



Flexible Conduit & Fitting (US)

- UL Standard Applicable -



Kaiphone Technology Co., Ltd.

Flexible Conduit & Fitting-US

| 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.

Flexible Conduit & Fitting-US



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Liquid Tight Flexible Metal Conduit & Fitting (UL)

- ▶ UL Listed / cULus Listed / Computer Blue / Hi-Low Temperature / LSZH
- ▶ Galvanized Steel
- ▶ Size 3/8"~4"
- ▶ RoHS Compliant
- ▶ IP 68



UL Listed

- Series : PULTG
- Page : 6

Applicable for the protection of circuit with 600 volts or lower in locations where UL certificate is required, including commercial buildings, industrial/power plant, shipyards, marine or boat, computer rooms, etc.

Computer Blue

- Series : PCBLTG
- Page : 7

Applicable for the protection of circuit with 600 volts or lower in locations where UL certificate is required, including power cable, data & communication lines from computer room to internal network, etc.

cULus Listed

- Series : PCULTG
- Page : 6

This series is certified with the standard UL360 & CSA C22.2 No.56 for full trade size and especially applicable for the occasions in lower temperature. It is also the best solution for closed spaces, indoor or outdoor environments with severe conditions.

Hi-Low Temperature

- Series : PHLTG
- Page : 7

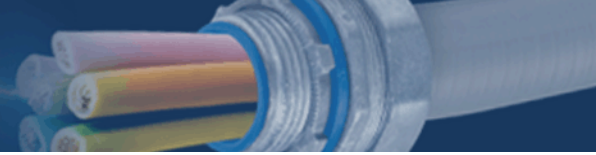
Applicable for the protection of circuit with 600 volts or lower in locations where cULus certificate is required and in high or low temperature of having large temperature differences, such as refrigeration system, steelworks, wiring system in places close to polar region or desert, etc.

Low Smoke Zero Halogen (LSZH)

- Series : PNKLTG
- Page : 8

The feature of low smoke and zero halogen is efficient to delay fire expansion when having combustion. Low toxicity and low smoke offer the benefit for the Liquid Tight Metal Flexible Conduit to be used in indoor or closed spaces. It is also the most ideal solution for other indoor or outdoor environments with severe conditions, such as subways, tunnels, hospital, clean room, etc.





Liquid Tight Flexible Metal Conduit

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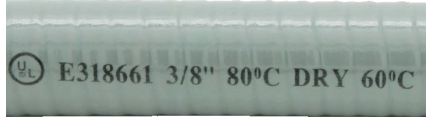
Series Code

PULTG

Features

UL Listed, Galvanized Steel, PVC Jacket (Grey)

Product Photo



PCULTG

cULus Listed, Galvanized Steel, PVC Jacket (Grey)



Nominal Conduit Size (mm)
Nominal Conduit Size (inch)

Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
PULTG1-3/8	12.29~12.80	17.50~18.00	60.8	100/30.5	440*440*140
PULTG1-1/2	15.80~16.31	20.80~21.30	92.55	100/30.5	440*440*160
PULTG1-3/4	20.83~21.34	25.20~26.70	117.95	100/30.5	500*500*180
PULTG1-1	26.44~27.08	32.80~33.40	175.1	100/30.5	600*600*300
PULTG1-1-1/4	35.05~35.81	41.40~42.20	213.2	50/15.3	750*750*130
PULTG2-1-1/2	40.01~40.64	47.40~48.30	238.6	50/15.3	750*750*250
PULTG2-2	51.31~51.94	59.40~60.30	292.6	25/7.6	900*900*120
PULTG2-2-1/2	62.99~63.63	72.10~73.00	381.3	25/7.6	1000*1000*150
PULTG2-3	77.98~78.74	87.90~88.90	454.5	25/7.6	1100*1100*180
PULTG2-3-1/2	88.90~89.92	100.6~101.6	518	25/7.6	1125*1125*230
PULTG2-4	101.60~102.62	113.30~114.30	619.6	25/7.6	1125*1125*230

Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
PCULTG1-3/8	12.29~12.80	17.50~18.00	60.8	100/30.5	440*440*140
PCULTG1-1/2	15.80~16.31	20.80~21.30	92.55	100/30.5	440*440*160
PCULTG1-3/4	20.83~21.34	25.20~26.70	117.95	100/30.5	500*500*180
PCULTG1-1	26.44~27.08	32.80~33.40	175.1	100/30.5	600*600*300
PCULTG1-1-1/4	35.05~35.81	41.40~42.20	213.2	50/15.3	750*750*130
PCULTG2-1-1/2	40.01~40.64	47.40~48.30	238.6	50/15.3	750*750*250
PCULTG2-2	51.31~51.94	59.40~60.30	292.6	25/7.6	900*900*120
PCULTG2-2-1/2	62.99~63.63	72.10~73.00	381.3	25/7.6	1000*1000*150
PCULTG2-3	77.98~78.74	87.90~88.90	454.5	25/7.6	1100*1100*180
PCULTG2-3-1/2	88.90~89.92	100.6~101.6	518	25/7.6	1125*1125*230
PCULTG2-4	101.60~102.62	113.30~114.30	619.6	25/7.6	1125*1125*230

Temperature Range

-20°C~+105°C Dry, 60°C Wet, 70°C Oil
-20°C~+80°C Dry, 60°C Wet, 70°C Oil
-20°C~+60°C Dry, 60°C Wet, 60°C Oil

IP Rating

IP 40 (Fit with connector series: S52)
IP 68 (Fit with connector series: S50, S51 & S53)

Jacket Color

Grey (Standard), other colors are available by consult.

Medium

Fire Retardant

Self-extinguishing

UV Resistance

Yes

RoHS

Yes

Compliance

Yes

Certificate

UL (File No.: E318661)

-30°C~+75°C Dry, 60°C Wet, 75°C Oil

IP 40 (Fit with connector series: S52)
IP 68 (Fit with connector series: S50, S51 & S53)

Grey (Standard), other colors are available by consult.

Medium

Self-extinguishing

Yes

Yes

cULus (File No.: E318661)

Profile

PULTG1
(3/8"~1-1/4", Square-lock, with bonding strip)



PULTG2
(1-1/2"~4", Interlocked)



PCULTG1
(3/8"~1-1/4", Square-lock, with bonding strip)



PCULTG2
(1-1/2"~4", Interlocked)



Note

Liquid Tight Flexible Metal Conduit

KAIFLEX®

Series Code **PCBLTG**

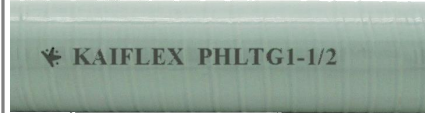
Features Computer Blue, Galvanized Steel, PVC Jacket (Blue)

Product Photo



PHLTG

Hi-Low Temperature, Galvanized Steel, PVC Jacket (Grey)



Nominal Conduit Size (mm)
Nominal Conduit Size (inch)

Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
PCBLTG1-3/8	12.29~12.80	17.50~18.00	60.8	100/30.5	440*440*140
PCBLTG1-1/2	15.80~16.31	20.80~21.30	92.55	100/30.5	440*440*160
PCBLTG1-3/4	20.83~21.34	25.20~26.70	117.95	100/30.5	500*500*180
PCBLTG1-1	26.44~27.08	32.80~33.40	175.1	100/30.5	600*600*300
PCBLTG1-1-1/4	35.05~35.81	41.40~42.20	213.2	50/15.3	750*750*130
PCBLTG2-1-1/2	40.01~40.64	47.40~48.30	238.6	50/15.3	750*750*250
PCBLTG2-2	51.31~51.94	59.40~60.30	292.6	25/7.6	900*900*120
PCBLTG2-2-1/2	62.99~63.63	72.10~73.00	381.3	25/7.6	1000*1000*150
PCBLTG2-3	77.98~78.74	87.90~88.90	454.5	25/7.6	1100*1100*180
PCBLTG2-3-1/2	88.90~89.92	100.6~101.6	518	25/7.6	1125*1125*230
PCBLTG2-4	101.60~102.62	113.30~114.30	619.6	25/7.6	1125*1125*230

Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
PHLTG1-3/8	12.29~12.80	17.50~18.00	60.8	100/30.5	440*440*140
PHLTG1-1/2	15.80~16.31	20.80~21.30	92.55	100/30.5	440*440*160
PHLTG1-3/4	20.83~21.34	25.20~26.70	117.95	100/30.5	500*500*180
PHLTG1-1	26.44~27.08	32.80~33.40	175.1	100/30.5	600*600*300
PHLTG1-1-1/4	35.05~35.81	41.40~42.20	213.2	50/15.3	750*750*130
PHLTG2-1-1/2	40.01~40.64	47.40~48.30	238.6	50/15.3	750*750*250
PHLTG2-2	51.31~51.94	59.40~60.30	292.6	25/7.6	900*900*120
PHLTG2-2-1/2	62.99~63.63	72.10~73.00	381.3	25/7.6	1000*1000*150
PHLTG2-3	77.98~78.74	87.90~88.90	454.5	25/7.6	1100*1100*180
PHLTG2-3-1/2	88.90~89.92	100.6~101.6	518	25/7.6	1125*1125*230
PHLTG2-4	101.60~102.62	113.30~114.30	619.6	25/7.6	1125*1125*230

Temperature Range

-20°C~+105°C Dry, 60°C Wet, 70°C Oil
-20°C~+80°C Dry, 60°C Wet, 70°C Oil
-20°C~+60°C Dry, 60°C Wet, 60°C Oil

IP Rating

IP 40 (Fit with connector series: S52)
IP 68 (Fit with connector series: S50, S51 & S53)

Jacket Color

Blue

Flexibility

Medium

Fire Retardant

Self-extinguishing

UV Resistance

Yes

RoHS

Yes

Compliance

UL (File No.: E318661)

-50°C~+105°C Dry, 75°C Oil (for cUL)
-55°C~+105°C Dry, 70°C Oil, 60°C Wet (for UL)

IP 40 (Fit with connector series: S52)
IP 68 (Fit with connector series: S50, S51 & S53)

Grey (Standard), other colors are available by consult.

Medium

Self-extinguishing

Yes

Yes

cULus (File No.: E318661)

Profile

PCBLTG1
(3/8"~1-1/4", Square-lock, with bonding strip)



PCBLTG2
(1-1/2"~4", Interlocked)



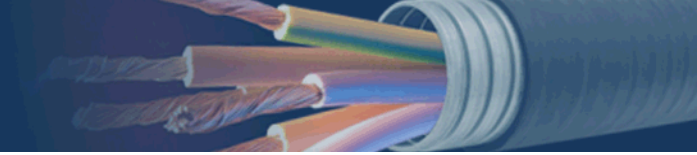
PHLTG1
(3/8"~1-1/4", Square-lock, with bonding strip)



PHLTG2
(1-1/2"~4", Interlocked)



Note



Liquid Tight Flexible Metal Conduit

KAIFLEX®

Series Code **PNKLTG**

Features **Low Smoke Zero Halogen, Galvanized Steel, LSZH Jacket (Black)**

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
12	3/8	PNKLTG1-3/8	12.29~12.80	17.50~18.00	60.8	100/30.5	440*440*140
16	1/2	PNKLTG1-1/2	15.80~16.31	20.80~21.30	92.55	100/30.5	440*440*160
21	3/4	PNKLTG1-3/4	20.83~21.34	25.20~26.70	117.95	100/30.5	500*500*180
27	1	PNKLTG1-1	26.44~27.08	32.80~33.40	175.1	100/30.5	600*600*300
35	1-1/4	PNKLTG1-1-1/4	35.05~35.81	41.40~42.20	213.2	50/15.3	750*750*130
41	1-1/2	PNKLTG2-1-1/2	40.01~40.64	47.40~48.30	238.6	50/15.3	750*750*250
53	2	PNKLTG2-2	51.31~51.94	59.40~60.30	292.6	25/7.6	900*900*120
63	2-1/2	—	—	—	—	—	—
78	3	—	—	—	—	—	—
91	3-1/2	—	—	—	—	—	—
103	4	—	—	—	—	—	—

Temperature Range -30°C~+80°C

IP Rating IP 40 (Fit with connector series: S52)
IP 68 (Fit with connector series: S50, S51 & S53)

Jacket Color Black

Flexibility Medium

Fire Retardant Self-extinguishing

UV Resistance No

RoHS Compliance Yes

Certificate —

Profile PNKLTG1
(3/8"~1-1/4", Square-lock, with bonding strip)



PNKLTG2
(1-1/2"~4", Interlocked)



Note



Fittings

KAIFLEX®

Series Code S50

Features Straight Type, Water Seal, Zinc Alloy

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
12	3/8	1/2"	S501-3/8	300	22.5
16	1/2	1/2"	S502-1/2	400	22
21	3/4	3/4"	S503-3/4	240	19.7
27	1	1"	S504-1	160	20.2
35	1-1/4	1-1/4"	S505-1-1/4	80	18.6
41	1-1/2	1-1/2"	S506-1-1/2	60	16.6
53	2	2"	S507-2	50	18
63	2-1/2	2-1/2"	S508-2-1/2	25	16
78	3	3"	S509-3	12	12
103	4	4"	S5010-4	10	17.2

Temperature Range -20°C~+90°C

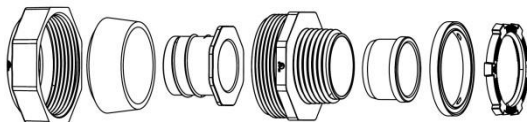
IP Rating IP 68 (Fit with conduit series: PULTG, PCBLTG, PHLTG & PNKLTG)

Surface Finish Chromate, other treatments are available by consult.

RoHS Compliance Yes

Certificate cULus
File No.: E256570

Exploded View



Note 1. Standard package size : 380*300*230mm

S51

Straight Inner Threaded Connector, Water Seal, Zinc Alloy



NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2"	S511-3/8	500	18.5
1/2"	S512-1/2	500	19.5
3/4"	S513-3/4	240	17.8
1"	S514-1	160	18.6
1-1/4"	S515-1-1/4	80	15.4
1-1/2"	S516-1-1/2	60	13.6
2"	S517-2	50	18
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—	—	—	—
—	—	—	—

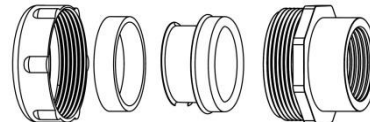
-20°C~+90°C

IP 68 (Fit with conduit series: PULTG, PCBLTG, PHLTG & PNKLTG)

Zinc plated, other treatments are available by consult.

Yes

cULus (S512-1/2, S514-1, S516-1-1/2, S517-2)
File No.: E256570



1. Standard package size : 380*300*230mm



Fittings

KAIFLEX®

Series Code S52

Features Straight EMT Connector, Zinc Alloy

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	EMT Conduit Size	Part Number	Package/Box (pcs)	Weight/Box (kg)
12	3/8	1/2"	S521-3/8	300	17.8
16	1/2	1/2"	S522-1/2	300	18.4
21	3/4	3/4"	S523-3/4	240	19
27	1	1"	S524-1	160	18.6
35	1-1/4	1-1/4"	S525-1-1/4	80	15.4
41	1-1/2	1-1/2"	S526-1-1/2	60	15.4
53	2	2"	S527-2	50	19
63	2-1/2	2-1/2"	S528-2-1/2	25	15.5
78	3	3"	S529-3	12	10.2
103	4	4"	S5210-4	10	15.0

Temperature Range -20°C~+90°C

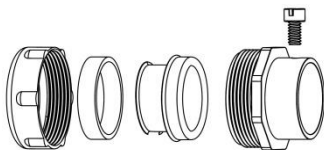
IP Rating IP 40 (Fit with conduit series: PULTG, PCBLTG, PHLTG & PNKLTG)

Surface Finish Zinc plated, other treatments are available by consult.

RoHS Compliance Yes

Certificate —

Exploded View



- Note**
1. Standard package size : 380*300*230mm
 2. The screws on fitting body is increased along with fitting size
(Size 3/8"~1-1/4": 1 pcs, 1-1/2"~2-1/2": 2 pcs, 3" & 4" : 3 pcs)

S53

90 Degree Elbow, Water Seal, Zinc Alloy



NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2"	S531-3/8	200	16.2
1/2"	S532-1/2	200	17.2
3/4"	S533-3/4	160	18.6
1"	S534-1	100	19
1-1/4"	S535-1-1/4	39	12.7
1-1/2"	S536-1-1/2	30	12.7
2"	S537-2	16	9
2-1/2"	S538-2-1/2	12	12.6
3	S539-3	8	12.2
4	S5310-4	4	9.4

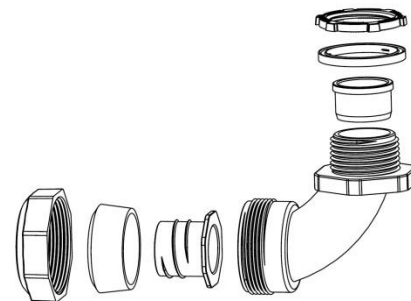
-20°C~+90°C

IP 68 (Fit with conduit series: PULTG, PCBLTG, PHLTG & PNKLTG)

Zinc plated, other treatments are available by consult.

Yes

cULus (File No.: E256570)



1. Standard package size : 380*300*230mm

Liquid Tight Flexible Metal Conduit & Fitting (Non-UL)

- ▶ Square-lock / Interlocked
- ▶ Galvanized Steel
- ▶ Size : 3/8"~2"
- ▶ RoHS Compliant
- ▶ IP 68



Good Flexibility (Square-lock)

- Series : PLTG13PVC
- Page : 12

The full range of product is developed by following the conduit size of UL360 standard with good flexibility for easy wiring. Applicable for the protection of circuit with 600 volt or lower in locations where no UL certification is required, including commercial buildings, industrial plant, shipyards, marine or boat, computer rooms and etc..

Excellent Pull Resist (Interlocked)

- Series : PLTG23PVC
- Page : 12

The full range of product is developed by following the conduit size of UL360 standard with excellent tensile and impact resistance for applications where are more critical in environment conditions. Applicable for the protection of circuit with 600 volt or lower in locations where no UL certification is required, including commercial buildings, industrial plant, shipyards, marine or boat, computer rooms and etc..



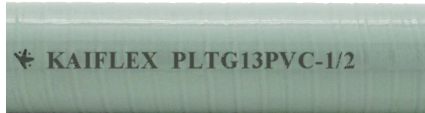
Liquid Tight Flexible Metal Conduit (Non-UL)

KAIFLEX®

Series Code **PLTG13PVC**

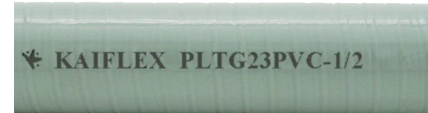
Features Square-lock, Galvanized Steel, Cotton Thread, PVC Jacket (Grey)

Product Photo



PLTG23PVC

Interlocked, Galvanized Steel, PVC Jacket (Grey)



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
12	3/8	PLTG13PVC-3/8	12.29~12.80	17.50~18.00	50.8	100/30.5	440*440*140
16	1/2	PLTG13PVC-1/2	15.80~16.31	20.80~21.30	82.55	100/30.5	440*440*160
21	3/4	PLTG13PVC-3/4	20.83~21.34	25.20~26.70	107.95	100/30.5	500*500*180
27	1	PLTG13PVC-1	26.44~27.08	32.80~33.40	165.1	100/30.5	600*600*300
35	1-1/4	PLTG13PVC-1-1/4	35.05~35.81	41.40~42.20	203.2	50/15.3	750*750*130
41	1-1/2	PLTG13PVC-1-1/2	40.01~40.64	47.40~48.30	228.6	50/15.3	750*750*250
53	2	PLTG13PVC-2	51.31~51.94	59.40~60.30	282.6	25/7.6	900*900*120

Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
PLTG23PVC-3/8	12.29~12.80	17.50~18.00	60.8	100/30.5	440*440*140
PLTG23PVC-1/2	15.80~16.31	20.80~21.30	92.55	100/30.5	440*440*160
PLTG23PVC-3/4	20.83~21.34	25.20~26.70	117.95	100/30.5	500*500*180
PLTG23PVC-1	26.44~27.08	32.80~33.40	175.1	100/30.5	600*600*300
PLTG23PVC-1-1/4	35.05~35.81	41.40~42.20	213.2	50/15.3	750*750*130
PLTG23PVC-1-1/2	40.01~40.64	47.40~48.30	238.6	50/15.3	750*750*250
PLTG23PVC-2	51.31~51.94	59.40~60.30	292.6	25/7.6	900*900*120

Temperature Range

-20°C~+80°C

IP Rating

IP 40 (Fit with connector series: AZ52)
IP 68 (Fit with connector series: AZ50, AZ51 & AZ53)

Jacket Color

Grey (Standard), other colors are available by consult.

Flexibility

High

Fire Retardant

Self-extinguishing

UV Resistance

By ordering

RoHS Compliance

Yes

Certificate

CE

-20°C~+80°C

IP 40 (Fit with connector series: AZ52)
IP 68 (Fit with connector series: AZ50, AZ51 & AZ53)

Grey (Standard), other colors are available by consult.

High

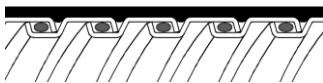
Self-extinguishing

By ordering

Yes

CE

Profile



Note



Fittings

KAIFLEX®

Series Code **AZ50**

Features **Straight Type, Water Seal, Zinc Alloy**

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
12	3/8	1/2"	NPT1/2-AZ50-3/8	500	20.9
16	1/2	1/2"	NPT1/2-AZ50-1/2	500	35.4
21	3/4	3/4"	NPT3/4-AZ50-3/4	300	30
27	1	1"	NPT1-AZ50-1	160	24.5
35	1-1/4	1-1/4"	NPT1-1/4-AZ50-1-1/4	100	20.6
41	1-1/2	1-1/2"	NPT1-1/2-AZ50-1-1/2	60	19.8
53	2	2"	NPT2-AZ50-2	50	27.6

Temperature Range -20°C~+90°C

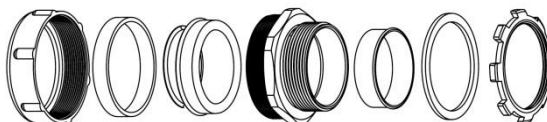
IP Rating IP 68 (Fit with conduit series: PLTG13PVC & PLTG23PVC)

Surface Finish Zinc plated, other treatments are available by consult.

RoHS Compliance Yes

Certificate CE

Exploded View



Note 1. Standard package size : 380*300*230mm

AZ51

Straight Inner Threaded Connector, Water Seal, Zinc Alloy



NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2"	NPT1/2-AZ51-3/8	500	22.9
1/2"	NPT1/2-AZ51-1/2	500	30.9
3/4"	NPT3/4-AZ51-3/4	300	26.4
1"	NPT1-AZ51-1	160	22.2
1-1/4"	NPT1-1/4-AZ51-1-1/4	100	17.9
1-1/2"	NPT1-1/2-AZ51-1-1/2	60	17.6
2"	NPT2-AZ51-2	50	28.9

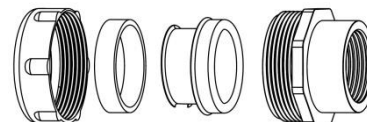
-20°C~+90°C

IP 68 (Fit with conduit series: PLTG13PVC & PLTG23PVC)

Zinc plated, other treatments are available by consult.

Yes

CE



1. Standard package size : 380*300*230mm



Fittings

KAIFLEX®

Series Code **AZ52**

Features Straight EMT Connector, Zinc Alloy

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	EMT Conduit Size	Part Number	Package/Box (pcs)	Weight/Box (kg)
12	3/8	1/2"	AZ52-3/8	500	19.6
16	1/2	1/2"	AZ52-1/2	500	22.9
21	3/4	3/4"	AZ52-3/4	300	20.7
27	1	1"	AZ52-1	160	15.9
35	1-1/4	1-1/4"	AZ52-1-1/4	100	17
41	1-1/2	1-1/2"	AZ52-1-1/2	60	13.7
53	2	2"	AZ52-2	50	17.7

Temperature Range

-20°C~+90°C

IP Rating

IP 40

Surface Finish

Zinc plated, other treatments are available by consult.

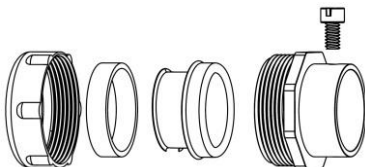
RoHS Compliance

Yes

Certificate

CE

Exploded View



Note

1. Standard package size : 380*300*230mm
2. The screws on fitting body is increased along with fitting size
(Size 3/8"~1-1/4": 1 pcs, 1-1/2"~2": 2 pcs)

AZ53

90 Degree Elbow, Water Seal, Zinc Alloy



NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2"	NPT1/2-AZ53-3/8	300	19.8
1/2"	NPT1/2-AZ53-1/2	250	28.2
3/4"	NPT3/4-AZ53-3/4	200	33.9
1"	NPT1-AZ53-1	73	19.2
1-1/4"	NPT1-1/4-AZ53-1-1/4	52	18.5
1-1/2"	NPT1-1/2-AZ53-1-1/2	30	17.3
2"	NPT2-AZ53-2	14	16.8

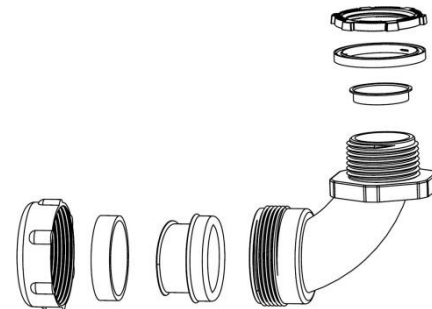
-20°C~+90°C

IP 68 (Fit with conduit series: PLTG13PVC & PLTG23PVC)

Zinc plated, other treatments are available by consult.

Yes

CE



1. Standard package size : 380*300*230mm

Flexible Metal Conduit & Fitting (UL)

- ▶ (Extra) RW Galvanized Steel / RW Aluminum / STD Wall Galvanized Steel / STD Wall Aluminum
- ▶ Size : 5/16"~4"
- ▶ RoHS Compliant
- ▶ IP 40



(Extra) Reduced Wall Galvanized Steel

- Series : P(X)RWG
- Page : 16

PRWG series is UL listed / recognized for full trade size. The performances of flexibility, pull and impact resistance completely meet with UL1 standard. Wiring protection in/on building, office, light fixture, machines, elevator, data center and etc., where demand UL listed and low fire hazard. The Extra Reduced Wall type is especially used for office OA system or above ceiling.

Reduced Wall Aluminum

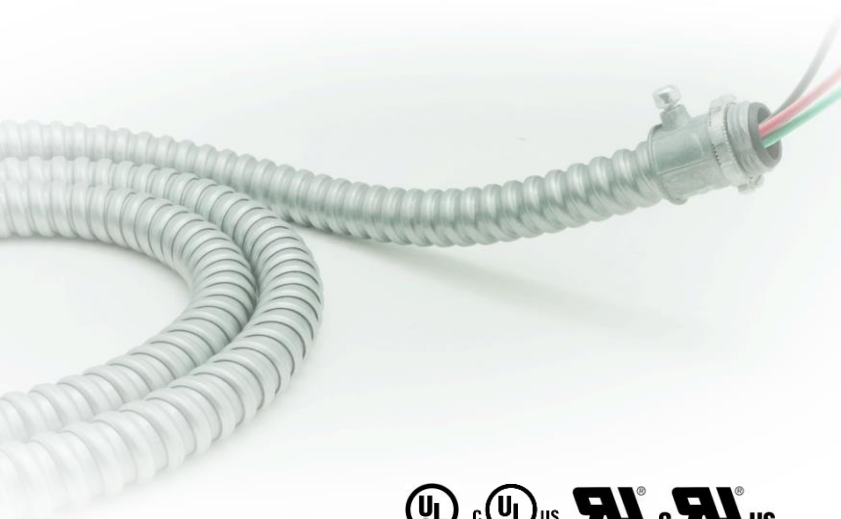
- Series : PRWA
- Page : 16

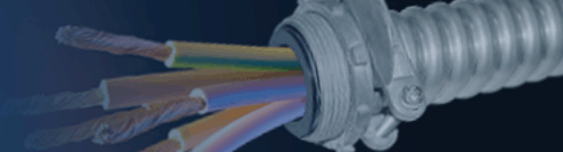
PRWA series is UL listed / recognized for full trade size. This is the series of reduced wall & lightweight Flexible Metal Conduit manufactured with aluminum strip. Completely meet with UL1 standard. When using for electrical installation, shall refer to the regulation of NEC. The size of 5/16", is especially recommended for the wire protection in limit spaces or for light fixtures. The small size and bending radius offer advantage to satisfy the wiring environment of narrow space and corners.

Standard Wall Galvanized Steel / Aluminum

- Series : PSWG/PSWA
- Page : 17

PSWG/PSWA series are completely meet with UL1 standard for the performances of flexibility, pull and impact resistance. Applicable for wiring protection in/on building, office, light fixture, machines, elevator, data center, cable harness and etc..





Flexible Metal Conduit

KAIFLEX®

Series Code **PRWG**

Features Square-lock, (Extra)Reduced Wall, Galvanized Steel

Product Photo



Series Code **PRWA**

Features Square-lock, Reduced Wall, Aluminum



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	Part Number	ID (mm)	OD (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
—	5/16	PXRWG-5/16	7.92~8.60	11.94~12.95	50	100/30.5	320*320*150
12	3/8	PRWG-3/8	9.52~9.96	14.22~15.49	50	100/30.5	320*320*150
16	1/2	PRWG-1/2	15.88~16.38	21.84~23.37	75	100/30.5	380*380*150
—	9/16	PXRWG-9/16	13.70~14.40	18.00~18.80	75	100/30.5	—
21	3/4	PRWG-3/4	20.62~21.21	26.54~28.07	100	100/30.5	450*450*180
27	1	PRWG-1	25.40~26.42	33.02~35.05	125	100/30.5	550*550*220
35	1-1/4	PRWG-1-1/4	31.75~33.02	39.37~41.40	160	50/15.3	500*500*180
41	1-1/2	PRWG-1-1/2	38.10~40.01	46.99~49.53	190	50/15.3	580*580*200
53	2	PRWG-2	50.80~52.83	59.69~62.23	255	25/7.6	550*550*200
63	2-1/2	PRWG-2-1/2	> 63.5	72.64~77.72	320	25/7.6	700*700*200
78	3	PRWG-3	> 76.2	85.34~90.42	380	25/7.6	750*750*250
91	3-1/2	PRWG-3-1/2	> 88.9	98.04~103.12	445	25/7.6	900*900*300
103	4	PRWG-4	> 101.6	110.74~115.82	510	25/7.6	900*900*300

Part Number	ID (mm)	OD (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
PRWA-5/16	7.92~8.60	11.94~12.95	50	100/30.5	320*320*150
PRWA-3/8	9.52~9.96	14.22~15.49	50	100/30.5	320*320*150
PRWA-1/2	15.88~16.38	21.84~23.37	75	100/30.5	380*380*150
—	—	—	—	—	—
PRWA-3/4	20.62~21.21	26.54~28.07	100	100/30.5	450*450*180
PRWA-1	25.40~26.42	33.02~35.05	125	100/30.5	550*550*220
PRWA-1-1/4	31.75~33.02	39.37~41.40	160	50/15.3	500*500*180
PRWA-1-1/2	38.10~40.01	46.99~49.53	190	50/15.3	580*580*200
PRWA-2	50.80~52.83	59.69~62.23	255	25/7.6	550*550*200
PRWA-2-1/2	> 63.5	72.64~77.72	320	25/7.6	700*700*200
PRWA-3	> 76.2	85.34~90.42	380	25/7.6	750*750*250
PRWA-3-1/2	> 88.9	98.04~103.12	445	25/7.6	900*900*300
PRWA-4	> 101.6	110.74~115.82	510	25/7.6	900*900*300

Temperature Range -50°C~+350°C

IP Rating IP 40

Flexibility High

RoHS Compliance Yes

Certificate UL: 3/8"~4"
cULus: 3/8"
cURus: 5/16", 9/16"
File No.: E238089

-50°C~+200°C

IP 40

High

Yes

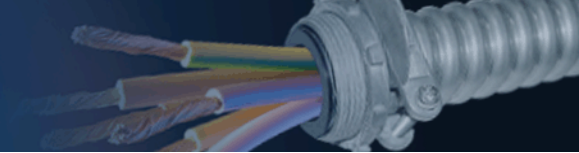
UL: 3/8"~4"
cULus: 3/8"
cURus: 5/16"
File No.: E238089

Profile



Note

1. This series of conduit is classified with 2 grades:
PXRWG (Extra Reduced Wall) / PRWG (Reduced Wall)



Flexible Metal Conduit

KAIFLEX®

Series Code **PSWG**

Features Square-lock, Standard Wall, Galvanized Steel

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	Part Number	ID (mm)	OD (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
—	5/16	—	—	—	—	—	—
12	3/8	PSWG-3/8	9.52~9.96	14.22~15.49	50	100/30.5	320*320*150
16	1/2	PSWG-1/2	15.88~16.38	21.84~23.37	75	100/30.5	380*380*150
—	9/16	—	—	—	—	—	—
21	3/4	PSWG-3/4	20.62~21.21	26.54~28.07	100	100/30.5	450*450*180
27	1	PSWG-1	25.40~26.42	33.02~35.05	125	100/30.5	550*550*220
35	1-1/4	PSWG-1-1/4	31.75~33.02	39.37~41.40	160	50/15.3	500*500*180
41	1-1/2	PSWG-1-1/2	38.10~40.01	46.99~49.53	190	50/15.3	580*580*200
53	2	PSWG-2	50.80~52.83	59.69~62.23	255	25/7.6	550*550*200
63	2-1/2	PSWG-2-1/2	> 63.5	72.64~77.72	320	25/7.6	700*700*200
78	3	PSWG-3	> 76.2	85.34~90.42	380	25/7.6	750*750*250
103	4	PSWG-4	> 101.6	110.74~115.82	510	25/7.6	900*900*300

Temperature Range -50°C~+350°C

IP Rating IP 40

Flexibility High

RoHS Compliance Yes

Certificate —

Profile



Note

PSWA

Features Square-lock, Standard Wall, Aluminum



Part Number	ID (mm)	OD (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
—	—	—	—	—	—
PSWA-3/8	9.52~9.96	14.22~15.49	50	100/30.5	320*320*150
PSWA-1/2	15.88~16.38	21.84~23.37	75	100/30.5	380*380*150
—	—	—	—	—	—
PSWA-3/4	20.62~21.21	26.54~28.07	100	100/30.5	450*450*180
PSWA-1	25.40~26.42	33.02~35.05	125	100/30.5	550*550*220
PSWA-1-1/4	31.75~33.02	39.37~41.40	160	50/15.3	500*500*180
PSWA-1-1/2	38.10~40.01	46.99~49.53	190	50/15.3	580*580*200
PSWA-2	50.80~52.83	59.69~62.23	255	25/7.6	550*550*200
PSWA-2-1/2	> 63.5	72.64~77.72	320	25/7.6	700*700*200
PSWA-3	> 76.2	85.34~90.42	380	25/7.6	750*750*250
PSWA-4	> 101.6	110.74~115.82	510	25/7.6	900*900*300

-50°C~+350°C

IP 40

High

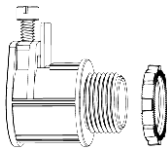
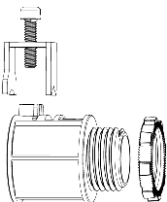
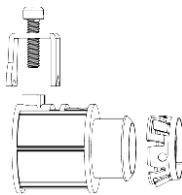
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Fittings

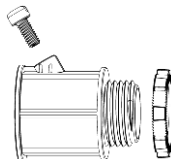
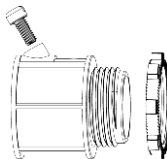
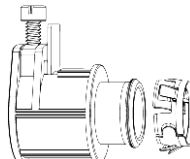
KAIFLEX®

Series Code	S10	S11	S12										
Features	Set Screw Type, Zinc Alloy		Set Screw Type, Zinc Alloy										
Product Photo	 	 	 										
Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	NPS Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPS Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	KO Size	Part Number	Package/Box (pcs)	Weight/Box (kg)
—	5/16	5/16"	—	—	—	5/16"	—	—	—	5/16"	—	—	—
12	3/8	3/8"	—	—	—	3/8"	—	—	—	3/8"	—	—	—
16	1/2	1/2"	S102-1/2	400	19.4	1/2"	S112-1/2	500	19	1/2"	S122-1/2	500	18.5
—	9/16	9/16"	—	—	—	9/16"	—	—	—	9/16"	—	—	—
21	3/4	3/4"	—	—	—	3/4"	—	—	—	3/4"	—	—	—
27	1	1"	—	—	—	1"	—	—	—	1"	—	—	—
35	1-1/4	1-1/4"	—	—	—	1-1/4"	—	—	—	1-1/4"	—	—	—
41	1-1/2	1-1/2"	—	—	—	1-1/2"	—	—	—	1-1/2"	—	—	—
53	2	2"	—	—	—	2"	—	—	—	2"	—	—	—
63	2-1/2	2-1/2"	—	—	—	2-1/2"	—	—	—	2-1/2"	—	—	—
78	3	3"	—	—	—	3"	—	—	—	3"	—	—	—
103	4	4"	—	—	—	4"	—	—	—	4"	—	—	—
Temperature Range	-50°C~+200°C			-50°C~+200°C			-50°C~+200°C						
IP Rating	IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)			IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)			IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)						
Surface Finish	Chromate, other treatments are available by consult.			Chromate, other treatments are available by consult.			Chromate, other treatments are available by consult.						
RoHS Compliance	Yes			Yes			Yes						
Certificate	cULus (File No.: E256570)			cULus (File No.: E256570)			cULus (File No.: E256570)						
Exploded View													
Note	1. Standard package size : 380*300*230mm			1. Standard package size : 380*300*230mm			1. Snap-In structure. 2. Standard package size : 380*300*230mm						



Fittings

KAIFLEX®

Series Code	S13	S14	S15												
Features	Set Screw Type, Zinc Alloy	Set Screw Type, Zinc Alloy	Set Screw Type, Zinc Alloy												
Product Photo	 	 	 												
Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	NPS Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	NPS Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)	KO Size	Part Number	Package/Box (pcs)	Weight/Box (kg)		
—	5/16	5/16"	—	—	—	5/16"	—	—	—	5/16"	—	—	—		
12	3/8	3/8"	—	—	—	3/8"	—	—	—	3/8"	—	—	—		
16	1/2	1/2"	S132-1/2	500	18.5	1/2"	—	—	—	1/2"	S152-1/2	400	15.8		
—	9/16	9/16"	—	—	—	9/16"	—	—	—	9/16"	—	—	—		
21	3/4	3/4"	—	—	—	3/4"	S143-3/4	400	19.8	3/4"	—	—	—		
27	1	1"	—	—	—	1"	—	—	—	1"	—	—	—		
35	1-1/4	1-1/4"	—	—	—	1-1/4"	—	—	—	1-1/4"	—	—	—		
41	1-1/2	1-1/2"	—	—	—	1-1/2"	—	—	—	1-1/2"	—	—	—		
53	2	2"	—	—	—	2"	—	—	—	2"	—	—	—		
63	2-1/2	2-1/2"	—	—	—	2-1/2"	—	—	—	2-1/2"	—	—	—		
78	3	3"	—	—	—	3"	—	—	—	3"	—	—	—		
103	4	4"	—	—	—	4"	—	—	—	4"	—	—	—		
Temperature Range	-50°C~+200°C					-50°C~+200°C					-50°C~+200°C				
IP Rating	IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)					IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)					IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)				
Surface Finish	Chromate, other treatments are available by consult.					Chromate, other treatments are available by consult.					Chromate, other treatments are available by consult.				
RoHS Compliance	Yes					Yes					Yes				
Certificate	cULus (File No.: E256570)					cULus (File No.: E256570)					cULus (File No.: E256570)				
Exploded View															
Note	1. Standard package size : 380*300*230mm					1. Standard package size : 380*300*230mm					1. Snap-In structure. 2. Standard package size : 380*300*230mm				



Fittings

KAIFLEX®

Series Code

S18

Features

Set Screw Type, Zinc Alloy

Product Photo



S24

Set Screw Type, Zinc Alloy



S16

Screw In Type, Zinc Alloy



Nominal Conduit Size (mm)
Nominal Conduit Size (inch)

NPS Thread
Part Number
Package/Box (pcs)
Weight/Box (kg)

—	5/16	5/16"	—	—	—
12	3/8	1/2"	—	—	—
16	1/2	1/2"	—	—	—
—	9/16	1/2"	S1811-9/16	1000	25
21	3/4	3/4"	—	—	—
27	1	1"	—	—	—
35	1-1/4	1-1/4"	—	—	—
41	1-1/2	1-1/2"	—	—	—
53	2	2"	—	—	—
63	2-1/2	2-1/2"	—	—	—
78	3	3"	—	—	—
103	4	4"	—	—	—

NPS Thread
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	—	—	—
1/2"	S241-3/8	1000	21
1/2"	—	—	—
9/16"	—	—	—
3/4"	—	—	—
1"	—	—	—
1-1/4"	—	—	—
1-1/2"	—	—	—
2"	—	—	—
2-1/2"	—	—	—
3"	—	—	—
4"	—	—	—

KO Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	—	—	—
1/2"	S161-3/8	1000	21.4
1/2"	S162-1/2	800	26.6
9/16"	—	—	—
3/4"	—	—	—
1"	—	—	—
1-1/4"	—	—	—
1-1/2"	—	—	—
2"	—	—	—
2-1/2"	—	—	—
3"	—	—	—
4"	—	—	—

Temperature Range

-30°C~+105°C

IP Rating

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Surface Finish

Chromate, other treatments are available by consult.

RoHS Compliance

Yes

Certificate

UL Recognized (File No.: E256570)

-50°C~+200°C

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

UL (File No.: E256570)

-50°C~+200°C

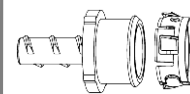
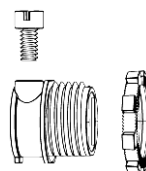
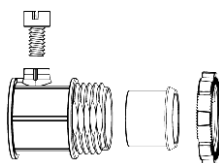
IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

cULus (File No.: E256570)

Exploded View



Note

1. Standard package size : 380*300*230mm

1. Standard package size : 380*300*230mm

1. Snap-In structure.
2. Standard package size : 380*300*230mm



Fittings

KAIFLEX®

Series Code

S17

Features

Screw In Type, Zinc Alloy

Product Photo



S30

Screw In Type, Steel



S19

Two Screw Type, Zinc Alloy



Nominal Conduit Size (mm)
Nominal Conduit Size (inch)

NPS Thread
Part Number
Package/Box (pcs)
Weight/Box (kg)

—	5/16	5/16"	—		
12	3/8	1/2"	S171-3/8	800	21.8
16	1/2	1/2"	S172-1/2	800	19.2
—	9/16	9/16"	—		
21	3/4	3/4"	S173-3/4	500	22
27	1	1"	S174-1	400	20.8
35	1-1/4	1-1/4"	—		
41	1-1/2	1-1/2"	—		
53	2	2"	—		
63	2-1/2	2-1/2"	—		
78	3	3"	—		
103	4	4"	—		

KO Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	—		
1/2"	S301-3/8	1200	11.8
1/2"	—		
9/16"	—		
3/4"	—		
1"	—		
1-1/4"	—		
1-1/2"	—		
2"	—		
2-1/2"	—		
3"	—		
4"	—		

KO Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	—		
1/2"	S191-3/8	1000	26.2
1/2"	—		
9/16"	—		
3/4"	—		
1"	—		
1-1/4"	—		
1-1/2"	—		
2"	—		
2-1/2"	—		
3"	—		
4"	—		

Temperature Range

-50°C~+200°C

IP Rating

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Surface Finish

Chromate, other treatments are available by consult.

RoHS Compliance

Yes

Certificate

cULus (File No.: E256570)

-50°C~+200°C

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Zinc plated, other treatments are available by consult.

Yes

UL (File No.: E256570)

-50°C~+200°C

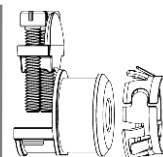
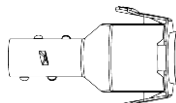
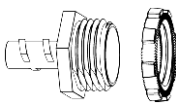
IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

UL (File No.: E256570)

Exploded View



Note

1. Standard package size : 380*300*230mm

1. Snap-In structure.
2. Standard package size : 380*300*230mm

1. Snap-In structure.
2. Standard package size : 380*300*230mm



Fittings

KAIFLEX®

Series Code

S20

Features

Two Screw Type, Zinc Alloy

Product Photo



S21

Two Screw Type, Zinc Alloy



S22

90 Degree Squeeze, Zinc Alloy



Nominal Conduit Size (mm)
Nominal Conduit Size (inch)

NPS Thread
Part Number
Package/Box (pcs)
Weight/Box (kg)

—	5/16	5/16"	—	—	—
12	3/8	1/4"	S201-3/8	1000	26.2
16	1/2	1/2"	—	—	—
—	9/16	9/16"	—	—	—
21	3/4	3/4"	—	—	—
27	1	1"	—	—	—
35	1-1/4	1-1/4"	—	—	—
41	1-1/2	1-1/2"	—	—	—
53	2	2"	—	—	—
63	2-1/2	2-1/2"	—	—	—
78	3	3"	—	—	—
103	4	4"	—	—	—

NPS Thread
Part Number
Package/Box (pcs)
Weight/Box (kg)

—	—	—	—	—	—
1/2"	S211-A-3/8	1000	26.6	—	—
—	—	—	—	—	—
3/4"	S213-A-9/16	500	26.5	—	—
1"	S214-A-3/4	300	22.3	—	—
1-1/4"	S215-A-1	200	22.6	—	—
1-1/2"	S216-A-1-1/4	120	19.6	—	—
2"	S217-A-1-1/2	100	21.8	—	—
2-1/2"	S218-A-2	50	18	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—

NPS Thread
Part Number
Package/Box (pcs)
Weight/Box (kg)

1/2"	S221-3/8	500	19.5	—	—
1/2"	S221-3/8	500	19.5	—	—
1/2"	S222-1/2	300	15.7	—	—
9/16"	—	—	—	—	—
3/4"	S223-3/4	240	18.4	—	—
1"	S224-1	120	14.6	—	—
1-1/4"	S225-1-1/4	80	15.9	—	—
1-1/2"	S226-1-1/2	12	6.2	—	—
2"	S227-2	12	6.3	—	—
2-1/2"	—	—	—	—	—
3"	—	—	—	—	—
4"	—	—	—	—	—

Temperature Range

-50°C~+200°C

IP Rating

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Surface Finish

Chromate, other treatments are available by consult.

RoHS Compliance

Yes

Certificate

cULus
File No.: E256570

-50°C~+200°C

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

cULus (S211-3/8 ~ S217-1-1/2)
UL (S218-2)
File No.: E256570

-50°C~+200°C

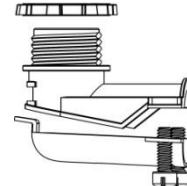
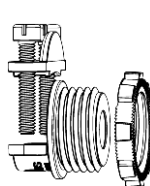
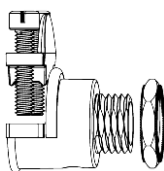
IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

cULus
File No.: E256570

Exploded View



Note

1. Standard package size : 380*300*230mm

1. Standard package size : 380*300*230mm

1. Standard package size : 380*300*230mm
2. S221-3/8 fits for nominal conduit size 5/16 and 3/8



Fittings

KAIFLEX®

Series Code

S23

Features

90 Degree Squeeze, Zinc Alloy

Product Photo



S31

Screw On Type, Nylon and Steel



S32

Screw On Type, Steel



Nominal Conduit Size (mm)
Nominal Conduit Size (inch)

KO Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

—	5/16	1/2"	S231-3/8	500	19
12	3/8	1/2"	S231-3/8	500	19
16	1/2	1/2"	S232-1/2	300	17.4
—	9/16	9/16"	—	—	—
21	3/4	3/4"	—	—	—
27	1	1"	—	—	—
35	1-1/4	1-1/4"	—	—	—
41	1-1/2	1-1/2"	—	—	—
53	2	2"	—	—	—
63	2-1/2	2-1/2"	—	—	—
78	3	3"	—	—	—
103	4	4"	—	—	—

KO Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	—	—	—
1/2"	S311-3/8	1200	8.2
1/2"	—	—	—
9/16"	—	—	—
3/4"	—	—	—
1"	—	—	—
1-1/4"	—	—	—
1-1/2"	—	—	—
2"	—	—	—
2-1/2"	—	—	—
3"	—	—	—
4"	—	—	—

KO Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	S3213-5/16	3000	4.5
3/8"	—	—	—
1/2"	—	—	—
9/16"	—	—	—
3/4"	—	—	—
1"	—	—	—
1-1/4"	—	—	—
1-1/2"	—	—	—
2"	—	—	—
2-1/2"	—	—	—
3"	—	—	—
4"	—	—	—

Temperature Range

-50°C~+200°C

IP Rating

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Surface Finish

Chromate, other treatments are available by consult.

RoHS Compliance

Yes

Certificate

UL (S231-3/8)
cULus (S232-1/2)
File No.: E256570

-30°C~+105°C

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Zinc plated, other treatments are available by consult.

Yes

UL
File No.: E256570

-50°C~+200°C

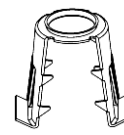
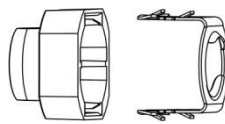
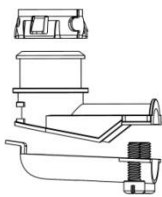
IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

UL Recognized
File No.: E256570

Exploded View



Note

1. Snap-In structure.
2. Standard package size : 380*300*230mm
3. S231-3/8 fits for nominal conduit size 5/16 and 3/8

1. Standard package size : 380*300*230mm

1. Snap-In structure.
2. Standard package size : 380*300*230mm



Fittings

KAIFLEX®

Series Code

S33

Features

Screw On Type, Carbon Steel

Product Photo



S25

Straight Squeeze, Zinc Alloy



S26

Screw In Coupling, Zinc Alloy



Nominal Conduit Size (mm)
Nominal Conduit Size (inch)

KO Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

—	5/16	5/16"	—	—	—
12	3/8	1/2"	S331-3/8	2000	14
16	1/2	1/2"	—	—	—
—	9/16	9/16"	—	—	—
21	3/4	3/4"	—	—	—
27	1	1"	—	—	—
35	1-1/4	1-1/4"	—	—	—
41	1-1/2	1-1/2"	—	—	—
53	2	2"	—	—	—
63	2-1/2	2-1/2"	—	—	—
78	3	3"	—	—	—
103	4	4"	—	—	—

NPS Thread
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	—	—	—
1/2"	S251-3/8	500	12.5
1/2"	S252-1/2	400	11.4
9/16"	—	—	—
3/4"	S253-3/4	300	11.4
1"	S254-1	200	10.6
1-1/4"	S255-1-1/4	160	14.2
1-1/2"	S256-1-1/2	120	14.5
2"	S257-2	80	13
2-1/2"	S258-2-1/2	24	9.1
3"	S259-3	15	7.4
4"	S2510-4	10	7.7

Flexible Conduit Size
Part Number
Package/Box (pcs)
Weight/Box (kg)

5/16"	—	—	—
3/8"	S261-3/8	1000	15
1/2"	S262-1/2	800	20.8
9/16"	—	—	—
3/4"	S263-3/4	500	18
1"	S264-1	500	19.5
1-1/4"	S265-1-1/4	200	23
1-1/2"	—	—	—
2"	—	—	—
2-1/2"	—	—	—
3"	—	—	—
4"	—	—	—

Temperature Range

-50°C~+300°C

IP Rating

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Surface Finish

Zinc plated, other treatments are available by consult.

RoHS Compliance

Yes

Certificate

cULus (File No.: E256570)

-50°C~+200°C

IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

—

-50°C~+200°C

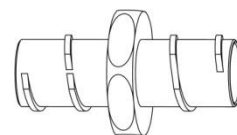
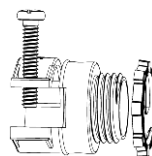
IP 40 (Fit with conduit series: PRWG, PRWA & PSWG)

Chromate, other treatments are available by consult.

Yes

cULus (File No.: E256570)

Exploded View



Note

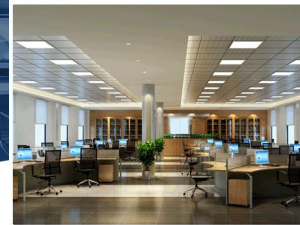
1. Standard package size : 380*300*230mm

1. Standard package size : 380*300*230mm

1. Standard package size : 380*300*230mm

Chicago Plenum Flexible Metal Tubing & Fitting

- ▶ Galvanized Steel
- ▶ Size : 3/8" ~ 3/4"
- ▶ RoHS Compliant
- ▶ IP 66



Chicago Plenum Flexible Metal Tubing & Fitting

■ Series : PFMT

■ Page : 26

PFMT series is wound with interlock profile by using RoHS compliant galvanized steel strip with advanced zinc coating against corrosion. The tight interlock profile offers feature of airtight and liquid tight without plastic jacket but light weight - only 60% of metal flexible conduit.

The interlock structure also allows to bend and stay put. The plenum rated airtight metal pliable conduit is recommended to be wire protection for those devices, equipment or cabling system located in the plenum space above the drop-ceiling or under raised floor.

To assemble with seal type of fitting and install to airtight devices or equipment form an air seal system. It prevents air condition from leakage to promote the energy efficiency. In case of electrical fire, the airtight system block the smoke and toxic gases produced by the combustion of wire jacket not to escape to environment. When the fire sprinkler activate, the feature of liquid tight obstruct water to penetrate to the raceway and control the scale of disaster further to enhance electrical safety.

Plenum rated Airtight Metal Pliable Conduit is applicable for the circuits lower than 1000 volts, for example, lighting fixture and other equipment or wiring system.



Chicago Plenum Flexible Metal Tubing

KAIFLEX®

Series Code PFMT

Features Interlock, Galvanized Steel

Product Photo



CE

Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	Part Number	ID (mm)	OD (mm)	Bending Radius (mm)	Package/Roll (ft./m)	Measurement (LxWxH mm)
—	5/16	—	—	—	—	—	—
12	3/8	PFMT-3/8	12.29~12.80	14.22~16.87	255	100/30.5	690*690*150
16	1/2	PFMT-1/2	15.75~16.26	18.80~20.32	318	100/30.5	800*800*150
—	9/16	—	—	—	—	—	—
21	3/4	PFMT-3/4	20.83~21.34	23.88~25.40	445	100/30.5	—
27	1	—	—	—	—	—	—
35	1-1/4	—	—	—	—	—	—
41	1-1/2	—	—	—	—	—	—
53	2	—	—	—	—	—	—
63	2-1/2	—	—	—	—	—	—
78	3	—	—	—	—	—	—
103	4	—	—	—	—	—	—

Temperature Range -50°C~+350°C

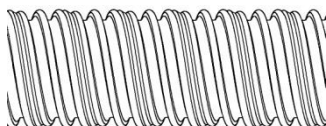
IP Rating IP 66

Flexibility Medium

RoHS Compliance Yes

Certificate CE

Profile



Note



Fittings

KAIFLEX®

Series Code S27

Features Straight Type, Male Threaded, Zinc Alloy

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
12	3/8	1/2"	S271-3/8	800	19.2
16	1/2	1/2"	S272-1/2	800	21.8
21	3/4	3/4"	S273-3/4	500	29.3
27	1	—	—	—	—
35	1-1/4	—	—	—	—
41	1-1/2	—	—	—	—
53	2	—	—	—	—
63	2-1/2	—	—	—	—
78	3	—	—	—	—
103	4	—	—	—	—

Temperature Range -50°C~+200°C

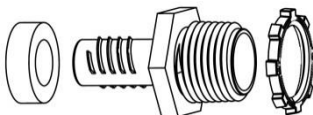
IP Rating IP 66 (Fit with PFMT conduit series)

Surface Finish Zinc plated, other treatments are available by consult.

RoHS Compliance Yes

Certificate —

Exploded View



Note 1. Standard package size : 380*300*230mm

Liquid Tight Non-Metallic Flexible Conduit & Fitting (UL)

- ▶ LFNC Type B & Extra Flexible LFNC-B
- ▶ Thermoplastic Polyvinyl Chloride (PVC)
- ▶ Size : 3/8"~2"
- ▶ RoHS Compliant
- ▶ IP 68



LFNC Type B

- Series : PLFNCB
- Page : 29

LFNC Type B (PLFNCB) is made of thermoplastic polyvinyl chloride (PVC) with smooth inside and outside surface. The material is compliant with RoHS requirement and featured to resist UV, age and oil. The whole size range is certified by UL laboratory according to UL 1660 standard. A reinforce member is embedded in the conduit wall to offer the performance of self-support and crush resistance. This series of conduit is qualified to meet with the wiring demand of NEC electric code and in light weight. The best efficiency of water proof for whole wiring system is able to achieve by connected with the liquid tight fitting series P50, P53, PP60, PP63 and N161.

Extra Flexible LFNC Type B

- Series : PLFNCB2
- Page : 29

Extra Flexible Liquid Tight Non-Metallic Conduit (PLFNCB2) is made of thermoplastic polyvinyl chloride (PVC) with smooth inside and wave outside surface. The material is compliant with RoHS requirement and featured to resist UV, age and oil. The extra flexible LFNCB conduit integrates a reinforce member to shape a wave surface that enables higher flexibility and offers the performance of self-support and crush resistance. PVC is a material in good extension. It gives lighter weight and easy to cut which is benefit for quick assembly on site. The best efficiency of water proof for whole wiring system is able to achieve by connecting with the liquid tight fitting series P50, P53, PP60, PP63 and N161.





Liquid Tight Non-Metallic Flexible Conduit (UL)

KAIFLEX®

Series Code **PLFNCB**

Features LFNC-B, PVC (Grey)

Product Photo



PLFNCB2

Extra Flexible LFNC-B, PVC (Black/Grey)



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	Part Number	ID (mm)	OD (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
12	3/8	PLFNCB-3/8	12.29~12.80	17.53~18.03	51	100/30.5	380*380*130
16	1/2	PLFNCB-1/2	15.80~16.31	20.83~21.34	72.5	100/30.5	380*380*180
21	3/4	PLFNCB-3/4	20.83~21.34	26.16~26.67	108	100/30.5	460*460*180
27	1	PLFNCB-1	26.44~27.08	32.77~33.40	165	100/30.5	550*550*210
35	1-1/4	PLFNCB-1-1/4	35.05~35.81	41.40~42.16	203	100/30.5	720*720*220
41	1-1/2	PLFNCB-1-1/2	40.01~40.64	47.37~48.26	228.5	50/15.3	600*600*200
53	2	PLFNCB-2	51.31~51.94	59.44~60.33	282	50/15.3	850*850*200

Part Number	ID (mm)	OD (mm)	Bending Radius (mm)	Package/Roll (ft/m)	Measurement (LxWxH mm)
PLFNCB2-3/8	12.29~12.80	17.53~18.03	51	100/30.5	340*340*170
PLFNCB2-1/2	15.80~16.31	20.83~21.34	51	100/30.5	380*380*170
PLFNCB2-3/4	20.83~21.34	26.16~26.67	76	100/30.5	450*450*180
PLFNCB2-1	26.44~27.08	32.77~33.40	76	100/30.5	510*510*210
PLFNCB2-1-1/4	35.05~35.81	41.40~42.16	127	100/30.5	600*600*270
PLFNCB2-1-1/2	40.01~40.64	47.37~48.26	127	100/30.5	730*730*220
PLFNCB2-2	51.31~51.94	59.44~60.33	127	50/15.3	800*800*200

Temperature Range

UL: -18°C~+80°C Dry, 60°C Wet, 70°C Oil
cUL: -18°C~+80°C Dry, 60°C Wet, 70°C Oil

IP Rating

IP 66 (Fit with connector series: N161)
IP 68 (Fit with connector series: P50, P53, PP60 & PP63)

Color

Grey (Standard), other colors are available by consult.

Flexibility

Medium

Fire Retardant

Self-extinguishing

UV Resistance

Yes

RoHS Compliance

Yes

Certificate

cULus (File No.: E361947)

-18°C~+80°C

IP 66 (Fit with connector series: N161)
IP 68 (Fit with connector series: P50, P53, PP60 & PP63)
Black / Grey (Standard), other colors are available by consult.

High

Self-extinguishing

Yes

Yes

cULus (File No.: E505697)

Profile



Note



Fittings

KAIFLEX®

Series Code **P50**

Features Straight Type, Water Seal, PVC

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
12	3/8	1/2"	P501-3/8	400	9.7
16	1/2	1/2"	P502-1/2	360	8.1
21	3/4	3/4"	P503-3/4	300	11
27	1	1"	P504-1	160	8.8
35	1-1/4	1-1/4"	P505-1-1/4	80	6.3
41	1-1/2	1-1/2"	P506-1-1/2	60	5.4
53	2	2"	P507-2	50	7.7

Temperature Range -18°C~+60°C

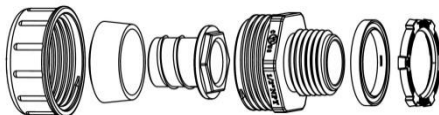
IP Rating IP 68

Fire Retardant Self-extinguishing

RoHS Compliance Yes

Certificate cULus (File No.: E256570)

Exploded View



Note 1. Standard package size : 380*300*230mm

PP60

Features Straight Type, Quick Type, Water Seal, PP



NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2"	PP601-3/8	400	7.6
1/2"	PP602-1/2	360	7.4
3/4"	PP603-3/4	300	9.0
1"	PP604-1	160	8.5
1-1/4"	PP605-1-1/4	80	6.6
1-1/2"	PP606-1-1/2	60	6.6
2"	PP607-2	50	7.0

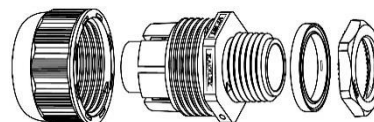
-18°C~+60°C

IP 68

Self-extinguishing

Yes

—



1. Standard package size : 380*300*230mm
2. Metallic nuts is optional.



Fittings

KAIFLEX®

Series Code **P53**

Features 90 Degree Elbow, Water Seal, PVC

Product Photo



Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
12	3/8	1/2"	P531-3/8	400	11.8
16	1/2	1/2"	P532-1/2	200	5.4
21	3/4	3/4"	P533-3/4	160	6.8
27	1	1"	P534-1	100	6.9
35	1-1/4	1-1/4"	P535-1-1/4	40	4.3
41	1-1/2	1-1/2"	P536-1-1/2	30	4.1
53	2	2"	P537-2	16	3.2

Temperature Range -18°C~+60°C

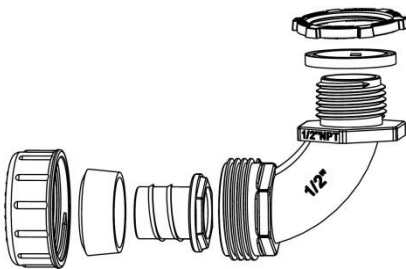
IP Rating IP 68

Fire Retardant Self-extinguishing

RoHS Compliance Yes

Certificate cULus (File No.: E256570)

Exploded View



Note 1. Standard package size : 380*300*230mm

PP63

90 Degree Elbow, Quick Type, Water Seal, PP



NPT Thread	Part Number	Package/Box (pcs)	Weight/Box (kg)
1/2"	PP631-3/8	400	9.0
1/2"	PP632-1/2	200	5.2
3/4"	PP633-3/4	160	5.8
1"	PP634-1	100	6.5
1-1/4"	PP635-1-1/4	40	4.1
1-1/2"	PP636-1-1/2	30	3.5
2"	PP637-2	16	3.4

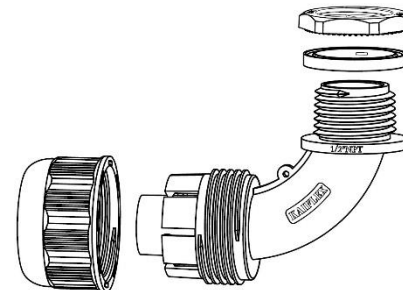
-18°C~+60°C

IP 68

Self-extinguishing

Yes

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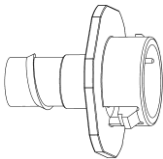


1. Standard package size : 380*300*230mm
2. Metallic nuts is optional.



Fittings

KAIFLEX®

Series Code		N161			
Features		Screw In Type, PA			
Product Photo					
Nominal Conduit Size (mm)	Nominal Conduit Size (inch)	Type	Part Number	Package/Box (Pcs)	Weight/Box (Kg)
12	3/8	3/8"	N161-3/8	800	—
16	1/2	—	—	—	—
21	3/4				
27	1				
35	1-1/4				
41	1-1/2				
53	2				
Temperature Range		-20°C~+105°C			
IP Rating		IP 66 (Fit with connector series: PLFNCB & PLFNCB2)			
Fire Retardant		UL94 V-0, UL94 V-2			
RoHS Compliance		Yes			
Certificate		—			
Exploded View					
Note		1. Snap-In structure. 2. Standard package size : 380*300*230mm			

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		Liquid Ingress Protection	
0	No Protection	0	No Protection
1	Protect against the object >50mm ex.: carelessly touch by hands	1	Protect against vertically dripping water.
2	Protect against the object >12.5mm ex.: carelessly touch by fingers	2	Protect against vertically dripping water while specimen sloped at 15°.
3	Protect against the object >2.5mm ex.: tools, thick wires & etc.	3	Protect against spraying water at any angle up to 60° from vertical.
4	Protect against the object >1.0mm ex.: most wires, thin screws, ants & etc.	4	Protect against splashing water from any direction. Limit ingress is permitted.
5	Dust Protection. Ingress amount interfering operation is not allowed.	5	Protect against water projected with low pressure from any direction. Limit ingress is permitted.
6	Dust tight. No ingress is allowed.	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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