



KILLARK


HUBBELL ELECTRICAL PRODUCTS
A Division of HUBBELL INCORPORATED (Delaware)
3940 Martin Luther King Drive
St. Louis, Missouri 63113 USA

**INSTALLATION, OPERATION &
MAINTENANCE DATA SHEET**
SERIES ECF, EKJ, EKJSS Flexible Fittings
For Use In Classified Hazardous Locations



EKJ, ECF & EKJSS Flexible Fittings For Use In Hazardous Locations



Sira 10ATEX 1068U ₀₅₃₉  II 2GD
IECEX SIR 10.0057U
Ex d IIC Gb, Ex t IIIC Db IP66

English

French/Spanish/German/Portuguese

1. General Safety Information:

CAUTION:

Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code.

Make sure that the circuit is De-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

Important:

Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

The Devices are intended for use in hazardous locations where movement or vibration requires a flexible connection or a difficult bend is required in a conduit system.



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2. Installation Instructions:

Apply a non-hardening lubrication to the threads on both ends of the flexible fitting. Killark's thread lubricate "LUBG or LUBT" is recommended. Other certified lubrications or petroleum jelly may be used.

Thread one end of the flexible fitting into the correct size NPT female opening or male nipple until hand tight plus one turn minimum with a wrench. At this point the flexible fitting will no longer be able to be turned. The opposite end will require a certified union or un-poured sealing fitting threaded onto it, again, until hand tight plus one turn minimum with a wrench.

When installing the flexible fitting ensure that all bends are not less than the minimum bend radius allowed. Refer to the catalog for the radii of the flexible fittings.

Minimum Bend Radius						
Series	Conduit Size (inches)					
	1/2	3/4	1	1-1/4	1-1/2	2
ECF	10"	12"	14"	----	----	----
EKJ	10"	12"	14"	14"	16"	18"

3. Certification Information:

UL Certifications:

Refer to the Killark Catalog for North American "Class and Division" ratings as they vary by Series and Conduit Size.

IEC / ATEX Certifications:

IECEX SIR 10.0057U Iss. 2 / Sira 10ATEX 1068U Iss. 3

0539 Ex II 2 GD

Ex de IIC Gb

Ex tb IIIC Db

Standards Applied:

EN 60079-0:2012+A11:2013 IEC 60079-0:2011 Ed. 6.0

EN 60079-31: 2014 IEC 60079-31:2013 Ed. 2

EN 60079-1: 2014 IEC 60079-1:2014-06 Ed. 7

CONDITIONS FOR SAFE USE:

1. Each Flexible Fitting Series EKJ-EX, ECF-EX and EKJSS-EX conduit assembly shall be provided with a suitably certified conduit sealing device at the point where it connects to the associated flameproof equipment.
2. Each Flexible Fitting Series EKJ-EX, ECF-EX and EKJSS-EX conduit assembly is capable of meeting a degree of ingress protection of IP66. This condition will only be met when the ends are connected to a certified conduit sealing device or fitting which is rated IP66.
3. The temperature range in which the Flexible Fitting Series may be used is limited to -40°C to 150°C. Caution: If using conductors with a lower temperature range the temperature rating of the assembly defaults to that of the conductors.
4. The user shall ensure the appropriate earthing / grounding method is provided for the conduit assembly.



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4. Maintenance Instructions:




Flexible fittings and their connections should be inspected on a regular basis.

The external braided hose should be inspected to ensure there is no damage or excessive wear to braid hose covering. This is especially important in high vibration applications and machinery that makes repetitive movement causing the flexible fitting to curl and uncurl as part of it normal operation.

Check to make sure the threaded connection are still tight and have not come loose.

WARNING: Do not try to repair a damaged flexible fitting. It should be replaced before the conduit system or machinery is placed back into service.

5. Declaration of Conformity:

KILLARK		 Harsh & Hazardous	
Declaration of Conformity			
FLEXIBLE FITTINGS		SIRA 10 ATEX 1068 U	
		Notified Body 0518	
EU Declaration of Conformity			
We hereby declare that the products supplied on this order comply with the requirements of ATEX Directive 2014/34/EU, and have been type approved by Notified Body SIRA Certification Service, Chester, CH4 9JN, England, United Kingdom. The products included on this Declaration of Conformity have been designed and manufactured in compliance with the following international standards:			
EN 60079-0 : 2012 / A11:2013 EN 60079-1: 2014 EN 60079-31: 2014 <small>0539</small>  II 2 GD Ex d IIC Gb Ex t IIIC Db IP66			
ECF	EKJ	EKJSS	
FLEXIBLE FITTINGS		IECEx SIR 10.0057U	
IEC Declaration of Conformity			
We hereby declare that the products supplied on this order comply with the requirements of the IEC Certification Scheme for Explosive Atmospheres, and have been type approved by SIRA Certification Service, Chester, CH4 9JN, England, United Kingdom. The products included on this Declaration of Conformity have been designed and manufactured in compliance with the following international standards:			
IEC 60079-0 : 2011 Ed. 6.0 IEC 60079-1: 2014-06 Ed. 7.0 IEC 60079-31: 2013 Ed. 2 Ex d IIC Gb Ex t IIIC Db IP66			
ECF	EKJ	EKJSS	
Q.A.R. compliance has been approved by Notified Body UL International DEMKO A/S, Lyskaer 8, P.O. Box 514, DK-2730, Herlev, Denmark, Notified Body number 0539.			
Approved by Technical:			
Print: Tom Michalski, Certifications Mgr.			
Signature: 			
Date: 2016-11-11			