



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx ICS 20.0006X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2020-05-22
Applicant: **Pratley Manufacturing (Pty) Limited**
Jackson Street
Factoria
Krugersdorp
Republic of South Africa
South Africa
Equipment: **Enviro Compression Cable Glands for unarmoured cable**
Optional accessory:
Type of Protection: **Various**
Marking: Ex db I Mb, Ex db IIC Gb, Ex eb I Mb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da.
IP66/68

Approved for issue on behalf of the IECEx
Certification Body:

Roelof Viljoen

Position:

Certification Authority

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

South Africa Mining and Surface Certification (MASC)
45 Jurg Street
Lelyta Park Unit 5
Hennospark Ext 87, Centurion, 0157, Gauteng
South Africa





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Manufacturer: **Pratley Manufacturing (Pty) Limited**
Jackson Street
Factoria
Krugersdorp
Republic of South Africa
South Africa

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment 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

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[ZA/ICS/ExTR20.0003/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0042/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Enviro Compression Cable Gland range is manufactured from Nylon 66 with a 30% Glass Fibre which is moulded around a threaded brass, 304 or 316 stainless steel body insert. The cable glands utilize cylindrical threaded joints and are intended to terminate unarmoured cables of circular type into an enclosure without compromising the explosion protection provided by the enclosure in accordance with relevant codes of practice.

Protection concepts include; flameproof, increased safety and restricted breathing, for groups I and IIC, along with dust protection for Group IIIC.

The cable gland range has an ingress protection rating of IP66 and IP68 with the degree of protection IPX8 corresponding to an immersion of 350 meters under water.

The rated service temperature of the glands is -20°C to 95°C.

Refer to Annex of certificate for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Special conditions of use:

- The cable glands shall only be used where the temperature, at the point of entry, is between -20°C and 95°C.
- The appropriate ingress protection level / restricted breathing and / or flameproof characteristics must be achieved and maintained at the interface of the gland with the enclosure.
- The cable glands are susceptible to electrostatic discharge. As such the installation instruction leaflet carries a precautionary warning to minimise the risk.
- For Group I installations, the gland size Number 1 must be installed in an area with a low risk of mechanical impact.

Conditions of Manufacture:

- None

Annex:

[Annex to Certificate 20.0006X.pdf](#)



IECEx Certificate of Conformity – Annex



Certificate No.: IECEx ICS 20.0006X **Issue:** 0 **Date:** 2020-05-22
Electrical Apparatus: Enviro Compression Cable Glands for unarmoured cable

1. EQUIPMENT

The Enviro Compression Cable Gland range is manufactured from Nylon 66 with a 30% Glass Fibre which is moulded around a threaded brass, 304 or 316 stainless steel body insert. The cable glands utilize cylindrical threaded joints and are intended to terminate unarmoured cables of circular type into an enclosure without compromising the explosion protection provided by the enclosure in accordance with relevant codes of practice. Sealing is achieved by an elastomeric sealing ring which seals against the cable inside the gland. Retention is achieved by the same method as sealing for unarmoured cable. Protection concepts include; flameproof, increased safety and restricted breathing, for groups I and IIC, along with dust protection for Group IIIC. The cable gland range has an ingress protection rating of IP66 and IP68 with the degree of protection IPX8 corresponding to an immersion of 350 meters under water.

The rated service temperature of the glands is -20°C to 95°C.

Gland selection and sizing for unarmoured cables:

Table 1										
Size	Cable Size "D"		Thread				Install Torque	A/C	A/F	Max Protrusion Length "L"
	Min	Max	Thread Type "C"		Thread Length "A"					
			Metric	NPT	Metric	NPT				
00	3.0	8.5	M16	-	15.0	-	15	32	29.2	46
0s	3.0	8.5	M20	½" NPT	15.0	19.3	15	32	29.2	46
0	8.0	12.6	M20	½" NPT	15.0	19.3	19	32	29.2	51
1	11.5	15.7	M20	¾" NPT	15.0	24.6	25	37	32	51
2	15.7	20.4	M25	1" NPT	15.0	30.8	34	47.5	41.2	59
3	20.4	26.3	M32	-	15.0	-	50	57.5	50	66
4	26.3	34.7	M40	-	18.0	-	55	67.5	59	66
5	34.7	43.3	M50	-	19.0	-	105	87	77.5	102
6	43.3	55.9	M63	-	19.0	-	120	98.8	86	112
7	55.9	67.5	M75	-	25.0	-	145	108	97	132