



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX SIR 10.0057U**

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Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2020-02-26)

Issue 2 (2016-09-22)

Issue 1 (2016-03-11)

Issue 0 (2010-04-30)

Date of Issue: 2021-08-17

Applicant: **Killark, A Div. of Hubbell Inc (Delaware).**
2112 Fenton Logistics Park Blvd.
Fenton
Missouri 63026
United States of America

Ex Component: Flexible Fitting Series EKJ, ECF and EKJSS

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof db and Dust Protection by Enclosure tb**

Marking: Ex db IIC Gb
Ex tb III C Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Neil Jones

Position:

Certification Manager

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:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **Killark, A Div. of Hubbell Inc (Delaware)**
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Fenton
Missouri 63026
United States of America

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

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

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:

[GB/CSAE/ExTR21.0053/00](#)
[GB/SIR/ExTR16.0217/00](#)

[GB/SIR/ExTR10.0066/00](#)
[GB/SIR/ExTR19.0168/00](#)

[GB/SIR/ExTR16.0048/00](#)

Quality Assessment Report:

[GB/SIR/QAR16.0021/05](#)



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Date of issue: 2021-08-17

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Ex Component(s) covered by this certificate is described below:

The Flexible Fitting Series EKJ, ECF or EKJSS are ranges of conduit assemblies intended for the passage of cabling between flameproof enclosures. Each assembly consists of a length of flexible, metal tubing supplied in variable lengths. This tubing is fabricated into a helical, convoluted form with an outer wire braid and a non-metallic inner liner, the metallic parts being bronze or stainless steel. A threaded connection is attached to each end of the conduit tubing, these connection fittings have either a male or female NPT thread form, are manufactured from brass or stainless steel and are attached by soldering or braze welding; see table in EQUIPMENT (continued).

Typical nomenclature

EKJ # ## SS Ex

Where:

EKJ = Series designation (ECF or EKJ)

= Conduit size (1 - 1/2", 2 - 3/4", 3 - 1", 4 - 1 1/4", 5 - 1 1/2" or 6 - 2")

= Length of conduit in inches (variable lengths)

SS = Stainless steel construction

Ex = ATEX certification

SCHEDULE OF LIMITATIONS:

Refer to the Annexe



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Date of issue: 2021-08-17

Issue No: 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

This issue, Issue 4, recognises the following changes; refer to the certificate annex to view a comprehensive history:

1. Routine overpressure testing change from 30 to 20 bar to allow a change in minimum working temperature from -40°C to -20°C.
2. To update nameplate drawings for the 1', 1-1/4', 1-1/2", and 2" nameplates to comply with the US ratings.

Annex:

[IECEX SIR 10.0057U Annexe Issue 4.pdf](#)

Annexe to: IECEx SIR 10.0057U Issue 3

Applicant: Killark, Div. of Hubbell Inc. (Delaware)

Apparatus: Flexible Fitting Series EKJ, ECF and EKJSS



Series	Conduit tubing			End fitting		
	Size	Material	Method of attachment	Thread Size	Thread form	Material
ECF	½"	Bronze	Solder	½" - NPT-14	Female	Brass
ECF	¾"	Bronze	Solder	¾" - NPT-14	Female	Brass
ECF	1"	Bronze	Solder	1" - NPT-11.5	Female	Brass
EKJ	1¼"	Bronze	Solder	1¼" - NPT-11.5	Female	Brass
EKJ	1½"	Bronze	Solder	1½" - NPT-11.5	Female	Brass
EKJ	2"	Bronze	Solder	2" - NPT-11.5	Female	Brass
EKJSS	½"	Stainless steel	Braze weld	½" - NPT-14	Male	Stainless steel
EKJSS	¾"	Stainless steel	Braze weld	¾" - NPT-14	Male	Stainless steel
EKJSS	1"	Stainless steel	Braze weld	1" - NPT-11.5	Male	Stainless steel
EKJSS	1¼"	Stainless steel	Braze weld	1¼" - NPT-11.5	Male	Stainless steel
EKJSS	1½"	Stainless steel	Braze weld	1½" - NPT-11.5	Male	Stainless steel
EKJSS	2"	Stainless steel	Braze weld	2" - NPT-11.5	Male	Stainless steel

Schedule of Limitations

1. Each Flexible Fitting Series EKJ, ECF and EKJSS conduit assembly shall be provided with a suitable ATEX certified conduit sealing device at the point where it connects to the associated flameproof equipment.
2. Each Flexible Fitting Series EKJ, ECF and EKJSS conduit assembly is capable of meeting a degree of ingress protection of IP66. This condition will only be met when each end is fitted in the appropriate manner to the associated suitably certified conduit sealing device having an ingress protection rating of IP66.
3. The temperature range in which the conduit assembly shall be used is limited to -20°C to +150°C.
4. The user shall ensure that appropriate earthing arrangements are provided for the conduit assembly.

Full certificate change history

Issue 1 – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007-10, IEC 60079-1:2007-04 and IEC 60079-31:2008-11 were replaced by IEC 60079-0:2011 Ed 6, IEC 60079-1:2014 Ed 7 and IEC 60079-31:2013 Ed 2, the markings were updated accordingly.
2. Minor administrative drawing amendments were recognised, none of which affect compliance with the standards listed.

Issue 2 – this Issue introduced the following changes:

1. To allow a change in the metal tubing supplied in lengths ranging from 4" minimum to 36" maximum [101.6 mm to 914.4 mm], to being supplied in variable lengths was recognised, the product description was amended accordingly.
2. The recognition that the company name has changed from "Killark Electric Manufacturing Co." to "Killark, A Div. of Hubbell Inc (Delaware)".

Issue 3 – this Issue introduced the following change:

- i. The certificate holders address was changed:

From: 3940 Dr. Martin Luther King Drive Saint Louis Missouri 63113 USA
To: 2112 Fenton Logistics Park Blvd., Fenton Missouri 63026 USA

Date: **Inserted on Issue**

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Annexe to: IECEx SIR 10.0057U Issue 3

Applicant: Killark, Div. of Hubbell Inc. (Delaware)

Apparatus: Flexible Fitting Series EKJ, ECF and EKJSS



Issue 4 – this Issue introduced the following changes:

1. Routine overpressure testing change from 30 to 20 bar to allow a change in minimum working temperature from -40 °C to -20 °C.
2. To update nameplate drawings for the 1', 1-1/4', 1-1/2", and 2" nameplates to comply with the US ratings.

Date: **Inserted on Issue**

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