



DS-KAD7042EY Series Distributor

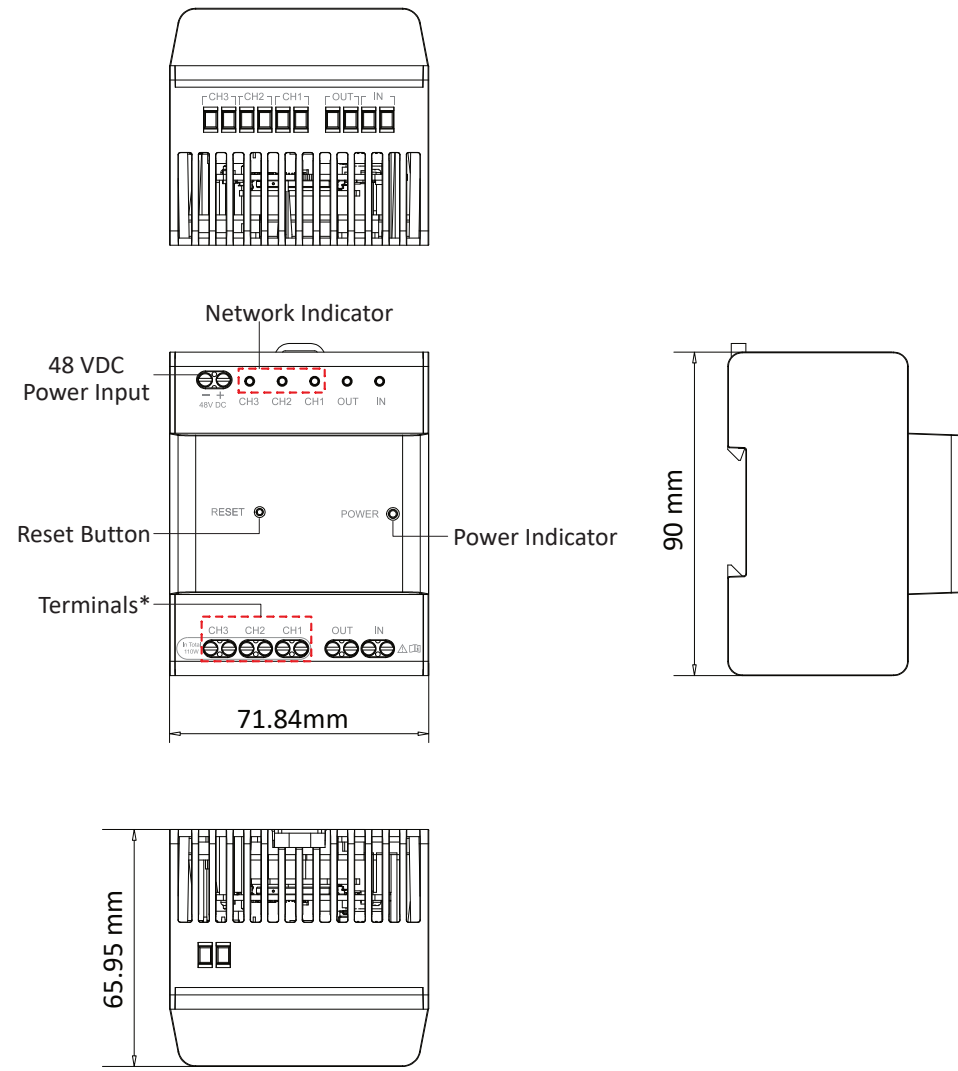
User Manual

UD44982B



Scan the QR code to see multi-language User Manual.

1.Appearance and Interface



i The picture here is only for reference. Refers to the actual device for detailed information.
Terminal*: For connecting door station and indoor station.

3 Installation

Before you begin:

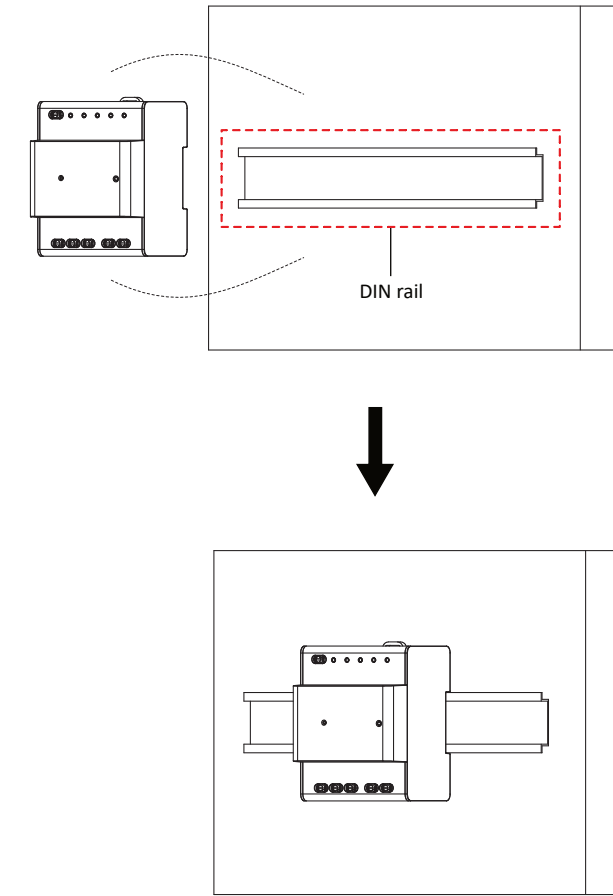
- Make sure the device in the package is in good condition.
- Make sure all the related equipment is power-off during the installation.
- Check the product specification for the installation environment.

Wall Mounting Steps:

1. Fix the DIN rail onto the wall.

i You are required to utilize a matched DIN rail.

2. Press the red clip upward, and lock it to the DIN rail.



About this Document

- This Document includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only.
- The information contained in the Document is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of the Document at the Hikvision website (<https://www.hikvision.com>). Unless otherwise agreed, Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as "Hikvision") makes no warranties, express or implied.
- Please use the Document with the guidance and assistance of professionals trained in supporting the Product.

About this Product

This product can only enjoy the after-sales service support in the country or region where the purchase is made.

Acknowledgment of Intellectual Property Rights

- Hikvision owns the copyrights and/or patents related to the technology embodied in the Products described in this Document, which may include licenses obtained from third parties.
- Any part of the Document, including text, pictures, graphics, etc., belongs to Hikvision. No part of this Document may be excerpted, copied, translated, or modified in whole or in part by any means without written permission.
- **HIKVISION** and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.
- Other trademarks and logos mentioned are the properties of their respective owners.

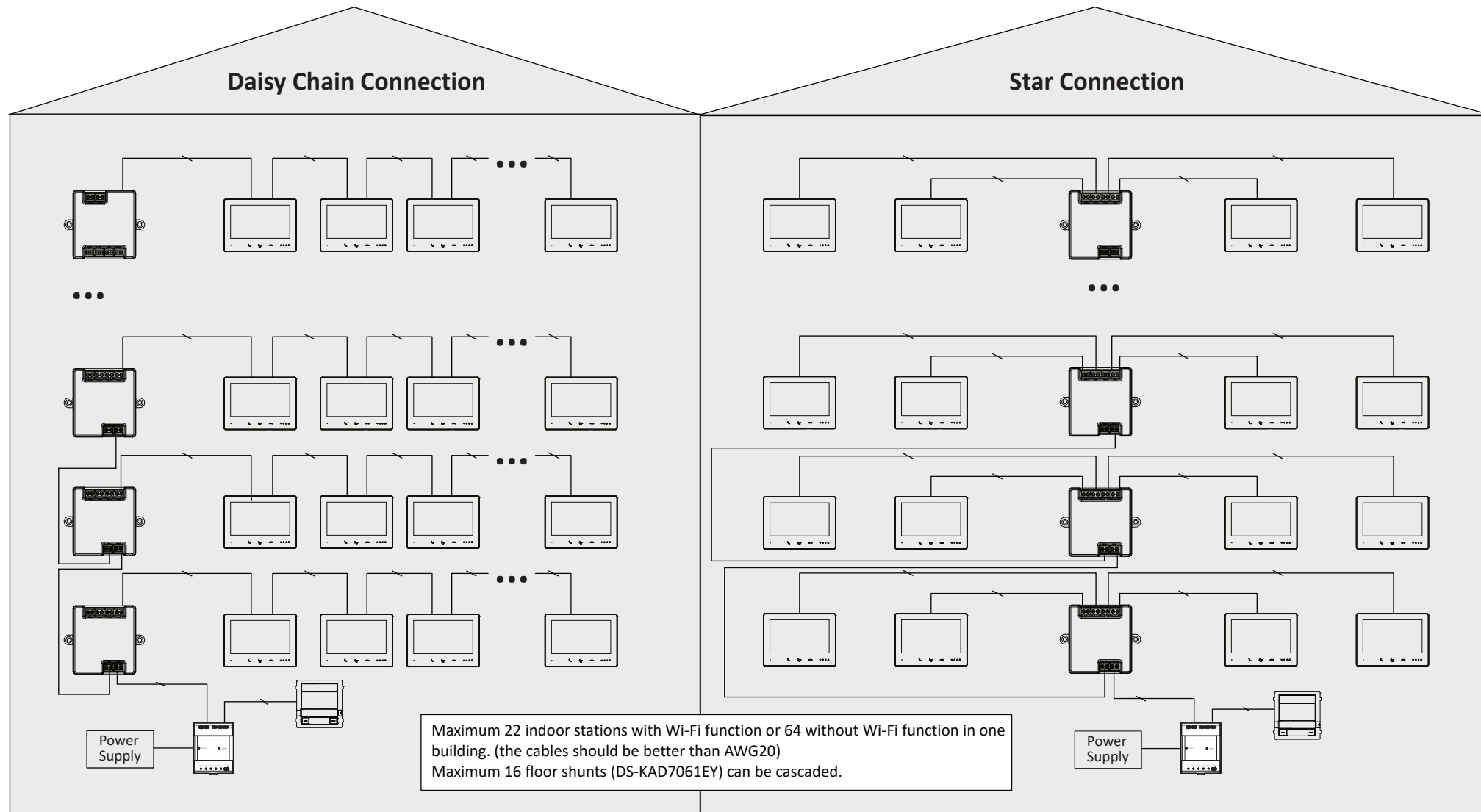
LEGAL DISCLAIMER

- TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS DOCUMENT AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.
- YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.
- YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.
- IN THE EVENT OF ANY CONFLICTS BETWEEN THIS DOCUMENT AND THE APPLICABLE LAW, THE LATTER PREVAILS.

© Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

2.1 System Wiring

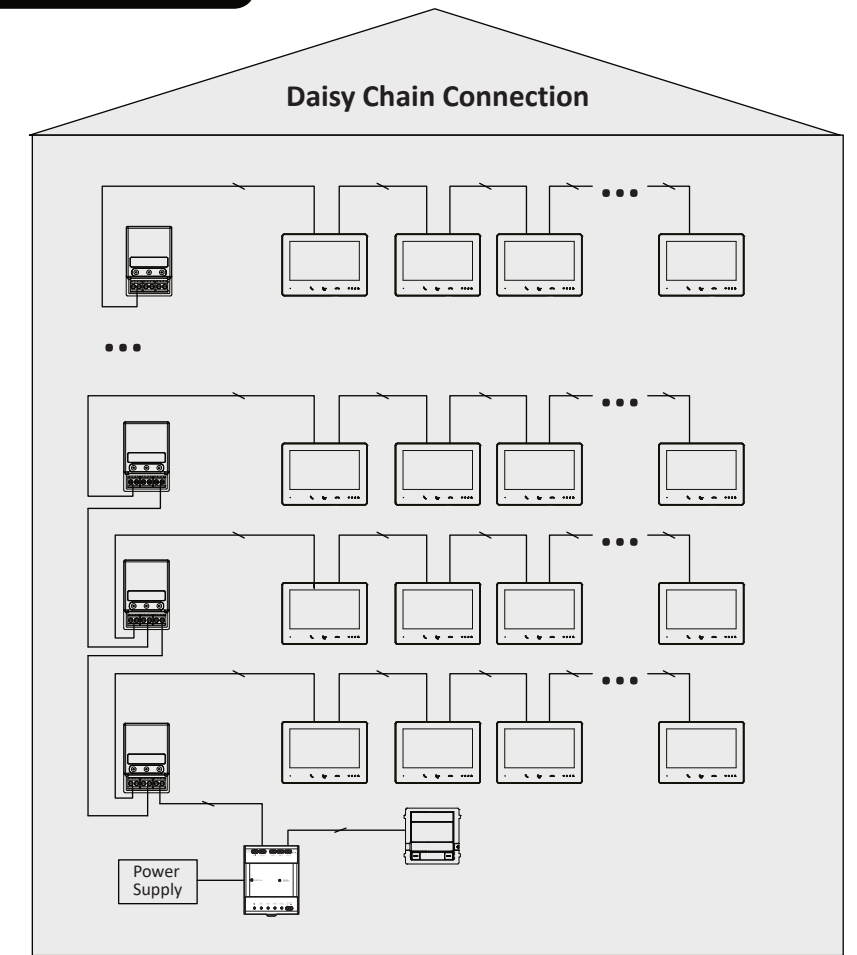
DS-KAD7061EY as Floor Shunt



① It's recommended to use hikvision's indoor station.

2.1 System Wiring

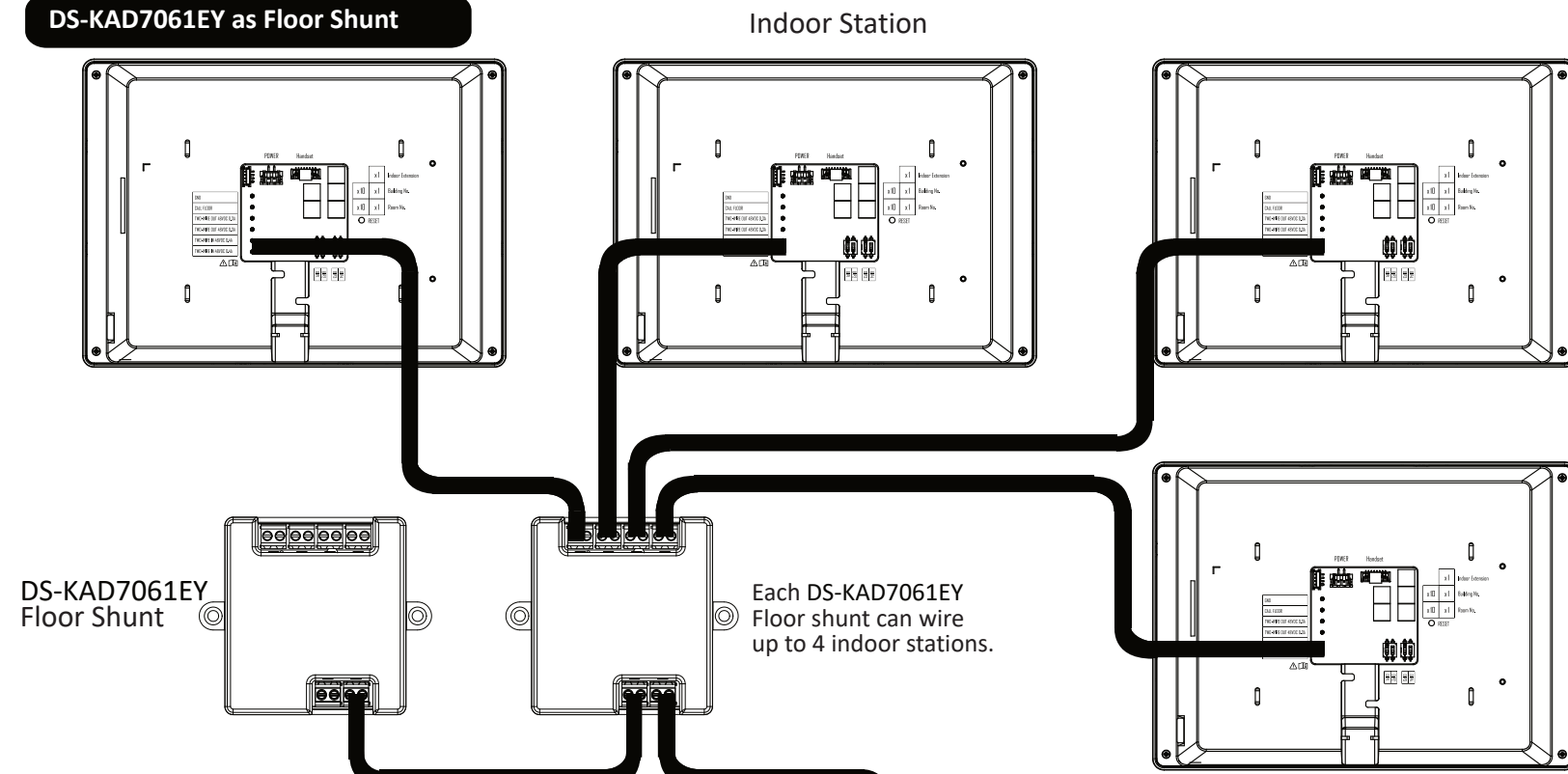
DS-KAD7062EY as Floor Shunt



- ①
- Maximum 22 indoor stations with Wi-Fi function or 64 without Wi-Fi function in one building. (the cables should be better than AWG20)
 - Maximum 16 floor shunts (DS-KAD7062EY) can be cascaded.
 - DS-KAD7062EY does not support star connection.
 - The back-end connected products of this item must comply with fire resistance requirements.

2.2 Wiring

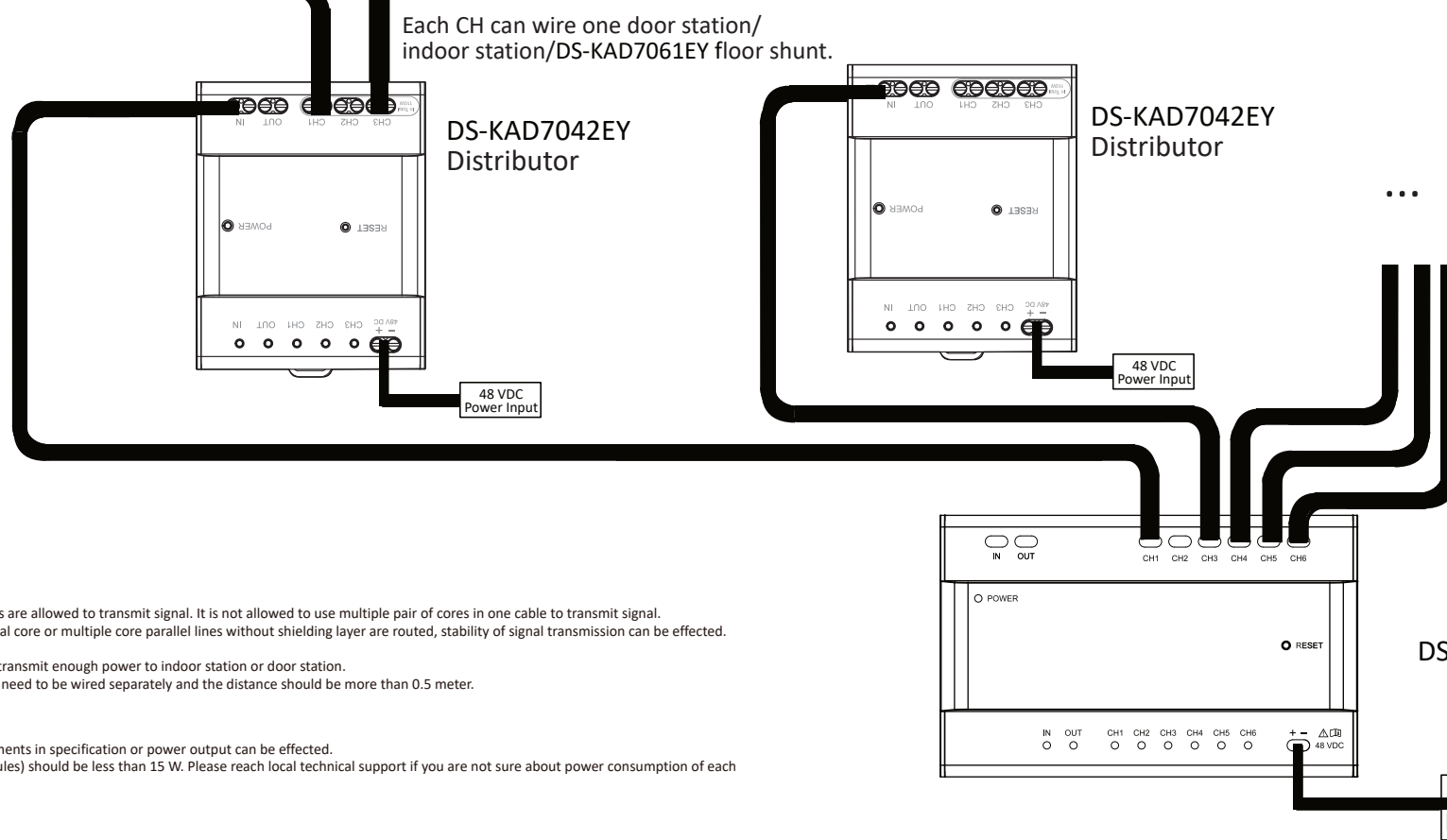
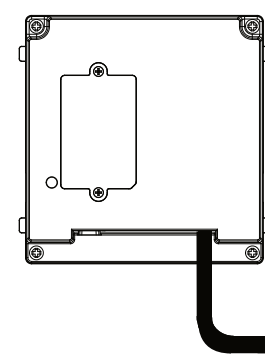
DS-KAD7061EY as Floor Shunt



Cable Type Description

Cable Type	DS-KAD7061EY to DS-KAD7061EY	DS-KAD7061EY to Main Indoor Station	Indoor Station to Indoor Station	DS-KAD7061EY to DS-KAD7042EY	DS-KAD7042EY to Power Module/DS-KAD7060EY-S	DS-KAD7042EY to Door Station	Door Station to Lock (Power Supply)
UTP 5 0.2 mm 2 (Cat.5) AWG24	60 m	60 m	100 m	60 m	60 m	150 m	NA
0.28 mm 2 (TP) AWG23	40 m	40 m	80 m	40 m	40 m	150 m	30 m
0.5 mm 2 (parallel) AWG20	60 m	60 m	100 m	60 m	60 m	150 m	50 m
1 mm 2 (parallel) AWG17	60 m	60 m	100 m	60 m	60 m	150 m	50 m
1 mm 2 (TP) AWG17	40 m	40 m	80 m	40 m	40 m	150 m	100m
1 mm 2 (parallel) AWG15	60 m	40 m	100 m	60 m	60 m	150 m	100 m

Door Station



Up to 6 DS-KAD7042EY distributors can be wired. Each distributor should be powered separately.

Tips for Cables and Wiring

Cables and Wiring

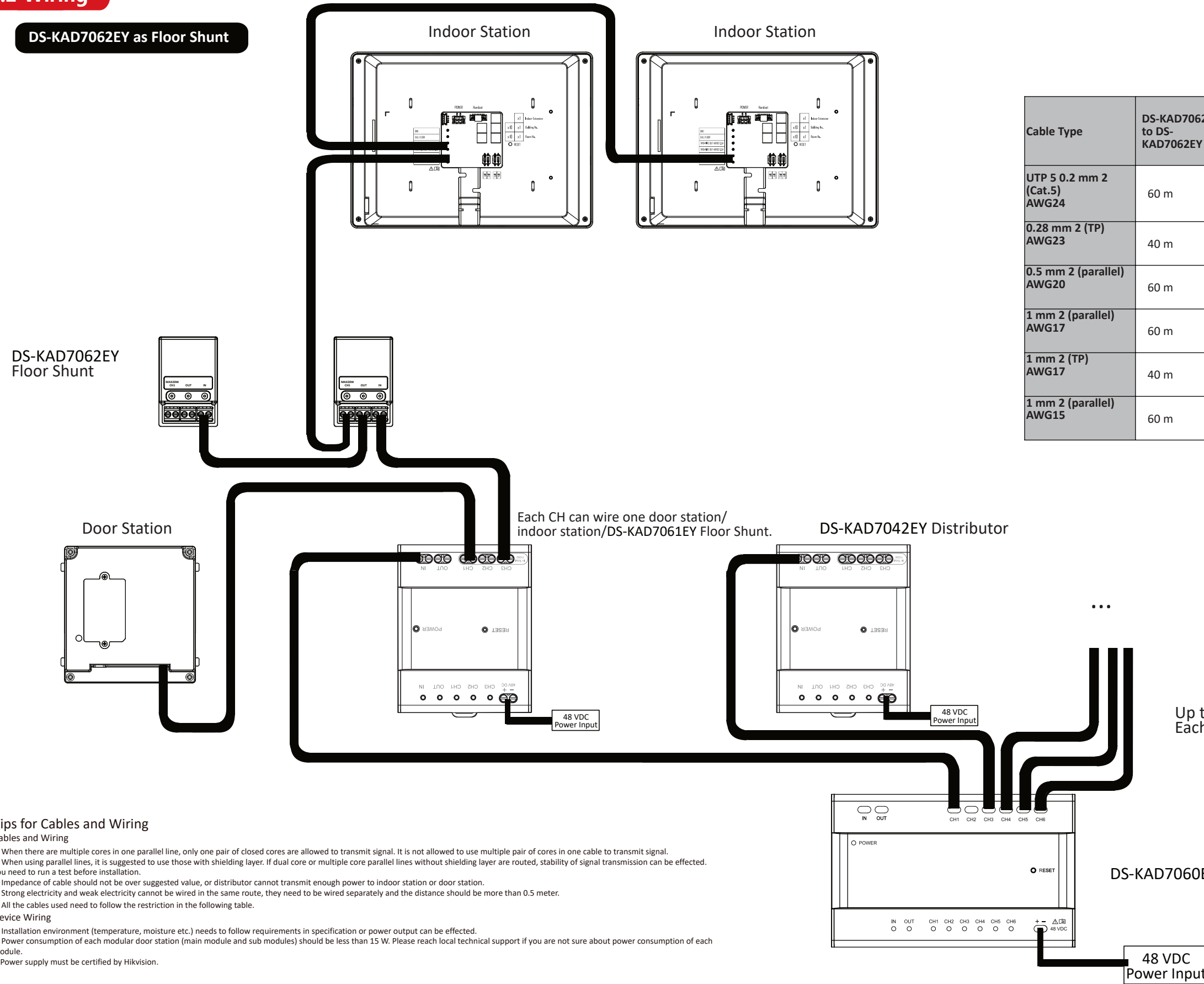
- When there are multiple cores in one parallel line, only one pair of closed cores are allowed to transmit signal. It is not allowed to use multiple pair of cores in one cable to transmit signal.
- When using parallel lines, it is suggested to use those with shielding layer. If dual core or multiple core parallel lines without shielding layer are routed, stability of signal transmission can be effected. You need to run a test before installation.
- Impedance of cable should not be over suggested value, or distributor cannot transmit enough power to indoor station or door station.
- Strong electricity and weak electricity cannot be wired in the same route, they need to be wired separately and the distance should be more than 0.5 meter.
- All the cables used need to follow the restriction in the following table.

Device Wiring

- Installation environment (temperature, moisture etc.) needs to follow requirements in specification or power output can be effected.
- Power consumption of each modular door station (main module and sub modules) should be less than 15 W. Please reach local technical support if you are not sure about power consumption of each module.
- Power supply must be certified by Hikvision.

2.2 Wiring

DS-KAD7062EY as Floor Shunt



Cable Type Description

Cable Type	DS-KAD7062EY to DS-KAD7062EY	DS-KAD7062EY to Main Indoor Station	Indoor Station to Indoor Station	DS-KAD7062EY to DS-KAD7042EY	DS-KAD7042EY to Power Module/DS-KAD7060EY-S	DS-KAD7042EY to Door Station	Door Station to Lock (Power Supply)
UTP 5 0.2 mm 2 (Cat.5) AWG24	60 m	60 m	100 m	60 m	60 m	150 m	NA
0.28 mm 2 (TP) AWG23	40 m	40 m	80 m	40 m	40 m	150 m	30 m
0.5 mm 2 (parallel) AWG20	60 m	60 m	100 m	60 m	60 m	150 m	50 m
1 mm 2 (parallel) AWG17	60 m	60 m	100 m	60 m	60 m	150 m	50 m
1 mm 2 (TP) AWG17	40 m	40 m	80 m	40 m	40 m	150 m	100m
1 mm 2 (parallel) AWG15	60 m	40 m	100 m	60 m	60 m	150 m	100 m

Each CH can wire one door station/
indoor station/DS-KAD7061EY Floor Shunt.

Up to 6 DS-KAD7042EY distributors can be wired.
Each distributor should be powered separately.

Tips for Cables and Wiring

Cables and Wiring

- When there are multiple cores in one parallel line, only one pair of closed cores are allowed to transmit signal. It is not allowed to use multiple pair of cores in one cable to transmit signal.
- When using parallel lines, it is suggested to use those with shielding layer. If dual core or multiple core parallel lines without shielding layer are routed, stability of signal transmission can be effected. You need to run a test before installation.
- Impedance of cable should not be over suggested value, or distributor cannot transmit enough power to indoor station or door station.
- Strong electricity and weak electricity cannot be wired in the same route, they need to be wired separately and the distance should be more than 0.5 meter.
- All the cables used need to follow the restriction in the following table.

Device Wiring

- Installation environment (temperature, moisture etc.) needs to follow requirements in specification or power output can be effected.
- Power consumption of each modular door station (main module and sub modules) should be less than 15 W. Please reach local technical support if you are not sure about power consumption of each module.
- Power supply must be certified by Hikvision.

DS-KAD7060EY-S Distributor