

Förderverein für Elektrotechnische Normung (FEN) e. V.  
Cenelec Electronic Components Committee

**CECC**

Système Harmonisé d'Assurance de la Qualité  
des Composants Electroniques

SPECIFICATION PARTICULIERE:

**CONNECTEURS COAXIAUX  
POUR FREQUENCE  
RADIOELECTRIQUE  
Série BNC**

Harmonized System of Quality Assessment for  
Electronic Components

DETAIL SPECIFICATION:

**RADIO FREQUENCY  
COAXIAL CONNECTORS  
Series BNC**

Harmonisiertes Gütebestätigungssystem für  
Bauelemente der Elektronik

BAUARTSPEZIFIKATION:

**HOCHFREQUENZ-  
KOAXIAL-STECKVERBINDER  
Serie BNC**



**1**

Edition  
Issue  
Ausgabe

**CECC 22121-809**

1985

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**PREFACE**

This detail specification (DS) was prepared by CECC Group 22: 'RF Connectors'.

It relates to Series BNC connectors covered by sectional specification CECC 22 120 and by blank detail specification CECC 22 121. These in turn are related to the generic specification CECC 22 000.

The text of this DS was circulated to the CECC for voting in the document detailed below and was ratified by the President of the CECC for printing as a CECC specification.

| <u>Document</u>       | <u>Voting Date</u> | <u>Report on the Voting</u> |
|-----------------------|--------------------|-----------------------------|
| CECC(Secretariat)1354 | August 1983        | CECC(Secretariat)1470       |

| <b>[1]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | page 1<br>of 5...                  | <b>[2]</b><br>CECC 22 121- 809 |                   |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|-------------------|-------|------------------------|-------------------|--|--|-------------|--|-----|----|---------|----|-------------------|--|--|--|--|-----|-----|--|----|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ELECTRONIC COMPONENT OF ASSESSED <b>[3]</b><br>QUALITY IN ACCORDANCE WITH<br>GENERIC SPECIFICATION CECC 22 000...<br>SECTIONAL SPECIFICATION CECC 22 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>[4]</b><br>.....<br>Issue ..... |                                |                   |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <b>[5] DETAIL SPECIFICATION for</b><br><div style="text-align: center;"><b>RADIO FREQUENCY COAXIAL CONNECTOR</b></div> <div style="text-align: center;"><b>OF ASSESSED QUALITY</b></div> <div style="text-align: center; margin-top: 10px;"><b>SERIES BNC</b></div> <div style="text-align: center;">Socket single hole fixing front mounting</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           Style: ..... solder bucket .....<br/>           Function: .....<br/>           Mass ..15g... (max.)         </div> <div style="width: 45%;">           Special Features: Panel and barrier<br/>           sealed .....<br/>           .....         </div> </div>                                                                                                                                                                                         |                                    |                                |                   |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <b>[6]</b><br>Assessment level : ..... H .....<br>Climatic category: ..... 55/155/21 .....<br>Characteristic impedance: 50 Ω<br>Assessment level variation(s) : .....<br>.....<br>.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |                                |                   |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <b>[7] Outline and maximum dimensions</b> <div style="clear: both;"></div> <div style="text-align: center;"> <p style="text-align: center;">Solder bucket to accommodate<br/>1,5 mm max. conductor</p> <p style="text-align: center;">12,7 across flats</p> <p style="text-align: center;">3/8"-32 UNEF-2A</p> <p style="text-align: center;">19,3 max.</p> <p style="text-align: center;">34 max.</p> <p style="text-align: center;">8,51<br/>8,31</p> <p style="text-align: center;">Ref. Plane</p> <p style="text-align: center;">Section A-A</p> <p style="text-align: center;">Ø 9,5 +0,15<br/>0</p> <p style="text-align: center;">8,55 +0,1<br/>-0,05</p> </div> <p style="text-align: right;">IEC 169-8</p> <p>The maximum envelope dimensions are in accordance with IEC 169-8<br/>with the exception that IEC 169-8 indicates one fixing thread flat only</p>                                        |                                    |                                |                   |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| <b>[8] Variants*</b><br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Variant Number</th> <th rowspan="2">Description of Variant</th> <th colspan="3">Relevant Cable(s)</th> </tr> <tr> <th>Body finish</th> <th></th> <th>IEC</th> <th>RG</th> <th>URM(UK)</th> </tr> </thead> <tbody> <tr> <td>Ag</td> <td>Non tarnish alloy</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-01</td> <td>-02</td> <td></td> <td>na</td> <td>na</td> <td>na</td> </tr> <tr> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> </tbody> </table> <p>* NOTE - All centre contacts to be gold plated.</p> |                                    |                                | Variant Number    |       | Description of Variant | Relevant Cable(s) |  |  | Body finish |  | IEC | RG | URM(UK) | Ag | Non tarnish alloy |  |  |  |  | -01 | -02 |  | na | na | na | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Variant Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    | Description of Variant         | Relevant Cable(s) |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Body finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    |                                | IEC               | RG    | URM(UK)                |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Ag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Non tarnish alloy                  |                                |                   |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| -01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -02                                |                                | na                | na    | na                     |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .....                              | .....                          | .....             | ..... | .....                  |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .....                              | .....                          | .....             | ..... | .....                  |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .....                              | .....                          | .....             | ..... | .....                  |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200: Qualified Products List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    |                                |                   |       |                        |                   |  |  |             |  |     |    |         |    |                   |  |  |  |  |     |     |  |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

## [9] PROPERTIES (Ratings &amp; Characteristics - including limiting conditions of use)

| TEST                                           |                                           | CECC<br>22 120<br>PARA. | VALUE                         | REMARKS                                      |
|------------------------------------------------|-------------------------------------------|-------------------------|-------------------------------|----------------------------------------------|
| <b>ELECTRICAL</b>                              |                                           |                         |                               |                                              |
| Nominal impedance                              |                                           |                         | 50Ω                           |                                              |
|                                                | <u>Variant No./</u><br><u>Designation</u> |                         |                               | <u>Measurement frequency</u><br><u>range</u> |
| Reflection factor                              | ..-01 to -02                              | 4.4.1                   | ..... na .....                | unmatched .....                              |
|                                                | .....                                     |                         | .....                         | .....                                        |
|                                                | .....                                     |                         | .....                         | .....                                        |
|                                                | .....                                     |                         | .....                         | .....                                        |
| + Proof voltage<br>at sea level                | -01 to -02                                | 4.4.5                   | 1,5<br>..... kV               | 860 to 1060 mbar                             |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
| + Proof voltage<br>at 20 km altitude           | -01 to -02                                | 4.6.5                   | 300<br>..... V                | 44 mbar                                      |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
| + Working voltage<br>at sea level              | -01 to -02                                |                         | 500<br>..... V                | 860 to 1060 mbar                             |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
| + Working voltage<br>at 20 km altitude         | -01 to -02                                |                         | 125<br>..... V                | 44 mbar                                      |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
| + R. F. high potential<br>withstanding voltage | -01 to -02                                | 4.4.7                   | ..... na<br>..... kV          |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
| Screening effectiveness                        | -01 to -02                                | 4.4.8                   | Z <sub>t</sub> ..... na ..... |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
| Discharge voltage<br>(corona)                  | ..-01 to -02                              | 4.4.9                   | ..... na<br>..... V           | extinction voltage                           |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |
|                                                | .....                                     |                         | .....                         |                                              |

+ Voltage values are r.m.s. values of a.c. at 50 - 60 Hz unless otherwise specified.

| TEST                                                                                         | CECC<br>22 120<br>PARA. | VALUE                                                                   | REMARKS                                 |
|----------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------|-----------------------------------------|
| <b>ELECTRICAL (continued)</b>                                                                |                         |                                                                         |                                         |
| Centre contact resistance                                                                    | 4.4.2                   | $\leq 2.5 \text{ m}\Omega$<br>$\leq 7.5 \text{ m}\Omega$                | Initial<br>After conditioning           |
| Outer conductor continuity                                                                   | 4.4.3                   | $\leq 2.5 \text{ m}\Omega$<br>$\leq 7.5 \text{ m}\Omega$                | Initial<br>After conditioning           |
| Insulation resistance                                                                        | 4.4.4                   | $\geq 5 \text{ G}\Omega$<br>$\geq 500 \text{ M}\Omega$                  | Initial<br>After conditioning           |
| <b>MECHANICAL</b>                                                                            |                         |                                                                         |                                         |
| Contact captivation<br>- axial force<br>- torsional force                                    | 4.5.2                   | 15 N<br>0.03 Nm                                                         |                                         |
| Effectiveness of clamping device against cable pulling                                       | 4.5.5<br>(1)            | na N<br>.....                                                           |                                         |
| Effectiveness of clamping device against cable torsion                                       | 4.5.5<br>(2)            | na Nm<br>.....                                                          |                                         |
| Tensile strength of coupling mechanism                                                       | 4.5.6                   | 300 N                                                                   |                                         |
| Engagement & separation<br>- axial force (insertion & withdrawal)<br>- torque (bayonet lock) | 4.5.4                   | $\leq 20 \text{ N}$<br>$\leq 0.25 \text{ Nm}$<br>$\leq 0.07 \text{ Nm}$ |                                         |
| Mechanical endurance                                                                         | 4.7.1                   | 500 operations                                                          |                                         |
| <b>ENVIRONMENTAL</b>                                                                         |                         |                                                                         |                                         |
| Bump                                                                                         | 4.6.2                   | na                                                                      |                                         |
| Vibration                                                                                    | 4.6.3                   | 98. m/s <sup>2</sup><br>10. to 500 Hz                                   | (10. g acceleration)                    |
| Shock                                                                                        | 4.6.4                   | na                                                                      |                                         |
| Climatic category                                                                            | 4.6.5                   | 55/155/21                                                               |                                         |
| Sealing<br>(panel and barrier sealed connectors)                                             | 4.6.8                   | 1 cm <sup>3</sup> /h max.                                               | 1000-1100 mbar<br>pressure differential |
| Sealing<br>(hermetically sealed connectors)                                                  | 4.6.9                   | na                                                                      | 1000-1100 mbar<br>pressure differential |

[10]

**Supplementary Information**

- **marking of the component:** in accordance with 2.4 of CECC 22 000.

| i) component identification | Variant No./<br>Designation | Identification |
|-----------------------------|-----------------------------|----------------|
|                             | -01                         | 22 121-809/01  |
|                             | -02                         | 22 121-809/02  |

- ii) identity of manufacturer .....  
 iii) manufacturing date, code, year/week .....

- **marking and contents of package:** in accordance with 2.5 and 2.5.1 of CECC 22 000.

- i) information prescribed in 2.4 of CECC 22 000 detailed above  
 ii) nominal characteristic impedance - unmatched style  
 iii) assessment level code letter - H  
 iv) any additional marking required - none

- **ordering information:** in accordance with 2.6 of CECC 22 000.

- **related documents:**

|             |                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------|
| CECC 22 000 | Generic specification for radio frequency connectors of assessed quality (and related documents, see 2.1 of CECC 22 000). |
| CECC 22 120 | Sectional specification for r.f. connectors Series BNC.                                                                   |

- **certified test records (RCE):** in accordance with 3.5 of CECC 22 000 (requirements to be included later).

- **structural similarity:** in accordance with 3.2 and 3.4 of CECC 22 000.

**[11] APPLICABLE TESTS FOR QUALITY CONFORMANCE INSPECTION & QUALIFICATION APPROVAL**

SERIES .ANC...

**ACCEPTANCE TESTS****GROUP A1**

Visual examination

**GROUP B1**

Outline dimensions

Compatibility mechanical

Engagement &amp; separation

Gauge retention force

Sealing (barrier seal)

Sealing (hermetic)

Voltage proof

CECC  
22 120  
para.

4.2

4.3.1

4.5.7

4.5.4

4.5.1

4.6.8

4.6.9

4.4.5

| LEVEL...H     |      |      |            |
|---------------|------|------|------------|
| Test Required | I.L. | AQL  | Period     |
| a             | S3   | 1,5% | Lot by Lot |
| a             | S3   | 4%   |            |
| a             | S3   | 1,5% |            |
| a             | S3   | 4%   |            |
| na            | na   | 1,5% |            |
| na            | na   | 4%   |            |
| a             | S3   | 4%   |            |

| LEVEL...      |      |     |        |
|---------------|------|-----|--------|
| Test Required | I.L. | AQL | Period |
|               |      |     |        |
|               |      |     |        |
|               |      |     |        |
|               |      |     |        |
|               |      |     |        |
|               |      |     |        |

**PERIODIC TESTS****GROUP C1 (d)**

Soldering

Insulation resistance

CECC  
22 120  
para.

4.6.1

4.4.4

| Test Required | I.L. | AQL | Period |
|---------------|------|-----|--------|
| a             | S3   | 4%  | 6mths. |
| a             | S3   | 4%  |        |

| Test Required | I.L. | AQL | Period |
|---------------|------|-----|--------|
|               |      |     |        |
|               |      |     |        |

**GROUP D1 (d)**

Mechanical tests on cable clamping device

Bending moment

Static load

Tensile strength of coupling mechanism

CECC  
22 120  
para.

4.5.5

4.5.9

4.5.3

4.5.6

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period  |
|---------------|----------------------------|---------------------|---------|
| na            | 3 pairs                    | 1                   | 3 years |
| a             |                            |                     |         |
| na            |                            |                     |         |
| a             |                            |                     |         |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |
|               |                            |                     |        |
|               |                            |                     |        |

**GROUP D2 (d)**

Contact resistance

Outer conductor continuity

Bump

Vibration

Shock

Damp heat, steady state

Corrosive atmosphere (salt mist)

4.4.2

4.4.3

4.6.2

4.6.3

4.6.4

4.6.6

4.6.10

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period  |
|---------------|----------------------------|---------------------|---------|
| a             | 3 pairs                    | 1                   | 3 years |
| a             |                            |                     |         |
| na            |                            |                     |         |
| a             |                            |                     |         |
| na            |                            |                     |         |
| a             |                            |                     |         |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |
|               |                            |                     |        |
|               |                            |                     |        |
|               |                            |                     |        |
|               |                            |                     |        |

**GROUP D3**

Dimensions and materials (piece parts)

Mass

4.3.2

4.3.1

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period  |
|---------------|----------------------------|---------------------|---------|
| a             | 3 connectors               | 1                   | 3 years |
| QA only       |                            |                     |         |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |
|               |                            |                     |        |

**GROUP D4 (d)**

Mechanical endurance

High temperature endurance

4.7.1

4.7.2

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period  |
|---------------|----------------------------|---------------------|---------|
| a             | 3 pairs                    | 1                   | 3 years |
| a             |                            |                     |         |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |
|               |                            |                     |        |

**GROUP D5 (d)**Industrial atmosphere Ø  
(gold plated items only)

4.6.12

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
| na            | -                          | -                   | -      |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |

**GROUP D6 (d)**

Reflection factor

Screening effectiveness

Dust Ø

4.4.1

4.4.8

4.6.11

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
| na            | -                          | -                   | -      |
| na            |                            |                     |        |
| na            |                            |                     |        |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |
|               |                            |                     |        |
|               |                            |                     |        |

**GROUP D7 (d)**

Contact captivation

RF high potential withstanding voltage

Discharge test (corona)

Rapid change of temperature

Climatic sequence

4.5.2

4.4.7

4.4.9

4.6.7

4.6.5

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period  |
|---------------|----------------------------|---------------------|---------|
| a             | 3 pairs                    | 1                   | 3 years |
| na            |                            |                     |         |
| na            |                            |                     |         |
| a             |                            |                     |         |
| a             |                            |                     |         |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |
|               |                            |                     |        |
|               |                            |                     |        |
|               |                            |                     |        |

**GROUP D8 (d)**

Resistance to solvents Ø

4.8

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
| na            | -                          | -                   | -      |

| Test Required | Specimens (may be from C1) | Permitted Failure * | Period |
|---------------|----------------------------|---------------------|--------|
|               |                            |                     |        |

Total 12 sets + 3 sets of  
piece parts each style \*Total ... sets + 3 sets of  
piece parts each style \***PROCEDURES****Quality Conformance Inspection**

Quality Conformance Inspection shall consist of Test Groups A1, B1 and C1.

**Qualification Approval and its Maintenance**

This shall consist of passing Test Groups A1, B1 and C1 over three consecutive lots, followed by selection of the required specimens from these lots which then successfully pass all the specified Group D tests.

**NOTES**

a = applicable

ia = if applicable

na = not applicable

IL = Inspection Level

AQL = Acceptance Quality Level

Ø = details of this test to be included later

\* = unless using common piece parts

† = for Qualification Approval (QA) a total of 2 failures only permitted

(d) = destructive test - specimens shall not be returned to stock

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