

Page 1 of 25

RF COAXIAL CONNECTORS, TYPE SSMA, ADAPTORS AND CONNECTING PIECES

ESCC Detail Specification No. 3402/006

Issue 3 March 2018





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DCR No.	CHANGE DESCRIPTION
1100	Specification upissued to incorporate changes per DCR.



ESCC Detail Specification

No. 3402/006

PAGE 4

ISSUE 3

TABLE OF CONTENTS

1	GENERAL	6
1.1	SCOPE	6
1.2	TYPE VARIANTS	6
1.3	MAXIMUM RATINGS	6
1.4	PARAMETER DERATING INFORMATION (FIGURE 1)	6
1.5	PHYSICAL DIMENSIONS	6
1.6	STANDARD TEST CONNECTOR INTERFACE	6
2	APPLICABLE DOCUMENTS	14
3	TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS	14
4	REQUIREMENTS	14
4.1	GENERAL	14
4.2	DEVIATIONS FROM GENERIC SPECIFICATION	14
4.2.1	Deviations from Special In-process Controls	14
4.2.2	Deviations from Final Production Tests (Chart II)	14
4.2.3	Deviations from Burn-in and Electrical Measurements (Chart III)	14
4.2.4	Deviations from Qualification Tests (Chart IV)	14
4.2.5	Deviations from Lot Acceptance Tests (Chart V)	14
4.3	MECHANICAL REQUIREMENTS	14
4.3.1	Dimension Check	14
4.3.2	Weight	15
4.3.3	Coupling Proof Torque	15
4.3.4	Cable Retention Force	15
4.3.5	Mating and Unmating Forces	15
4.3.6	Endurance	15
4.3.7	Residual Magnetism	15
4.3.7.1	Beryllium copper, copper underplate, gold-plated connectors.	15
4.3.7.2	Beryllium copper, nickel underplate, gold-plated connectors.	15
4.3.7.3	Stainless steel connectors	15
4.3.8	Contact Insertion and Withdrawal Forces	15
4.3.9	Contact Retention	16
4.4	MATERIALS AND FINISHES	16
4.4.1	Gold Plated Versions	16
4.4.1.1	Normal Types	16
4.4.1.2	Hermetic Types	16
4.4.2	Stainless Steel Versions	16
4.5	MARKING	17



ESCC Detail Specification

PAGE 5

ISSUE 3

No. 3402/006

	17
ber	17

4.5.1	General	17
4.5.2	The ESCC Component Number	17
4.5.3	Characteristics	17
4.5.3.1	Type of Plating/Material	17
4.5.3.2	Subvariants	17
4.5.4	Traceability Information	17
4.6	ELECTRICAL MEASUREMENTS	18
4.6.1	Electrical Measurements at Room Temperature	18
4.6.2	Electrical Measurements at High and Low Temperatures (Table 3)	18
4.6.3	Circuits for Electrical Measurements	18
4.7	BURN-IN TESTS (TABLES 4 AND 5)	18
4.8	ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION NO. 3402)	18
4.8.1	Measurements and Inspections on Completion of Environmental Tests	18
4.8.2	Measurements and Inspections at Intermediate Points during Endurance Tests	18
4.8.3	Measurements and Inspections on Completion of Endurance Tests	18
4.8.4	Conditions for Operating Life Tests (Part of Endurance Testing)	18
4.8.5	Electrical Circuits for Operating Life Tests	18
486	Conditions for High Temperature Storage Test (Part of Endurance Testing)	19



1 GENERAL

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for RF Coaxial Connectors, Type SSMA, Adaptors and Connecting Pieces. It shall be read in conjunction with ESCC Generic Specification No. 3402, the requirements of which are supplemented herein.

1.2 TYPE VARIANTS

A list of the type variants of the connectors specified herein, which are also covered by this specification, is given in Table 1(a).

For each type variant, the full electrical and physical characteristics are given in individual Figures 2(b) at the end of this specification.

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 as scheduled in Table 1(b).

1.4 PARAMETER DERATING INFORMATION (FIGURE 1)

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

1.5 PHYSICAL DIMENSIONS

The physical dimensions of the connectors specified herein are shown in Figures 2(a) and 2(b).

1.6 STANDARD TEST CONNECTOR INTERFACE

Whenever gauges are required for mating with the connectors under test, their physical dimensions shall be in accordance with those specified in Figure 3.



TABLE 1(a) - TYPE VARIANTS

Variant	Description
01	Straight Adaptor, Male - Male
02	Straight Adaptor, Male - Female
03	Straight Adaptor, Female - Female
08	T-Adaptor, Female - Female/Female

NOTES

- The Variants are described in Figure 2(b). For finishes, see Para. 4.4.
- 2.

TABLE 1(b) - MAXIMUM RATINGS

No.	Characteristics	Symbol	Maximum Ratings	Unit	Remarks
1	Peak Power at +25°C	Pmax	1	kW	1µs max
2	Power	Р	0.8	kW	See Figures 1(a) and 1(b)
3	Nominal Impedance	Z	50	Ω	-
4	Frequency Range	f	See Figure 2(b)	GHz	-
5	Voltage Rating	U _R	See Figure 2(b) (Voltage Proof)	Vrms	See Figure 1(c)
6	Operating Temperature Range	Тор	See Figure 2(b)	°C	-
7	Storage Temperature Range	T _{stg}	As per Operating Temperature Range	°C	-



FIGURE 1 - PARAMETER DERATING INFORMATION

FIGURE 1(a) - POWER VERSUS TEMPERATURE

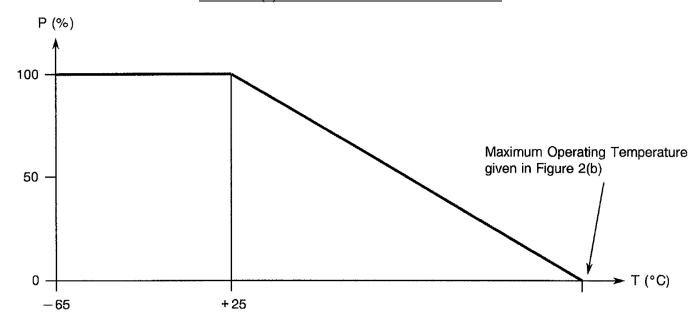
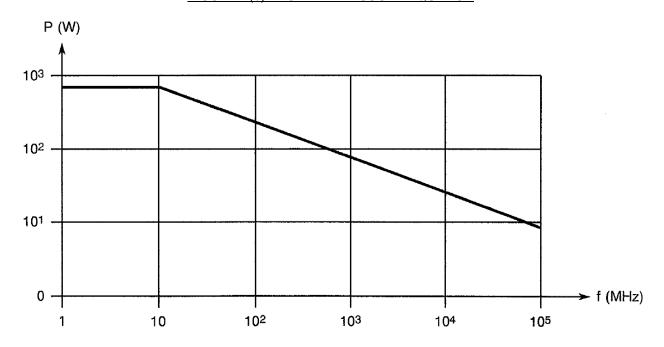


FIGURE 1(b) - POWER VERSUS FREQUENCY



POWER (VSWR in line 1) at T_{amb} = +40°C.



FIGURE 1 – PARAMETER DERATING INFORMATION (CONTINUED)

FIGURE 1(c) - VOLTAGE DERATING AT LOW AIR PRESSURE

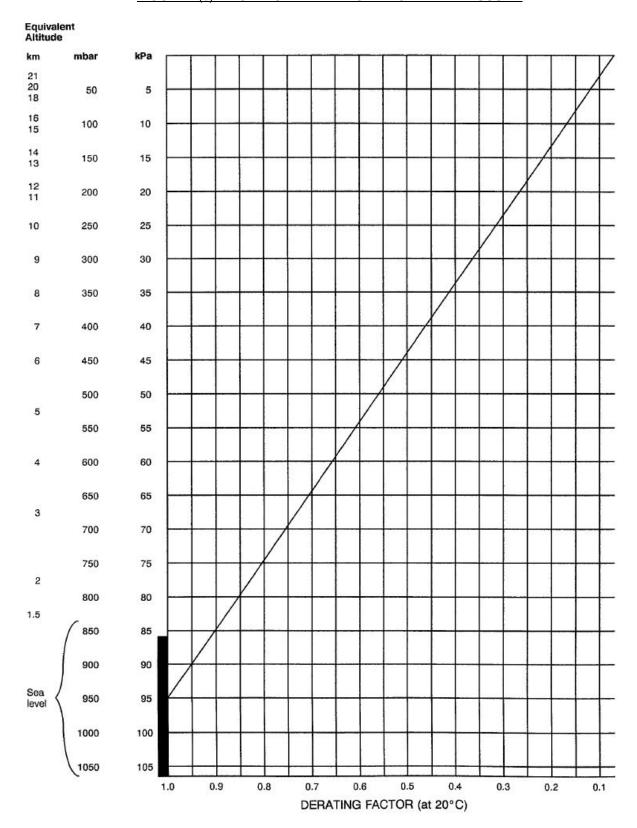
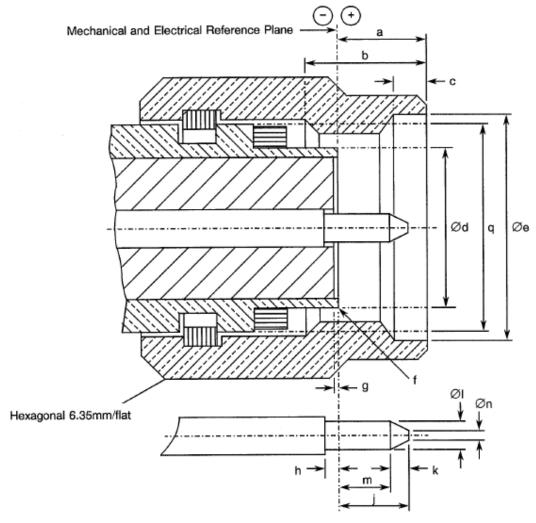




FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(a) - CONNECTOR INTERFACE - MALE CONTACT



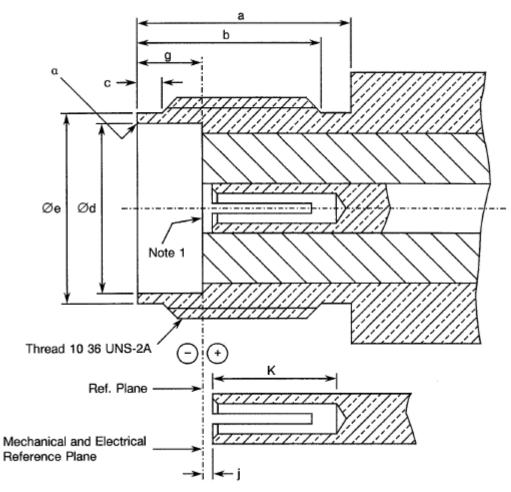
Symbol	Millime	etres	Notes
Symbol	Min.	Max.	Notes
а	-	3.43	
b	2.54	-	
С	0.38	1.14	
Ød	•	3.22	
Øe	4.98	-	
f	-	0.08	Radius or 45° chamfer
g	+0	-0.18	
h	0	-	
j	•	1.65	
k	0.2	-	
ØI	0.495	0.528	

Symbol	Millim	Notes	
Symbol	Min.	Max.	Notes
m	1 -		
Øn	- 0.25		
q	10-36 UNS 2B		Thread



FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(a) - CONNECTOR INTERFACE - FEMALE CONTACT

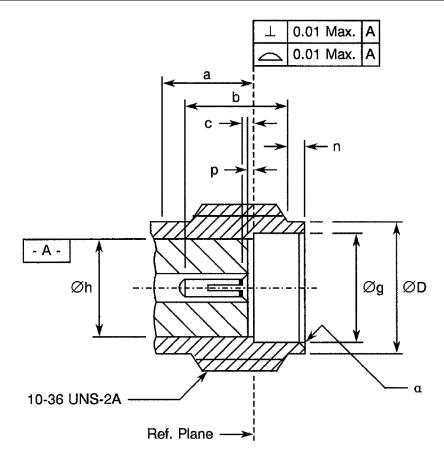


Symbol	Millimetres		Notes
	Min.	Max.	Notes
а	3.56	-	
b	4.32	-	
С	0.38	1.14	
Ød	3.23	3.3	
Øe	3.89	4.06	
g	1.88	1.98	
j	0	0.41	
K	2.92	-	
α	-	0.13	45° Chamfer, no sharp edge

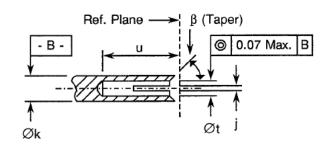
Face position relative to reference plane shall be within the limits of +0mm to -0.18mm.



FIGURE 3 - STANDARD TEST CONNECTOR INTERFACE, FEMALE CONTACT



DETAIL OF INNER CONTACT



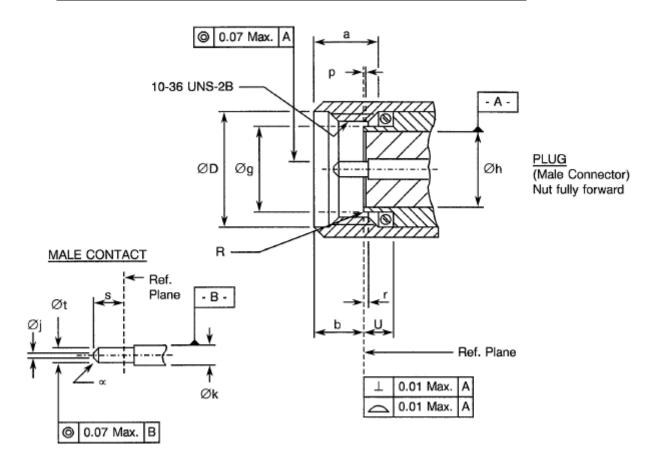
NOTES

- 1. Choose to give required performance.
- 2. Dimension to meet reflection factor requirement mating characteristics and conductor durability when mated with a 0.498/0.518Ø pin.

Cumbal	Millimetres		Notes	
Symbol	Min	Max	Notes	
а	3.89	-		
b	3.81	-		
С	0	0.076	Contact recess	
ØD	3.89	4.04		
Øg	3.23	3.28		
Øh	2.79 NOM.			
j	0.15	0.2	4 slots	
Øk			Note 1	
n	0.38	1.14		
р	0	0.05	Insert recess	
u	3.03	3.3		
Øt			Note 2	
α	-	0.13	45° Chamfer	
β			42/45° Chamfer	



FIGURE 3 - STANDARD TEST CONNECTOR INTERFACE, MALE CONTACT



O. made al	Millimetres		Notes	
Symbol	Min	Max	Notes	
а	2.54	4.32		
b	2.59	3.35		
ØD	5.05	5.21		
Øg	3.17	3.22		
Øh	2.79	NOM.		
Øj	-	0.25	Flat	
Øk	-	-	Note 1	
р	0	0.05	Insert recess	
r	0	0.076	Contact recessed	
R	-	0.08	Radius or chamfer	
S	1.4	1.65		
Øt	0.498	0.518		
U	2.03	-		
α	-	-	45° ±3° Chamfer	

NOTES

1. Choose to give required performance.



2 APPLICABLE DOCUMENTS

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

- (a) ESCC Generic Specification No. 3402 for RF Coaxial Connectors.
- (b) MIL-G-45204, Gold Plating, Electrodeposited.

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

4.2.2

The complete requirements for procurement of the connectors specified herein are stated in this specification and ESCC Generic Specification No. 3402. 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> None.

Deviations from Final Production Tests (Chart II)

(a) Para. 9.4, Coupling Proof Torque: shall not be performed on connectors with a female contact (only during Chart II).

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

(a) Chart III is not applicable.

4.2.4 Deviations from Qualification Tests (Chart IV)

- (a) Para. 9.14, Cable Retention Force: Not applicable.
- (b) Para. 9.15, Cabling and Crimping Capability: Not applicable.
- (c) Para. 9.22, Soldering Proof: Not applicable.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)

- (a) Para. 9.14, Cable Retention Force: Not applicable.
- (b) Para. 9.15, Cabling and Crimping Capability: Not applicable.

4.3 MECHANICAL REQUIREMENTS

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. 9.25 of ESCC Generic Specification No. 3402 and shall conform to those shown in Figures 2(a) and 2(b) of this specification.



4.3.2 Weight

The maximum weight of the connectors specified herein shall be as specified in Figure 2(b).

4.3.3 Coupling Proof Torque

The requirements for testing of the coupling proof torque are specified in Section 9 of ESCC Generic Specification No. 3402. The applied torque shall be 110N.cm.

4.3.4 Cable Retention Force

Not applicable.

4.3.5 Mating and Unmating Forces

The applicable measurement requirements are specified in Section 9 of ESCC Generic Specification No. 3402. The maximum torque during mating and unmating shall not exceed 12N.cm.

Whenever a test is performed on mated pairs of connectors, the pairs shall be torqued at 60-80N.cm.

4.3.6 Endurance

The applicable test requirements are specified in Section 9 of ESCC Generic Specification No. 3402. The test conditions shall be as follows:

(a) Number of cycles: 500 for qualification; 100 for lot acceptance.

(b) Rate: 12 cycles maximum/minute.

4.3.7 Residual Magnetism

The applicable measurement requirements are specified in Section 9 of ESCC Generic Specification No. 3402.

Beryllium copper, copper underplate, gold-plated connectors. 4.3.7.1

The maximum allowable value shall not exceed 20 gammas.

4.3.7.2 Beryllium copper, nickel underplate, gold-plated connectors.

There are no requirements in respect of residual magnetism. This version is made such that the residual magnetism does not exceed 2000 gammas.

4.3.7.3 Stainless steel connectors

Residual magnetism is not applicable to stainless steel versions.

4.3.8 Contact Insertion and Withdrawal Forces

The requirements for these measurements are specified in Section 9 of ESCC Generic Specification No.3402 and apply to female contacts only.

(a) Oversize Pin

Steel test pin diameter: 0.528/0.533 mm.

Insertion depth: 1.35 mm max. Number of insertions: 3.

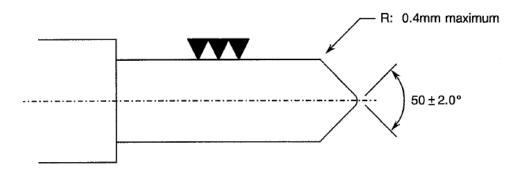
Withdrawal Force Test (Minimum Diameter Test Pin) (b)

Steel test pin diameter: 0.492/0.495 mm.

Insertion depth: 1.25 mm min. Withdrawal force: 25g min.



FIGURE 4 - TEST PIN CONFIGURATION



4.3.9 Contact Retention

The requirements for this test are specified in Section 9 of ESCC Generic Specification No. 3402. The test conditions are given in Figure 2(b). After testing, the connector interface dimensions shall be within the limits of Figure 2(a).

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 connectors 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 Gold Plated Versions

4.4.1.1 Normal Types

(a) Shell, Coupling Nut, Centre Contact

Material : Beryllium copper.

Underplate : Nickel, 2μm minimum, or copper, 2.5μm minimum.Plating : Gold, 2.5μm minimum, Class 2, Type 2 of MIL-G-45204.

(b) Inserts

Material : PTFE.

Baking conditions : 10 cycles (-10, +55°C). 1 cycle = 15 minutes minimum at each

temperature with 5 minutes maximum transfer time.

(c) Gaskets

Material : Silicone rubber.

(d) Accessories (ferrule, crimping sleeve and nut)

Material : Brass.

Underplate : Nickel, 2μm minimum, or copper, 2.5μm minimum.Plating : Gold, 2.5μm minimum, Class 2, Type 2 of MIL-G-45204.

4.4.1.2 Hermetic Types

Not applicable.

4.4.2 Stainless Steel Versions

Not applicable.



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) Electrical Characteristics and Ratings.
- (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: 340200603B

Detail Specification Number: 3402006
Type Variant (see Table 1(a)): 03
Testing Level (B or C, as applicable): B

4.5.3 Characteristics

Each component shall be marked in respect of:

- (a) Type of plating/material.
- (b) Subvariant.

The information shall be constituted and marked as follows:

Example: 101

Plating/Material Type: 1

Subvariant: 01

4.5.3.1 Type of Plating/Material

The type of plating/material shall be identified by means of the following codes:

Code	Type of Plating/Material	Para.
1	Gold plate, copper underplate	4.4.1
2	Gold plate, nickel underplate	4.4.1

4.5.3.2 Subvariants

Subvariants are identified by 2 digits and are specified where applicable in Figure 2(b). When no subvariant is shown, the 2 digits shall be '01'.

4.5.4 Traceability Information

Each component shall be marked in respect of traceability information in accordance with the requirements of ESCC Basic Specification No. 21700.

No. 3402/006 ISSUE 3

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 $T_{amb} = +22 \pm 3^{\circ}C$.

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

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

TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE

No	Characteristics	Cumbal	Spec. and/or test Test Conditions		Lin	nits	Linit
No.	Characteristics	Symbol	Method	rest Conditions	Min.	Max.	Unit
1	Insulation Resistance	Ri	ESCC 3402, Para. 9.1	500 Vdc	5000	-	МΩ
2	Voltage Proof	Vp	ESCC 3402, Para. 9.2	-	See	Figure 2	2(b)

TABLES 3, 4 AND 5

Not applicable.

4.8 <u>ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION NO. 3402)</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 tests are scheduled in Table 6 of this. specification. Unless otherwise stated, the 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 tests are scheduled in Table 6 of this specification. Unless otherwise stated, the measurements shall be performed at $T_{amb} = +22 \pm 3^{\circ}C$.

- 4.8.4 <u>Conditions for Operating Life Tests (Part of Endurance Testing)</u>
 Not applicable.
- 4.8.5 <u>Electrical Circuits for Operating Life Tests</u> Not applicable.



S ISSUE 3

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. 3402. The conditions for high temperature storage shall be the maximum operating temperature as specified in Figure 2(b).

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

No.	ESCC Generic Spe	c. No. 3402	Measureme	nts and Inspections	Symbol	Limits		Units
	Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min.	Max.	
01	Coupling Proof Torque	Para. 9.4	Final Measurements					
			Interface Dimensions	-	-	Figure	e 2(a)	-
			Visual Examination	Para 9.4 of ESCC 3402	-	-	-	-
02	Mating and Unmating	Para. 9.5	During Test					
	Forces		Torque	Para. 4.3.5	-	-	12	N.cm
03	Seal Test	Para. 9.7	Hermeticity	If applicable	-	-	1.10-8	cm ³ /s
			Leakage	As applicable	-	No Bu	ubbles	-
04	Contact Resistance	Para. 9.9	During Test					
		6V 10mA	Contact Resistance	Centre Contact	-	-	6.5	mΩ
				Shell	-	-	2	mΩ
				Hermetic Centre Contact	-	1	N/A	mΩ
05	Vibration	Para. 9.10	During Test	Last Cycle in each direction				
		Full Engagement						
			Electrical	No open or short circuits	-	-	-	-
			Measurements					
			Final Measurements					
			Contact Resistance	Centre Contact (6V 10mA)	-	-	6.5	mΩ
			Visual Examination	No evidence of damage	-	-	-	-
06	Shock or Bump	Para. 9.11	Final Measurements					
			Contact Resistance	Centre Contact (6V 10mA)	-	-	6.5	mΩ
			Visual Examination	No evidence of damage	-	-	-	-
07	Rapid Change of	Para. 9.12	Final Measurements	After a recovery period of				
	Temperature			24 ±2hrs				
			Contact Resistance	Centre Contact (6V 10mA)	-	-	6.5	mΩ
			Voltage Proof	Table 2 Item 2	Vp	Figure	e 2(b)	-
			Visual Examination	-	-	•	-	-
08	Climatic Sequence	Para. 9.13	During Test	At Low Air Pressure				
			Voltage Proof	No flashover or breakdown				
			Final Measurements	After Final Damp Heat cycle				
				(within 1 to 24 hrs recovery)				
			Insulation Resistance	Table 2 Item 1	Ri	200	-	МΩ
			Voltage Proof	Table 2 item 2	Vp	Figure	e 2(b)	
			External Visual	Para. 9.8 of ESCC 3402	-	-	-	-
			Inspection					
09	Cable Retention Force		Not applicable	-	-	-	-	-
		Para. 4.3.4 of						
		this spec						



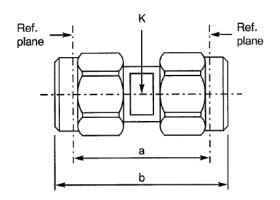
No.	ESCC Generic Spec	. No. 3402	Measureme	nts and Inspections	Symbol	Lin	nits	Units
	Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min.	Max.	
10	Cabling and Crimping Capability	Para. 9.15	Not applicable	-	-	i	-	-
11	VSWR or Reflection Coefficient	Para. 9.16	VSWR	Para. 9.16 of ESCC 3402	-	Figur	e 2(b)	-
12	Corona Level	Para. 9.17	Corona	Para. 9.17 of ESCC 3402	-	Figur	e 2(b)	-
13	Endurance	Para. 9.18 and	Final Measurements					
		Para. 4.3.6 of this spec.	Mating/Unmating Forces	Para. 4.3.5	-	-	12	N.cm
			Contact Resistance	Centre Contact (6V 10mA)	-	-	9	mΩ
				Shell (6V 10mA)	-	-	3	mΩ
				Hermetic Centre Contact	-	-	N/A	-
			Visual Examination	Para. 9.18 of ESCC 3402		ı	-	-
14	RF Insertion Loss	Para. 9.19	Insertion Loss	Para. 9.19 of ESCC 3402	-	Figur	e 2(b)	-
15	Corrosion	Para. 9.20	Visual Examination	Para. 9.20 of ESCC 3402 No exposure of base metal	-		-	-
16	Residual Magnetism	Para. 9.21	Magnetism	-	_	Para.	4.3.7	-
17	Soldering Proof	Para. 9.22	Not applicable	-	-	-	-	-
18	RF Leakage	Para. 9.23	Leakage	-	-	Figur	e 2(b)	-
19	High Temperature Storage	Para. 9.24 and	Final Measurements					
		Para. 4.8.6 of this spec.	Mating/Unmating Forces	Para. 4.3.5	-	-	12	N.cm
			Insulation Resistance	Table 2 Item 1	Ri	5000	-	ΜΩ
			Voltage Proof	Table 2 item 2	Vp	Figur	e 2(b)	-
			Contact Retention	Para. 4.3.9	-	Para.	4.3.9	-
			Visual Examination	-	-	-	-	-
			Contact Resistance	Centre Contact	-	-	18	mΩ
				Shell	-	-	7.5	mΩ
				Hermetic Centre Contact	_	-	N/A	mΩ
			External Visual Inspection	Para. 9.8 of ESCC 3402	-	-	-	-

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



FIGURE 2(b) - VARIANTS

VARIANT 01 - STRAIGHT ADAPTOR, MALE - MALE



C: reals al	Millimetres		Notes
Symbol	Min.	Min. Max.	
а	16.3 1		
b	21.7		
К	-	-	4 flats

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency range	0 to 18	GHz
Maximum voltage standing wave ratio (VSWR)	1.05 + 0.03 f (GHz)	
Maximum reflection coefficient	0.024 + 0.011 f (GHz)	
Maximum insertion loss	0.03 √f (GHz)	dB
RF leakage	-[95 - f (GHz)]	dB
Voltage proof	750	Vrms
Corona level	Not applicable	Vrms

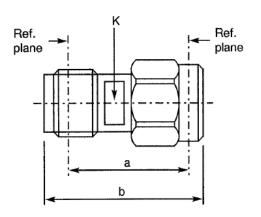
MECHANICAL CHARACTERISTICS	VALUES	UNITS
Mini centre contact retention force (axial)	22	N
Mini centre contact retention torque	Not applicable	N.cm
Mini cable retention force	Not applicable	N
Mini cable retention torque value	Not applicable	N.cm
Maximum weight	3.2	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid change of temperature - peak value	+115	°C
Operating temperature range	-65 to +105	°C
Maxi leakage (panel sealed connectors)	Not applicable	
Maxi leakage (hermetic sealed connector)	Not applicable	
Solderability	Not applicable	
Soldering proof	Not applicable	
Cables used	Not applicable	



FIGURE 2(b) - VARIANTS (CONTINUED)

VARIANT 02 - STRAIGHT ADAPTOR, MALE - FEMALE



Symbol	Millimetres		Notes	
Symbol	Min.	Max.	Notes	
а	13.3 NOM.			
b	18 NOM.			
K			4 flats	

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency range	0 to 18	GHz
Maximum voltage standing wave ratio (VSWR)	1.05 + 0.03 f (GHz)	
Maximum reflection coefficient	0.024 + 0.011 f (GHz)	
Maximum insertion loss	0.03 √f (GHz)	dB
RF leakage	-[95 - f (GHz)]	dB
Voltage proof	750	Vrms
Corona level	Not applicable	Vrms

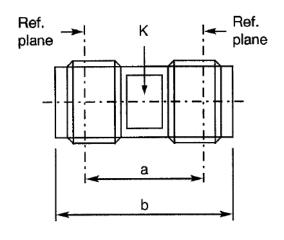
MECHANICAL CHARACTERISTICS	VALUES	UNITS
Mini centre contact retention force (axial)	22	N
Mini centre contact retention torque	Not applicable	N.cm
Mini cable retention force	Not applicable	N
Mini cable retention torque value	Not applicable	
Maximum weight	2.5	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid change of temperature - peak value	+115	°C
Operating temperature range	-65 to +105	°C
Maxi leakage (panel sealed connectors)	Not applicable	
Maxi leakage (hermetic sealed connector)	Not applicable	
Solderability	Not applicable	
Soldering proof	Not applicable	
Cables used	Not applicable	



FIGURE 2(b) - VARIANTS (CONTINUED)

VARIANT 03 - STRAIGHT ADAPTOR, FEMALE - FEMALE



Cumhal	Millimetres		Notes
Symbol	Min.	Max.	Notes
а	11.7 NOM.		
b	15.5 NOM.		
K			4 flats

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency range	0 to 18	GHz
Maximum voltage standing wave ratio (VSWR)	1.05 + 0.03 f (GHz)	
Maximum reflection coefficient	0.024 + 0.011 f (GHz)	
Maximum insertion loss	0.03 √f (GHz)	dB
RF leakage	- [95 - f (GHz)]	dB
Voltage proof	750	Vrms
Corona level	Not applicable	Vrms

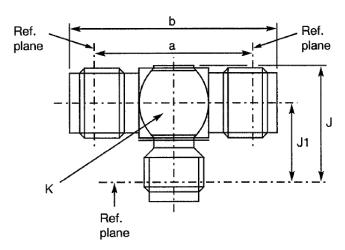
MECHANICAL CHARACTERISTICS	VALUES	UNITS
Mini centre contact retention force (axial)	22	N
Mini centre contact retention torque	Not applicable	N.cm
Mini cable retention force	Not applicable	N
Mini cable retention torque value	Not applicable	N.cm
Maximum weight	1.1	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid change of temperature - peak value	+115	°C
Operating temperature range	-65 to +105	°C
Maxi leakage (panel sealed connectors)	Not applicable	
Maxi leakage (hermetic sealed connector)	Not applicable	
Solderability	Not applicable	
Soldering proof	Not applicable	
Cables used	Not applicable	



FIGURE 2(b) - VARIANTS (CONTINUED)

VARIANT 08 - T-ADAPTOR, FEMALE - FEMALE/FEMALE



Symbol	Millimetres		Notes
Syllibol	Min.	Max.	
а	13.2 NOM.		
b	17 NOM.		
J	9 NOM.		
J1	6.6 NOM.		
K	-	-	4 flats,
			cube
			shape

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency range	0 to 18	GHz
Maximum voltage standing wave ratio (VSWR)	Not applicable	
Maximum reflection coefficient	Not applicable	
Maximum insertion loss	Not applicable	dB
RF leakage (1)	- [100 - f (GHz)]	dB
Voltage proof	750	Vrms
Corona level	Not applicable	Vrms

NOTES

1. For information only.

MECHANICAL CHARACTERISTICS	VALUES	UNITS
Mini centre contact retention force (axial)	22	N
Mini centre contact retention torque	Not applicable	N.cm
Mini cable retention force	Not applicable	N
Mini cable retention torque value	Not applicable	N.cm
Maximum weight	2	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid change of temperature - peak value	+200	°C
Operating temperature range	-55 to +155	°C
Maxi leakage (panel sealed connectors)	Not applicable	
Maxi leakage (hermetic sealed connector)	Not applicable	
Solderability	Not applicable	
Soldering proof	Not applicable	
Cables used	Not applicable	