

## DATA SHEET



**mH-kf, mH-kh**  
Cable sets  
of the F&Home system

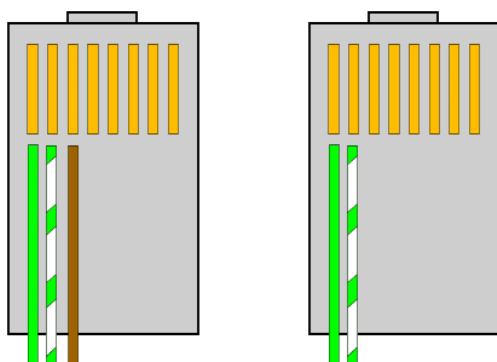
The logo for F&Home features the text "F&Home" in a grey, sans-serif font. Above the ampersand, there is a red graphic element consisting of two lines that meet at a point, resembling a roof or a stylized house.

The mH-kf and mH-kh are complete cable sets prepared for single-family houses and flats. The mH-kh set (houses) includes: CAN cables for connecting modules of 15 cm (5 pcs), 20 cm (5 pcs), 25 cm (2 pcs), 50 cm (1 pc), 6 m (1 pc) and 10 m (1 pc); wires to connect relays (4 pcs). The mH-kf set (flats) includes: CAN cables for connecting modules of 15 cm (3 pcs), 20 cm (3 pcs), 25 cm (1 pc), 50 cm (1 pc), 10 m (1 pc); wires to connect relays (2 pcs). For large installations, two sets of cables or a combination of them (mH-Kh + mH-Kf) must be purchased.

The F&Home system uses a CAN bus (data bus) to connect devices. Sections of LIYYY or UTP/FTP cable are terminated with RJ45 connectors. In order to prepare the cables properly on your own, you need the RJ45 crimping tool. The bus requires the connection of two wires one to one in the plugs (without crossover). The third wire is used as a shield and is to be crimped only in one plug (obligatory). Cables should be crimped in RJ45 plugs with only external isolation removed. Do not isolate individual wires (slide them into the plug in their insulation).



The CAN bus signal is quite resistant to interference from external sources, however, it is not recommended to lead the bus cables parallel to the power supply cables (it is necessary to keep a distance between them). The CAN bus cable should be fixed in one section (connection is not recommended) and terminated on both sides with RJ45 plugs.



It is absolutely necessary to follow the rule of not closing the CAN line. A complete system should have two free slots - at the beginning and end of the CAN bus. In case of complex systems (more than 50 modules), it may be required to use CAN line terminators or CAN separators. Such cases should be consulted with F&F.

Technical data table	
Module type	auxiliary - cable sets
Cable type - bus	LICY 3x0.14 mm <sup>2</sup>
Cable type - relays	LICY 8x0.14 mm <sup>2</sup>
Termination of bus cables	RJ45 connector
Storage temperature	-20°C to +50°C
Operating temperature	0°C, +45°C
Humidity	<=85% (without condensation or aggressive gases)
Dimensions - kf set	Bus 15 cm      3 pieces Bus 20 cm      3 pieces Bus 25 cm      1 piece Bus 50 cm      1 piece Bus 1000 cm   1 piece Relays   2 pieces
Dimensions - kh set	Bus 15 cm      5 pieces Bus 20 cm      5 pieces Bus 25 cm      2 pieces Bus 50 cm      1 piece Bus 600 cm     1 piece Bus 1000 cm   1 piece Relays   4 pieces
Dimensions of the packaging	304 x 241 x 48 mm
Gross weight (including packaging) of the mH-kf set	415 g
Gross weight (including packaging) of the mH-kh set	656 g