



Explosion Proof Flexible Coupling & Adapter

- UL/IECEX/ATEX Standard Applicable -



www.atd-elektronik.cz



Explosion Proof Flexible Coupling & Adapter

| New Brand with Mature Technics |



Company Profile

- 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 / CSA / CE / Ex / CB / ATEX / TS / CCC
 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 Male Fitting (EX--GXPM) | 13 |

Explosion Proof Flexible Coupling Adapters

| | |
|--|----|
| ■ Straight Type | |
| - Two Female Adapter (KF--LK-F) | 15 |
| - Two Male Adapter (KF--LK-M) | 16 |
| - Rotating Female to Male Adapter (KF--LK-F/M) | 17 |
| - Rotating Male to Female Adapter (KF--LK-M/F) | 18 |
| ■ 90 Degree Elbow Type | |
| - Two Female Adapter (KF--XG-F) | 19 |
| - Two Male Adapter (KF--XG-M) | 20 |
| - Rotating Female to Male Adapter (KF--XG-F/M) | 21 |
| - Rotating Male to Female Adapter (KF--XG-M/F) | 22 |

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| Guide of Marking | 25 |
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Explosion Proof Flexible Coupling (Flameproof Type)



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| ■ 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 | | | | 2" [N] | |
|----------------------|--------|---|----------------|---------------|------------------|------------------|---------------|
| | | 1/2" 254 mm | 3/4" 305 mm | 1" 356 mm | 1-1/4" 406 mm | 1-1/2" 406 mm | 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 |
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| | 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 |
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Ordering Information

Compression Strength

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

Thread

NPT, M

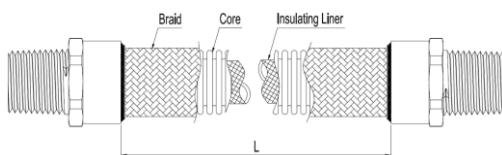
RoHS Compliance

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-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

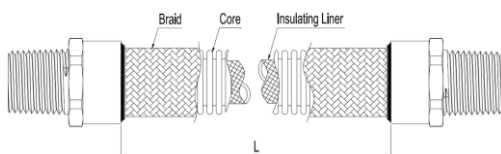
RoHS Compliance

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 | - | - | - |
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| | NPT | KF--GJH1F1021 | KF--GJH2F1021 | KF--GJH3F1021 | - | - | - |
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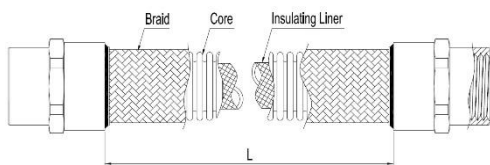
NPT, M

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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| | NPT | KF--GJH7F3321 | KF--GJH8aF3321 | KF--GJH9F3321 |
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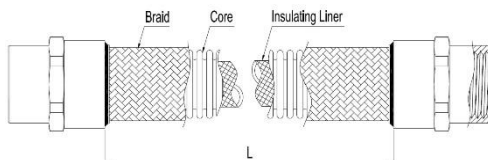
RoHS Compliance

Yes

Certificate

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

Profile



Note

1. Certified max. length: 36"
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| | 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

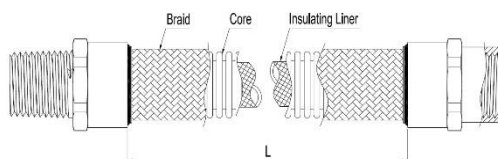
RoHS Compliance

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

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

Thread

NPT, M

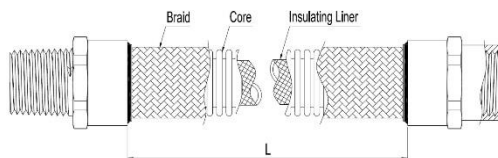
RoHS Compliance

Yes

Certificate

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

Profile

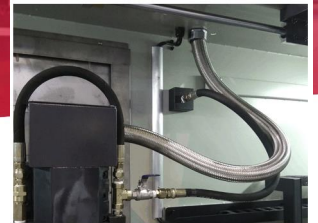


Note

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



Explosion Proof Flexible Coupling (Increased Safety Type)



Explosion Proof Flexible Coupling (Increased Safety Type)

■ Two Male Fitting (EX--GXPM)

13

Increased safety type explosion proof flexible coupling is flexible and water & dust proof complying with requirement of GB/T3836 standard and have acquired the certificate of CCC. Applied for wiring protection in the environment where the facility will not generate sparkle or arcs under normal operating conditions and for the wire connection between the increased safety type of equipment. 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. Two end connectors can be transferred from male thread to female thread by removing the male thread body depending on installation requirement.

CCC (2021122313114165)

Ex eb IIC Gb





Explosion Proof Flexible Coupling – Increased Safety Type

KAIFLEX®

Series Code | **EX--GXPM**

Features | **Galvanized Steel · Two Male Fitting · 3/8" ~ 2"**

Product Photo



Ordering Information

| Nominal Conduit Size (mm) | Nominal Conduit Size (inch) | Thread | Part Number | Min. ID (mm) | Max. OD (mm) | Min. Bending Radius (mm) |
|---------------------------|-----------------------------|--------|-------------------|--------------|--------------|--------------------------|
| 12 | 3/8 | M | EX--12551775G1PM1 | 12.29~12.80 | 17.50~18.00 | 60.8 |
| | | NPT | EX--12551775G1PM2 | | | |
| 16 | 1/2 | M | EX--16062105G1PM1 | 15.80~16.31 | 20.80~21.30 | 92.6 |
| | | NPT | EX--16062105G1PM2 | | | |
| 21 | 3/4 | M | EX--21092595G1PM1 | 20.83~21.34 | 25.20~26.70 | 117.9 |
| | | NPT | EX--21092595G1PM2 | | | |
| 27 | 1 | M | EX--26763310G1PM1 | 26.44~27.08 | 32.80~33.40 | 175.1 |
| | | NPT | EX--26763310G1PM2 | | | |
| 35 | 1-1/4 | M | EX--35434180G1PM1 | 35.05~35.81 | 41.40~42.20 | 213.2 |
| | | NPT | EX--35434180G1PM2 | | | |
| 41 | 1-1/2 | M | EX--40334805G2PM1 | 40.01~40.64 | 47.40~48.30 | 238.6 |
| | | NPT | EX--40334805G2PM2 | | | |
| 53 | 2 | M | EX--51635985G2PM1 | 51.31~51.94 | 59.40~60.30 | 292.6 |
| | | NPT | EX--51635985G2PM2 | | | |

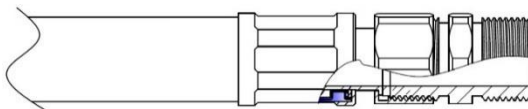
IP Rating | IP 66

Thread | M, NPT

RoHS Compliance | Yes

Certificate | CCC (File No.: 2021122313114165)

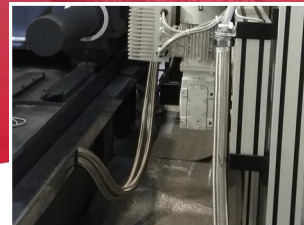
Profile



3/8" ~ 1-1/4", Square-lock, with bonding strip
1-1/2" ~ 2", Interlocked

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) 15
- Two Male Adapter (KF--LK-M) 16
- Rotating Female to Male Adapter (KF--LK-F/M) 17
- Rotating Male to Female Adapter (KF--LK-M/F) 18

■ 90 Degree Elbow Type

- Two Female Adapter (KF--XG-F) 19
- Two Male Adapter (KF--XG-M) 20
- Rotating Female to Male Adapter (KF--XG-F/M) 21
- Rotating Male to Female Adapter (KF--XG-M/F) 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"**

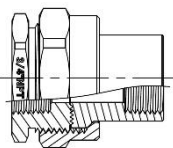
Product Photo



| 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 Compliance | Yes
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"**

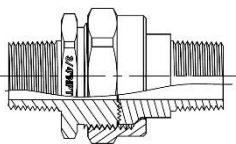
Product Photo



| Nominal Conduit Size | M Thread | | | | NPT Thread | | | |
|----------------------|----------|-------------|-------------------|-----------------|------------|-------------|-------------------|-----------------|
| | 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 Compliance | Yes
Certificate | cULus (File No.: E490826)

Profile



Note





Explosion Proof Flexible Coupling Adapters

KAIFLEX®

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

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

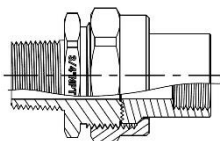
Product Photo



| Nominal Conduit Size | M Thread | | | | NPT Thread | | | |
|----------------------|----------|---------------|-------------------|-----------------|------------|---------------|-------------------|-----------------|
| | 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 Compliance | Yes
Certificate | cULus (File No.: E490826)

Profile



Note





Explosion Proof Flexible Coupling Adapters

KAIFLEX®

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

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

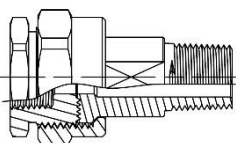
Product Photo



| 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--LK1M/F11 | 10 | - | 1/2" | KF--LK1M/F21 | 10 | - |
| 3/4 | M25x1.5 | KF--LK2M/F11 | 10 | - | 3/4" | KF--LK2M/F21 | 10 | - |
| 1 | M32x1.5 | KF--LK3M/F11 | 10 | - | 1" | KF--LK3M/F21 | 10 | - |
| 1-1/4 | M40x1.5 | KF--LK4M/F11 | 5 | - | 1-1/4" | KF--LK4M/F21 | 5 | - |
| 1-1/2 | M50x1.5 | KF--LK5M/F11 | 5 | - | 1-1/2" | KF--LK5M/F21 | 5 | - |
| 2 | M63x1.5 | KF--LK6M/F11 | 5 | - | 2" | KF--LK6M/F21 | 5 | - |
| 2-1/2 | M75x1.5 | KF--LK7M/F11 | 2 | - | 2-1/2" | KF--LK7M/F21 | 2 | - |
| 3 | M90x2 | KF--LK8M/F11 | 2 | - | 3" | KF--LK8M/F21 | 2 | - |
| 4 | M110x2 | KF--LK9M/F11 | 2 | - | 4" | KF--LK9M/F21 | 2 | - |
| 5 | M140x2 | KF--LK10M/F11 | 1 | - | 5" | KF--LK10M/F21 | 1 | - |
| 6 | M164x2 | KF--LK11M/F11 | 1 | - | 6" | KF--LK11M/F21 | 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 | Yes
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"**

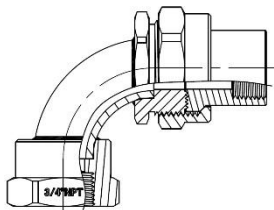
Product Photo



| Nominal Conduit Size | M Thread | | | | NPT Thread | | | |
|----------------------|----------|-------------|-------------------|-----------------|------------|-------------|-------------------|-----------------|
| | 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"**

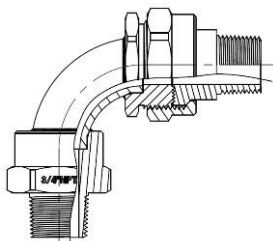
Product Photo



| Nominal Conduit Size | M Thread | | | | NPT Thread | | | |
|----------------------|----------|-------------|-------------------|-----------------|------------|-------------|-------------------|-----------------|
| | 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 · Rotating Female to Male Adapter · 1/2" ~ 6"**

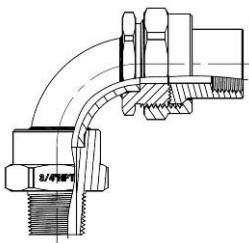
Product Photo



| Nominal Conduit Size | M Thread | | | | NPT Thread | | | |
|----------------------|----------|---------------|-------------------|-----------------|------------|---------------|-------------------|-----------------|
| | 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





Explosion Proof Flexible Coupling Adapters

KAIFLEX®

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

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

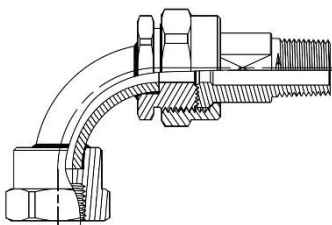
Product Photo



| Nominal Conduit Size | M Thread | | | | NPT Thread | | | |
|----------------------|----------|---------------|-------------------|-----------------|------------|---------------|-------------------|-----------------|
| | 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--XG1M/F11 | 6 | - | 1/2" | KF--XG1M/F21 | 6 | - |
| 3/4 | M25x1.5 | KF--XG2M/F11 | 6 | - | 3/4" | KF--XG2M/F21 | 6 | - |
| 1 | M32x1.5 | KF--XG3M/F11 | 6 | - | 1" | KF--XG3M/F21 | 6 | - |
| 1-1/4 | M40x1.5 | KF--XG4M/F11 | 2 | - | 1-1/4" | KF--XG4M/F21 | 2 | - |
| 1-1/2 | M50x1.5 | KF--XG5M/F11 | 2 | - | 1-1/2" | KF--XG5M/F21 | 2 | - |
| 2 | M63x1.5 | KF--XG6M/F11 | 2 | - | 2" | KF--XG6M/F21 | 2 | - |
| 2-1/2 | M75x1.5 | KF--XG7M/F11 | 1 | - | 2-1/2" | KF--XG7M/F21 | 1 | - |
| 3 | M90x2 | KF--XG8M/F11 | 1 | - | 3" | KF--XG8M/F21 | 1 | - |
| 4 | M110x2 | KF--XG9M/F11 | 1 | - | 4" | KF--XG9M/F21 | 1 | - |
| 5 | M140x2 | KF--XG10M/F11 | 1 | - | 5" | KF--XG10M/F21 | 1 | - |
| 6 | M164x2 | KF--XG11M/F11 | 1 | - | 6" | KF--XG11M/F21 | 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 | F: Two Female Fitting | 4: 4" | 1: M | 1: Stainless Steel |
| | 1: 1/2" | M: Two Male Fitting | 6: 6" | 2: NPT | |
| | 2: 3/4" | F/M: Male to Female End Fitting | 8: 8" | | |
| | 3: 1" | | 10: 10" | | |
| | 4: 1-1/4" | | 12: 12" | | |
| | 5: 1-1/2" | | 15: 15" | | |
| | 6: 2" | | 18: 18" | | |
| | IEC Certificate | | 21: 21" | | |
| | 7: 2-1/2" | | 24: 24" | | |
| 8a: 3a" | | 27: 27" | | | |
| 8b: 3b" | | 30: 30" | | | |
| 9: 4" | | 33: 33" | | | |
| | | 36: 36" | | | |

EX -- XXXXXXXX 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) | Eight Code | S: Stainless Steel | 1: Square Lock | P: PVC |
| | | G: Galvanized Steel | 2: Interlocked | |
| ⑥ Fitting Type Both End | | ⑦ Thread | | |
| M: Two Male Fitting | | 1: M | | |
| | | 2: NPT | | |





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: Rotating Female to Female Adapter M: Rotating Male to Male Adapter F/M: Rotating Female to Male Adapter M/F: Rotating 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 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 immersion in water up to 1.2m for 30min. No infiltration is allowed. |
| 9K | Protect against close-range high pressure (80~100bar), high temperature (80°C) water jet from any direction. |



KAIFLEX[®] | Kaiphone

