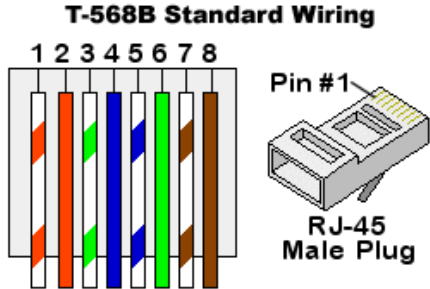**Value Tech Supply patch cables are made of 100% pure copper wire and 50 micron gold plated RJ45 plugs. We do not use CCA (aluminum wire). Why 50 micron gold plating?**
What is CCA?

* Designed For: Network Adapters, Hubs, Switches, Routers, DSL/Cable Modems, Patch Panels and other Computer Networking applications.*
Certification: TIA/EIA* T-568B standard wiring

T-568B Standard Wiring

1 2 3 4 5 6 7 8

Pin #1

RJ-45
Male Plug

* UTP (Unshielded Twist Pair)
* CM type PVC Jacket
* 24AWG 4pair stranded pure copper wire
* 50 micron gold plated short body RJ45 plug
* RoHS compliant

FAQ

TIA/EIA	TIA/EIA is abbreviation of Telecommunication Industry Association and Electronics Industry Alliance that sets telecommunication standards in the US. Value Tech Supply patch cable complies with the latest TIA/EIA telecommunication cable standards.
T-568B Wiring	There are two standards for wiring color code, 5???68A and 568B. While there's no difference in connectivity between 568A and 568B, 568B is the most prevalent wi ring color code in the US. Our patch cable is 568B wired.
UTP and STP	UTP is Unshielded Twisted Pair and STP is Shielded Twisted Pair. STP cable is wrapped in metal foil or braid. Both have the same Ethernet communication performance, but STP has better protection against Electro-Magnetis noise from outside. UTP is accepted for residential and general commercial installation.
CM rated jacket	CM for communication. It is set by UL (Underwriters labolatory) to indicate the wire jacket material safety. CM rating is safe to use in residential and general commercial installtions.
24AWG and Stranded	AWG (American Wire Gauge) indicates wire thickness. Higher the number, thinner the wire. 24AWG or 26AWG is commonly used for ethernet cables. Stranded wire is a bundle of thin wires as oposed to solid wire that is single solid wire. Stranded wire is more flexible than solid wire and commonly used for indoor network wiring such as patch cable.
RoHS	Restriction of Hazardous Substances Directive. This directive restricts the use of hazardous materials such as lead or mercury in the manufacture of electronic and electrical equipments. Value Tech Supply cables are all RoHS compliant.