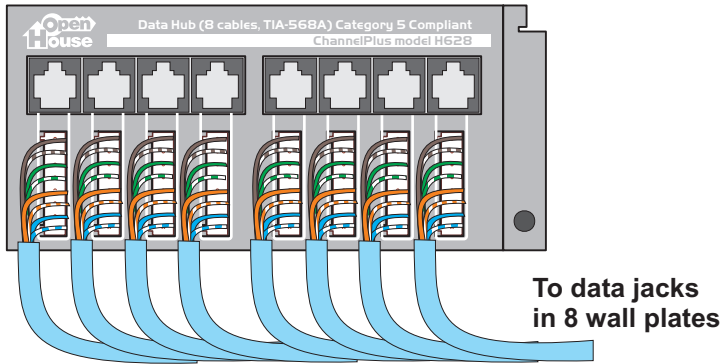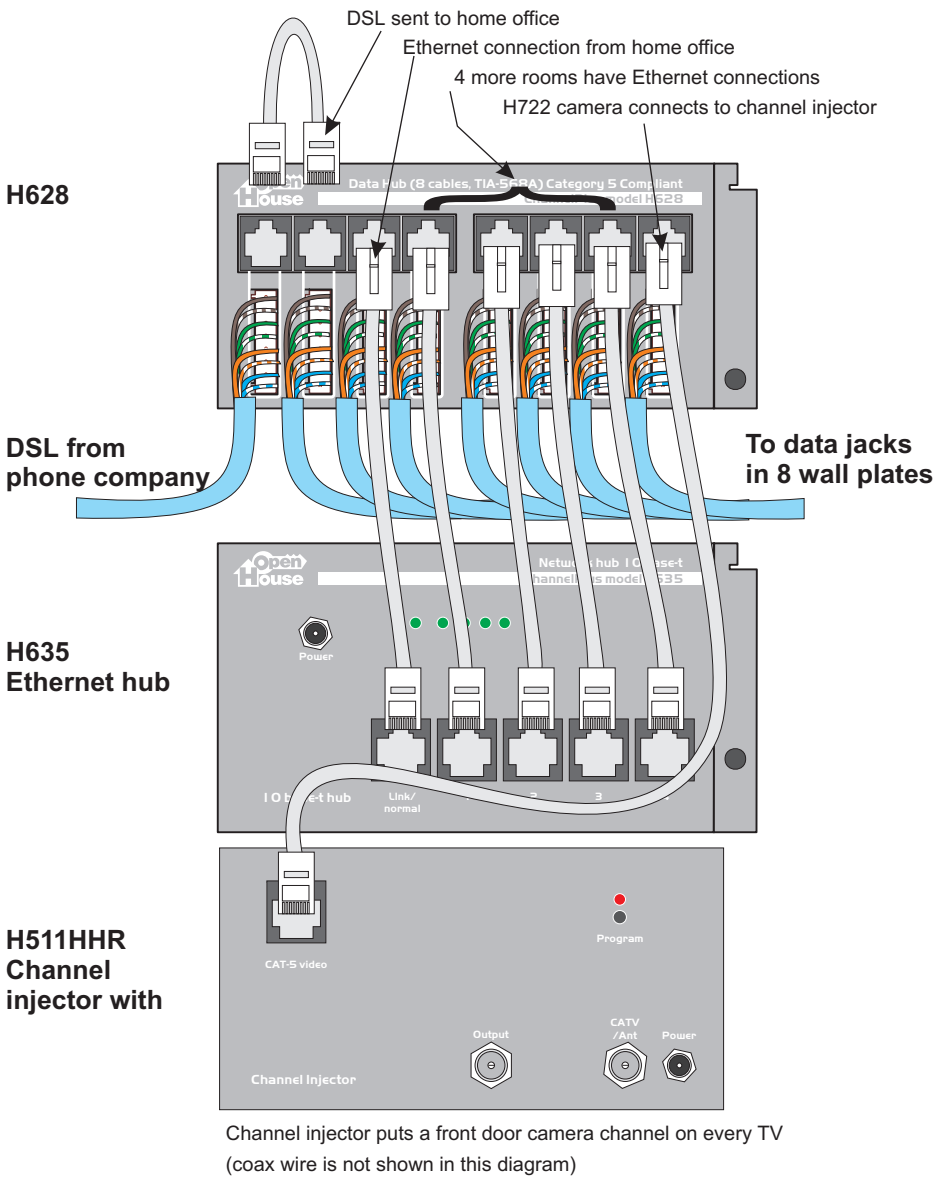# ChannelPlus Data Modules

The H628 terminates data lines with CAT-5 jacks (RJ-45). Use CAT-5 jumper cables to route services to wall plates in the appropriate rooms

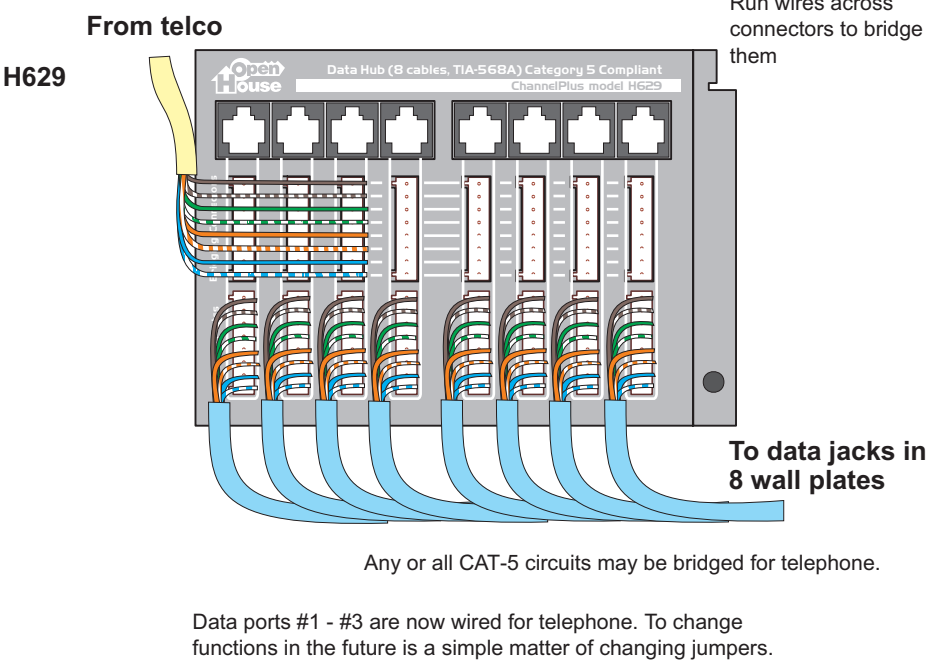**Wiring H628/H629 CAT-5 data hub (H628 shown)**

Data Hub (8 cables, TIA-568A) Category 5 Compliant
ChannelPlus model H628

To data jacks in 8 wall plates

Sample system

DSL sent to home office
Ethernet connection from home office
4 more rooms have Ethernet connections
H722 camera connects to channel injector

H628

Data Hub (8 cables, TIA-568A) Category 5 Compliant
ChannelPlus model H628

DSL from phone company

To data jacks in 8 wall plates

H635 Ethernet hub

Netune hub I O Base-t
channel plus model H635

Power

I O base-t hub   Link/normal

H511HHR Channel injector with

CAT-5 video   Program

Output   CATV/Ant   Power

Channel Injector

Channel injector puts a front door camera channel on every TV
(coax wire is not shown in this diagram)

Using the H629 for telephone distribution

In a structured wire system, telephone outlets are wired using CAT-5 cables with a single RJ-45 jack at each end of the wire. To bring telephone to the jacks, bridge the telephone lines at the hub.
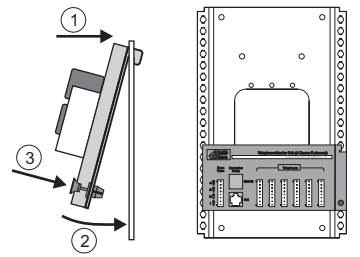
From telco

H629

Data Hub (8 cables, TIA-568A) Category 5 Compliant
ChannelPlus model H629

Run wires across connectors to bridge them

To data jacks in 8 wall plates

Any or all CAT-5 circuits may be bridged for telephone.

Data ports #1 - #3 are now wired for telephone. To change functions in the future is a simple matter of changing jumpers.

SAFETY INFORMATION:
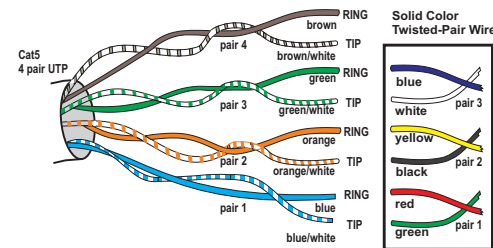a) Never install telephone wiring during a lighting storm.
b) Never install telephone jacks in wet locations.
c) Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
d) Use caution when installing or modifying telephone lines.
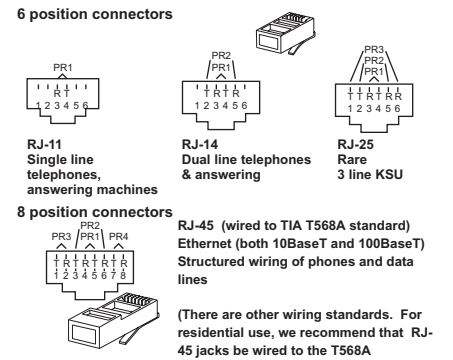
OpenHouse™ modules attach from the top

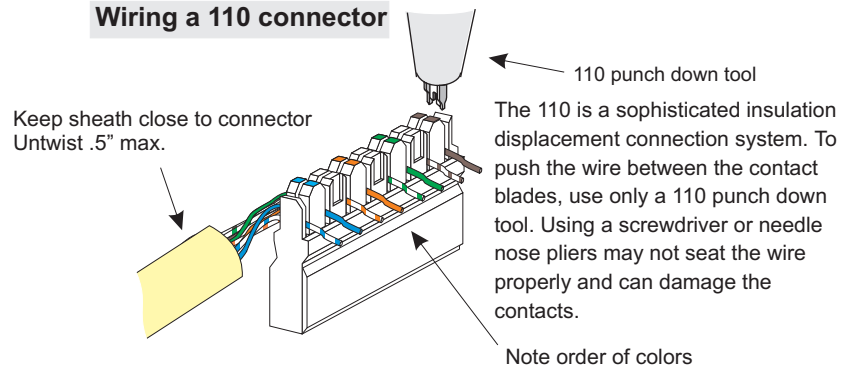1) Hook from the top
2) Swing into place
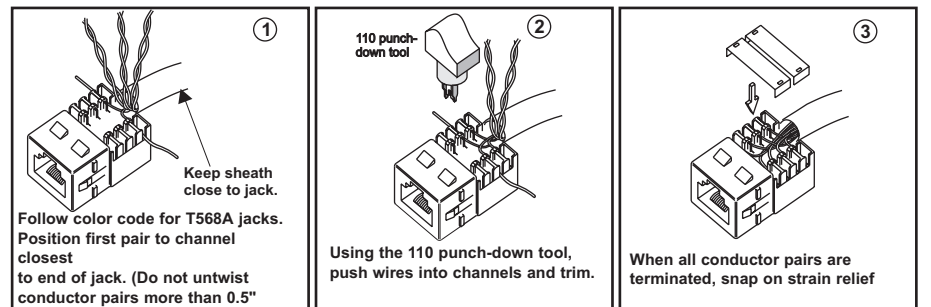3) Push button to lock

Wire Color Codes

Cat5 4 pair UTP

pair 4 brown RING / brown/white TIP
pair 3 green RING / green/white TIP
pair 2 orange RING / orange/white TIP
pair 1 blue RING / blue/white TIP

Solid Color Twisted-Pair Wire

blue — pair 3
white
yellow — pair 2
black
red — pair 1
green

Modular connectors

6 position connectors

PR1
1 2 3 4 5 6
RJ-11 Single line telephones, answering machines

PR2 PR1
1 2 3 4 5 6
RJ-14 Dual line telephones & answering

PR3 PR2 PR1
1 2 3 4 5 6
RJ-25 Rare 3 line KSU

8 position connectors

PR3 PR1 PR4
1 2 3 4 5 6 7 8

RJ-45 (wired to TIA T568A standard) Ethernet (both 10BaseT and 100BaseT) Structured wiring of phones and data lines

(There are other wiring standards. For residential use, we recommend that RJ-45 jacks be wired to the T568A

Wiring a 110 connector

Keep sheath close to connector Untwist .5" max.

110 punch down tool

The 110 is a sophisticated insulation displacement connection system. To push the wire between the contact blades, use only a 110 punch down tool. Using a screwdriver or needle nose pliers may not seat the wire properly and can damage the contacts.

Note order of colors

Wiring a Cat-5 jack

① Keep sheath close to jack. Follow color code for T568A jacks. Position first pair to channel closest to end of jack. (Do not untwist conductor pairs more than 0.5"

② 110 punch-down tool — Using the 110 punch-down tool, push wires into channels and trim.

③ When all conductor pairs are terminated, snap on strain relief

H628 CAT-5e performance

| | 0 | 50 | 100 (MHz) |

(dB) axis: 0, 20, 40, 60, 80

— NEXT 1 & 2
— NEXT 2 & 3
— NEXT 3 & 4
— NEXT 1 & 4
— NEXT 1 & 3
— NEXT 2 & 4
— Cat-5e LIMIT

NEXT = Near End Cross Talk (measured on Agilent Wire Scope 350)

Wiring Modular Plug (T568A)

Insert wires in this order:
White/Green
Green
White/Orange
Blue
White/Blue
Orange
White/Brown
Brown

Do not untwist more than 0.5"
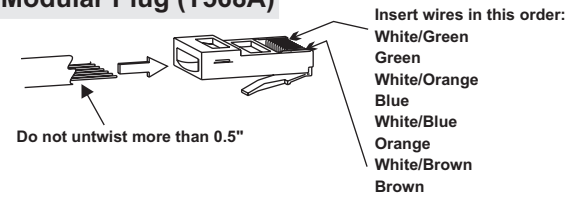
Colors of OpenHouse™ wiring

| CAT-5, 4 UTP | RG-6 coax |

Telephone (from telco)
Telephone (in house)
Data
Security

Downstream/External (to TVs)
Upstream/Internal (from modulators)

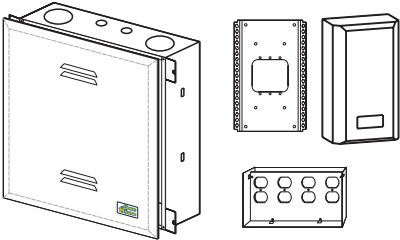# OPEN HOUSE™
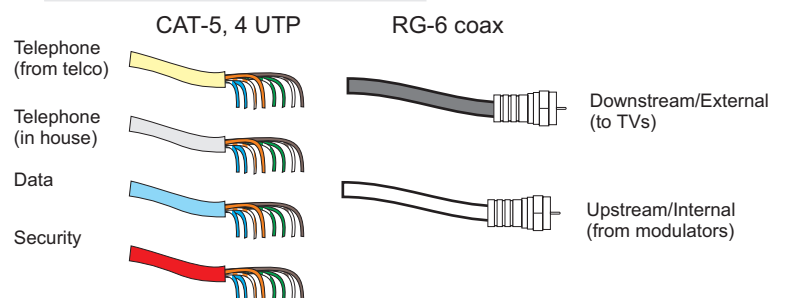
Compatible

ChannelPlus Enclosures, Modules, Accessories & Wall Plates

Service center enclosures

A full line of OpenHouse compatible enclosures, from simple, inexpensive mounting plates to high capacity in-wall cabinets. AC outlets can be mounted inside the cabinets using a UL listed accessory.
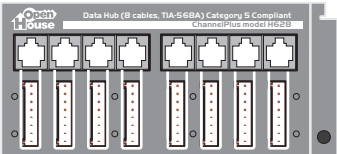
Starter systems

RF splitters and telephone punch downs. When it is time to upgrade, just snap this module out and replace with more sophisticated units.
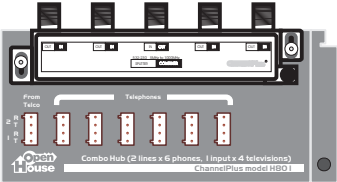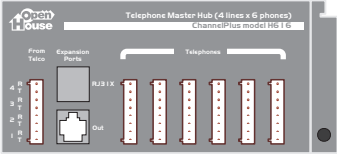
Data hubs

Termination blocks for the CAT-5 cables, Ethernet hubs. Bring the Internet to any room in the home. Or create a home data network.

Telephone hubs

Connections for 1-4 phone lines to every room. Starter hub adds RJ-31X jack for security system dialer.

Wall plates

Wall plate systems for all rooms. The typical room gets TV and telephone. The Home office wall plate adds data ports. The media center wall plate adds satellite feeds.
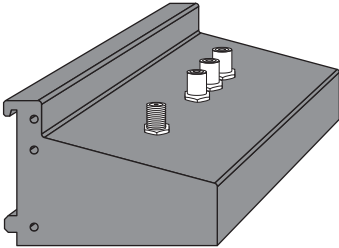
Coax panels

Distribute antenna or cable TV to every room of the house. Some models include bi-directional amplifiers for interactive cable systems. Some models include modulator inputs and IR engines.
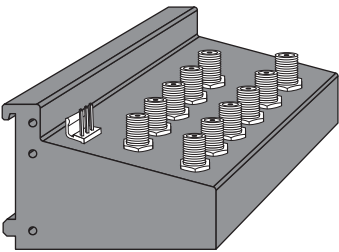
AV modulators (for service center)

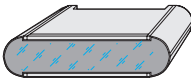Create a new TV channel for a front door camera. Some models feature Cat-5 input connections.

AV modulators (for media center)

Create new TV channels for DVD, VCR, or a satellite receiver. These modulators sit in the media center. Some offer true MTS stereo.

IR Accessories

Control video devices from any room.

New ChannelPlus products are added all the time. Visit our website to learn more: www.openhousesystem.com

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ChannelPlus Data Module Model H628/H629

OPEN HOUSE™

multiplex® technology, inc.

3001 Enterprise Street, Brea, CA 92821-6213, U.S.A.
714-996-4100 ∗ 800-999-5225 ∗ FAX 714-996-4900 ∗ www.openhousesystems.com

Warranty

Multiplex Technology, Inc. warrants this product to be free from defects in materials and workmanship for a period of one year from the date of purchase or MTI will repair, or at its option, replace the defective product. To obtain warranty service, call MTI for a return material authorization (RMA) number and return the product prepaid to Multiplex Technology, Inc., 3001 Enterprise Street, Brea, CA 92821, Attention: Customer Service. Please put the RMA number on the outside of the carton.

Any implied warranty arising from the sale of the product including implied warranties of merchantability and fitness for purpose are limited to the warranty stated above. MTI shall not be responsible for losses or damages or expenses, whether direct, consequential or incidental arising from the use of or the inability to use this product. Some states do not allow limitations on how long the implied warranty lasts or the exclusion or limitation or incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which may vary from state to state.

Wiring a house for OpenHouse

The cables in an OpenHouse run from the various rooms of the house directly to the service center location. (This is known as 'home run' wiring.) Two types of wire are used for communication and entertainment: Cat-5, 4-UTP (4 Unshielded Twisted Pairs) wire handles data or 1 to 4 telephone lines. RG-6 coax handles television (antenna or cable), satellite dish, cable modem, or AV modulator signals. (An AV modulator creates new TV channels for front door camera, DVD player, a VCR or a satellite receiver.)

We recommend the following pre-wire schemes . Run these wires from the service center to the rooms indicated.

	Typical Room	Media Center	Home Office
Good	1 Cat-5 / 1 RG-6	1 Cat-5 / 3 RG-6	1 Cat-5 / 2 RG-6
Better	2 Cat-5 / 1 RG-6	2 Cat-5 / 3 RG-6	2 Cat-5 / 2 RG-6
Best	2 Cat-5 / 2 RG-6	3 Cat-5 / 3 RG-6	3 Cat-5 / 3 RG-6

Good ...
Typical room - phone, TV
Media center - phone, satellite receiver, AV modulators
Home office - phone, TV, cable modem
Better ...
Typical room - phone, TV, ethernet
Media center - phone, TV, ethernet, satellite receiver, AV modulators
Home office - phone, TV, ethernet, cable modem
Best ...
Typical room - phone, TV, ethernet, satellite receiver
Media center - phone, TV, ethernet, satellite receiver, AV modulators, hi-speed data
Home office - phone, TV, ethernet, satellite receiver, cable modem, hi-speed data