9.29, Oversize Pin Exclusion: Not applicable.

(k) Para. 9.30, Probe Damage: Not applicable.

4.3 MECHANICAL REQUIREMENTS

4.3.1 Dimension Check

See Figure 2.

4.3.2 Weight

See Table 1(a).

4.3.3 Contact Capability

Only applicable to the male side of Variants 01, 02, 03:

	Pick-up Test	Drop Test
Weight (g)	14 ±1	170 ±1
Test Sleeve Inner Diameter (mm)	0.582 to 0.587	0.559 to 0.564
Insertion Depth (mm)	1.5 ±0.05	1.5 ±0.05

4.3.4 Contact Retention (in Insert)

Only applicable to the female side of Variants 01, 02, 03.

Applied force: 14.8N.

4.3.5 Mating and Unmating Forces (Variants 01, 02, 03 only)

Variant Number	Mating Force (N)	Unmating Force (N)	
	Max	Min	Max
01	5.6	0.4	5.6
02	11.2	0.8	11.2
03	22.4	1.6	22.4

4.3.6 Insert Retention (in Shell) (Variants 01, 02, 03 only)

Maximum load: 4N.

4.3.7 Engagement and Separation Forces

Only applicable to the male side of Variants 01, 02, 03:

	Minimum Diameter Test Sleeve Test	Maximum Diameter Test Sleeve Test
Engagement Force (N)	1.667 maximum	-
Separation Force (N)	-	0.14 minimum
Test Sleeve Inner Diameter (mm)	0.559 to 0.564	0.582 to 0.587
Insertion Depth (mm)	1.4 ±0.05	1.4 ±0.05

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.

(a) Body Shell:
- Variants 01, 02, 03: Aluminium alloy, gold plated 1µm minimum over nickel underplate 3µm minimum.
- Variants 04, 05, 06: Aluminium alloy, gold plated 2.54µm minimum over nickel underplate 25µm minimum.

(b) Centre Contact (Variants 01, 02, 03): Copper alloy, gold plated 1.27µm minimum over nickel underplate 1.27µm minimum.

Note: measurements of plating thickness shall be made at 1.5mm from the engagement end.

(c) Male plug connector front face, and connector to backshell interface EMI seals: Conductive silicone-base rubber.

(d) Insert (insulator) (Variants 01, 02, 03): PTFE.

(e) Locking devices: Passivated stainless steel.

4.5 MARKING

4.5.1 General

The marking shall be in accordance with the requirements of ESCC Basic Specification No. 21700 and as follows.

The information to be marked on the component or its primary package shall be:

(a) The ESCC qualified components symbol (for ESCC qualified components only).

(b) The ESCC Component Number.

(c) Traceability Information.

4.5.2 The ESCC Component Number

The ESCC Component Number shall be constituted as follows:

Example: 340109001B

- Detail Specification Reference: 3401090
- Component Type Variant Number (see Table 1(a)): 01 (as required)
- Testing Level: B

4.6 ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE (VARIANTS 01, 02, 03 ONLY)

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 ±3°C.

TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE (VARIANTS 01, 02, 03 ONLY)

Characteristics	Symbols	Test Method and Conditions	Limits		Units
			Min	Max	
Insulation Resistance	R_I	ESCC No. 3401 V = 500Vdc	5	-	GΩ
Voltage Proof Leakage Current	I_{VPL}	V = 600Vrms	-	2	mA
Contact Resistance (Low Level Current)	R_{CL}	ESCC No. 3401	-	12	mΩ
Contact Resistance (Rated Current)	R_{CR}	ESCC No. 3401	-	10	mΩ
Mated Shell Conductivity	R_M	ESCC No. 3401	-	5	mΩ

TABLES 3, 4, 5

Not applicable

4.7 ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION No. 3401)

The parameters to be measured and inspections to be performed on completion of environmental and endurance testing shall be those specified in Table 6.

Unless otherwise specified, the measurements shall be performed at T_{amb} = +22 ±3°C

Unless otherwise specified, test methods and test conditions shall be as per the corresponding test defined in Table 2

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

ESCC Generic Spec. No. 3401		Measurements and Inspections (2)		Symbol	Limits		Unit
Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min	Max	
Vibration	Para. 9.11	**Initial Measurements**					
		Coupling Screws Unlocking Torque	ESCC 3401	Tqe	Record Values		
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Measurements during Vibration					
		Monitor Contact Disturbance	ESCC 3401	-	-	1	µs
		Final Measurements					
		Coupling Screws Unlocking Torque Drift	ESCC 3401	ΔTqe/Tqe	-25	+25	% (3)
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Voltage Proof Leakage Current Drift	Table 2	ΔI_{VPL}	-	+25	% (3)
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Low Level Contact Resistance Drift	Table 2	ΔR_{CL}	-	+25	% (3)
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Mated Shell Conductivity Drift	Table 2	ΔR_M	-	+25	% (3)
		Visual Examination	ESCC 3401	-	-	-	

ESCC Generic Spec. No. 3401		Measurements and Inspections (2)		Symbol	Limits		Unit
Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min	Max	
Shock or Bump	Para. 9.12	**Initial Measurements** (4)					
		Coupling Screws Unlocking Torque	ESCC 3401	Tqe	Record Values		
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Measurements during Vibration					
		Monitor Contact Disturbance	ESCC 3401	-	-	1	µs
		Final Measurements					
		Coupling Screws Unlocking Torque Drift	ESCC 3401	ΔTqe/Tqe	-25	+25	% (3)
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Voltage Proof Leakage Current Drift	Table 2	ΔI_{VPL}	-	+25	% (3)
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Low Level Contact Resistance Drift	Table 2	ΔR_{CL}	-	+25	% (3)
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Mated Shell Conductivity Drift	Table 2	ΔR_M	-	+25	% (3)
		Visual Examination	ESCC 3401	-	-	-	
Climatic Sequence (5)	Para. 9.13	**Initial Measurements** (4)					
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Dry Heat					
		Insulation Resistance	Table 2 (at T_{amb} = +125°C)	R_i	5	-	GΩ
		Low Air Pressure					
		Voltage Proof Leakage Current	100Vrms	I_{VPL}	-	1	mA
		Damp Heat					
		Insulation Resistance	Table 2	R_i	100	-	MΩ
		Final Measurements					
		External Visual Inspection	ESCC 3401	-	-		
		Insulation Resistance	Table 2	R_i	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
Plating Thickness	Para. 9.14	Plating Thickness	-	-	Para. 4.4		

ESCC Generic Spec. No. 3401		Measurements and Inspections (2)		Symbol	Limits		Unit
Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min	Max	
Rapid Change of Temperature (5)	Para. 9.16	**Initial Measurements**					
		Visual Examination	ESCC 3401	-	-		
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Final Measurements					
		Visual Examination	ESCC 3401	-	-		
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
Contact Retention (in Insert) (5)	Para. 9.17, and Para. 4.3.4 herein	Contact axial displacement	ESCC 3401	-	ESCC 3401		
Endurance (5)	Para. 9.18	**Initial Measurements**					
		Mating and Unmating Forces	ESCC 3401	-	Para. 4.3.5		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Final Measurements					
		Visual Examination	ESCC 3401	-	-	-	
		Mating and Unmating Forces	-	-	Para. 4.3.5		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Low Level Contact Resistance Drift	Table 2	ΔR_{CL}	-	3	mΩ
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
Permanence of Marking	Para. 9.19	-	-	-	-		
Mating and Unmating Forces (5)	Para. 9.20 and Para. 4.3.5 herein	Mating and Unmating Forces	ESCC 3401	-	Para. 4.3.5		

ESCC Generic Spec. No. 3401		Measurements and Inspections (2)		Symbol	Limits		Unit
Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min	Max	
High Temperature Storage (5)	Para. 9.21	**Initial Measurements**					
		Visual Examination	ESCC 3401	-	-		
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Rated Current Contact Resistance	Table 2	R_{CR}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Final Measurements					
		Visual Examination	ESCC 3401	-	-		
		Mating and Unmating Forces	-	-	Para. 4.3.5		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Low Level Contact Resistance Drift	Table 2	ΔR_{CL}	-	3	mΩ
		Rated Current Contact Resistance	Table 2	R_{CR}	Table 2		
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Contact Retention (in insert)	ESCC 3401	-	Para. 4.3.4		
Corrosion	Para. 9.22	Visual Examination	ESCC 3401	-	-	-	
Insert Retention (in Shell) (5)	Para. 9.23 and Para. 4.3.6 herein	Visual Examination	ESCC 3401	-	ESCC 3401		
High Temperature Measurements (5)	Para. 9.25	**Initial Measurements**					
		Visual Examination	ESCC 3401	-	-		
		Insulation Resistance	Table 2	R_I	Table 2		
		Voltage Proof Leakage Current	Table 2	I_{VPL}	Table 2		
		Low Level Contact Resistance	Table 2	R_{CL}	Table 2		
		Rated Current Contact Resistance	Table 2	R_{CR}	Table 2		
		Mated Shell Conductivity	Table 2	R_M	Table 2		
		Measurement at High Temperature Insulation Resistance	Table 2 (at T_{amb} = +125°C)	R_i	5	-	GΩ
Engagement and Separation Forces (5)	Para. 9.28 and Para. 4.3.7 herein	Engagement and Separation Forces	ESCC 3401	-	Para. 4.3.7		

NOTES:

1. The tests in this Table refer to either Chart IV or V and shall be used as applicable.
2. For Variants 04, 05, 06, with the exception of Coupling Screws Unlocking Torque, mechanical and electrical measurements shall not be performed for all applicable tests.
3. Parameter Drift referred to the initial measurement prior to the test in question.
4. The final measurements from the previous test may be used as initial values.
5. Test applicable to Variants 01, 02, 03 only.