

British Approvals Service for Electrical  
Equipment in Flammable Atmospheres



## Component Certificate

1

BAS No. Ex 98D1133U

2

3 This certificate is issued for the electrical component:

**SEMC 421 CABLE GLAND**

4 Manufactured and submitted for certification by:

**SHOMAL ENGINEERING & MANUFACTURING COMPANY LIMITED**  
of Kooy Nareng, Salmanshahr, Mazandaran, Iran

5.1 The component must be designed and constructed in accordance with the specification set out in the Schedule or Schedules attached hereto and in the documents referred to therein.

5.2 The document should not in any way be construed as a Certificate of Conformity or an Inspection Certificate but it may be used by a Certification Authority to establish the acceptability of the component for use as a component part of equipment which is certified by either a Certificate of Conformity or an Inspection Certificate.

5.3 Insofar as the component used in an equipment subject to certification is identical with the one forming the subject of the present Component Certificate, reference in a Certificate of Conformity or an Inspection Certificate to the Number of this Component Certificate will suffice to specify the characteristics detailed in this document without the need for collection of documents or repetition of the examinations and tests detailed herein. This does not preclude a requirement for any supplementary tests which may be necessary as a function of the use of the component e.g. distances from enclosure walls, heating, etc.

6.1 BASEEFA being an Approved Certification Body in accordance with Article 14 of the Council Directive of 18 December 1975 (76/117/EEC) certifies that the component has successfully met the examination and test requirements and has been found to comply with harmonised European Standards:

**EN50 014 (1977) + Amd 1 to 5**

**EN50 018 (1977) + Amd 1 to 3**

6.2 These examinations and tests are recorded in confidential Report 97(C)0176 dated 15 May 1998, which is held by BASEEFA to be available at the disposal of the Commission and of the Member States.

7 The component is coded: **EEx d IIC**

8 The supplier of the electrical component referred to in this certificate has the responsibility to ensure that the component conforms to the specification laid down on the Schedule to this certificate.

9 This electrical component shall NOT be marked with the distinctive community mark specified in Annex II of the Commission Directive 84/47/EEC of 16 January, 1984.

File No: EECS 3529/01/002

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This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the component may be used in particular industries or circumstances. Representation of components as "Certified" is valid only when the number of this component certificate is given on the relevant EECS Manufacturing Licence or Verification Certificate.



IM CLEARE  
DIRECTOR  
8 June 1998



Registration Number  
020  
The use of the Accreditation  
Mark indicates accreditation in  
respect of those activities  
covered by the accreditation  
certificate number 020.



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom  
Tel: 01298 28000 Fax: 01298 28244

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## Schedule

Component Certificate BAS No. Ex 98D1133U

### COMPONENT DESCRIPTION

The SEMC 421 Cable Gland for use with unarmoured elastomeric or plastic sheathed cable, comprising:-

- a) an entry adaptor in brass to BS 2874: 1986 Grade CZ124 with a male ISO metric entry thread form to BS 3643: 1981 medium fit (6g) 1.5mm pitch
- b) an inner nitrile butadiene rubber seal
- c) a spigot component in brass to BS 2874: 1986 Grade CZ124
- d) a tail nut in brass to BS 2874: 1986 Grade CZ124

The designation and corresponding size for each gland is detailed in Table A below:-

**TABLE A**

Gland Designation	Entry Thread Size
	metric
Os	M20
O	M20
A	M20
B	M25
C	M32
C2	M40
D	M50
E	M63

The metal component parts of the gland can be manufactured in the alternative grades of brass to BS 2874: 1986 of CZ128 and CZ121 Pb3.

### VARIATION ONE

Alternative thread forms for the entry adaptor entry thread in the appropriate equivalent size to the metric version as follows:-

- i) ET to BS 31: 1979 with gauging to Table A for external threads
- ii) PG to DIN 40430: 1971
- iii) NPT to USAS B2.1 - 1968 with gauging to Clause 36 for external threads

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### DRAWINGS

<u>Number</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
421-GA	D	05-98	General Arrangement
421-DIM	H	05-98	Dimensional Data
421-L	G	05-98	Tail Nut
421-M	G	05-98	Spigot
421-N	F	05-98	Inner Seal
421-O	G	05-98	Entry Adaptor

### SCHEDULE OF LIMITATIONS

The glands included under this Component Certificate may be used with flameproof enclosures which satisfy the requirements of EN50 018: 1977 in respect of gas groups IIA and IIB but may only be used with enclosures which satisfy the requirements of EN50 018: 1977 in respect of gas group IIC providing the volume of the enclosure does not exceed 2000cm<sup>3</sup>.

BASEEFA List Keywords

2CABLEGL

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