

Florence Data Connection Socket RJ45

OneKeyElectro

DATA SHEET AND OPERATION MANUAL



Purpose of the product

The product is designed for installation and operation inside warm, dry rooms to connect electrical devices via RJ45 connector.

- **Connectors standard:** **EN 60603-7:2020**
- **Color coding of contacts to** **EIA / TIA 568-A / B**

Main technical characteristics

Main purpose	cat.5e
Connector pins:	8P8C
Connector type:	RJ45
Category:	cat.5e
Pin color coding	A and B per TIA/EIA-568.B2
plug type	RJ45
Type of cable pin contacts	blade type with insulation displacement
Type of telecommunication cable t	UTP 4-pair twisted pair
Bare conductor diameter	0.3–0.6 mm
Rated voltage	12-15 V
Rated current	500 mA
Operating frequency range	100 MHz
contact resistance	<20mΩ
Insulation resistance	>1000MΩ
Possibility of connecting a flexible wire	Yes
Socket Orientation	straight
Degree of protection	IP20
Distance between fixing screws	60 mm
Front plate/cover frame material	polycarbonate
Contact material for network cable connection:	copper alloy
Relative humidity	40–95%
Front plate colors	white beige gray the black

Florence Data Connection Socket Layout

To install the finished product, a socket with a front plate is required, as well as a cover frame (ordered separately). See frame selection table below.

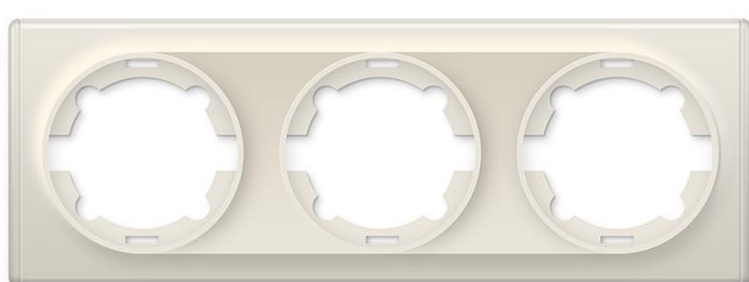
Examples of the layout of sockets RJ45:

Data Socket 1xRJ45 beige 1E20701301-E	+	1-gang frame Florence beige 1E52101301-E	=	Socket assembly
	+		=	
Data Socket 2xRJ45 beige 1E20901301-E	+	1-gang frame Florence beige 1E52101301-E	=	Socket assembly
	+		=	

The device is designed for installation in standard flush-mounted junction boxes with a distance between the fixing screws of 60 mm and a depth of at least 40 mm (not included).

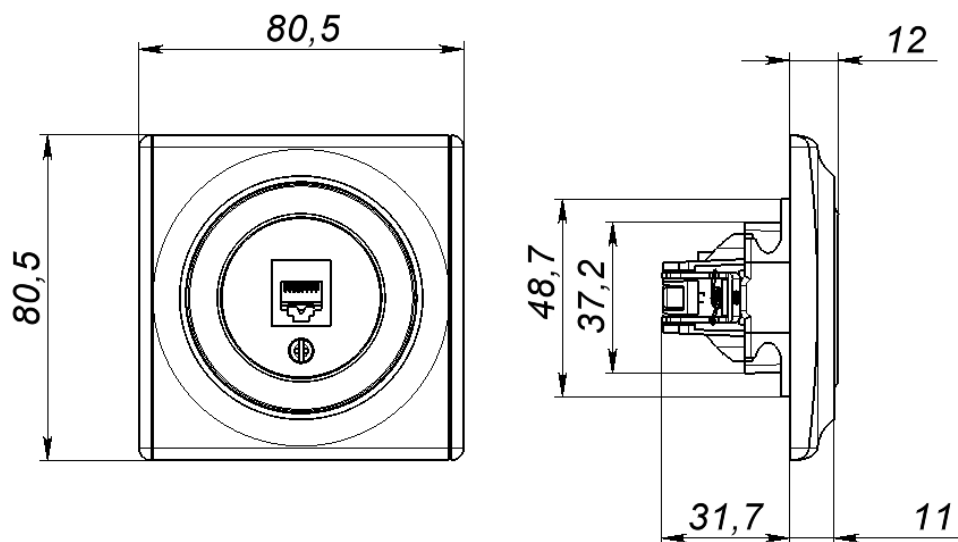
To fix the device, a metal support ring and claws, adjustable with screws, are used.

If it is necessary to install up to five devices in a row, you can choose from the following Florence frames (to be ordered separately):

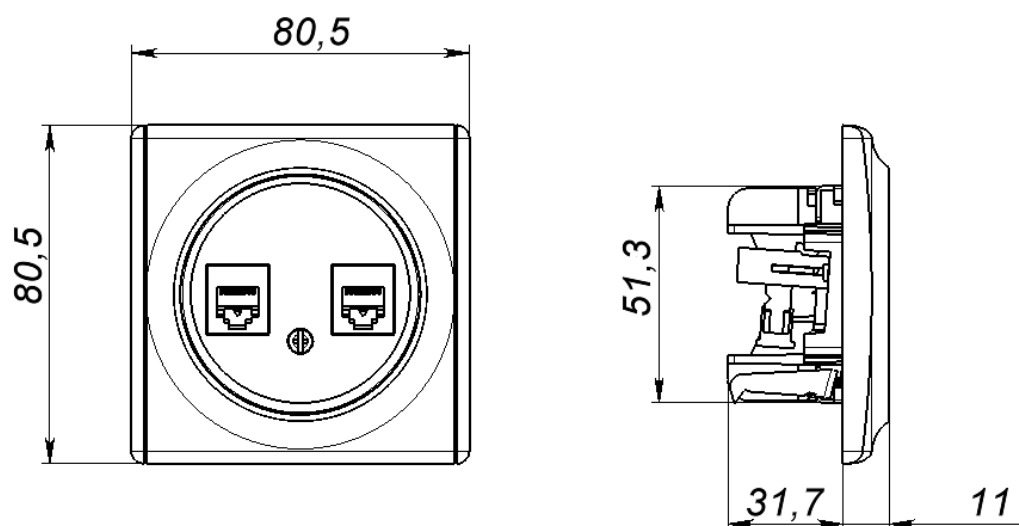
1-gang frame	
2-gang frame	
3-gang frame	
4-gang frame	
5-gang frame	

Installation dimensions of Data sockets with Florence 1-gang frame

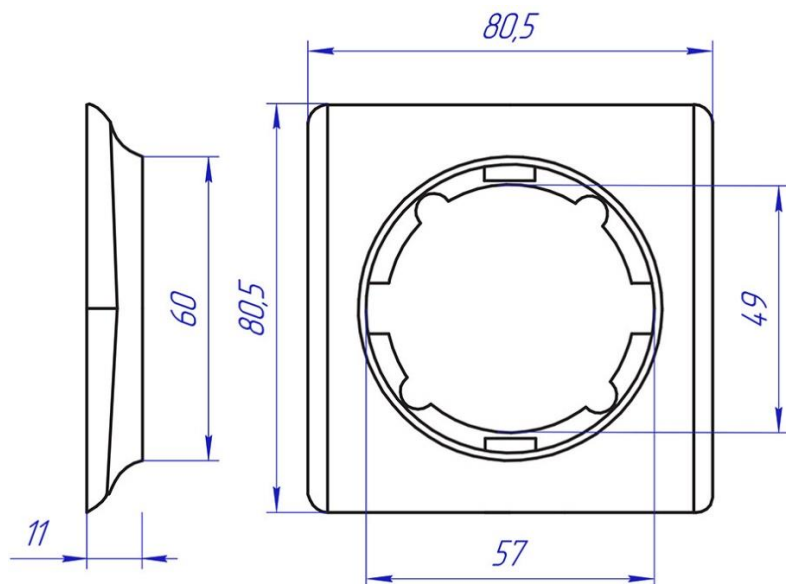
Socket 1xRJ45 (1E2070130x-E):



Double socket 2xRJ45 (1E2090130x-E):

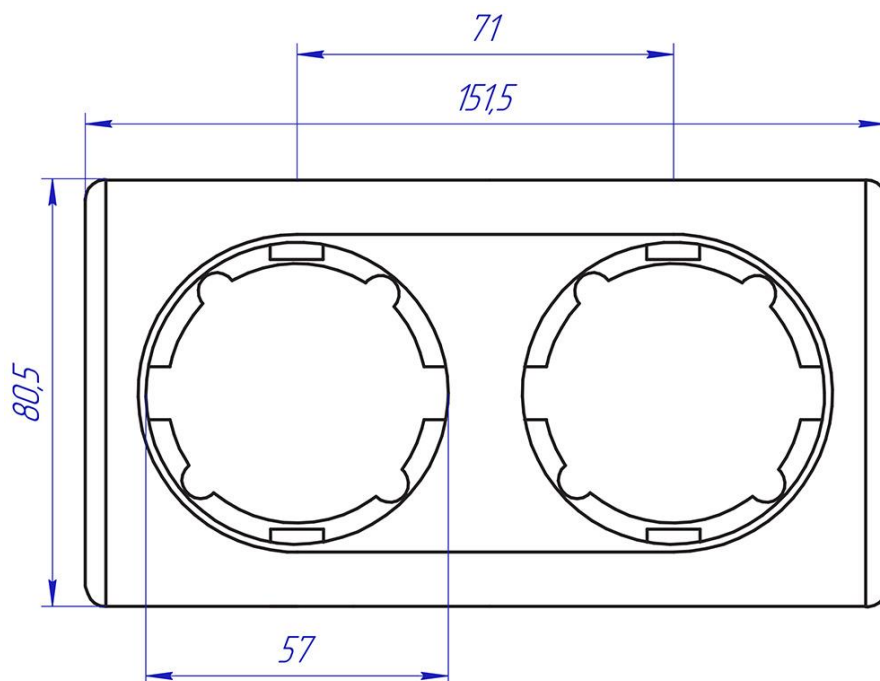


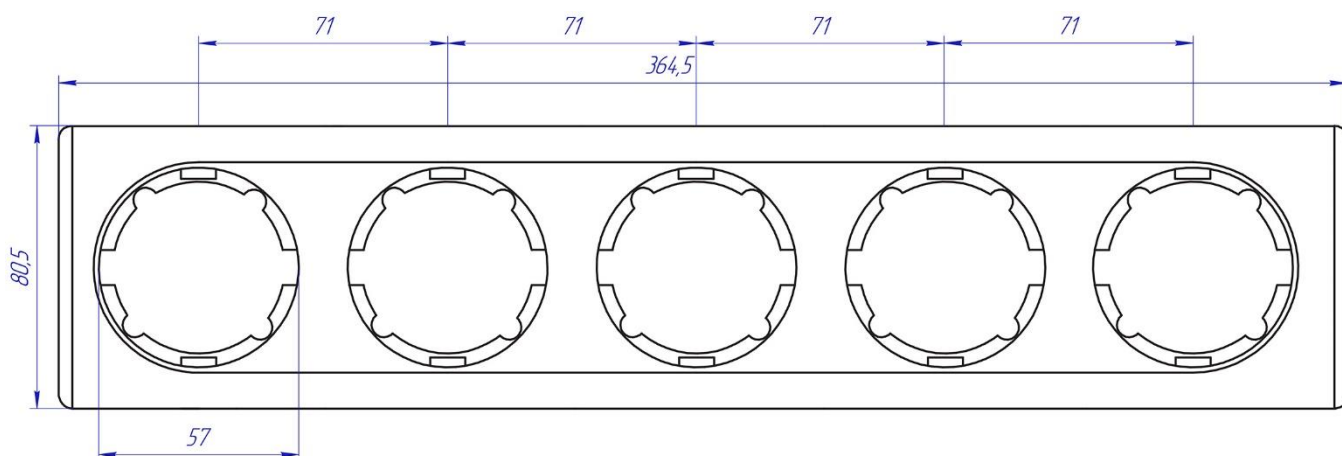
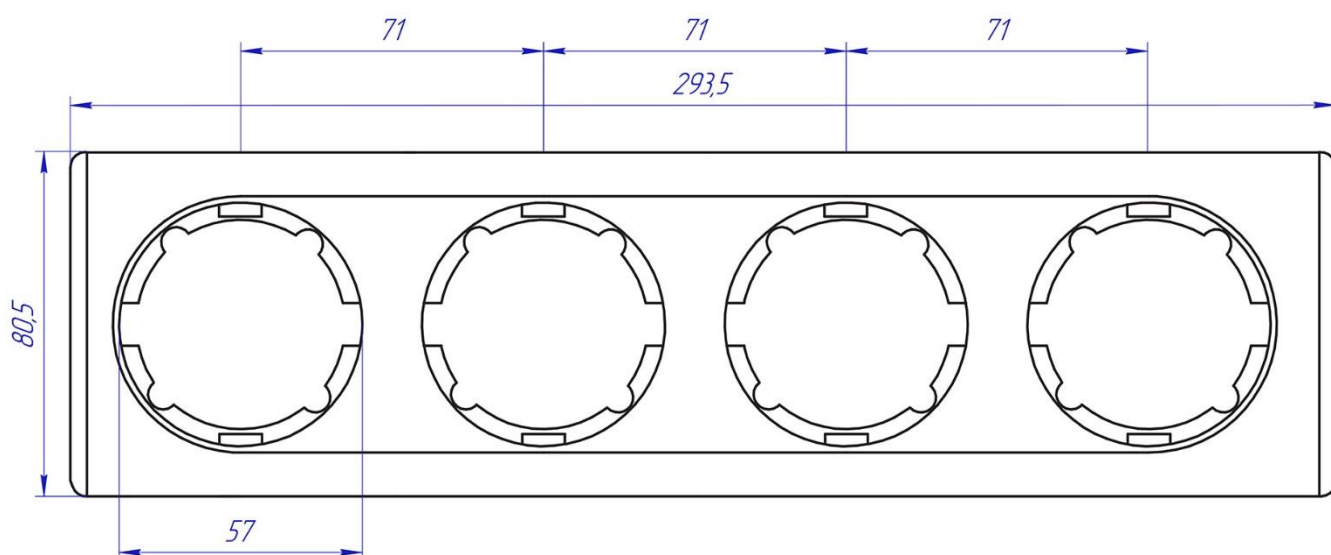
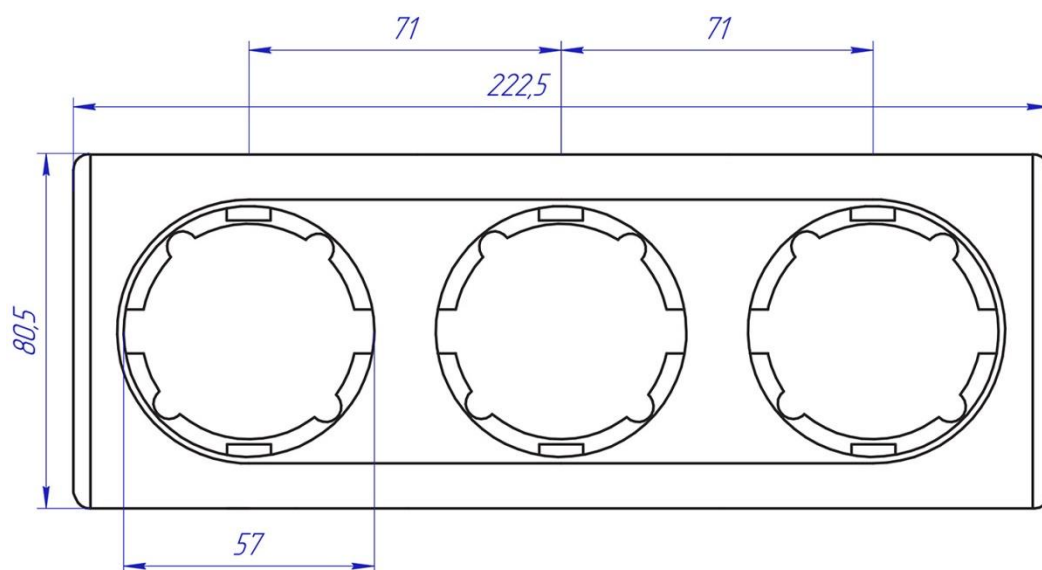
Installation dimensions for Florence cover frames



Frames for 2–5 devices are designed for horizontal installation.

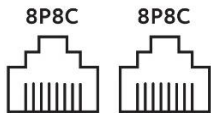
The design provides center-to-center distance between devices of 71 mm.





	Florence data connection socket RJ45
	1E2070130x-E, 1E2090130x-E

Order codes with a brief description

Name	Symbol	Feature	Qty in pack.	Color	Order code
Data Socket 1xRJ45 cat.5e		1xRJ45 Cat.5e IP20	1	white	1E20701300-E
			1	beige	1E20701301-E
			1	gray	1E20701302-E
			1	black	1E20701303-E
Data socket 2xRJ45 cat.5e		2 x RJ45 Cat.5e IP20	1	white	1E20901300-E
			1	beige	1E20901301-E
			1	gray	1E20901302-E
			1	black	1E20901303-E

	Florence data connection socket RJ45
	1E2070130x-E, 1E2090130x-E

Order codes for choosing frames

The product is not equipped with a frame. The choice of frame depends on the number of devices installed in a row. It is possible to combine with other devices of low-current electrical installation products of the Florence series in one multi-gang frame. The choice of frame color depends on the interior design.

Order codes with a brief description of the frames:

Name	Features	Color	Order code
1-gang frame	80.5x80.5 mm	white beige gray black	1E52101300-E 1E52101301-E 1E52101302-E 1E52101303-E
2-gang frame	80.5x151.5 mm	white beige gray black	1E52201300-E 1E52201301-E 1E52201302-E 1E52201303-E
3-gang frame	80.5x222.5 mm	white beige gray black	1E52301300-E 1E52301301-E 1E52301302-E 1E52301303-E
4-gang frame	80.5x293.5 mm	white beige gray black	1E52401300-E 1E52401301-E 1E52401302-E 1E52401303-E
5-gang frame	80.5x364.5 mm	white beige gray black	1E52501300-E 1E52501301-E 1E52501302-E 1E52501303-E



Florence data connection socket RJ45

1E2070130x-E, 1E2090130x-E

Conditions for safe installation and operation

ATTENTION!

All work, including installation, operation and maintenance of the product should be performed by qualified electricians who have been instructed in safety precautions training for electrical installations up to 1000 V.

WARNING!

Electrical equipment may only be installed and assembled in accordance with the installation instructions and by qualified electricians in compliance with the applicable accident prevention regulations. Non-observance may result in damage to the device, fire or other hazards.

All work should be carried out only when all current-carrying parts in the work area have been completely de-energized.

Improper installation and use may result in electric shock or fire.

No modifications or repair work may be carried out on the device.

The currently valid protective measures according to DIN VDE 0100 and the associated part must be observed and applied.

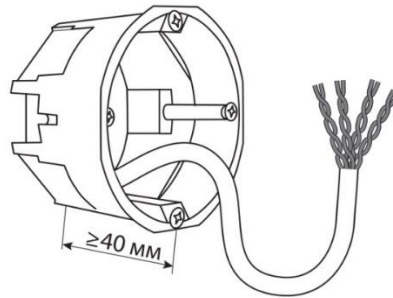
These instructions are part of the product and must remain with the end user or can be downloaded at any time from the manufacturer's website at the following link: www.warm-on.com

Installation

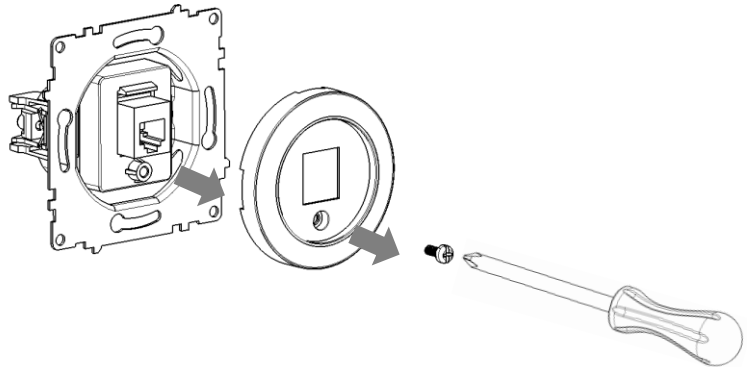
BEFORE INSTALLATION

perform all necessary technical measures to ensure the safety of work, in accordance with applicable national and local norms and rules.

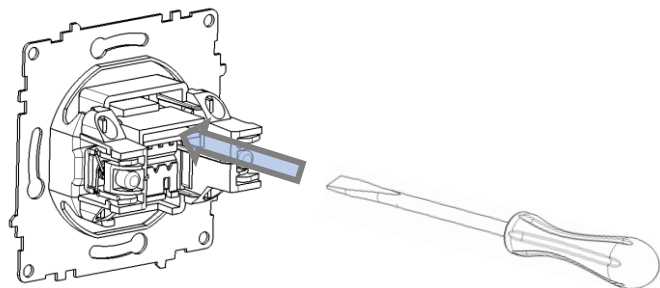
1. Make sure that a seat is prepared in the wall - a standard flush-mounted mounting box * (not included) with a distance between the fixing screws of 60 mm and a depth of at least 40 mm, with a communication cable connected.



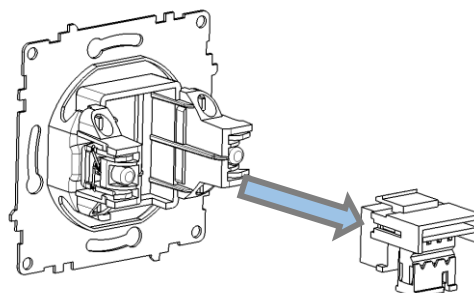
2. Disassemble the product by unscrewing the central screw with a Phillips screwdriver and removing the front plate from the device.



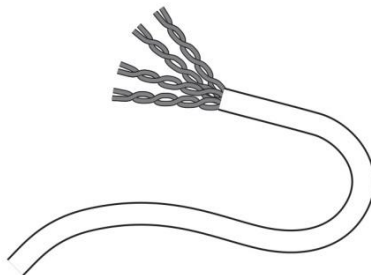
3. Press the latch tab of the socket with a flat screwdriver



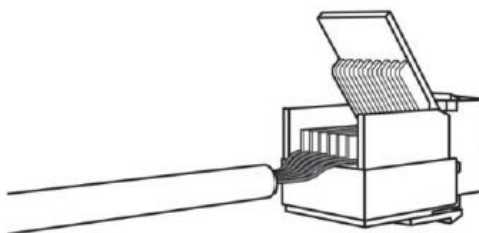
4. and remove the socket from the device.



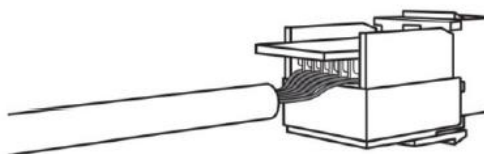
5. Remove the outer insulation from the communication cable ($\approx 20-25$ mm). Release the twisted pairs of cores without unwinding them. Do not strip the insulation!



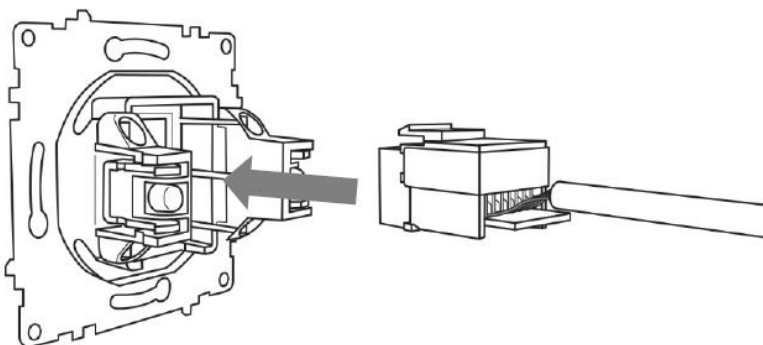
6. Weave the ends of each pair to a length of up to 13 mm. Insert the wires (without stripping the insulation) into the blade terminals of the connector in accordance with the color marking ("RJ45")

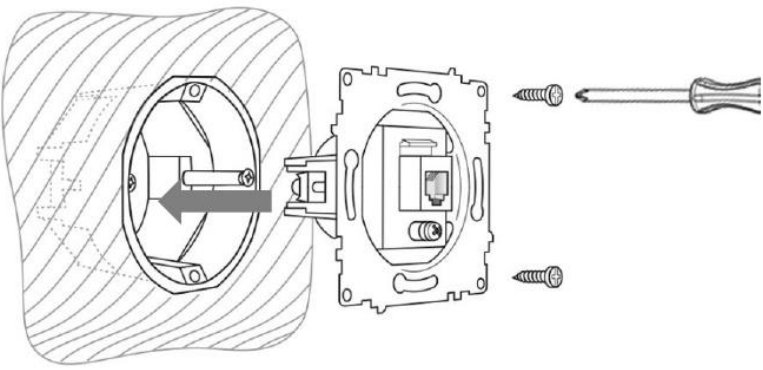
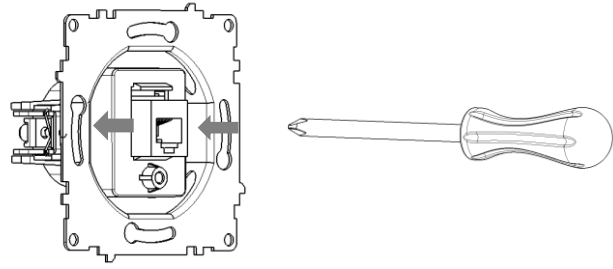
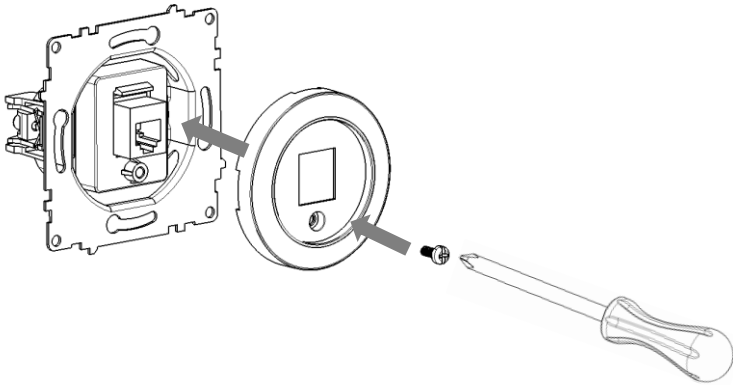
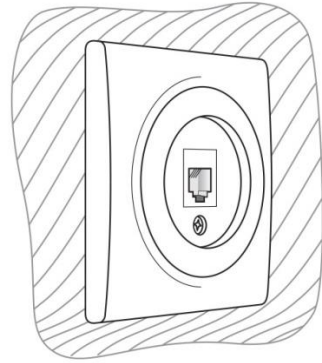


7. Fix the cable cores in the corresponding terminals with a plastic cover until it clicks.



8. Insert the RJ jack with attached cable into the device by snapping it into the mounting hole.



9. Insert the socket with the connected cables into the junction box in the wall. Avoid bending and jamming wires (if necessary, remove claws). Press the metal support ring of the device to the box and fix it with the screws included in the box.	
10. If the mounting box type does not provide for mounting screws, fix the device with claws by tightening the screws on the sides. The claws of the device must not touch or pinch the wires to avoid damage to their insulation.	
11. Apply a cover frame so that it fits snugly against the support ring of the front of the device and does not have gaps with the wall. Insert the front plate into the frame and tighten it with the screw.	
The front plate fixes the cover frame. The socket is installed.	

* The device of the seat and the choice of the type of mounting box depends on the type of wall (brick / concrete, plasterboard, etc.).

	Florence data connection socket RJ45
	1E2070130x-E, 1E2090130x-E

Connecting an RJ45 Jack

When choosing an information cable for connecting a socket RJ45, observe the category and core diameter/section (see the technical data table) of the connected cable. The cable must meet the specifications of at least Cat.5e UTP per TIA/EIA-568A/B.

When connecting the cores of the data cable to the pins of the RJ45 connector, make sure that the color marking of the pins of the connector and the cores of the data cable match.

Correspondence table for numbering and color coding of contacts according to EIA / TIA 568-A / B:

Color Code	Pin number of socket connector							
Pin number	1	2	3	4	5	6	7	8
Color code according to EIA/TIA 568-A	green white	green	orange white	blue	blue white	orange	brown white	brown
Color code according to EIA/TIA 568-B	orange white	orange	green white	blue	blue white	green	brown white	brown

Scope of supply

The socket is supplied with a device with a front plate installed in accordance with the color coding of the article. The decorative frame is not included in the scope of supply and must be ordered separately (see frame selection table).

Order code	Product	Qty	Factory number	Note
1E2070130x-E, 1E2090130x-E,	Socket with front plate, according to the color coding	1	Barcode on the product	In individual package. See "Packaging and Marking"
1E52y0130x-E	Molded plastic cover frame Florence. Gang quantity and color - in accordance with the order code (y is the gang quantity, x - color coding)	1	Barcode on the product	In individual package. See "Packaging and Marking"

Packaging and marking

Packaging

The product is packaged in a thick polymer bag with the following information:

- product series
- trademark
- name and address of the manufacturer
- name and address of the importer in the EU

as well as other necessary information in accordance with the manufacturer's instructions and local requirements.

The package has a cutout for hanging the goods in the package.

Marking

	Product marking is made by means of a marking label. The marking label contains the following product information: • order code • description • connector type information • degree of protection • production material • installation method • barcode as well as other necessary information in accordance with the manufacturer's instructions and local requirements. The marking label is located on the back of the package.
---	---

Storage and transportation

Transportation of the product is allowed in the manufacturer's original packaging by any type of covered transport that ensures the safety of the packaged products from mechanical damage, dirt and moisture.

The product may only be stored in the manufacturer's packaging, in rooms with natural ventilation and in conditions in accordance with the manufacturer's technical data.

Norms compliance and certification

Wenzhou Guipai Electric Co. Ltd. hereby declares that the products comply with the following directives:

RoHS Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment and the extension by Directive 2015/863/EU.

Disposal

After the end of their service life, household data connection sockets are subject to dismantling and disposal. Dismantling and disposal do not require special tools. These products do not contain materials of increased danger to the environment and humans; special safety measures during dismantling and disposal are not required.

Dispose of in accordance with local regulations.

NOTE ON ENVIRONMENTAL PROTECTION From the date of implementation of the European Directives 2012/19/ EU into national law, the following applies: Electrical and electronic equipment must not be disposed of with household waste. The consumer is legally obliged to return electrical and electronic equipment at the end of its service life to the public collection points set up for this purpose or to the point of sale. Details are regulated by the respective state law.

Network outlets and antenna outlets as passive devices fall under category 5 of § 2 paragraph 1 of the Electrical and Electronic Equipment Act (ElektroG3) (Act on the marketing, return and environmentally sound disposal of electrical and electronic equipment of May 20, 2021, valid from January 1, 2022).

The symbol on the product, the instructions for use or the packaging indicates these regulations. By recycling, material recovery or other forms of recovery of waste equipment/batteries, you are making an important contribution to protecting our environment.



	Florence data connection socket RJ45
	1E2070130x-E, 1E2090130x-E

Warranty

We reserve the right to make technical and formal changes to the product in the interests of technical progress.

The manufacturer establishes a 2-year warranty period, calculated from the date of sale, provided that the consumer observes the rules for transporting, storing and operating the product.

In the event of a malfunction during the warranty period, the consumer must contact the place of purchase of the product.

The manufacturer reserves the right to refuse to meet the requirements of the consumer for warranty obligations, in the event of the following conditions:

- The presence of mechanical damage to the device;
- Product Design Changes
- Damage resulting from misuse or improper use; moisture or lightning strikes.
- Damage resulting from non-compliance with standards or technical regulations of power, cable or telecommunication networks;
- Unauthorized repair or opening of the product.

Limitation of Liability

The manufacturer is not responsible for:

- For direct, indirect or consequential damages, loss of profits or commercial losses in any way related to the product;
- For possible harm directly or indirectly caused by the product to people, pets, property in the event that this happened as a result of non-compliance with the rules and operating conditions, installation of the product, in violation of applicable standards and norms, or as a result of intentional or negligent actions of the buyer (consumer) or third parties.

The liability of the manufacturer cannot exceed the intrinsic value of the product.

	Florence data connection socket RJ45
	1E2070130x-E, 1E2090130x-E

Importer in the EU:

warm-on GmbH, Rastatter Str. 30 | 75179 Pforzheim, Germany

Tel. +49 (0) 7231 4609161 (customer support), www.warm-on.com

Manufacturer:

Wenzhou Guipai Electric Co., Ltd
No.16, Yulan Road, Binhai Zone, Economic Technology
Development Zone, Wenzhou, 325025, China

Made in China under control of Warm-On GmbH, Germany

For more information about the products, visit warm-on.com
or call +49 (0) 7231 4609161

