

**Australian/New Zealand  
Certification Scheme for  
EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT  
ANZEx Scheme**

***Certificate of Conformity***

Certificate No.: <b>ANZEx 14.3013</b>	Issue No.: <b>0</b>	Date of Issue: <b>2014-08-04</b>
	Issue No.: <b>1</b>	Date of Issue: <b>2017-09-12</b>

**Applicant:** Triflex Manufacturing Pty Ltd  
Unit 29, 2-4 Picrite Close  
Pemulwuy NSW 2145  
AUSTRALIA

**Electrical Apparatus:** Range of Triflex Type LTCM Conduit Fittings

**Type of Protection:** Ex t

**Marking Code:** Triflex \*  
Ex ta IIIC IP66  
ANZEx 14.3013  
\* Fitting Number, as per Schedule

**Manufacturer:** Triflex Manufacturing Pty Ltd  
Unit 29, 2-4 Picrite Close  
Pemulwuy NSW 2145  
AUSTRALIA

**Manufacturing Location(s):** As above

*The EPEE certification database located at <http://www.anzex.com.au> shows the validity of this Certificate.*

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 <p><b>Test Safe</b> AUSTRALIA</p>	<p>Certificate issued by:</p> <p><b><i>TestSafe Australia</i></b> 919 Londonderry Road, Londonderry NSW 2753 Australia Phone: +61 2 4724 4900 Fax: +61 2 4724 4999 <a href="http://www.testsafe.com.au">http://www.testsafe.com.au</a></p>	 <p><b>JAS-ANZ</b></p> <p><a href="http://www.jas-anz.org/register">www.jas-anz.org/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:*

- IEC 60079-0:2007** Explosive atmospheres  
Part 0: Equipment – General requirements
- IEC 60079-31:2008** Explosive atmospheres  
Part 31: Equipment dust ignition protection by enclosure “t”
- IEC 60529:2001** Degrees of protection provided by enclosures (IP Code)

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standard(s) listed above.*

**ASSESSMENT & TEST REPORTS:**

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

Test Report No. and Issuing Body: **32695, 34718; TestSafe Australia**  
Quality Assessment Report No. and Issuing Body: **AU/TSA/QAR10.0001/06; TestSafe Australia**  
File Reference: **2014/003080; 2017/011509**



Ujen Singh

*Signed for and on behalf of issuing body*

Quality & Certification Manager

*Position*

12 September 2017

*Date of Issue*

**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.**

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**Schedule**

**EQUIPMENT:**

The range of Triflex Type LTCM Conduit Fittings is intended for use in conjunction with liquid tight flexible steel conduit with non-metallic serving and includes a straight series, 45° bend series (not available for stainless steel versions) and 90° bend series. The conduit fittings are manufactured from either brass alloy, mild steel, Blackheart malleable cast iron, stainless steel or diecast zinc alloy, with all component parts having either zinc-plating (steel and cast iron components), nickel-plating (brass components) or dichromate-plating (diecast zinc alloy components).

The conduit fittings consist of a body (straight, 45° or 90°), ferrule, nylon gland ring and nut. An insulating throat is fitted inside the body to assist in protecting the insulated conductors from damage during assembly. The body has a metric thread of 1.5 mm pitch at one end, to facilitate the attachment to a threaded entry of an enclosure, and a UN, UNF or UNEF thread on the other end, to facilitate attachment of the nut. The nut, gland ring and ferrule are placed on the cut end of the conduit. The body is then screwed into the enclosure. The ferrule is inserted into the back of the body before the nut is screwed onto the body. The nut is then tightened to the specified torque value in the manufacturer's instructions. Each conduit fitting is marked with the certification information by means of engraving.

The operating temperature range for the conduit fittings is -20 °C to +81 °C.

The full range of Triflex Type LTCM Conduit Fittings is summarised in the Schedule, below.

Steel LTCM Conduit Fittings

Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-09	M09	Straight	M16	12.0	12.7	17.5	18.0	24	26
LTCM-10	M10	Straight	M20	12.0	12.7	17.5	18.0	24	26
LTCM-11	M11	Straight	M20	16.0	16.3	20.8	21.3	36	38
LTCM-12	M12	Straight	M25	21.0	21.3	26.2	26.7	59	61
LTCM-13	M13	Straight	M32	26.5	27.1	32.8	33.4	83	85

\* The Fitting Number is included in the marking information located on the nut.

Black Heart Malleable Cast Iron LTCM Conduit Fittings

Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-14	M14	Straight	M40	35.0	35.8	41.4	42.2	118	121
LTCM-15	M15	Straight	M50	40.5	40.6	47.4	48.3	143	146

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Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-16	M16	Straight	M63	51.5	51.9	59.4	60.3	190	193
LTCM-209	M209	90 Degree	M16	12.0	12.7	17.5	18.0	24	26
LTCM-20	M20	90 Degree	M20	12.0	12.7	17.5	18.0	24	26
LTCM-21	M21	90 Degree	M20	16.0	16.3	20.8	21.3	36	38
LTCM-22	M22	90 Degree	M25	21.0	21.3	26.2	26.7	59	61
LTCM-23	M23	90 Degree	M32	26.5	27.1	32.8	33.4	83	85
LTCM-24	M24	90 Degree	M40	35.0	35.8	41.4	42.2	118	121
LTCM-25	M25	90 Degree	M50	40.5	40.6	47.4	48.3	143	146
LTCM-26	M26	90 Degree	M63	51.5	51.9	59.4	60.3	190	193
LTCM-309	M309	45 Degree	M16	12.0	12.7	17.5	18.0	24	26
LTCM-30	M30	45 Degree	M20	12.0	12.7	17.5	18.0	24	26
LTCM-31	M31	45 Degree	M20	16.0	16.3	20.8	21.3	36	38
LTCM-32	M32	45 Degree	M25	21.0	21.3	26.2	26.7	59	61
LTCM-33	M33	45 Degree	M32	26.5	27.1	32.8	33.4	83	85
LTCM-34	M34	45 Degree	M40	35.0	35.8	41.4	42.2	118	121
LTCM-35	M35	45 Degree	M50	40.5	40.6	47.4	48.3	143	146
LTCM-36	M36	45 Degree	M63	51.5	51.9	59.4	60.3	190	193

\*The Fitting Number is included in the marking information located on the nut.

**Brass LTCM Conduit Fittings**

Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-B09	MB09	Straight	M16	12.0	12.7	17.5	18.0	24	26
LTCM-B10	MB10	Straight	M20	12.0	12.7	17.5	18.0	24	26
LTCM-B11	MB11	Straight	M20	16.0	16.3	20.8	21.3	36	38
LTCM-B12	MB12	Straight	M25	21.0	21.3	26.2	26.7	59	61
LTCM-B13	MB13	Straight	M32	26.5	27.1	32.8	33.4	83	85
LTCM-B14	MB14	Straight	M40	35.0	35.8	41.4	42.2	118	121
LTCM-B15	MB15	Straight	M50	40.5	40.6	47.4	48.3	143	146
LTCM-B16	MB16	Straight	M63	51.5	51.9	59.4	60.3	190	193
LTCM-B209	MB209	90 Degree	M16	12.0	12.7	17.5	18.0	24	26
LTCM-B20	MB20	90 Degree	M20	12.0	12.7	17.5	18.0	24	26
LTCM-B21	MB21	90 Degree	M20	16.0	16.3	20.8	21.3	36	38

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Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-B22	MB22	90 Degree	M25	21.0	21.3	26.2	26.7	59	61
LTCM-B23	MB23	90 Degree	M32	26.5	27.1	32.8	33.4	83	85
LTCM-B24	MB24	90 Degree	M40	35.0	35.8	41.4	42.2	118	121
LTCM-B25	MB25	90 Degree	M50	40.5	40.6	47.4	48.3	143	146
LTCM-B26	MB26	90 Degree	M63	51.5	51.9	59.4	60.3	190	193
LTCM-B309	MB309	45 Degree	M16	12.0	12.7	17.5	18.0	24	26
LTCM-B30	MB30	45 Degree	M20	12.0	12.7	17.5	18.0	24	26
LTCM-B31	MB31	45 Degree	M20	16.0	16.3	20.8	21.3	36	38
LTCM-B32	MB32	45 Degree	M25	21.0	21.3	26.2	26.7	59	61
LTCM-B33	MB33	45 Degree	M32	26.5	27.1	32.8	33.4	83	85
LTCM-B34	MB34	45 Degree	M40	35.0	35.8	41.4	42.2	118	121
LTCM-B35	MB35	45 Degree	M50	40.5	40.6	47.4	48.3	143	146
LTCM-B36	MB36	45 Degree	M63	51.5	51.9	59.4	60.3	190	193

\* The Fitting Number is included in the marking information located on the nut.

Diecast LTCM Conduit Fittings

Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-D09	MD09	Straight	M16	12.0	12.7	17.5	18.0	24	26
LTCM-D10	MD10	Straight	M20	12.0	12.7	17.5	18.0	24	26
LTCM-D11	MD11	Straight	M20	16.0	16.3	20.8	21.3	36	38
LTCM-D12	MD12	Straight	M25	21.0	21.3	26.2	26.7	59	61
LTCM-D13	MD13	Straight	M32	26.5	27.1	32.8	33.4	83	85
LTCM-D14	MD14	Straight	M40	35.0	35.8	41.4	42.2	118	121
LTCM-D15	MD15	Straight	M50	40.5	40.6	47.4	48.3	143	146
LTCM-D16	MD16	Straight	M63	51.5	51.9	59.4	60.3	190	193
LTCM-D209	MD209	90 Degree	M16	12.0	12.7	17.5	18.0	24	26
LTCM-D20	MD20	90 Degree	M20	12.0	12.7	17.5	18.0	24	26
LTCM-D21	MD21	90 Degree	M20	16.0	16.3	20.8	21.3	36	38
LTCM-D22	MD22	90 Degree	M25	21.0	21.3	26.2	26.7	59	61
LTCM-D23	MD23	90 Degree	M32	26.5	27.1	32.8	33.4	83	85
LTCM-D24	MD24	90 Degree	M40	35.0	35.8	41.4	42.2	118	121
LTCM-D25	MD25	90 Degree	M50	40.5	40.6	47.4	48.3	143	146
LTCM-D26	MD26	90 Degree	M63	51.5	51.9	59.4	60.3	190	193

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Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-D309	MD309	45 Degree	M16	12.0	12.7	17.5	18.0	24	26
LTCM-D30	MD30	45 Degree	M20	12.0	12.7	17.5	18.0	24	26
LTCM-D31	MD31	45 Degree	M20	16.0	16.3	20.8	21.3	36	38
LTCM-D32	MD32	45 Degree	M25	21.0	21.3	26.2	26.7	59	61
LTCM-D33	MD33	45 Degree	M32	26.5	27.1	32.8	33.4	83	85
LTCM-D34	MD34	45 Degree	M40	35.0	35.8	41.4	42.2	118	121
LTCM-D35	MD35	45 Degree	M50	40.5	40.6	47.4	48.3	143	146
LTCM-D36	MD36	45 Degree	M63	51.5	51.9	59.4	60.3	190	193

\* The Fitting Number is included in the marking information located on the nut.

**Stainless Steel LTCM Conduit Fittings**

Fitting Number*	ID Number	Body Type	Thread Size	Conduit ID (mm)		Conduit OD (mm)		Torque (mm)	
				Min	Max	Min	Max	Min	Max
LTCM-S10	MS10	Straight	M20	12.0	12.7	17.5	18.0	24	26
LTCM-S11	MS11	Straight	M20	16.0	16.3	20.8	21.3	36	38
LTCM-S12	MS12	Straight	M25	21.0	21.3	26.2	26.7	59	61
LTCM-S13	MS13	Straight	M32	26.5	27.1	32.8	33.4	83	85
LTCM-S14	MS14	Straight	M40	35.0	35.8	41.4	42.2	118	121
LTCM-S15	MS15	Straight	M50	40.5	40.6	47.4	48.3	143	146
LTCM-S16	MS16	Straight	M63	51.5	51.9	59.4	60.3	190	193
LTCM-S20	MS20	90 Degree	M20	12.0	12.7	17.5	18.0	24	26
LTCM-S21	MS21	90 Degree	M20	16.0	16.3	20.8	21.3	36	38
LTCM-S22	MS22	90 Degree	M25	21.0	21.3	26.2	26.7	59	61
LTCM-S23	MS23	90 Degree	M32	26.5	27.1	32.8	33.4	83	85
LTCM-S24	MS24	90 Degree	M40	35.0	35.8	41.4	42.2	118	121
LTCM-S25	MS25	90 Degree	M50	40.5	40.6	47.4	48.3	143	146
LTCM-S26	MS26	90 Degree	M63	51.5	51.9	59.4	60.3	190	193

\* The Fitting Number is included in the marking information located on the nut.

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**CONDITIONS OF CERTIFICATION:**

None.

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**DOCUMENTS:**

Drawing/ Document No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
1015	1	90 Degree Brass Fitting Dimension Drawing & Marking	4	2014-07-14
1016	1	45 Degree Brass Fitting Dimension Drawing & Marking	4	2014-07-14
1017	1	Straight Brass Fitting Dimension Drawing & Marking	4	2014-07-14
1035	1	Straight Steel Fitting Dimension Drawing & Marking	4	2014-07-14
1036	1	90 Degree Steel Fitting Dimension Drawing & Marking	4	2014-07-14
1037	1	45 Degree Steel Fitting Dimension Drawing & Marking	4	2014-07-14
2007	1	90 Degree Diecast Fitting Dimension Drawing & Marking	2	2014-06-26
2008	1	45 Degree Diecast Fitting Dimension Drawing & Marking	2	2014-06-26
2009	1	Straight Diecast Fitting Dimension Drawing & Marking	1	2014-06-26
2015	1	Straight Stainless Steel Fitting Dimension Drawing & Marking	2	2014-07-07
2016	1	90 Degree Stainless Steel Fitting Dimension Drawing & Marking	2	2014-07-07
GA01	1	General Assembly Drawing	4	2014-07-03
GA02	1	General Assembly Drawing	4	2014-07-03
GA03	1	General Assembly Drawing	4	2014-07-03
GA04	1	General Assembly Drawing	4	2014-07-03
GA05	1	General Assembly Drawing	4	2014-07-03

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<b>Drawing/ Document No.:</b>	<b>Page/s:</b>	<b>Title:</b>	<b>Revision Level:</b>	<b>Date: (yyyy-mm-dd)</b>
LTCM – GA Drawing and Component Drawing List	9	LTCM GA Drawing and Component Schedule	4	2014-06-26

**ADDITIONAL INFORMATION:**

**Routine tests:** There are no routine tests required.

**Schedule of Variations**

**Variations Permitted by Issue 1, dated 2017-09-12:**

1. The address of the Applicant and Manufacturer has been changed from 4/20 Tucks Road, Seven Hills NSW 2147 AUSTRALIA to Unit 29, 2-4 Picrite Close, Pemulwuy NSW 2145 AUSTRALIA.

**Condition of Certification Relating to Issue 1:**

None.

**Drawings Relating to Issue.**

None.

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