Connecting RJ 45 connector to CAT 6 Cable

CAT 6 Connector



The CAT 6 wires are offset as they are inserted because the CAT 6 cables are thinker than the previous CAT 5e. CAT 6 supports 1 gig data rates

CAT 5e AWG 24-26

Notice lip

Manage Tool or Liner Device

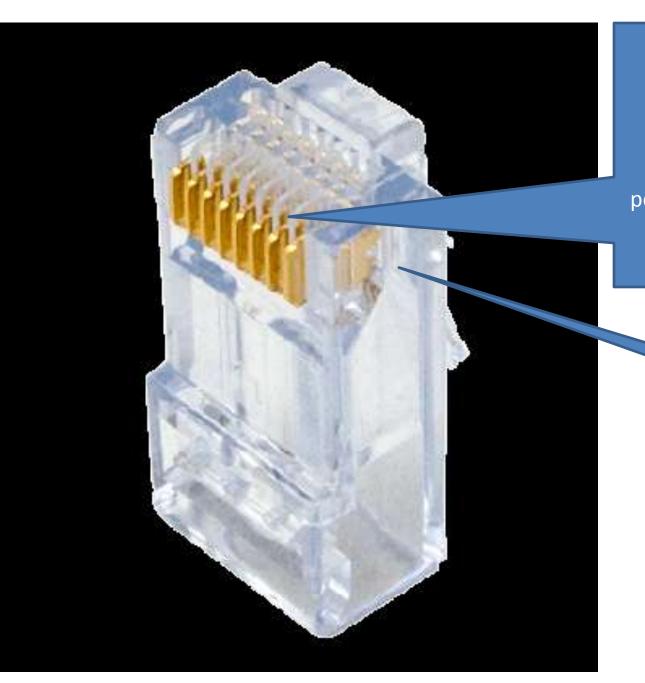
Called many things

Cat 5e vs CAT 6 RJ45

Easy way to tell the difference between a Cat5e and Cat6 Patch Cable







Note: Medal connectors are protruding. When crimped they will penetrate the copper CAT 6 cable lines

Prongs

Grn / Wh Blu / Wh Green Brown Orange Org / Wh

Color code and order

Prongs that cut through shielding and connect RJ45 to CAT 6

Identifying Stranded VS. Solid RJ45s:





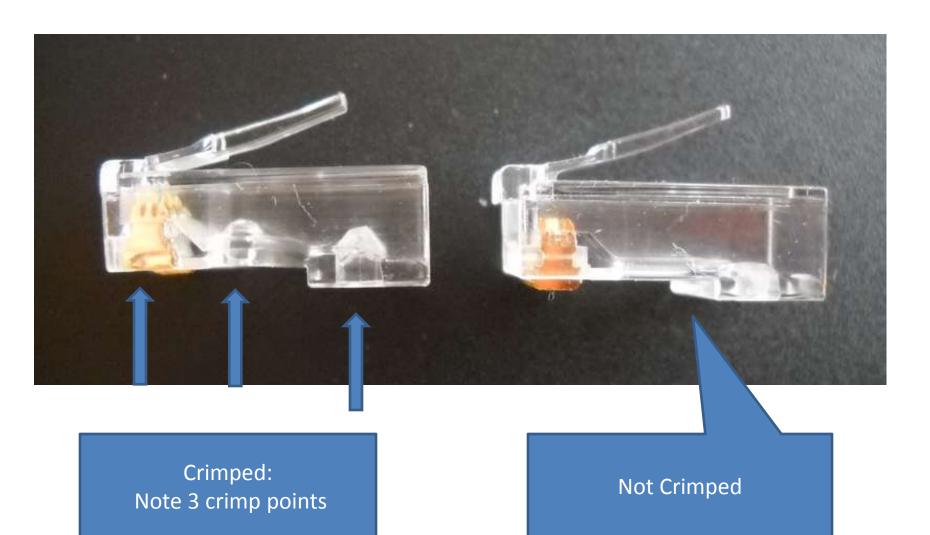
If purchasing connectors be sure they match the type of cable you are using: Solid or Stranded.

cableorganizer.com

https://www.youtube.com/watch?v=5 m-0w3gar_I

- 1,2,3 piece connector.
- The connectors we will use are 2 piece
- The one in the video uses a 3 piece
 - For our purposes ignore the separator (3rd piece)

Crimp



 http://iglobephils.com/phpBB/viewtopic.php?t=113

1 Gig Hz

- Input Frequency = 250 MHz
- Each pair of 2 bits represents 4 bits
 - -00, 01, 10, 11
 - Effectively 250 X 2 = 500
- Previous versions of Ethernet used only 2 of the 4 pairs.
- CAT 6 systems (hardware) use all 4 pairs
 - -500 X 2 = 1Gig Hz.

Twisted Pair

- Twisted Pair Info
- Ethernet Standards
 - http://www.belden.com/images/B29 Chart.jpg