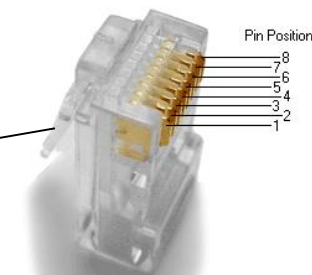
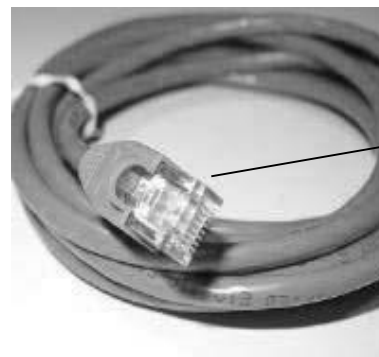
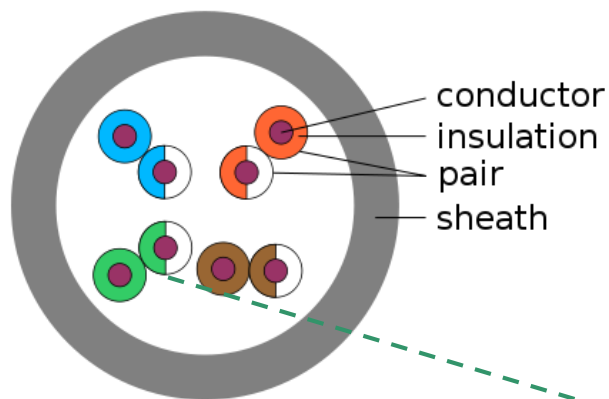


接线实验

非屏蔽双绞线 (Unshielded Twisted Pair)

UTP



RJ-45

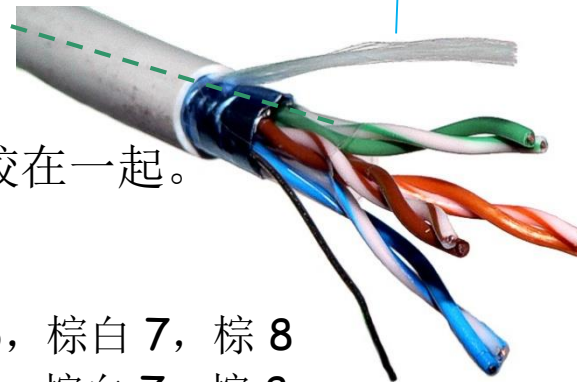
尼龙线

➤四对线: 绿 绿白, 橙 橙白, 蓝 蓝白, 棕棕白

➤每对线先逆时针绞在一起, 然后所有线对再逆时针绞在一起。

➤标准**568A**: 绿白 1, 绿 2, 橙白 3, 蓝 4, 蓝白 5, 橙 6, 棕白 7, 棕 8

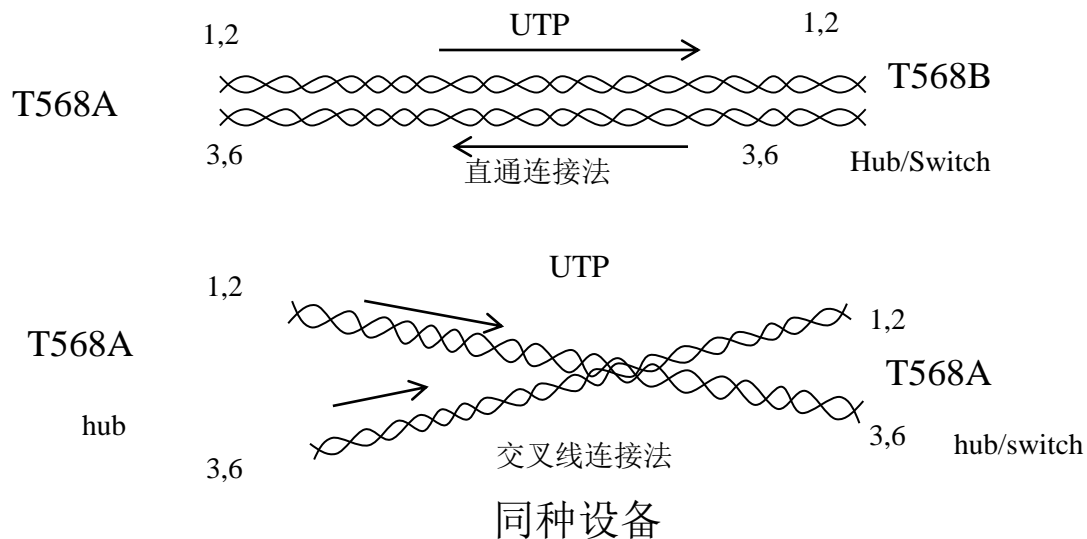
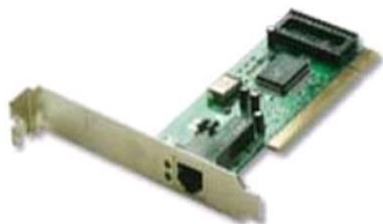
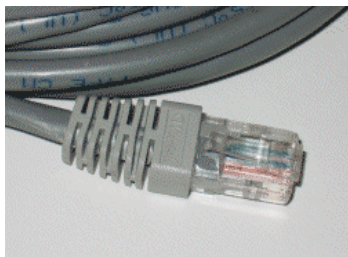
➤标准**568B**: 橙白 1, 橙 2, 绿白 3, 蓝 4, 蓝白 5, 绿 6, 棕白 7, 棕 8



UTP Categories

UTP Category	Max Speed Rating	Description
1	—	Used for telephones, and not for data
2	4 Mbps	Originally intended to support Token Ring over UTP
3	10 Mbps	Can be used for telephones as well; popular option for Ethernet in years past, if Cat 3 cabling for phones was already in place
4	16 Mbps	Intended for the fast Token Ring speed option
5	1 Gbps	Very popular for cabling to the desktop
5e	1 Gbps	Added mainly for the support of copper cabling for Gigabit Ethernet
6	1 Gbps+	Intended as a replacement for Cat 5e, with capabilities to support multigigabit speeds

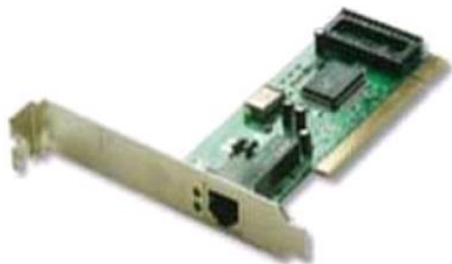
以太网(802.3)的物理层(3)



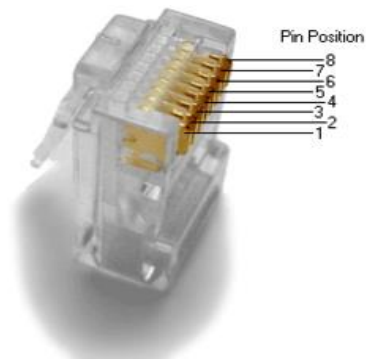
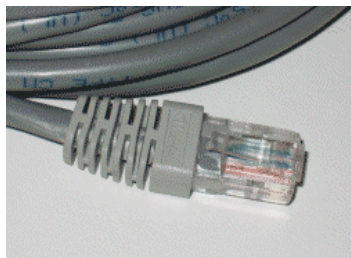
T568A: 1(TD+),2(TD-),3(RD+),6(RD-)

T568B: 1(RD+),2(RD-),3(TD+),6(TD-)

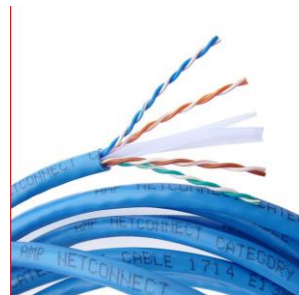
电脑和电脑之间用什么线连?



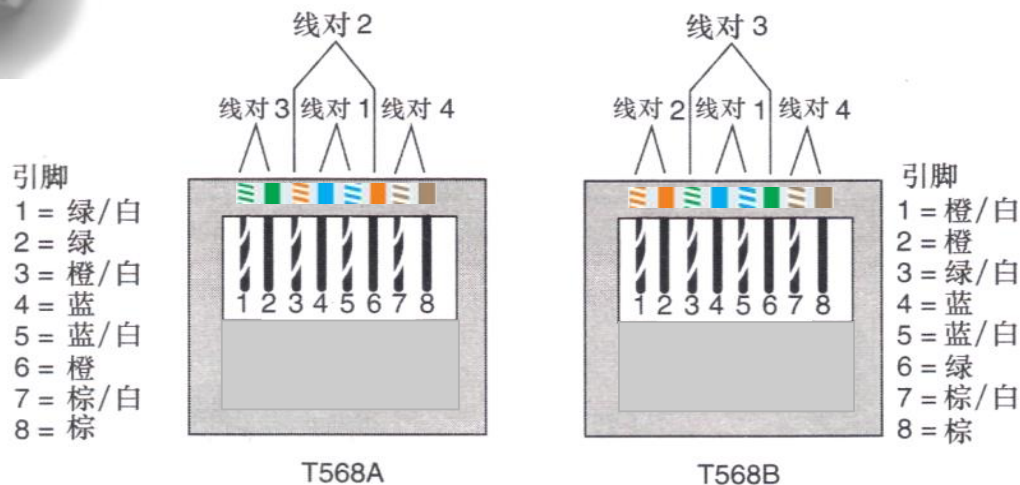
绿灯表示已接通
红灯闪表示正在传输数据



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cat5e, cat6



TIA/EIA-T568-A 和 TIA/EIA-T568-B 引脚线

T568A: 1(TD+),2(TD-),3(RD+),6(RD-)

T568B: 1(RD+),2(RD-),3(TD+),6(TD-)



模块

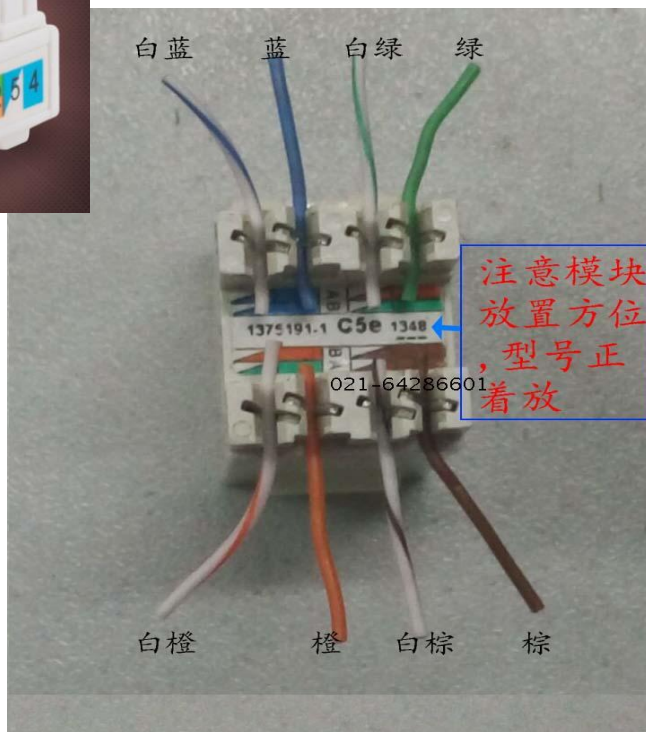


网线接线方法





模块

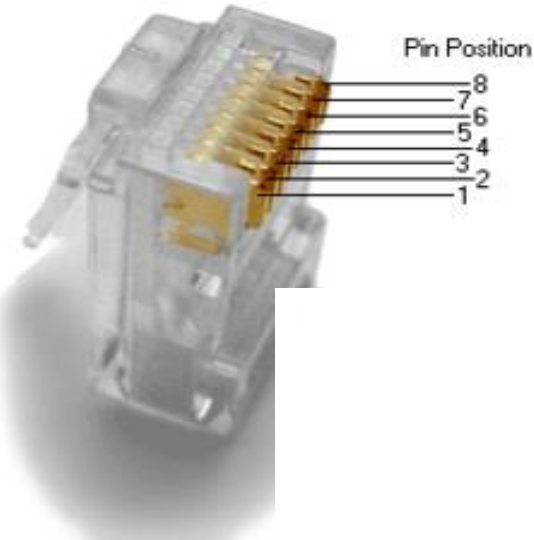


高品质超六类网络直通头

网线无损对接
不要让小配件影响你的网速

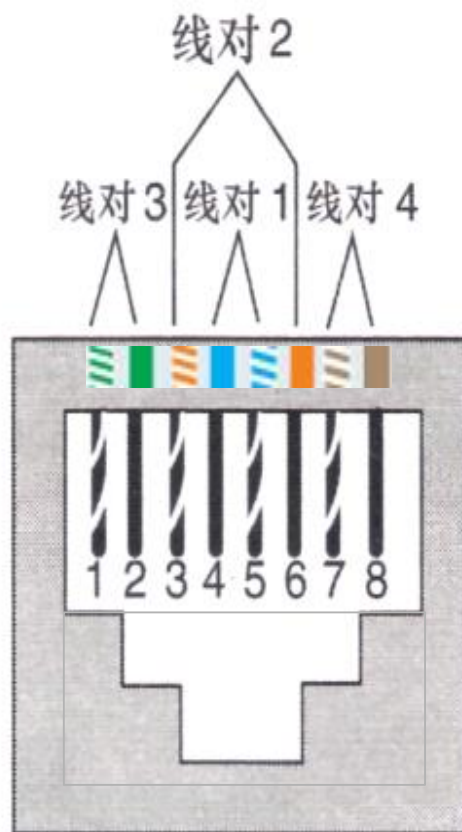


网线接续方法
或者直接用模块接续

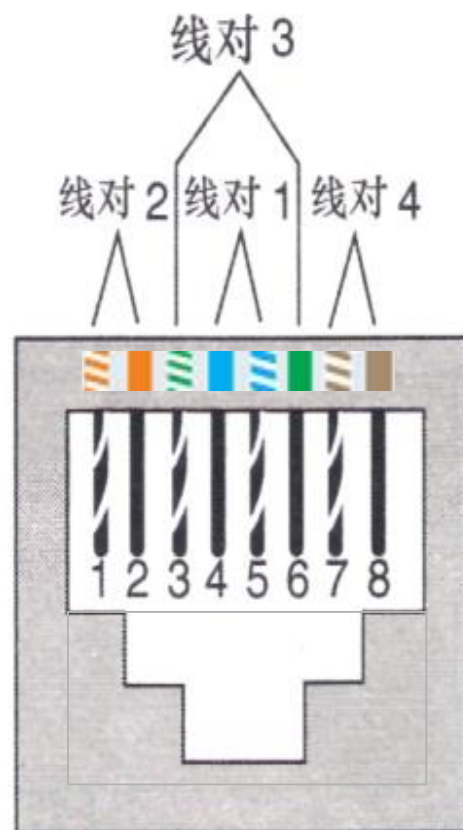


引脚

1 = 绿/白
2 = 绿
3 = 橙/白
4 = 蓝
5 = 蓝/白
6 = 橙
7 = 棕/白
8 = 棕



T568A



引脚

1 = 橙/白
2 = 橙
3 = 绿/白
4 = 蓝
5 = 蓝/白
6 = 绿
7 = 棕/白
8 = 棕

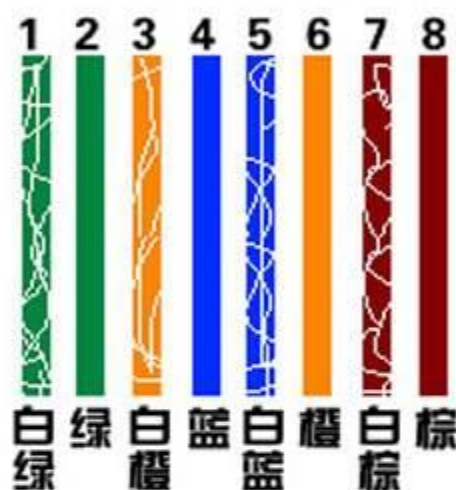
T568B

TIA/EIA-T568-A 和 TIA/EIA-T568-B 引脚线



交叉线接法分类:

计算机 \longleftrightarrow 计算机
 集线器 \longleftrightarrow 集线器
 交换机 \longleftrightarrow 交换机



一端: 从左至右
T568A



另一端: 从左至右
T568B