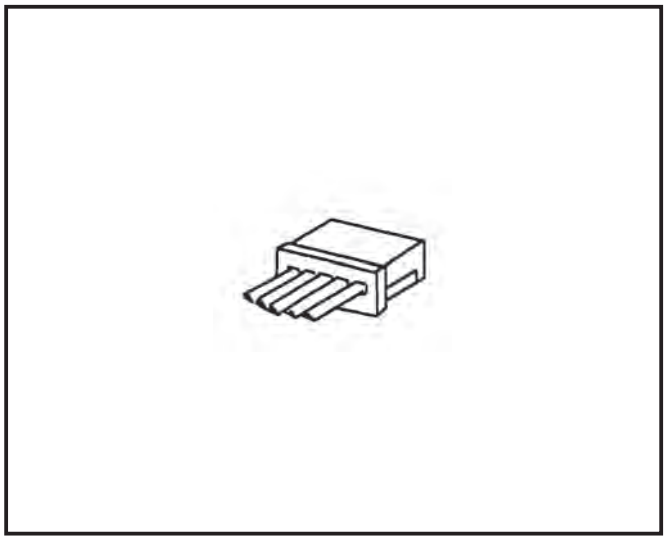
Connector Cable For Remote Display PAC-SA88HA-E

Figure



Descriptions

•This adapter enables control of several units with a multiple remote control display.

Applicable Models

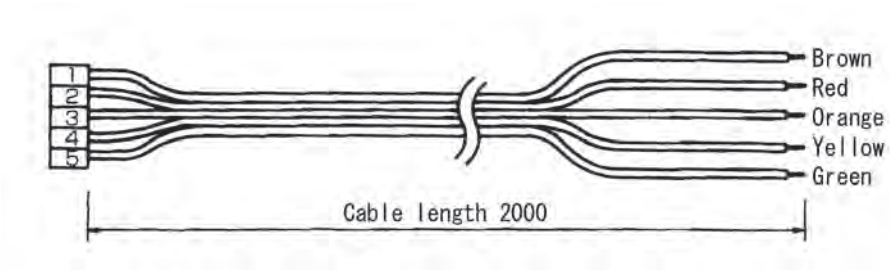
■ S-series models
■ P-series models

Specifications

Function	Connecting cable to output status signal of the air conditioner, and ON/OFF by external (pulse) signal.
Input signal	Pulse signal (no voltage instantaneous ON contact) Pulse duration 200m/s or more.
Connector	5P (connector to CN51 or CN52 on indoor unit control board)
Cable type	5-wire vinyl cable, for extension: sheathed vinyl cord or cable (0.5 to 1.25 mm²)
Cable length	2 m (max. 10 m when extended locally)
Output capacity)	DC12V 75 mA (Max 0.9W)

Dimensions

Unit : mm



How to Use / How to Install

1. Parts list

Make sure that the following items are included in the package.
Multiple Remote Controller Adapter 2 m (6-1/2 ft)
• PAC-SA88HA-E: 1 pc.

2. Connection to the Indoor Unit

Connect the connector of the Multiple Remote Controller Adapter to the connector CN51 or CN52 of the indoor unit control board as necessary.
The connector can only be connected in one direction. Do not force the connection.

3. Locally Procured Parts

All parts other than the Multiple Remote Controller Adapter are procured locally.
The items required will depend on the connection method. Refer to the example of use shown below.

(Example) ① Switch ..... Single pole, single action switch.

⚠CAUTION	Select a part with contacts for extremely low amperage. 5 or 12 VDC is used at the contact points for the switch so there is a load of only approximately 1 mA. Improper switch selection could cause improper operation.

② Relay ..... Use relays that meet the following specifications.
Operation coil
Rated voltage: 12 VDC
Power consumption: 0.9 W or less
* Use the diode that is recommended by the relay manufacturer at both ends of the relay coil.

③ Transit relay ..... When the wiring work as described in *6. Wiring Restrictions* is required, this relay is used.

④ Control cable ..... The length of the electrical wiring for the PAC-SA88HA-E is 2 meters (6-1/2 ft).
To extend this length, use sheathed 2-core cable. Don't extend the cable more than 10 meters (32 ft).
Control cable type: CVV, CVS, CPEV or equivalent
Cable size: 0.5 mm^2 ~ 1.25 mm^2 (16 to 22 AWG)

⚠CAUTION	**1. Wiring should be covered by insulation tube with supplementary insulation.** **2. Use relays or switches with IEC or equivalent standard.** **3. The electric strength between accessible parts and control circuit should have 2750 V or more.**

4. Locally Procured Wiring

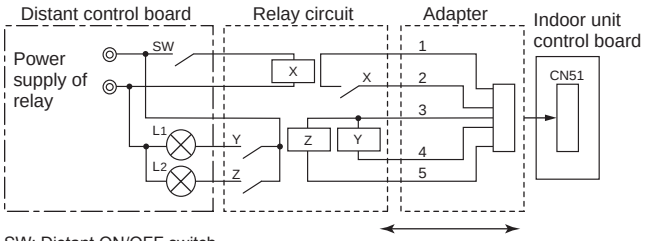
Basic connection methods for following models are shown below as examples.
For details, refer to the CITY MULTI DATA BOOK, Electrical Wiring Diagram etc.

Polarity (output terminal)

No.	Color	CN51	CN52
1	Brown		+
2	Red		-
3	Orange	+	-
4	Yellow	-	-
5	Green	-	

Indoor unit "-E" type input/output connector (CITY MULTI series)

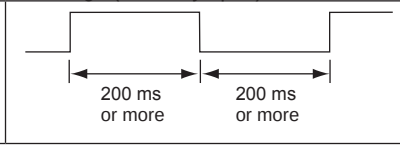
① Input (CN51)



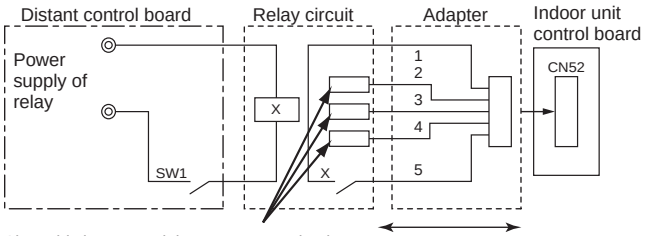
Maximum cable length is 10 m (32 ft.)
* Every time the SW is pushed (the pulse is inputted), it reacts against ON/OFF.

SW: Distant ON/OFF switch
L1: Status lamp
L2: Error lamp
X: Relay (a point of contact, fixed DC1 mA)
Y, Z: Relay Contact rating voltage ≥ 15 VDC
Contact rating current ≥ 0.1 A
Minimum applicable load ≤ DC1 mA

• ON/OFF (Pulse) input specification

Item	Description
Input signal	Pulse sign (Normally open)
Standard of pulse	

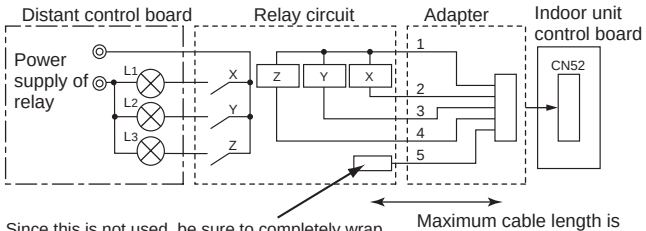
② Input (CN52)



Since this is not used, be sure to completely wrap with insulation tape.
Maximum cable length is 10 m (32 ft.)
SW1: Demand switch
X: Relay (coil ≤ 0.9 W, 12 VDC)

SW1	Indoor unit
ON	Forced thermo-OFF
OFF	Normal running

③ Output (CN52)



Since this is not used, be sure to completely wrap with insulation tape.
Maximum cable length is 10 m (32 ft.)
L1: Status lamp
Fan motor output (SW1-5 OFF)
Thermostat ON (SW1-5 ON)
L2: Cooling/Dry status lamp
L3: Heating status lamp
X, Y, Z: Relay (Coil with fixed 12 VDC, a power consumption of 0.9 W or less)

5. Wiring Restrictions

Keep the length of the cable connecting to the circuit board of the indoor unit shorter than 10 meters (32 ft).
Longer than 10 meters (32 ft) could cause improper operation.
Use a transit relay when extending wiring such as remote wiring.
When using a polarized relay (such as a relay with a diode), connect the relay in the correct polarity to avoid damage to the indoor unit circuit board.