

**Australian/New Zealand  
Certification Scheme for**

**EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT**

**ANZEx Scheme**

***Certificate of Conformity***

|  |                     |                                       |
|--|---------------------|---------------------------------------|
| Certificate No.: <b>ANZEx 09.4086X</b> | Issue No.: <b>0</b> | Date of Issue: <b>8 February 2010</b> |
|--|---------------------|---------------------------------------|

**Certificate Holder:** CCG Cable Terminations (PTY) LTD  
33 – 37 Forge Road  
Spartan Industrial Area, Kempton Park 1619  
SOUTH AFRICA

**Electrical Apparatus:** VRTX Range of Cable Glands

**Type of Protection:** Ex e II and Ex tD A21 IP66/68 (2m cont.)

**Marking Code:** Refer to Schedule

**Manufacturing Location(s):** CCG Cable Terminations (PTY) LTD  
33 - 37 Forge Rd  
Spartan Industrial Area, Kempton Park 1619  
SOUTH AFRICA

This certificate and schedule shall not be reproduced except in full

|   |  |   |
|---|--|---|
|  <p>ABN 06 098 886 563</p> | <p>Certificate issued by</p> <p><b><i>ITACS Pty. Ltd.</i></b><br/><b><i>4-6 Second Street SA 5007 Australia</i></b><br/><b><i>PO Box 300 Hindmarsh SA 5007 Australia</i></b><br/><b><i>Phone: +61 8 8346 8680 Fax: +61 8 8346 7072</i></b><br/><b><i>Email: itacs@itacslab.com</i></b></p> |  <p>Accreditation by the Joint<br/>Accreditation System of<br/>Australia and New Zealand<br/>Acc No. Z2870404AA<br/><a href="http://www.jas-anz.com.au/register">www.jas-anz.com.au/register</a></p> |
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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1:2008***

**STANDARDS:**

*The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:*

|                             |   |
|-----------------------------|---|
| <b>AS/NZS 60079-0: 2005</b> | <b>Electrical apparatus for explosive gas atmospheres – Part 0: General requirements</b>                    |
| <b>AS/NZS 60079-7: 2006</b> | <b>Electrical apparatus for explosive gas atmospheres – Part 7: Increased safety “e”</b>                    |
| <b>AS/NZS 61241-0:2005.</b> | <b>Electrical apparatus for use in the presence of combustible dust Part 0: General requirements</b>        |
| <b>AS/NZS 61241-1:2005</b>  | <b>Electrical apparatus for use in the presence of combustible dust Part 1: Protection by enclosures tD</b> |
| <b>AS 60529:2004</b>        | <b>Degrees of protection provided by enclosures (IP Code)</b>   |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above. Attention is drawn to the fact that the above Standards have been superseded.*

**TEST & ASSESSMENT REPORTS:**

*The equipment listed has successfully met the examination and test requirements as recorded in*

Test Report No. and Issuing Body: **ITACS TR 5118**  
Quality Assessment Report No. and Issuing Body: **IECEX QAR, ITACS - AU/ITA/QAR08.0002/01**

File Reference: 09.4086X



*Signed for and on behalf of issuing body*

Certification Authority

8 February 2010

*Position*

*Date of Issue*

This certificate and schedule shall not be reproduced except in full  
This certificate is not transferable and remains the property of the issuing body  
and must be returned in the event of it being revoked or not renewed.

# Australian/New Zealand Certification Scheme for

## EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

### ANZEx Scheme

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### Schedule

**EQUIPMENT:**

The VRTX range of cable glands are suitable for inserting circular cables into enclosures having threaded entries, as appropriate for the type of protection.

The 'VRTX' range of cable glands for unarmoured cables each comprise of an inner, sealing washer, o-ring (between inner and body), body, compression nut, spring, an outer seal with skid ring and an outer nut. The metallic parts are manufactured from brass (nickel plated), stainless steel or bronze. The spring is manufactured from hard drawn copper. The glands are available with Metric (M20 x 1.5 to M75 x 1.5) entry threads.

The glands are marked with the certification information by means of pin or laser marking. The details for the cable glands are shown in the following schedule.

**Table 1 –**

| Gland Size Ref | Entry Thread |             | Cable Inner Sheath Diameter |          | Cable Outer Sheath Diameter |          | Spring        |
|----------------|--------------|-------------|-----------------------------|----------|-----------------------------|----------|---------------|
|                | Diameter     | Length (mm) | Min (mm)                    | Max (mm) | Min (mm)                    | Max (mm) | Diameter (mm) |
| 0-20s          | M20x1.5      | 15.0        | 9.6                         | 11.5     | 13.0                        | 20.0     | 5.5           |
| 0-20           | M20x1.5      | 15.0        | 10.8                        | 12.5     | 13.0                        | 20.0     | 5.5           |
| 1-20           | M20x1.5      | 15.0        | 12.2                        | 14.0     | 13.0                        | 20.0     | 4.5           |
| 2-25s          | M25x1.5      | 15.0        | 13.8                        | 16.0     | 18.0                        | 26.0     | 6.0           |
| 2-25           | M25x1.5      | 15.0        | 16.0                        | 20.0     | 18.0                        | 26.0     | 6.0           |
| 3-32s          | M32x1.5      | 15.0        | 20.0                        | 23.0     | 23.0                        | 28.0     | 6.0           |
| 3-32           | M32x1.5      | 15.0        | 22.0                        | 23.5     | 23.0                        | 28.0     | 6.0           |
| 4-40s          | M40x1.5      | 17.0        | 23.5                        | 28.0     | 28.0                        | 39.5     | 9.0           |
| 4-40           | M40x1.5      | 17.0        | 28.0                        | 32.0     | 28.0                        | 39.5     | 7.0           |
| 5-50s          | M50x1.5      | 17.0        | 32.0                        | 36.0     | 35.2                        | 42.0     | 9.0           |
| 5-50           | M50x1.5      | 17.0        | 35.5                        | 39.0     | 44.5                        | 46.0     | 9.0           |

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| Gland Size Ref | Entry Thread |             | Cable Inner Sheath Diameter |          | Cable Outer Sheath Diameter |          | Spring        |
|----------------|--------------|-------------|-----------------------------|----------|-----------------------------|----------|---------------|
|                | Diameter     | Length (mm) | Min (mm)                    | Max (mm) | Min (mm)                    | Max (mm) | Diameter (mm) |
| 6-63s          | M63x1.5      | 17.0        | 39.0                        | 45.0     | 45.5                        | 54.0     | 9.0           |
| 6-63           | M63x1.5      | 17.0        | 44.0                        | 49.5     | 45.5                        | 54.0     | 9.0           |
| 6-63L          | M63x1.5      | 17.0        | 49.0                        | 54.0     | 54.6                        | 62.0     | 8.0           |
| 7-75           | M75x1.5      | 17.0        | 54.0                        | 59.0     | 59.0                        | 72.1     | 9.0           |

**Marking Code.** The following Marking Code applies:

CCG VRTX (Y)  
Ex e II  
Ex tD A21 IP66/68 (2m Cont.)  
ANZEx 09.4086X

Where (Y) identifies the Gland Size (see Tables 1-5 above)

**CONDITIONS OF CERTIFICATION:**

**Conditions of manufacture**

It is a condition of manufacture / certification that a copy of the relevant certificate and instructions must be provided with / made available for the glands, including the installation torque and IP maintenance and applicable earthing contact requirements.

**Special conditions of use "X"**

1. It is a condition of safe use that the cable glands shall only be installed for application in a temperature range of -20°C to +80°C.
2. The user shall provide additional clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations

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**DRAWINGS:**

| <b>Drawing No.</b>      | <b>Drawing Title</b>        | <b>Issue</b> | <b>Date</b> |
|-------------------------|-----------------------------|--------------|-------------|
| 0531-0 - 053107-MATL    | VRTX GLAND MATERIAL         | Original     | 2009/09/23  |
| 0531-0 - 053107         | No. "X" VRTX GLAND ASSEMBLY | Original     | 2009/09/23  |
| 0531-0 - 053107-MARKING | No. "X" VRTX GLAND MARKING  | Original     | 2009/09/23  |
| 0531-0 -B - 053107-B    | No. "X" VRTX BODY           | Original     | 2009/09/23  |
| 0531-0-OS - 053107-OS   | No."X" VRTX OUTER SEAL      | Original     | 2009/09/11  |
| 0531-0-ON - 053107-ON   | No."X" OUTER NUT            | Original     | 2009/08/28  |
| 0531-0-SG - 053107-SG   | No."X" SEALING GASKET       | Original     | 2009/09/14  |
| 0531-0-SR - 053107-SR   | No."X" SKID RING            | Original     | 2009/09/11  |
| 0531-0-I - 053107-I     | No."X" VRTX INNER           | Original     | 2009/09/23  |
| 0531-0-CN - 053107-CN   | No."X" VRTX COMPRESSION NUT | Original     | 2009/09/23  |