



Explosion Proof Flexible Coupling & Adapter

- UL/IECEX/ATEX Standard Applicable -



Kaiphone Technology Co., Ltd.

Explosion Proof Flexible Coupling & Adapter

| New Brand with Mature Technics |



Company Profile



Chairman General Manager
Mr. Amigo Hsu Mr. Awakee Hsu

- Foundation : Year 1993
- Headquarter : New Taipei City · Taiwan · Asia
- Factories : Guangdong China (Kaiphone Technology Co., Ltd.)
Zhejiang China (Zhejiang Flexible Technology Co., Ltd.)
- Quality System : ISO 9001 : 2015 Certified
- Property : Manufacturer
- Advantage : Kaiphone is one of the minority flexible conduit manufacturers who is certified with both UL & CE in Asia. We provide not only a complete range of standardized products but also diverse and professional customized services for general or specific needs.
- Major Products : Metal flexible conduit and fittings,
Non-metallic flexible conduit and fittings,
OEM / ODM products and so on.
- Certification : UL / CUL / CE / IEC CB / GB / ATEX / WRAS / ACS
- Main Markets : America, Europe, Asia and Middle East....
- Application : Wires & fiber optic cables protection for power, electrical systems, machines, residential / commercial & industrial buildings, ships, public transportation systems, lift & escalator. Gas tube protection. Water tube protection for kitchen & shower room...

[Corporate CI]



[Trademark]

KAIFLEX®

Vision :

- Short term — Complete product certifications and focus on marketing to organize worldwide sales channel.
- Med term — Found a complete and global supply & sales network with brand KAIFLEX.
- Long term — Cultivate KAIFLEX to be a world-renowned & reliable brand for conduit and fitting solutions.

Explosion Proof Flexible Coupling & Adapter



Explosion Proof Flexible Coupling

■ Flameproof Type	
- Two Male Fitting (KF--GJH-M)	6
- Two Female Fitting (KF--GJH-F)	8
- Male to Female End Fitting (KF--GJH-F/M)	10
■ Increased Safety Type	
- Two Female Fitting (EX--G2PF)	13
- Two Male Fitting (EX--G2PM)	14
- Male to Female End Fitting (EX--G2PF/M)	15

Explosion Proof Flexible Coupling Adapters

■ Straight Type	
- Two Female Adapter (KF--LK-F)	17
- Two Male Adapter (KF--LK-M)	18
- Male to Female Adapter (KF--LK-F/M)	19
■ 90 Degree Elbow Type	
- Two Female Adapter (KF--XG-F)	20
- Two Male Adapter (KF--XG-M)	21
- Male to Female Adapter (KF--XG-F/M)	22

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Explosion Proof Flexible Coupling (Flameproof Type)



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■ Two Male Fitting (KF--GJH-M)	6
■ Two Female Fitting (KF--GJH-F)	8
■ Male to Female End Fitting (KF--GJH-F/M)	10

Flameproof type explosion proof flexible coupling is certified with explosion proof standard, UL and ATEX / IECEx. Whole assembly is made by stainless steel with compact and sealing structure providing strong and high-safety protection for electrical equipment used in hazardous environment or the places existing potential risk of explosion. Two end connectors can be switched between male and female thread type depending on installation requirement.

Flameproof type explosion proof flexible coupling is highly flexible to resist bending and explosion pressure meanwhile good to absorb vibration. Suitable to protect the electrical circuit in short distance or at narrow space and the location existing long term vibration. Maintaining safety of facilities in high risk environment and reduce unexpected loss.

Flameproof type explosion proof flexible coupling is especially applied for the environment containing explosive gas, dust or flyings, for example, refinery, offshore oil platform, gas plant, petrochemical plant, chemical plant, grain mill, gas station and etc.

UL 1203

Size: 1/2", 3/4"

- Class I, Division 1, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- Class III

Size: 1", 1-1/4", 1-1/2", 2"

- Class I, Division 1, Groups C, D
- Class II, Division 1, Groups E, F, G
- Class III

IEC 60079

Size: 1/2" ~ 4"

- Ex db IIC Gb
- Ex tb IIIC Db

ATEX

Size: 1/2" ~ 4"

- Ex II 2G Ex db IIC Gb
- Ex II 2D Ex tb IIIC Db



Explosion Proof Flexible Coupling – Flameproof Type

KAIFLEX®

Series Code | **KF--GJH-M**

Features | **Stainless Steel · Two Male Fitting · 1/2" ~ 2"**

Product Photo



Length "L" (inch)	Thread	Nominal Size (inch) Bending Radius (mm) Part Number					
		1/2" 254 mm	3/4" 305 mm	1" 356 mm	1-1/4" 406 mm	1-1/2" 406 mm	2" ^[N] 406 mm
4	M	KF--GJH1M411	KF--GJH2M411	-	-	-	-
	NPT	KF--GJH1M421	KF--GJH2M421	-	-	-	-
6	M	KF--GJH1M611	KF--GJH2M611	KF--GJH3M611	-	-	-
	NPT	KF--GJH1M621	KF--GJH2M621	KF--GJH3M621	-	-	-
8	M	KF--GJH1M811	KF--GJH2M811	KF--GJH3M811	-	-	-
	NPT	KF--GJH1M821	KF--GJH2M821	KF--GJH3M821	-	-	-
10	M	KF--GJH1M1011	KF--GJH2M1011	KF--GJH3M1011	-	-	-
	NPT	KF--GJH1M1021	KF--GJH2M1021	KF--GJH3M1021	-	-	-
12	M	KF--GJH1M1211	KF--GJH2M1211	KF--GJH3M1211	KF--GJH4M1211	KF--GJH5M1211	KF--GJH6M1211
	NPT	KF--GJH1M1221	KF--GJH2M1221	KF--GJH3M1221	KF--GJH4M1221	KF--GJH5M1221	KF--GJH6M1221
15	M	KF--GJH1M1511	KF--GJH2M1511	KF--GJH3M1511	KF--GJH4M1511	KF--GJH5M1511	KF--GJH6M1511
	NPT	KF--GJH1M1521	KF--GJH2M1521	KF--GJH3M1521	KF--GJH4M1521	KF--GJH5M1521	KF--GJH6M1521
18	M	KF--GJH1M1811	KF--GJH2M1811	KF--GJH3M1811	KF--GJH4M1811	KF--GJH5M1811	KF--GJH6M1811
	NPT	KF--GJH1M1821	KF--GJH2M1821	KF--GJH3M1821	KF--GJH4M1821	KF--GJH5M1821	KF--GJH6M1821
21	M	KF--GJH1M2111	KF--GJH2M2111	KF--GJH3M2111	KF--GJH4M2111	KF--GJH5M2111	KF--GJH6M2111
	NPT	KF--GJH1M2121	KF--GJH2M2121	KF--GJH3M2121	KF--GJH4M2121	KF--GJH5M2121	KF--GJH6M2121
24	M	KF--GJH1M2411	KF--GJH2M2411	KF--GJH3M2411	KF--GJH4M2411	KF--GJH5M2411	KF--GJH6M2411
	NPT	KF--GJH1M2421	KF--GJH2M2421	KF--GJH3M2421	KF--GJH4M2421	KF--GJH5M2421	KF--GJH6M2421
27	M	KF--GJH1M2711	KF--GJH2M2711	KF--GJH3M2711	KF--GJH4M2711	KF--GJH5M2711	KF--GJH6M2711
	NPT	KF--GJH1M2721	KF--GJH2M2721	KF--GJH3M2721	KF--GJH4M2721	KF--GJH5M2721	KF--GJH6M2721
30	M	KF--GJH1M3011	KF--GJH2M3011	KF--GJH3M3011	KF--GJH4M3011	KF--GJH5M3011	KF--GJH6M3011
	NPT	KF--GJH1M3021	KF--GJH2M3021	KF--GJH3M3021	KF--GJH4M3021	KF--GJH5M3021	KF--GJH6M3021
33	M	KF--GJH1M3311	KF--GJH2M3311	KF--GJH3M3311	KF--GJH4M3311	KF--GJH5M3311	KF--GJH6M3311
	NPT	KF--GJH1M3321	KF--GJH2M3321	KF--GJH3M3321	KF--GJH4M3321	KF--GJH5M3321	KF--GJH6M3321
36	M	KF--GJH1M3611	KF--GJH2M3611	KF--GJH3M3611	KF--GJH4M3611	KF--GJH5M3611	KF--GJH6M3611
	NPT	KF--GJH1M3621	KF--GJH2M3621	KF--GJH3M3621	KF--GJH4M3621	KF--GJH5M3621	KF--GJH6M3621

Ordering Information

Compression Strength
Thread
RoHS Compliance
Certificate

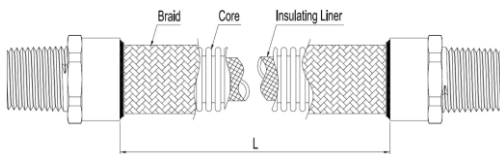
Max. 2000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")

NPT, M

Yes

cULus (E490826), IECEx (IECEx UL 20.0075U), ATEX (DEMKO 20 ATEX 2393U Rev. 0), TS (TD09002U)

Profile



Note

1. The length limit is 4"~36" according to UL specification.
2. Nominal size 2" adopts 1-1/2" conduit body.



Explosion Proof Flexible Coupling – Flameproof Type

KAIFLEX®

Series Code | **KF--GJH-M**

Features | **Stainless Steel · Two Male Fitting · 2-1/2" ~ 4"**

Product Photo



Ordering Information

Length "L" (inch)	Thread	Nominal Size (inch) Bending Radius (mm) Part Number		
		2-1/2" [N]	3a" [N]	4"
		406 mm	458 mm	762 mm
18	M	KF--GJH7M1811	KF--GJH8aM1811	KF--GJH9M1811
	NPT	KF--GJH7M1821	KF--GJH8aM1821	KF--GJH9M1821
21	M	KF--GJH7M2111	KF--GJH8aM2111	KF--GJH9M2111
	NPT	KF--GJH7M2121	KF--GJH8aM2121	KF--GJH9M2121
24	M	KF--GJH7M2411	KF--GJH8aM2411	KF--GJH9M2411
	NPT	KF--GJH7M2421	KF--GJH8aM2421	KF--GJH9M2421
27	M	KF--GJH7M2711	KF--GJH8aM2711	KF--GJH9M2711
	NPT	KF--GJH7M2721	KF--GJH8aM2721	KF--GJH9M2721
30	M	KF--GJH7M3011	KF--GJH8aM3011	KF--GJH9M3011
	NPT	KF--GJH7M3021	KF--GJH8aM3021	KF--GJH9M3021
33	M	KF--GJH7M3311	KF--GJH8aM3311	KF--GJH9M3311
	NPT	KF--GJH7M3321	KF--GJH8aM3321	KF--GJH9M3321
36	M	KF--GJH7M3611	KF--GJH8aM3611	KF--GJH9M3611
	NPT	KF--GJH7M3621	KF--GJH8aM3621	KF--GJH9M3621

Compression Strength

Max. 512 psi (2-1/2"~4")

Thread

NPT, M

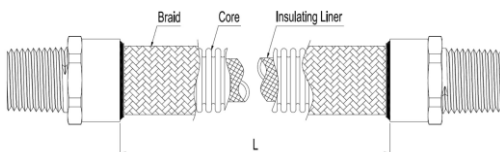
RoHS Compliance

Yes

Certificate

IECEx (IECEx UL 20.0075U), ATEX (DEMKO 20 ATEX 2393U Rev. 0), TS (TD09002U)

Profile



Note

- 1、Certified max. length: 36"
- 2、Nominal size 2-1/2" and 3a" adopt 2" conduit body.

Explosion Proof Flexible Coupling – Flameproof Type

KAIFLEX®

Series Code | **KF--GJH-F**

Features | **Stainless Steel · Two Female Fitting · 1/2" ~ 2"**

Product Photo



Length "L" (inch)	Thread	Nominal Size (inch) Bending Radius (mm) Part Number					
		1/2" 254 mm	3/4" 305 mm	1" 356 mm	1-1/4" 406 mm	1-1/2" 406 mm	2" ^[N] 406 mm
4	M	KF--GJH1F411	KF--GJH2F411	-	-	-	-
	NPT	KF--GJH1F421	KF--GJH2F421	-	-	-	-
6	M	KF--GJH1F611	KF--GJH2F611	KF--GJH3F611	-	-	-
	NPT	KF--GJH1F621	KF--GJH2F621	KF--GJH3F621	-	-	-
8	M	KF--GJH1F811	KF--GJH2F811	KF--GJH3F811	-	-	-
	NPT	KF--GJH1F821	KF--GJH2F821	KF--GJH3F821	-	-	-
10	M	KF--GJH1F1011	KF--GJH2F1011	KF--GJH3F1011	-	-	-
	NPT	KF--GJH1F1021	KF--GJH2F1021	KF--GJH3F1021	-	-	-
12	M	KF--GJH1F1211	KF--GJH2F1211	KF--GJH3F1211	KF--GJH4F1211	KF--GJH5F1211	KF--GJH6F1211
	NPT	KF--GJH1F1221	KF--GJH2F1221	KF--GJH3F1221	KF--GJH4F1221	KF--GJH5F1221	KF--GJH6F1221
15	M	KF--GJH1F1511	KF--GJH2F1511	KF--GJH3F1511	KF--GJH4F1511	KF--GJH5F1511	KF--GJH6F1511
	NPT	KF--GJH1F1521	KF--GJH2F1521	KF--GJH3F1521	KF--GJH4F1521	KF--GJH5F1521	KF--GJH6F1521
18	M	KF--GJH1F1811	KF--GJH2F1811	KF--GJH3F1811	KF--GJH4F1811	KF--GJH5F1811	KF--GJH6F1811
	NPT	KF--GJH1F1821	KF--GJH2F1821	KF--GJH3F1821	KF--GJH4F1821	KF--GJH5F1821	KF--GJH6F1821
21	M	KF--GJH1F2111	KF--GJH2F2111	KF--GJH3F2111	KF--GJH4F2111	KF--GJH5F2111	KF--GJH6F2111
	NPT	KF--GJH1F2121	KF--GJH2F2121	KF--GJH3F2121	KF--GJH4F2121	KF--GJH5F2121	KF--GJH6F2121
24	M	KF--GJH1F2411	KF--GJH2F2411	KF--GJH3F2411	KF--GJH4F2411	KF--GJH5F2411	KF--GJH6F2411
	NPT	KF--GJH1F2421	KF--GJH2F2421	KF--GJH3F2421	KF--GJH4F2421	KF--GJH5F2421	KF--GJH6F2421
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30	M	KF--GJH1F3011	KF--GJH2F3011	KF--GJH3F3011	KF--GJH4F3011	KF--GJH5F3011	KF--GJH6F3011
	NPT	KF--GJH1F3021	KF--GJH2F3021	KF--GJH3F3021	KF--GJH4F3021	KF--GJH5F3021	KF--GJH6F3021
33	M	KF--GJH1F3311	KF--GJH2F3311	KF--GJH3F3311	KF--GJH4F3311	KF--GJH5F3311	KF--GJH6F3311
	NPT	KF--GJH1F3321	KF--GJH2F3321	KF--GJH3F3321	KF--GJH4F3321	KF--GJH5F3321	KF--GJH6F3321
36	M	KF--GJH1F3611	KF--GJH2F3611	KF--GJH3F3611	KF--GJH4F3611	KF--GJH5F3611	KF--GJH6F3611
	NPT	KF--GJH1F3621	KF--GJH2F3621	KF--GJH3F3621	KF--GJH4F3621	KF--GJH5F3621	KF--GJH6F3621

Ordering Information

Compression Strength

Max. 2000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")

Thread

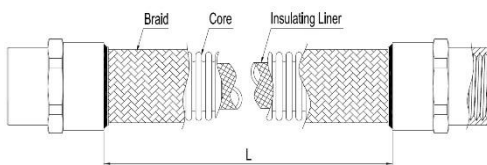
NPT, M

RoHS Compliance Certificate

Yes

cULus (E490826), IECEx (IECEx UL 20.0075U), ATEX (DEMKO 20 ATEX 2393U Rev. 0), TS (TD09002U)

Profile



Note

1. The length limit is 4"~36" according to UL specification.
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21	M	KF--GJH7F2111	KF--GJH8aF2111	KF--GJH9F2111
	NPT	KF--GJH7F2121	KF--GJH8aF2121	KF--GJH9F2121
24	M	KF--GJH7F2411	KF--GJH8aF2411	KF--GJH9F2411
	NPT	KF--GJH7F2421	KF--GJH8aF2421	KF--GJH9F2421
27	M	KF--GJH7F2711	KF--GJH8aF2711	KF--GJH9F2711
	NPT	KF--GJH7F2721	KF--GJH8aF2721	KF--GJH9F2721
30	M	KF--GJH7F3011	KF--GJH8aF3011	KF--GJH9F3011
	NPT	KF--GJH7F3021	KF--GJH8aF3021	KF--GJH9F3021
33	M	KF--GJH7F3311	KF--GJH8aF3311	KF--GJH9F3311
	NPT	KF--GJH7F3321	KF--GJH8aF3321	KF--GJH9F3321
36	M	KF--GJH7F3611	KF--GJH8aF3611	KF--GJH9F3611
	NPT	KF--GJH7F3621	KF--GJH8aF3621	KF--GJH9F3621

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Max. 512 psi (2-1/2"~4")

Thread

NPT, M

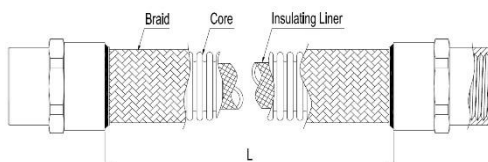
RoHS Compliance

Yes

Certificate

IECEx (IECEx UL 20.0075U), ATEX (DEMKO 20 ATEX 2393U Rev. 0), TS (TD09002U)

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4	M	KF--GJH1F/M411	KF--GJH2F/M411	-	-	-	-
	NPT	KF--GJH1F/M421	KF--GJH2F/M421	-	-	-	-
6	M	KF--GJH1F/M611	KF--GJH2F/M611	KF--GJH3F/M611	-	-	-
	NPT	KF--GJH1F/M621	KF--GJH2F/M621	KF--GJH3F/M621	-	-	-
8	M	KF--GJH1F/M811	KF--GJH2F/M811	KF--GJH3F/M811	-	-	-
	NPT	KF--GJH1F/M821	KF--GJH2F/M821	KF--GJH3F/M821	-	-	-
10	M	KF--GJH1F/M1011	KF--GJH2F/M1011	KF--GJH3F/M1011	-	-	-
	NPT	KF--GJH1F/M1021	KF--GJH2F/M1021	KF--GJH3F/M1021	-	-	-
12	M	KF--GJH1F/M1211	KF--GJH2F/M1211	KF--GJH3F/M1211	KF--GJH4F/M1211	KF--GJH5F/M1211	KF--GJH6F/M1211
	NPT	KF--GJH1F/M1221	KF--GJH2F/M1221	KF--GJH3F/M1221	KF--GJH4F/M1221	KF--GJH5F/M1221	KF--GJH6F/M1221
15	M	KF--GJH1F/M1511	KF--GJH2F/M1511	KF--GJH3F/M1511	KF--GJH4F/M1511	KF--GJH5F/M1511	KF--GJH6F/M1511
	NPT	KF--GJH1F/M1521	KF--GJH2F/M1521	KF--GJH3F/M1521	KF--GJH4F/M1521	KF--GJH5F/M1521	KF--GJH6F/M1521
18	M	KF--GJH1F/M1811	KF--GJH2F/M1811	KF--GJH3F/M1811	KF--GJH4F/M1811	KF--GJH5F/M1811	KF--GJH6F/M1811
	NPT	KF--GJH1F/M1821	KF--GJH2F/M1821	KF--GJH3F/M1821	KF--GJH4F/M1821	KF--GJH5F/M1821	KF--GJH6F/M1821
21	M	KF--GJH1F/M2111	KF--GJH2F/M2111	KF--GJH3F/M2111	KF--GJH4F/M2111	KF--GJH5F/M2111	KF--GJH6F/M2111
	NPT	KF--GJH1F/M2121	KF--GJH2F/M2121	KF--GJH3F/M2121	KF--GJH4F/M2121	KF--GJH5F/M2121	KF--GJH6F/M2121
24	M	KF--GJH1F/M2411	KF--GJH2F/M2411	KF--GJH3F/M2411	KF--GJH4F/M2411	KF--GJH5F/M2411	KF--GJH6F/M2411
	NPT	KF--GJH1F/M2421	KF--GJH2F/M2421	KF--GJH3F/M2421	KF--GJH4F/M2421	KF--GJH5F/M2421	KF--GJH6F/M2421
27	M	KF--GJH1F/M2711	KF--GJH2F/M2711	KF--GJH3F/M2711	KF--GJH4F/M2711	KF--GJH5F/M2711	KF--GJH6F/M2711
	NPT	KF--GJH1F/M2721	KF--GJH2F/M2721	KF--GJH3F/M2721	KF--GJH4F/M2721	KF--GJH5F/M2721	KF--GJH6F/M2721
30	M	KF--GJH1F/M3011	KF--GJH2F/M3011	KF--GJH3F/M3011	KF--GJH4F/M3011	KF--GJH5F/M3011	KF--GJH6F/M3011
	NPT	KF--GJH1F/M3021	KF--GJH2F/M3021	KF--GJH3F/M3021	KF--GJH4F/M3021	KF--GJH5F/M3021	KF--GJH6F/M3021
33	M	KF--GJH1F/M3311	KF--GJH2F/M3311	KF--GJH3F/M3311	KF--GJH4F/M3311	KF--GJH5F/M3311	KF--GJH6F/M3311
	NPT	KF--GJH1F/M3321	KF--GJH2F/M3321	KF--GJH3F/M3321	KF--GJH4F/M3321	KF--GJH5F/M3321	KF--GJH6F/M3321
36	M	KF--GJH1F/M3611	KF--GJH2F/M3611	KF--GJH3F/M3611	KF--GJH4F/M3611	KF--GJH5F/M3611	KF--GJH6F/M3611
	NPT	KF--GJH1F/M3621	KF--GJH2F/M3621	KF--GJH3F/M3621	KF--GJH4F/M3621	KF--GJH5F/M3621	KF--GJH6F/M3621

Ordering Information

Compression Strength

Max. 2000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")

Thread

NPT, M

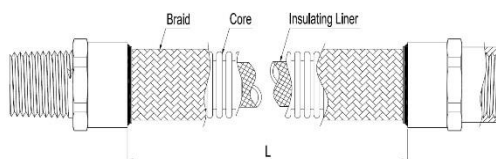
RoHS Compliance

Yes

Certificate

cULus (E490826), IECEx (IECEx UL 20.0075U), ATEX (DEMKO 20 ATEX 2393U Rev. 0), TS (TD09002U)

Profile



Note

1. The length limit is 4"~36" according to UL specification.
2. Nominal size 2" adopts 1-1/2" conduit body.

Explosion Proof Flexible Coupling – Flameproof Type

KAIFLEX®

Series Code | **KF--GJH-F/M**

Features | **Stainless Steel · Male to Female End Fitting · 2-1/2" ~ 4"**

Product Photo



Ordering Information

Length "L" (inch)	Thread	Nominal Size (inch) Bending Radius (mm) Part Number		
		2-1/2" ^[N]	3a" ^[N]	4"
		406 mm	458 mm	762 mm
18	M	KF--GJH7F/M1811	KF--GJH8aF/M1811	KF--GJH9F/M1811
	NPT	KF--GJH7F/M1821	KF--GJH8aF/M1821	KF--GJH9F/M1821
21	M	KF--GJH7F/M2111	KF--GJH8aF/M2111	KF--GJH9F/M2111
	NPT	KF--GJH7F/M2121	KF--GJH8aF/M2121	KF--GJH9F/M2121
24	M	KF--GJH7F/M2411	KF--GJH8aF/M2411	KF--GJH9F/M2411
	NPT	KF--GJH7F/M2421	KF--GJH8aF/M2421	KF--GJH9F/M2421
27	M	KF--GJH7F/M2711	KF--GJH8aF/M2711	KF--GJH9F/M2711
	NPT	KF--GJH7F/M2721	KF--GJH8aF/M2721	KF--GJH9F/M2721
30	M	KF--GJH7F/M3011	KF--GJH8aF/M3011	KF--GJH9F/M3011
	NPT	KF--GJH7F/M3021	KF--GJH8aF/M3021	KF--GJH9F/M3021
33	M	KF--GJH7F/M3311	KF--GJH8aF/M3311	KF--GJH9F/M3311
	NPT	KF--GJH7F/M3321	KF--GJH8aF/M3321	KF--GJH9F/M3321
36	M	KF--GJH7F/M3611	KF--GJH8aF/M3611	KF--GJH9F/M3611
	NPT	KF--GJH7F/M3621	KF--GJH8aF/M3621	KF--GJH9F/M3621

Compression Strength
Thread
RoHS Compliance
Certificate

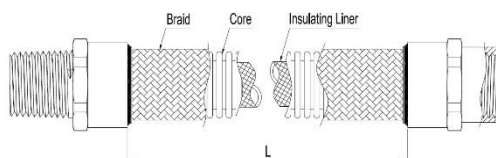
Max. 512 psi (2-1/2"~4")

NPT, M

Yes

IECEx (IECEx UL 20.0075U), ATEX (DEMKO 20 ATEX 2393U Rev. 0), TS (TD09002U)

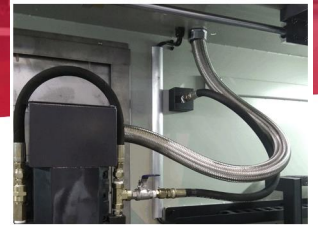
Profile



Note

- 1、Certified max. length: 36"
- 2、Nominal size 2-1/2" and 3a" adopt 2" conduit body.

Explosion Proof Flexible Coupling (Increased Safety Type)



Explosion Proof Flexible Coupling (Increased Safety Type)

■ Two Female Fitting (EX--G2PF)	13
■ Two Male Fitting (EX--G2PM)	14
■ Male to Female End Fitting (EX--G2PF/M)	15

Increased safety type explosion proof flexible coupling is flexible and water & dust proof complying with requirement of GB 3836 standard. Applied for wiring protection in the environment where the facility will not generate sparkle or arcs under normal operating conditions. Increased safety type explosion proof flexible coupling is benefit to control or decrease the working temperature of equipment, maintain the stability of electrical connection and isolate the moisture and dust so that reduce the possibility of malfunction and therefore explosion proof.

The flexible conduit of increased safety type explosion proof flexible coupling is optional for stainless steel or galvanized steel and two end connectors can be switched between male and female thread type depending on installation requirement.

Applicable for the environment may with explosive gas and the facility is relatively steady. Especially for electrical circuit protection in narrow spaces. Mines are excluded.

GB 3836
Exe II Gb



Explosion Proof Flexible Coupling – Increased Safety Type

KAIFLEX®

Series Code | **EX--G2PF**

Features | **Galvanized Steel · Two Female Fitting · 3/8" ~ 4"**

Product Photo



Nominal Conduit Size	Nominal Conduit Size	Thread	Part Number	Min. ID (mm)	Max. OD (mm)	Min. Bending Radius (mm)
12	3/8	M	EX--100198G2PF1	10	19.8	105
		G	EX--100198G2PF3			
16	1/2	M	EX--130231G2PF1	13	23.1	125
		G	EX--130231G2PF3			
21	3/4	M	EX--180285G2PF1	18	28.5	145
		G	EX--180285G2PF3			
27	1	M	EX--240354G2PF1	24	35.4	185
		G	EX--240354G2PF3			
35	1-1/4	M	EX--320437G2PF1	32	43.7	225
		G	EX--320437G2PF3			
41	1-1/2	M	EX--370500G2PF1	37	50	275
		G	EX--370500G2PF3			
53	2	M	EX--480618G2PF1	48	61.8	315
		G	EX--480618G2PF3			
63	2-1/2	M	EX--590758G2PF1	59	75.8	475
		G	EX--590758G2PF3			
78	3	M	EX--740920G2PF1	74	92	550
		G	EX--740920G2PF3			
91	3-1/2	M	EX--850105G2PF1	85	105	615
		G	EX--850105G2PF3			
103	4	M	EX--970117G2PF1	97	117	750
		G	EX--970117G2PF3			

Ordering Information

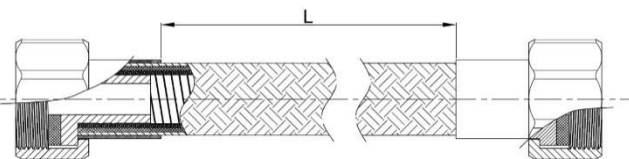
IP Rating | IP 66

Thread | M, G

RoHS Compliance | Yes

Certificate | GB (SHEXC19. 0892)

Profile



Note | 1、For other core materials, structure and jacket materials, please refer to appendix page 23.

Explosion Proof Flexible Coupling – Increased Safety Type

KAIFLEX®

Series Code | **EX--G2PM**

Features | **Galvanized Steel · Two Male Fitting · 3/8" ~ 4"**

Product Photo



GB

Ordering Information

Nominal Conduit Size	Nominal Conduit Size	Thread	Part Number	Min. ID (mm)	Max. OD (mm)	Min. Bending Radius (mm)
12	3/8	M	EX--100198G2PM1	10	19.8	105
		G	EX--100198G2PM3			
16	1/2	M	EX--130231G2PM1	13	23.1	125
		G	EX--130231G2PM3			
21	3/4	M	EX--180285G2PM1	18	28.5	145
		G	EX--180285G2PM3			
27	1	M	EX--240354G2PM1	24	35.4	185
		G	EX--240354G2PM3			
35	1-1/4	M	EX--320437G2PM1	32	43.7	225
		G	EX--320437G2PM3			
41	1-1/2	M	EX--370500G2PM1	37	50	275
		G	EX--370500G2PM3			
53	2	M	EX--480618G2PM1	48	61.8	315
		G	EX--480618G2PM3			
63	2-1/2	M	EX--590758G2PM1	59	75.8	475
		G	EX--590758G2PM3			
78	3	M	EX--740920G2PM1	74	92	550
		G	EX--740920G2PM3			
91	3-1/2	M	EX--850105G2PM1	85	105	615
		G	EX--850105G2PM3			
103	4	M	EX--970117G2PM1	97	117	750
		G	EX--970117G2PM3			

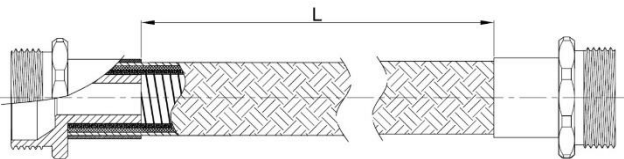
IP Rating | IP 66

Thread | M, G

RoHS Compliance | Yes

Certificate | GB (SHEXC19. 0892)

Profile



Note | 1、For other core materials, structure and jacket materials, please refer to appendix page 23.

Explosion Proof Flexible Coupling – Increased Safety Type

KAIFLEX®

Series Code | **EX--G2PF/M**

Features | **Galvanized Steel · Male to Female End Fitting · 3/8" ~ 4"**

Product Photo



Ordering Information

Nominal Conduit Size	Nominal Conduit Size	Thread	Part Number	Min. ID (mm)	Max. OD (mm)	Min. Bending Radius (mm)
12	3/8	M	EX--100198G2PF/M1	10	19.8	105
		G	EX--100198G2PF/M3			
16	1/2	M	EX--130231G2PF/M1	13	23.1	125
		G	EX--130231G2PF/M3			
21	3/4	M	EX--180285G2PF/M1	18	28.5	145
		G	EX--180285G2PF/M3			
27	1	M	EX--240354G2PF/M1	24	35.4	185
		G	EX--240354G2PF/M3			
35	1-1/4	M	EX--320437G2PF/M1	32	43.7	225
		G	EX--320437G2PF/M3			
41	1-1/2	M	EX--370500G2PF/M1	37	50	275
		G	EX--370500G2PF/M3			
53	2	M	EX--480618G2PF/M1	48	61.8	315
		G	EX--480618G2PF/M3			
63	2-1/2	M	EX--590758G2PF/M1	59	75.8	475
		G	EX--590758G2PF/M3			
78	3	M	EX--740920G2PF/M1	74	92	550
		G	EX--740920G2PF/M3			
91	3-1/2	M	EX--850105G2PF/M1	85	105	615
		G	EX--850105G2PF/M3			
103	4	M	EX--970117G2PF/M1	97	117	750
		G	EX--970117G2PF/M3			

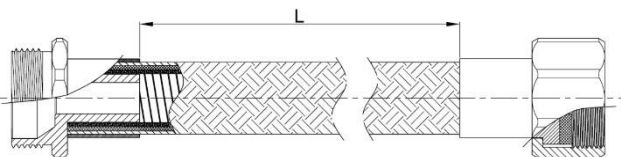
IP Rating | IP 66

Thread | M, G

RoHS Compliance | Yes

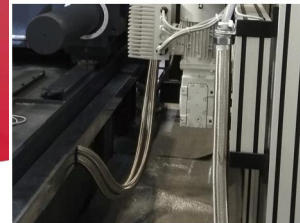
Certificate | GB (SHEXC19. 0892)

Profile



Note | 1、For other core materials, structure and jacket materials, please refer to appendix page 23.

Explosion Proof Flexible Coupling Adapters



Explosion Proof Flexible Coupling Adapters

■ Straight Type

- | | |
|---------------------------------------|----|
| - Two Female Adapter (KF--LK-F) | 17 |
| - Two Male Adapter (KF--LK-M) | 18 |
| - Male to Female Adapter (KF--LF-F/M) | 19 |

■ 90 Degree Elbow Type

- | | |
|---------------------------------------|----|
| - Two Female Adapter (KF--XG-F) | 20 |
| - Two Male Adapter (KF--XG-M) | 21 |
| - Male to Female Adapter (KF--XG-F/M) | 22 |

Explosion proof flexible coupling adapters are designed to adopt different installation conditions and to offer more flexible options for mounting the explosion proof flexible coupling. Explosion proof flexible coupling adapters are made with stainless steel, brass or iron. The overall structure is compact and dense. And have been certified with UL 1203 standard. Assembling the adapter firmly to explosion proof flexible coupling and explosion proof box to establish complete explosion proof system and achieve the function requirement of explosion proof.





Explosion Proof Flexible Coupling Adapters

KAIFLEX®

Series Code | **KF--LK-F**

Features | **Straight Type · Two Female Adapter · 1/2" ~ 6"**

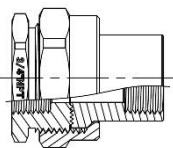
Product Photo



Nominal Conduit Size	M Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2	M20x1.5	KF--LK1F11	10	2.9	1/2"	KF--LK1F21	10	2.9
3/4	M25x1.5	KF--LK2F11	10	3.8	3/4"	KF--LK2F21	10	3.8
1	M32x1.5	KF--LK3F11	10	5.3	1"	KF--LK3F21	10	5.3
1-1/4	M40x1.5	KF--LK4F11	5	3.5	1-1/4"	KF--LK4F21	5	3.5
1-1/2	M50x1.5	KF--LK5F11	5	4.1	1-1/2"	KF--LK5F21	5	4.1
2	M63x1.5	KF--LK6F11	5	5.8	2"	KF--LK6F21	5	5.8
2-1/2	M75x1.5	KF--LK7F11	2	-	2-1/2"	KF--LK7F21	2	-
3	M90x2	KF--LK8F11	2	-	3"	KF--LK8F21	2	-
4	M110x2	KF--LK9F11	2	-	4"	KF--LK9F21	2	-
5	M140x2	KF--LK10F11	1	-	5"	KF--LK10F21	1	-
6	M164x2	KF--LK11F11	1	-	6"	KF--LK11F21	1	-

Material | Stainless Steel 304 (1/2"~6"), Brass (1/2"~2"), Iron (2-1/2"~6")
Compression Strength | Max. 6000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")
Thread | NPT, M
RoHS | Yes
Compliance Certificate | cULus (File No.: E490826)

Profile



Note



Explosion Proof Flexible Coupling Adapters

KAIFLEX®

Series Code | **KF--LK-M**

Features | **Straight Type · Two Male Adapter · 1/2" ~ 6"**

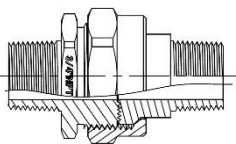
Product Photo



Nominal Conduit Size	M Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2	M20x1.5	KF--LK1M11	10	3.7	1/2"	KF--LK1M21	10	3.7
3/4	M25x1.5	KF--LK2M11	10	4.6	3/4"	KF--LK2M21	10	4.6
1	M32x1.5	KF--LK3M11	10	7.6	1"	KF--LK3M21	10	7.6
1-1/4	M40x1.5	KF--LK4M11	5	4.6	1-1/4"	KF--LK4M21	5	4.6
1-1/2	M50x1.5	KF--LK5M11	5	5.7	1-1/2"	KF--LK5M21	5	5.7
2	M63x1.5	KF--LK6M11	5	8.1	2"	KF--LK6M21	5	8.1
2-1/2	M75x1.5	KF--LK7M11	2	-	2-1/2"	KF--LK7M21	2	-
3	M90x2	KF--LK8M11	2	-	3"	KF--LK8M21	2	-
4	M110x2	KF--LK9M11	2	-	4"	KF--LK9M21	2	-
5	M140x2	KF--LK10M11	1	-	5"	KF--LK10M21	1	-
6	M164x2	KF--LK11M11	1	-	6"	KF--LK11M21	1	-

Material | Stainless Steel 304 (1/2"~6"), Brass (1/2"~2"), Iron (2-1/2"~6")
Compression Strength | Max. 6000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")
Thread | NPT, M
RoHS | Yes
Compliance Certificate | cULus (File No.: E490826)

Profile



Note



Explosion Proof Flexible Coupling Adapters

KAIFLEX®

Series Code | **KF--LK-F/M**

Features | **Straight Type · Male to Female Adapter · 1/2" ~ 6"**

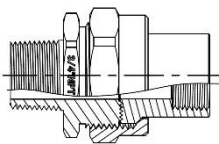
Product Photo



Nominal Conduit Size	M Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2	M20x1.5	KF--LK1F/M11	10	3.2	1/2"	KF--LK1F/M21	10	3.2
3/4	M25x1.5	KF--LK2F/M11	10	4.3	3/4"	KF--LK2F/M21	10	4.3
1	M32x1.5	KF--LK3F/M11	10	6.4	1"	KF--LK3F/M21	10	6.4
1-1/4	M40x1.5	KF--LK4F/M11	5	3.9	1-1/4"	KF--LK4F/M21	5	3.9
1-1/2	M50x1.5	KF--LK5F/M11	5	4.9	1-1/2"	KF--LK5F/M21	5	4.9
2	M63x1.5	KF--LK6F/M11	5	6.5	2"	KF--LK6F/M21	5	6.5
2-1/2	M75x1.5	KF--LK7F/M11	2	-	2-1/2"	KF--LK7F/M21	2	-
3	M90x2	KF--LK8F/M11	2	-	3"	KF--LK8F/M21	2	-
4	M110x2	KF--LK9F/M11	2	-	4"	KF--LK9F/M21	2	-
5	M140x2	KF--LK10F/M11	1	-	5"	KF--LK10F/M21	1	-
6	M164x2	KF--LK11F/M11	1	-	6"	KF--LK11F/M21	1	-

Material | Stainless Steel 304 (1/2"~6"), Brass (1/2"~2"), Iron (2-1/2"~6")
Compression Strength | Max. 6000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")
Thread | NPT, M
RoHS | Yes
Compliance Certificate | cULus (File No.: E490826)

Profile



Note



Explosion Proof Flexible Coupling Adapters

KAIFLEX®

Series Code | **KF--XG-F**

Features | **90 Degree Elbow · Two Female Adapter · 1/2" ~ 6"**

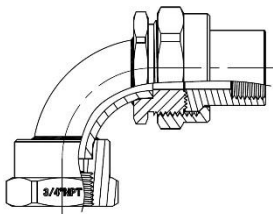
Product Photo



Nominal Conduit Size	M Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2	M20x1.5	KF--XG1F11	6	3	1/2"	KF--XG1F21	6	3
3/4	M25x1.5	KF--XG2F11	6	4.2	3/4"	KF--XG2F21	6	4.2
1	M32x1.5	KF--XG3F11	6	5.8	1"	KF--XG3F21	6	5.8
1-1/4	M40x1.5	KF--XG4F11	2	2.6	1-1/4"	KF--XG4F21	2	2.6
1-1/2	M50x1.5	KF--XG5F11	2	3.2	1-1/2"	KF--XG5F21	2	3.2
2	M63x1.5	KF--XG6F11	2	4.6	2"	KF--XG6F21	2	4.6
2-1/2	M75x1.5	KF--XG7F11	1	-	2-1/2"	KF--XG7F21	1	-
3	M90x2	KF--XG8F11	1	-	3"	KF--XG8F21	1	-
4	M110x2	KF--XG9F11	1	-	4"	KF--XG9F21	1	-
5	M140x2	KF--XG10F11	1	-	5"	KF--XG10F21	1	-
6	M164x2	KF--XG11F11	1	-	6"	KF--XG11F21	1	-

Material | Stainless Steel 304 (1/2"~6"), Brass (1/2"~2"), Iron (2-1/2"~6")
Compression Strength | Max. 6000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")
Thread | NPT, M
RoHS Compliance Certificate | Yes
 cULus (File No.: E490826)

Profile



Note



Explosion Proof Flexible Coupling Adapters

KAIFLEX®

Series Code | **KF--XG-M**

Features | **90 Degree Elbow · Two Male Adapter · 1/2" ~ 6"**

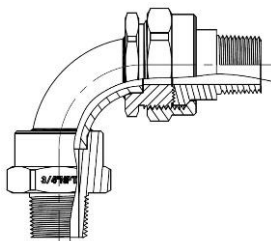
Product Photo



Nominal Conduit Size	M Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2	M20x1.5	KF--XG1M11	6	3	1/2"	KF--XG1M21	6	3
3/4	M25x1.5	KF--XG2M11	6	4	3/4"	KF--XG2M21	6	4
1	M32x1.5	KF--XG3M11	6	6.1	1"	KF--XG3M21	6	6.1
1-1/4	M40x1.5	KF--XG4M11	2	2.7	1-1/4"	KF--XG4M21	2	2.7
1-1/2	M50x1.5	KF--XG5M11	2	3.3	1-1/2"	KF--XG5M21	2	3.3
2	M63x1.5	KF--XG6M11	2	4.9	2"	KF--XG6M21	2	4.9
2-1/2	M75x1.5	KF--XG7M11	1	-	2-1/2"	KF--XG7M21	1	-
3	M90x2	KF--XG8M11	1	-	3"	KF--XG8M21	1	-
4	M110x2	KF--XG9M11	1	-	4"	KF--XG9M21	1	-
5	M140x2	KF--XG10M11	1	-	5"	KF--XG10M21	1	-
6	M164x2	KF--XG11M11	1	-	6"	KF--XG11M21	1	-

Material | Stainless Steel 304 (1/2"~6"), Brass (1/2"~2"), Iron (2-1/2"~6")
Compression Strength | Max. 6000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")
Thread | NPT, M
RoHS Compliance Certificate | Yes
 cULus (File No.: E490826)

Profile



Note



Explosion Proof Flexible Coupling Adapters

KAIFLEX®

Series Code | **KF--XG-F/M**

Features | **90 Degree Elbow · Male to Female Adapter · 1/2" ~ 6"**

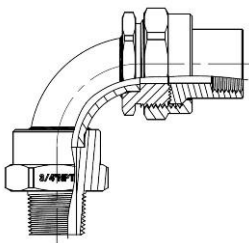
Product Photo



Nominal Conduit Size	M Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2	M20x1.5	KF--XG1F/M11	6	2.8	1/2"	KF--XG1F/M21	6	2.8
3/4	M25x1.5	KF--XG2F/M11	6	3.9	3/4"	KF--XG2F/M21	6	3.9
1	M32x1.5	KF--XG3F/M11	6	5.4	1"	KF--XG3F/M21	6	5.4
1-1/4	M40x1.5	KF--XG4F/M11	2	2.4	1-1/4"	KF--XG4F/M21	2	2.4
1-1/2	M50x1.5	KF--XG5F/M11	2	3	1-1/2"	KF--XG5F/M21	2	3
2	M63x1.5	KF--XG6F/M11	2	4.3	2"	KF--XG6F/M21	2	4.3
2-1/2	M75x1.5	KF--XG7F/M11	1	-	2-1/2"	KF--XG7F/M21	1	-
3	M90x2	KF--XG8F/M11	1	-	3"	KF--XG8F/M21	1	-
4	M110x2	KF--XG9F/M11	1	-	4"	KF--XG9F/M21	1	-
5	M140x2	KF--XG10F/M11	1	-	5"	KF--XG10F/M21	1	-
6	M164x2	KF--XG11F/M11	1	-	6"	KF--XG11F/M21	1	-

Material | Stainless Steel 304 (1/2"~6"), Brass (1/2"~2"), Iron (2-1/2"~6")
Compression Strength | Max. 6000 psi (1/2", 3/4"), Max. 1200 psi (1"~2")
Thread | NPT, M
RoHS Compliance Certificate | Yes
 cULus (File No.: E490826)

Profile



Note



Ordering Information Guide

KAIFLEX®

KF--GJH X X XX X 1
① ② ③ ④ ⑤ ⑥

Apply for Explosion Proof Flexible Coupling (Flameproof Type)

① Category	② Conduit Size	③ Fitting Type Both End	④ Conduit Length	⑤ Thread	⑥ Core Material
Explosion Proof Flexible Coupling (Flameproof Type)	UL/IEC Certificate 1: 1/2" 2: 3/4" 3: 1" 4: 1-1/4" 5: 1-1/2" 6: 2"	F: Two Female Fitting M: Two Male Fitting F/M: Male to Female End Fitting	4: 4" 6: 6" 8: 8" 10: 10" 12: 12" 15: 15" 18: 18" 21: 21" 24: 24" 27: 27" 30: 30" 33: 33" 36: 36"	1: M 2: NPT	1: Stainless Steel
	IEC Certificate 7: 2-1/2" 8a: 3a" 8b: 3b" 9: 4"				

EX -- XXXXXX X X P X X
① ② ③ ④ ⑤ ⑥ ⑦

Apply for Explosion Proof Flexible Coupling (Increased Safety Type)

① Category	② ID+OD	③ Core Material	④ Structure	⑤ Jacket Material
Explosion Proof Flexible Coupling (Increased Safety Type)	Six Code	S: Stainless Steel G: Galvanized Steel	1: Square Lock 2: Interlocked	P: PVC
⑥ Fitting Type Both End	⑦ Thread			
F: Two Female Fitting M: Two Male Fitting F/M: Male to Female End Fitting	1: M 2: NPT 3: G			



Ordering Information Guide

KAIFLEX®

KF -- **XX** **X** **X** **X** **X**
① **②** **③** **④** **⑤** **⑥**

Apply for Explosion Proof Flexible Coupling Adapters

① Category	② Type	③ Size	④ Adapter Type Both End	⑤ Thread	⑥ Material
Abbreviation of KAIFLEX	LK: Straight Type XG: 90 Degree Elbow Type	1: 1/2" 2: 3/4" 3: 1" 4: 1-1/4" 5: 1-1/2" 6: 2" 7: 2-1/2" 8: 3" 9: 4" 10: 5" 11: 6"	F: Two Female Adapter M: Two Male Adapter F/M: Male to Female Adapter	1: M 2: NPT	1: Stainless Steel 304 2: Brass 3: Iron



Guide of UL 1203 Marking

Class I , Division 1 , Groups A~F

Properties of Hazardous Substance

Class I = Flammable Gases
[Class II = Flammable Dust](#)
 Class III = Flammable Fibers

Presence of Hazardous Substance

Division 1 = Present all time
 Division 2 = Present for short time

Specific Material Properties

Groups A = Acetylene ★
 Groups B = Hydrogen ★
 Groups C = Ethylene
 Groups D = Propane
[Groups E = Metal Dust](#)
[Groups F = Carbonaceous Dust](#)
[Groups G = Non-Conductive Dust](#)

★ For size 1/2" and 3/4" only.



Guide of Marking

KAIFLEX®

Guide of ATEX Marking

 **II** **2G** **Ex** **db** **IIC** **Gb**
 **II** **2D** **Ex** **tb** **IIIC** **Db**

Explosion Protection Mark

Device Group

I = Mining
II = All Other Areas (Non-Mining)

Area Classification

1 = Zones 0 (Gas) or 20 (Dust)
2 = Zones 1 (Gas) or 21 (Dust)
3 = Zones 2 (Gas) or 22 (Dust)

Surrounding Atmosphere

G = Gas
D = Dust

IECEx / ATEX Certified

Equipment Protection Level (EPL)

Ga (Gas) / Da (Dust) = Very High Level
Gb (Gas) / Db (Dust) = High Level
Gc (Gas) / Dc (Dust) = Enhanced

Specific Material Properties

IIC= Acetylene + Hydrogen
IIB = Ethylene
IIA = Propane
IIIC = Conductive Dust
IIIB = Non-Conductive Dust
IIIA = Combustible Flyings

Protection Type

d = Flameproof Enclosure
t = Protection by Enclosure
i = Intrinsic Safety
e = Increased Safety



Guide of IECEx Marking

Ex db IIC Gb
Ex tb IIIC Db

Equipment Protection Level (EPL)

Ga (Gas) / Da (Dust) = Very High Level
Gb (Gas) / Db (Dust) = High Level
Gc (Gas) / Dc (Dust) = Enhanced

Specific Material Properties

IIC = Acetylene + Hydrogen
IIB = Ethylene
IIA = Propane
IIIC = Conductive Dust
IIIB = Non-Conductive Dust
IIIA = Combustible Flyings

Protection Type

d = Flameproof Enclosure
t = Protection by Enclosure
i = Intrinsic Safety
e = Increased Safety

IECEx / ATEX Certified

IP Coding System

IP coding system is to indicate the degrees of protection provided by enclosures for electrical equipment against access to hazardous parts, ingress of solid objects and liquid. The greater numeral means higher protection rating.

IP XX

Solid Particle Protection	
0	No Protection
1	Protect against the object >50mm ex.: carelessly touch by hands
2	Protect against the object >12.5mm ex.: carelessly touch by fingers
3	Protect against the object >2.5mm ex.: tools, thick wires & etc.
4	Protect against the object >1.0mm ex.: most wires, thin screws, ants & etc.
5	Dust Protection. Ingress amount interfering operation is not allowed.
6	Dust tight. No ingress is allowed.

Liquid Ingress Protection	
0	No Protection
1	Protect against vertically dripping water.
2	Protect against vertically dripping water while specimen sloped at 15°.
3	Protect against spraying water at any angle up to 60° from vertical.
4	Protect against splashing water from any direction. Limit ingress is permitted.
5	Protect against water projected with low pressure from any direction. Limit ingress is permitted.
6	Protect against water projected with high pressure from any direction. Limit ingress is permitted.
7	Protect against immersion in water up to 1m for 30min. Limit ingress is permitted.
8	Protect against continuous immersion in water with depth deeper than 1m.
9K	Protect against close-range high pressure (80~100bar), high temperature (80°C) water jet from any direction.



KAIFLEX® | **Kaiphone**

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