

# Appendices: Custom-made cables

## Appendix I : Ethernet Cable

### How to Select and Wire Ethernet Cable for TAIDEN New Generation System

CAT5e Ethernet cable with a drain wire connected to shielded RJ45 crimp connectors is required for setting up TAIDEN New Generation System. Audio and control signal, and other data are all transmitted over CAT5e cables. No attenuation in signal quality and amplitude, can avoid ground noise and possible interferences from other devices, providing improved system reliability. Users can also lay cables beforehand, enjoying greater convenience and flexibility.

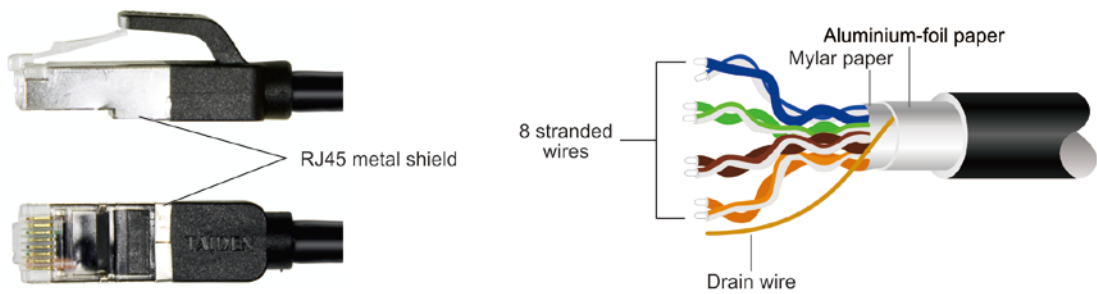
#### 1. CAT5e Ethernet cable is applicable for:

HCS-8358 series multimedia terminal	HCS-8369 series multimedia terminal	HCS-8368 series multimedia terminal
HCS-8668 series multimedia terminal	HCS-8665 series multimedia terminal	HCS-8638 series multimedia terminal
HCS-8635 series multimedia terminal	HCS-4800 series flush-mounting unit	HCS-1082N series electronic nameplate

Education products with RJ45 connector

The standard cable for HCS-4800 series tabletop conference units is composed of CAT5e Ethernet cable with a drain wire connected to 8PIN DIN connectors. In case Ethernet cables are already laid, 8PIN DIN to RJ45 cables can be used as converters.

#### 2. Materials needed for wiring CAT5e Ethernet cable:



Shielded RJ45 crimp connector

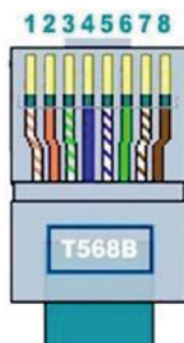
CAT5e cables as shown above, with a drain wire between aluminium-foil paper and mylar paper

#### 3. How to wire CAT5e Ethernet cable:

Arrange the colored wires according to T568A and T568B standards.  
 RJ45 pinout wiring order: Clip is pointed away from you. The order from left to right is shown below:



Wiring order (1-8) according to T568A standard:  
 white-green, green, white-orange, blue,  
 white-blue, orange, white-brown, brown



Wiring order (1-8) according to T568B standard:  
 white-orange, orange, white-green, blue,  
 white-blue, green, white-brown, brown

Ethernet Cable used for TAIDEN New Generation System should be straight through, with both ends using the same wiring standard (T568B is commonly used).

Please connect the drain wire to the metal shield of the RJ45 connector.