



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 ExTC 18.0001X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2019-05-29\)](#)
[Issue 0 \(2018-05-12\)](#)
Date of Issue: 2022-10-04
Applicant: **Eilbeck Cranes**
6 Moorlands Road
Ingleburn NSW 2565
Australia
Equipment: **Flat cable gland - M32, M40, M50, M63 and M75: ECE-SED-*** Series**
Optional accessory:
Type of Protection: **Increased safety 'eb', Protection by Enclosure 'tb'**
Marking: Ex eb IIC Gb
Ex tb IIIC Db
IP66

Approved for issue on behalf of the IECEx
Certification Body:

Justin Gavranich

Position:

Certification Authority

Signature:
(for printed version)

Date:
(for printed version)

2022-10-04

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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:

Ex Testing and Certification Pty Ltd
1/30 Kennington Drive
Tomago NSW 2322
Australia



TESTING & CERTIFICATION



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Manufacturer: **Eilbeck Cranes**
53 Lancaster St
Ingleburn NSW 2565
Australia

Manufacturing locations: **Eilbeck Cranes**
53 Lancaster St
Ingleburn NSW 2565
Australia

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 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

[AU/EXTC/ExTR18.0003/00](#)

[AU/EXTC/ExTR19.0008/00](#)

[AU/ExTC/ExTR22.0025/00](#)

Quality Assessment Report:

[AU/EXTC/QAR18.0002/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The range of glands are intended for use with flat cables in Group II and Group III explosive environments. The entry thread sizes include M75, M63, M50, M40, M32 all with a 1.5mm pitch. The cable has a silicon sealing ring which is compressed with slotted washers by a collar with at least 4 screws at a minimum torque of 0.5Nm. The cable clamping mechanism is by the use of two independent clamping jaws that are 6mm thick and have a slightly corrugated 10mm clamping face for the full width. Unless specified in the conditions of use the clamping arrangement is designed so that the jaws bottom out on the body of the gland.

The range of glands has a service temperature range of -40°C to 130°C.

A Nylon IP sealing ring provides Ingress Protection to the enclosure.

See Annexe for more details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to the Annex for details



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Refer to the Annex for details



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Additional information:

ExTC Job 20127

Annex:

[IECEX_ExTC_18.0001X-2 Certificate Annex Final.pdf](#)

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Annexe



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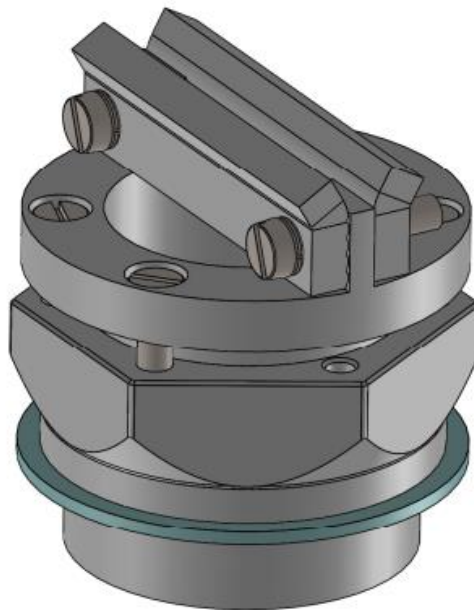
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Description (continued from certificate):

The range of glands include the following:

Gland Size	Thread Size	Cable Width		Cable Height	
		Max	Min	Max	Min
ECE-SED-100	M63x1.5	47.5mm	34.5mm	15.5mm	5.0mm
ECE-SED-200	M50x1.5	36.9mm	27.5mm	11.5mm	6.4mm
ECE-SED-300	M40x1.5	29.1mm	17.0mm	10.3mm	4.5mm
ECE-SED-400	M32x1.5	22.0mm	14.5mm	7.8mm	4.5mm
ECE-SED-500	M75x1.5	66.0mm	42.0mm	22.0mm	6.0mm



M50 Style Gland

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Specific Conditions of Use pertaining to Issue 0 of this Certificate:

1. Flat cables with the following dimensional ranges are to be used:

Gland	Width		Height	
	Max	Min	Max	Min
ECE-SED-100	47.5mm	43.5mm	7.2mm	6.0mm
ECE-SED-200	33.9mm	31.0mm	7.8mm	6.6mm
ECE-SED-201	33.1mm	30.0mm	11.0mm	9.9mm
ECE-SED-300	29.1mm	26.1mm	6.4mm	5.4mm
ECE-SED-301	28.0mm	25.4mm	10.3mm	8.7mm
ECE-SED-302	25.3mm	23.0mm	9.4mm	8.0mm
ECE-SED-400	20.7mm	18.7mm	7.8mm	6.6mm
ECE-SED-401	17.3mm	15.6mm	6.4mm	5.4mm

2. The clamping screws for ECE-SED-201, ECE-SED-301 and ECE-SED-302 shall have a minimum torque of 1Nm applied.
3. Cables shall not be allowed to enter the cable clamp at angles greater than $\pm 30^\circ$.
4. The equipment may be used in the ambient temperature range of -40°C to 130°C .

Drawing list pertaining to Issue 0 of this Certificate:

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
Ex M63 CABLE GLANDS CABLE (43.5 x 6 – 47.5 x 7.2) ASSEMBLY	ECE-SED-100	1	2	2018-04-20
Ex CABLE GLANDS M63 CABLE GLAND MAIN BODY MACHINING	ECE-SED-111	1	1	2018-03-08
Ex CABLE GLAND M63 CABLE GLAND TOP BODY MACHINING	ECE-SED-112	1	0	2016-10-26
Ex CABLE GLANDS M63 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-SED-113	1	0	2016-10-26

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
Ex CABLE GLANDS M63 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-SED-114	1	0	2016-10-26
Ex M63 CABLE GLANDS WASHER PL-CABLE (43.5x6 – 47.5x7.2) PROFILING	ECE-SED-115	1	0	2016-10-26
Ex M63 CABLE GLANDS RUBBER INSERT-CABLE (43.5x6 – 47.5x7.2) PROFILING	ECE-SED-116	1	1	2017-03-28
Ex M50 CABLE GLANDS CABLE (31x6.6 – 33.9x7.8) ASSEMBLY	ECE-SED-200	1	2	2018-04-20
Ex M50 CABLE GLANDS CABLE (30x9.9 – 33.1x11) ASSEMBLY	ECE-SED-201	1	2	2018-04-20
Ex CABLE GLANDS M50 CABLE GLAND MAIN BODY MACHINING	ECE-SED-211	1	0	2016-10-26
Ex CABLE GLANDS M50 CABLE GLAND TOP BODY MACHINING	ECE-SED-212	1	0	2016-10-26
Ex CABLE GLANDS M50 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-SED-213	1	0	2016-10-26
Ex CABLE GLANDS M50 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-SED-214	1	0	2016-10-26
Ex M50 CABLE GLANDS WASHER PL-CABLE (31x6.6 – 33.9x7.8) PROFILING	ECE-SED-215	1	0	2016-10-26
Ex M50 CABLE GLANDS RUBBER INSERT-CABLE (31x6.6 – 33.9x7.8) PROFILING	ECE-SED-216	1	1	2017-03-28
Ex M50 CABLE GLANDS WASHER PL-CABLE (30x9.9 – 33.1x11) PROFILING	ECE-SED-217	1	0	2016-10-26
Ex M50 CABLE GLANDS RUBBER INSERT-CABLE (30x9.9 – 33.1x11) PROFILING	ECE-SED-218	1	1	2017-03-28

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
Ex M40 CABLE GLANDS CABLE (26.1x5.4 – 29.1x6.4) ASSEMBLY	ECE-SED-300	1	2	2018-04-20
Ex M40 CABLE GLANDS CABLE (25.4x8.7 – 28x10.3) ASSEMBLY	ECE-SED-301	1	2	2018-04-20
Ex M40 CABLE GLANDS CABLE (23x8 – 25.3x9.4) ASSEMBLY	ECE-SED-302	1	2	2018-04-20
Ex CABLE GLANDS M40 CABLE GLAND MAIN BODY MACHINING	ECE-SED-311	1	0	2016-10-26
Ex CABLE GLAND M40 CABLE GLAND TOP BODY MACHINING	ECE-SED-312	1	1	2018-03-16
Ex CABLE GLANDS M40 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-SED-313	1	0	2016-10-26
Ex CABLE GLANDS M40 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-SED-314	1	0	2016-10-26
Ex M40 CABLE GLANDS WASHER PL-CABLE (26.1x5.4 – 29.1x6.4) PROFILING	ECE-SED-315	1	0	2016-10-26
Ex M40 CABLE GLANDS RUBBER INSERT-CABLE (26.1x5.4 – 29.1x6.4) PROFILING	ECE-SED-316	1	0	2016-10-26
Ex M40 CABLE GLANDS WASHER PL-CABLE (25.4x8.7 – 28x10.3) PROFILING	ECE-SED-317	1	0	2016-10-26
Ex M40 CABLE GLANDS RUBBER INSERT-CABLE (25.4x8.7 – 28x10.3) PROFILING	ECE-SED-318	1	0	2016-10-26
Ex M40 CABLE GLANDS WASHER PL-CABLE (23x8 – 25.3x9.4) PROFILING	ECE-SED-319	1	0	2016-10-26
Ex M40 CABLE GLANDS RUBBER INSERT-CABLE (23x8 – 25.3x9.4) PROFILING	ECE-SED-320	1	1	2017-03-28

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
Ex M32 CABLE GLANDS CABLE (18.7x6.6-20.7x7.8) ASSEMBLY	ECE-SED-400	1	2	2018-04-20
Ex M32 CABLE GLANDS CABLE (15.6x5.4-17.3x6.4) ASSEMBLY	ECE-SED-401	1	2	2018-04-20
Ex CABLE GLANDS M32 CABLE GLAND MAIN BODY MACHINING	ECE-SED-411	1	0	2016-10-26
Ex CABLE GLAND M32 CABLE GLAND TOP BODY MACHINING	ECE-SED-412	1	1	2018-03-16
Ex CABLE GLANDS M32 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-SED-413	1	0	2016-10-26
Ex CABLE GLANDS M32 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-SED-414	1	0	2016-10-26
Ex M32 CABLE GLANDS WASHER PL-CABLE (18.7x6.6-20.7x7.8) PROFILING	ECE-SED-415	1	0	2016-10-26
Ex M32 CABLE GLANDS RUBBER INSERT-CABLE (18.7x6.6-20.7x7.8) PROFILING	ECE-SED-416	1	1	2017-03-28
Ex M32 CABLE GLANDS WASHER PL-CABLE (15.6x5.4-17.3x6.4) PROFILING	ECE-SED-417	1	0	2016-10-26
Ex M32 CABLE GLANDS RUBBER INSERT-CABLE (15.6x5.4-17.3x6.4) PROFILING	ECE-SED-418	1	1	2017-03-28
Installation, Operating and Maintenance Manual for Ex Flat Cable Gland	ESH-IOM-008	9	0	2018-03-23

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Variations permitted by Issue 1 of this certificate:

1. Added additional grommet sizes to the range of glands.
2. All previous drawings have been replaced with the ones listed in this issue of the certificate.
3. All specific conditions of use have been superseded by the ones listed in this issue of the certificate.
4. The description has been updated to reflect cable ranges.

Specific Conditions of Use pertaining to Issue 1 of this certificate:

1. Flat cables with the following dimensional ranges are to be used:

Gland Size	Thread Size	Cable Width		Cable Height	
		Max	Min	Max	Min
ECE-SED-100	M63x1.5	47.5mm	34.5mm	15.5mm	5.0mm
ECE-SED-200	M50x1.5	36.9mm	27.5mm	11.5mm	6.4mm
ECE-SED-300	M40x1.5	29.1mm	17.0mm	10.3mm	4.5mm
ECE-SED-400	M32x1.5	22.0mm	14.5mm	7.8mm	4.5mm

Note: The cable sizes above rely on the correct cable grommets to be fitted in the appropriate gland body. Refer to manufacturer's documents for details.

2. The sealing grommet compression screws for all glands shall have a minimum torque of 1Nm applied.
3. When not specified the clamping screws shall have a minimum torque of 2.5Nm.
4. Cables shall not be allowed to enter the cable clamp at angles greater than $\pm 30^\circ$.
5. The equipment may be used in the ambient temperature range of -40°C to 130°C .

Drawings Associated with the Issue 1 of this Certificate:

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
Ex M63 CABLE GLANDS ARRANGEMENT AND ASSEMBLY DRAWING ASSEMBLY	ECE-DMS-100	1	2	2019-05-20

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
Ex CABLE GLANDS M63 CABLE GLAND MAIN BODY MACHINING	ECE-DMS-111	1	1	2018-07-10
Ex CABLE GLANDS M63 CABLE GLAND TOP BODY MACHINING	ECE-DMS-112	1	1	2018-07-10
Ex CABLE GLANDS M63 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-DMS-113	1	1	2018-07-10
Ex CABLE GLANDS M63 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-DMS-114	1	1	2018-07-10
Ex M63 CABLE GLANDS WASHERS PL-CABLE PROFILING	ECE-DMS-115	1	2	2019-05-20
Ex M63 CABLE GLANDS RUBBER INSERT-CABLE PROFILING	ECE-DMS-116	1	3	2019-05-20
Ex M50 CABLE GLANDS ARRAGEMENT AND ASSEMBLY DRAWING ASSEMBLY	ECE-DMS-200	1	2	2019-05-20
Ex CABLE GLANDS M50 CABLE GLAND MAIN BODY MACHINING	ECE-DMS-211	1	1	2018-07-10
Ex CABLE GLANDS M50 CABLE GLAND TOP BODY MACHINING	ECE-DMS-212	1	1	2018-07-10
Ex CABLE GLANDS M50 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-DMS-213	1	1	2018-07-10
Ex CABLE GLANDS M50 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-DMS-214	1	1	2018-07-10
Ex M50 CABLE GLANDS WASHER PL-CABLE PROFILING	ECE-DMS-215	1	2	2019-05-20

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Ex M50 CABLE GLANDS RUBBER INSERT-CABLE PROFILING	ECE-DMS-216	1	3	2019-05-20
Ex M40 CABLE GLANDS ARRANGEMENT AND ASSEMBLY DRAWING ASSEMBLY	ECE-DMS-300	1	3	2019-05-20
Ex CABLE GLANDS M40 CABLE GLAND MAIN BODY MACHINING	ECE-DMS-311	1	1	2018-07-10
Ex CABLE GLANDS M40 CABLE GLAND TOP BODY MACHINING	ECE-DMS-312	1	1	2018-07-10
Ex CABLE GLANDS M40 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-DMS-313	1	1	2018-07-10
Ex CABLE GLANDS M40 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-DMS-314	1	1	2018-07-10
Ex M40 CABLE GLANDS WASHER PL-CABLE PROFILING	ECE-DMS-315	1	2	2019-05-20
Ex M40 CABLE GLANDS RUBBER INSERT-CABLE PROFILING	ECE-DMS-316	1	2	2019-05-20
Ex M32 CABLE GLANDS ARRANGEMENT AND ASSEMBLY DRAWING ASSEMBLY	ECE-DMS-400	1	2	2019-05-20
Ex CABLE GLANDS M32 CABLE GLAND MAIN BODY MACHINING	ECE-DMS-411	1	1	2018-07-10
Ex CABLE GLANDS M32 CABLE GLAND TOP BODY MACHINING	ECE-DMS-412	1	1	2018-07-10

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Ex CABLE GLANDS M32 CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-DMS-413	1	1	2018-07-10
Ex CABLE GLANDS M32 CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-DMS-414	1	1	2018-07-10
Ex M32 CABLE GLANDS WASHER PL CABLE PROFILING	ECE-DMS-415	1	2	2019-05-20
Ex M32 CABLE GLANDS RUBBER INSERT-CABLE PROFILING	ECE-DMS-416	1	3	2019-05-20
Installation, Operating & Maintenance Manual - Ex Flat Cable Gland	ESH-FCG-IOM-001	9	2	-

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Variations permitted by Issue 2 of this certificate:

1. The M75 range of glands has been added and a conditions of use updated for clamping.
2. The M50 gland has a cable added to the range.
3. The equipment has been assessed against the latest edition of IEC 60079-0.

Specific Conditions of Use pertaining to Issue 2 of this certificate:

1. Flat cables with the following dimensional ranges are to be used:

Gland Size	Thread Size	Cable Width		Cable Height	
		Max	Min	Max	Min
ECE-SED-100	M63x1.5	47.5mm	34.5mm	15.5mm	5.0mm
ECE-SED-200	M50x1.5	36.9mm	27.5mm	11.5mm	6.4mm
ECE-SED-300	M40x1.5	29.1mm	17.0mm	10.3mm	4.5mm
ECE-SED-400	M32x1.5	22.0mm	14.5mm	7.8mm	4.5mm
ECE-SED-500	M75x1.5	66.0mm	42.0mm	22.0mm	6.0mm

Note: The cable sizes above rely on the correct cable grommets to be fitted in the appropriate gland body. Refer to manufacturer's documents for details.

2. The sealing grommet compression screws for all glands shall have a minimum torque of 1Nm applied.
3. When not specified the clamping screws of the M32, M40, M50 and M63 glands shall have a minimum torque of 2.5Nm.
4. The M75 glands shall have a minimum torque of 3Nm applied to the cable clamping screws.
5. Cables shall not be allowed to enter the cable clamp at angles greater than $\pm 30^\circ$.
6. The equipment may be used in the ambient temperature range of -40°C to 130°C .

Drawings Associated with the Issue 2 of this Certificate:

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
Ex M50 CABLE GLANDS	ECE-DMS-200	1	3	2020-05-08

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
ARRANGEMENT AND ASSEMBLY DRAWING ASSEMBLY				
Ex M50 CABLE GLANDS WASHER PL-CABLE PROFILING	ECE-DMS-215	1	3	2020-05-08
Ex M50 CABLE GLANDS RUBBER INSERT-CABLE PROFILING	ECE-DMS-216	1	4	2020-05-08
Ex M75 CABLE GLANDS ARRANGEMENT AND ASSEMBLY DRAWING ASSEMBLY	ECE-DMS-500	2	0	2021-09-20
Ex M75 CABLE GLANDS CABLE GLAND MAIN BODY MACHINING	ECE-DMS-511	1	0	2021-09-20
EX M75 CABLE GLANDS CABLE GLAND TOP BODY MACHINING	ECE-DMS-512	1	0	2022-03-09
Ex M75 CABLE GLANDS CABLE GLAND CLAMP JAW 1 FABRICATION/MACHINING	ECE-DMS-513	1	0	2021-09-20
Ex M75 CABLE GLANDS CABLE GLAND CLAMP JAW 2 FABRICATION/MACHINING	ECE-DMS-514	1	0	2021-09-20
Ex M75 CABLE GLANDS WASHERS PL-CABLE PROFILING	ECE-DMS-515	2	0	2021-09-20
Ex M75 CABLE GLANDS RUBBER INSERT-CABLE PROFILING	ECE-DMS-516	1	0	2021-09-20
Installation, Operating & Maintenance Manual - Ex Flat Cable Gland	ESH-FCG-IOM-001	11	3	-