

PENGANTAR Jaringan Komputer

Pertemuan ke-4



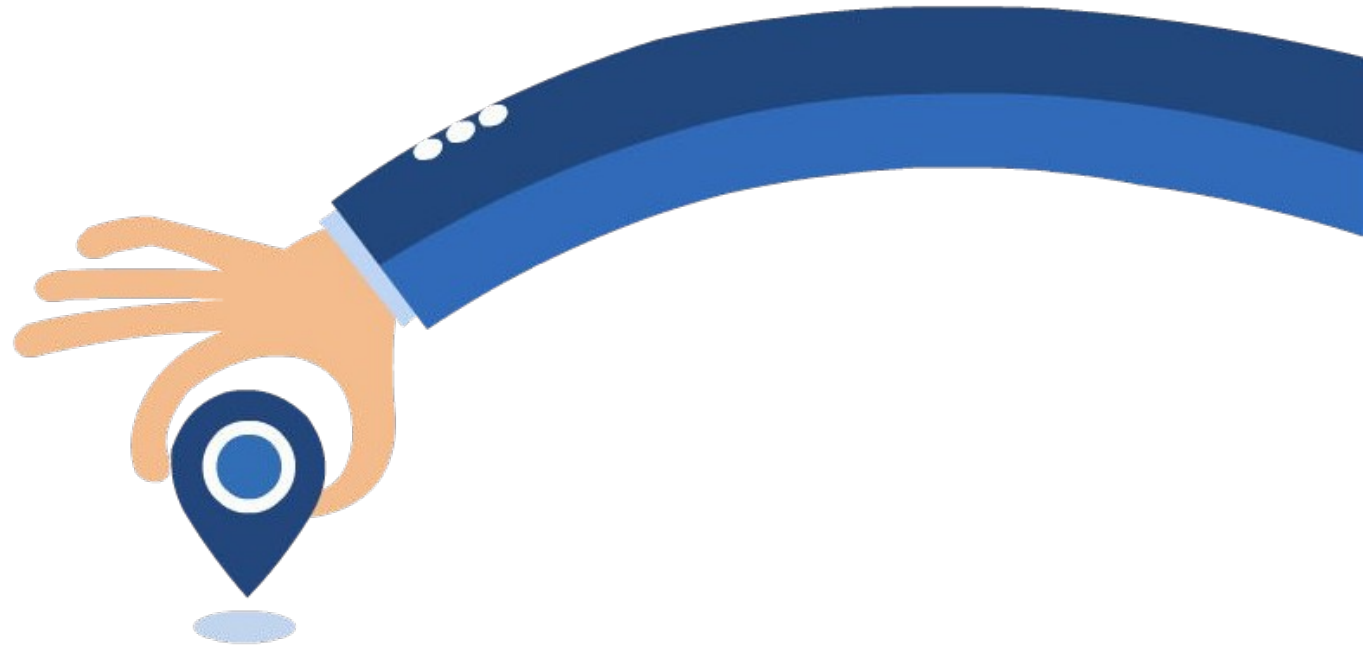
Pesantren Teknologi Informasi dan Komunikasi

Jln. Mandor Basar No. 54 RT 01/RW 01 Rangkapanjaya,
Pancoran Mas, Depok 16435 | Telp. (021) 77 88 66 91

Koordinat (-6.386680 S, 106.777305 E)

www.petik.or.id





Jalan Mandor Basar Nomor 54,
RT. 01/001, Rangkapanjaya,
Pancoran Mas, Kota Depok 16435



www.petik.or.id



021 7788 6691



info@petik.or.id

السلام عليكم



Wahyu Januar A



0838-1934-7140



wahyu.pyan88@gmail.com



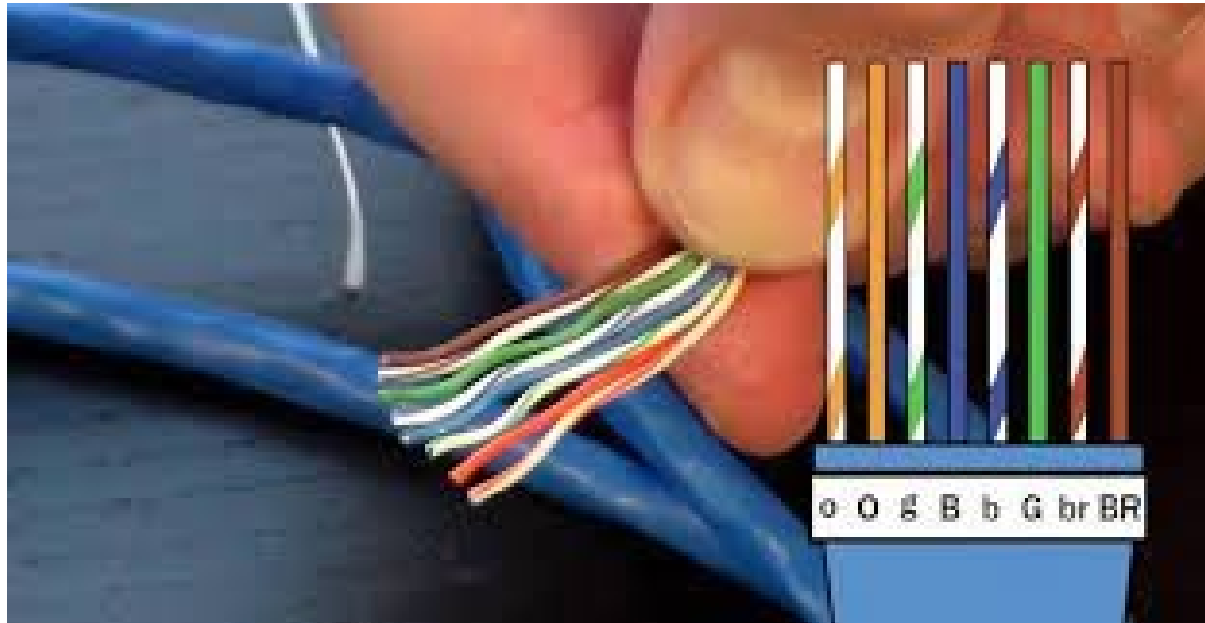
Wahyu Pyan



wahyu_pyan

Praktek Crimping Kabel Jaringan (UTP)

-



Tools atau alat

- Tang Crimping (crimping tools)
- Media Penghubung /Kabel UTP Cat 5e
- RJ 45
- LAN Tester

Crimping tools



Media Penghubung

- **Twisted Pair**

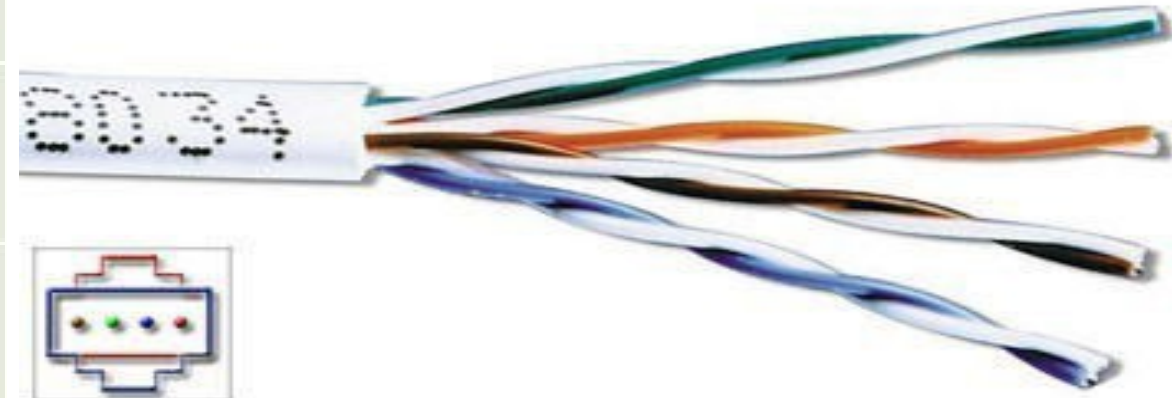
menggunakan konektor RJ-45,

Kecepatan maksimal transfer data

Shielded twisted pair (STP)



Unshielded twisted pair (UTP)



CAT 1	Standard phone line	CAT 2	Data speeds up to 4 Mbps (ISDN and T1 lines)
CAT 3	Data speeds up to 16 Mbps	CAT 4	Data speeds up to 20 Mbps
CAT 5	Data speeds up to 100 Mbps	CAT 5e	Data speeds up to 1 Gbps
CAT 6	Data speeds up to 10 Gbps		

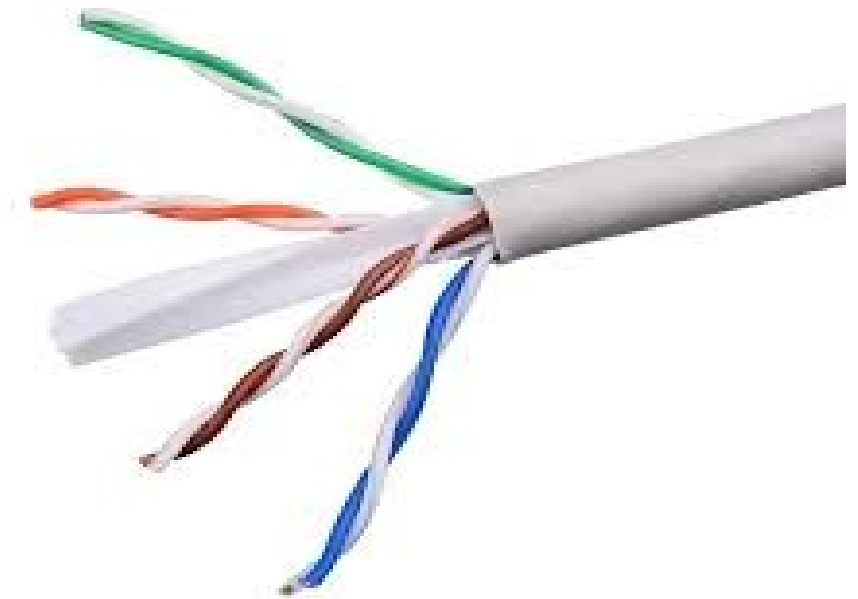
Media Penghubung

- **Twisted Pair**

menggunakan konektor RJ-45,

Kecepatan maksimal transfer data

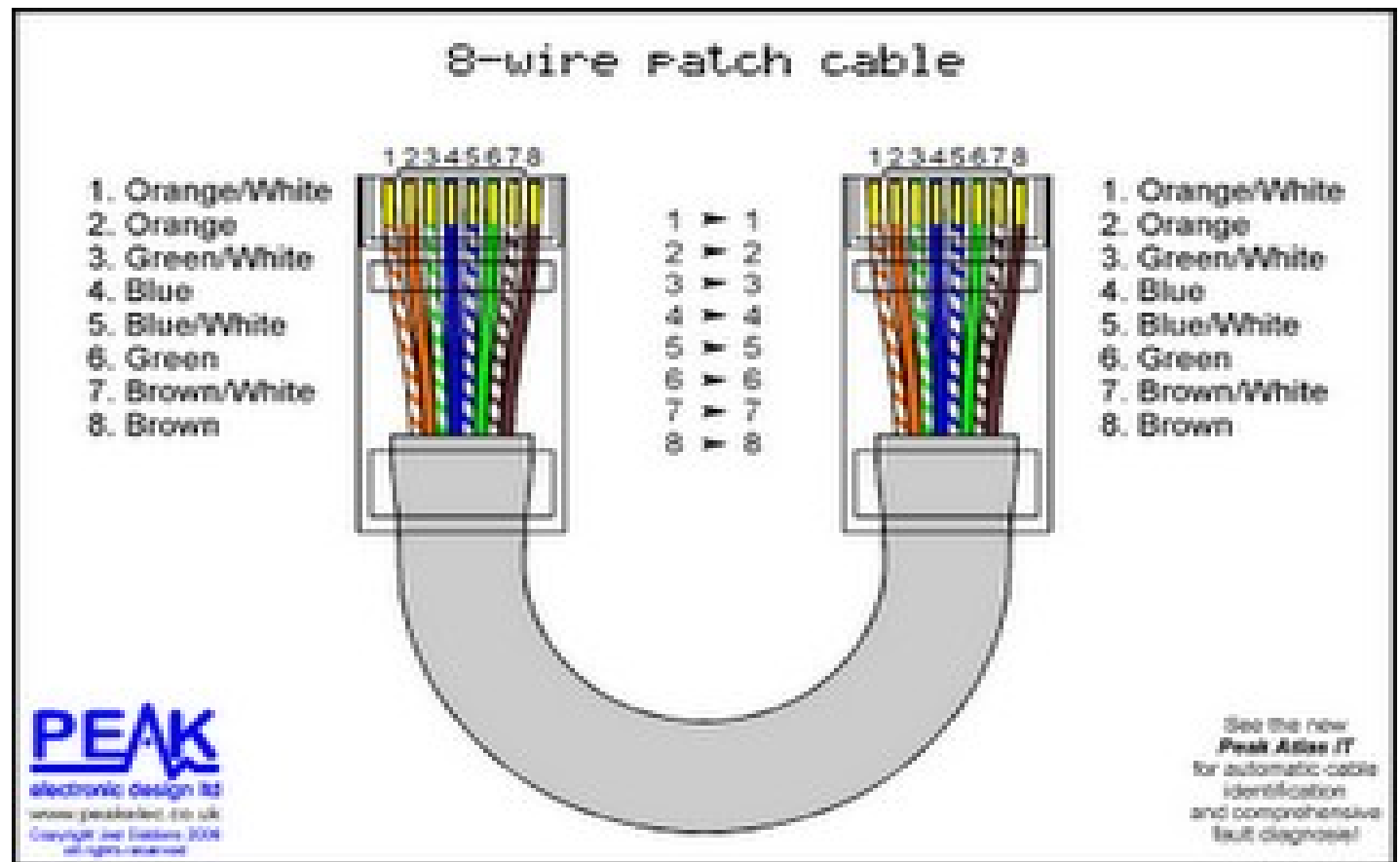
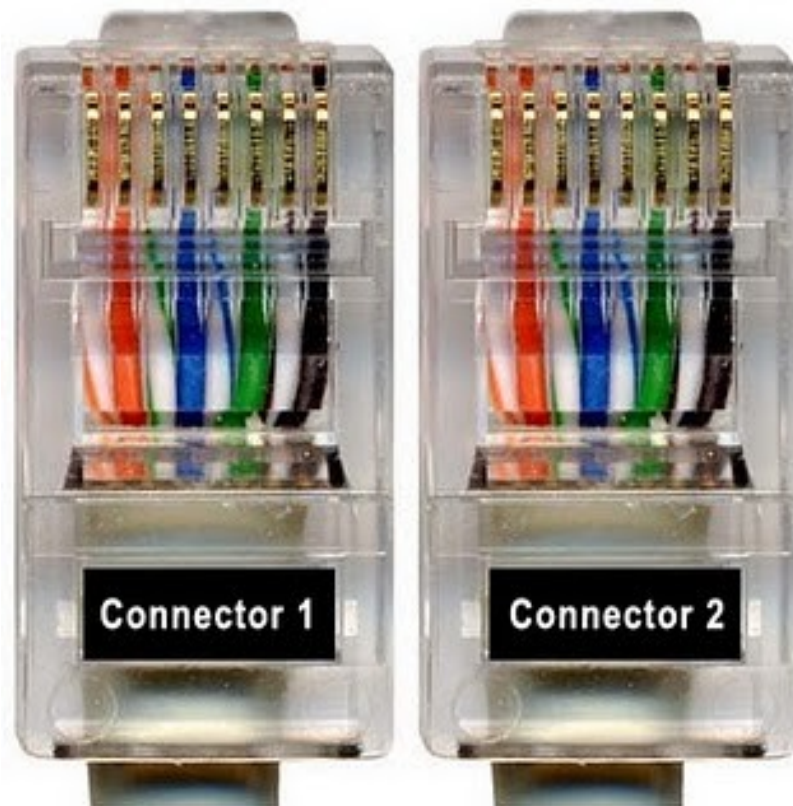
CAT 1	Standard phone line	CAT 2	Data speeds up to 4 Mbps (ISDN and T1 lines)
CAT 3	Data speeds up to 16 Mbps	CAT 4	Data speeds up to 20 Mbps
CAT 5	Data speeds up to 100 Mbps	CAT 5e	Data speeds up to 1 Gbps
CAT 6	Data speeds up to 10 Gbps		



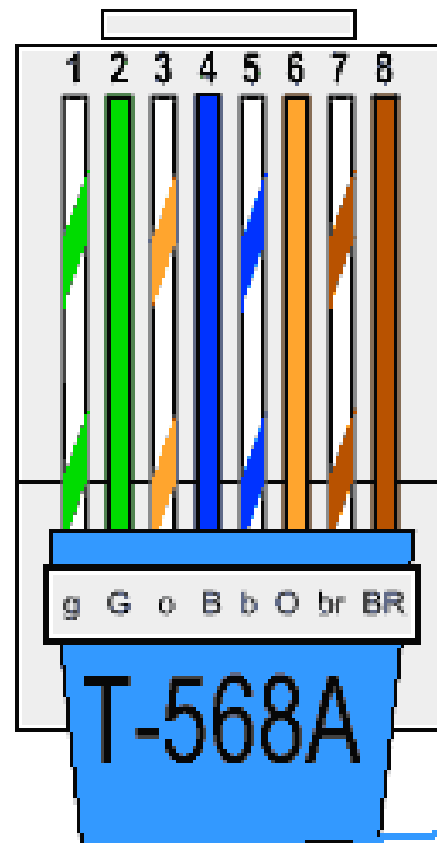
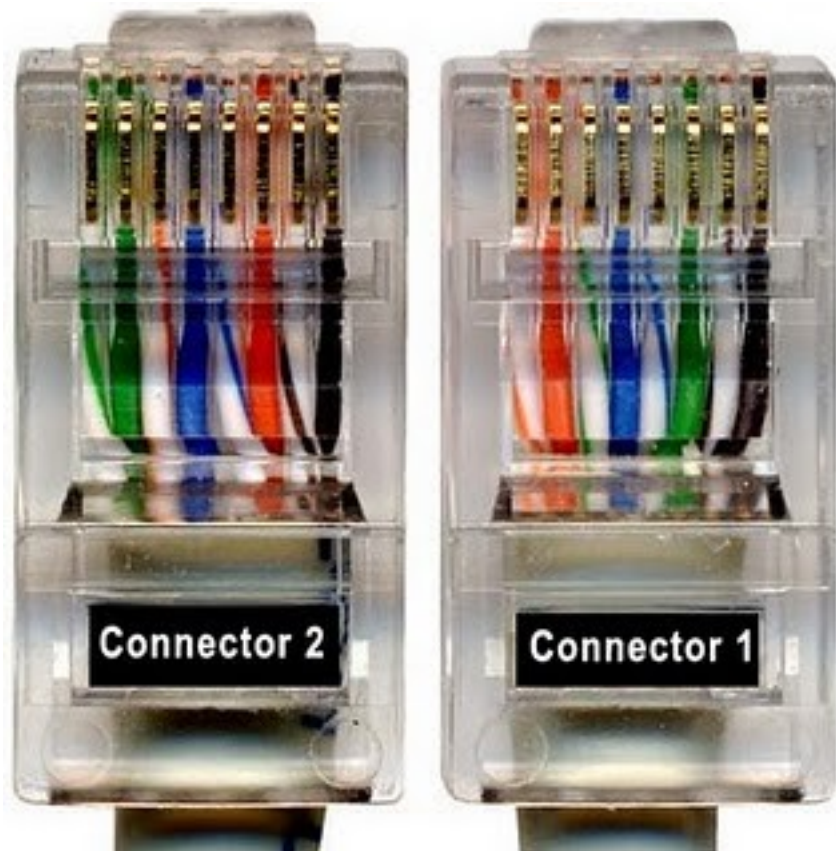
Pemasangan Kabel UTP

- Dua jenis pemasangan:
- Crossover Cable :
Digunakan untuk pemasangan device sejenis (pc-pc, hub-hub, switch-switch, pc-server, pc-router, hub-switch)
- Straightthrough Cable :
Digunakan untuk pemasangan device yang tidak sejenis (pc-switch, router-switch, hub-server)

Straigh Cable



Cross Cable

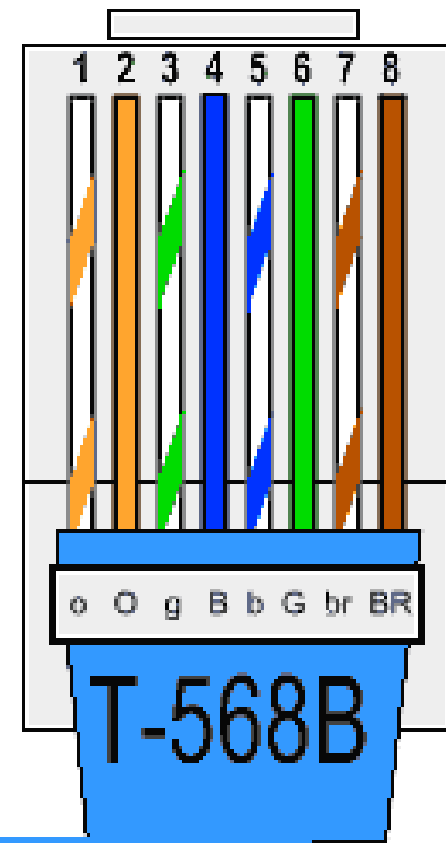


RJ-45 Plug

Pin 1

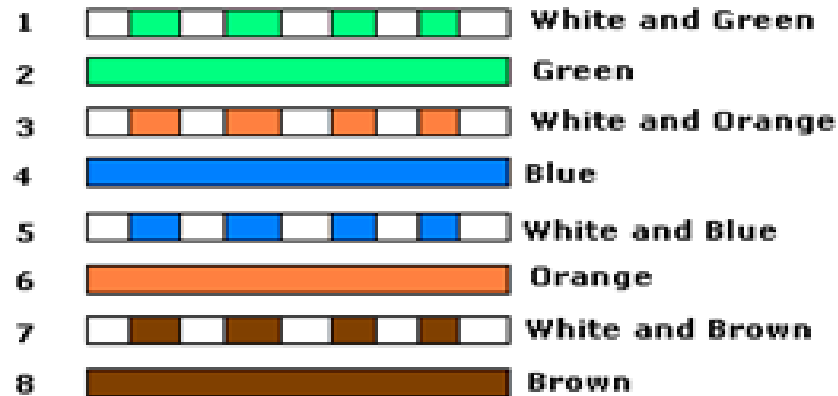


Clip is pointed away from you.

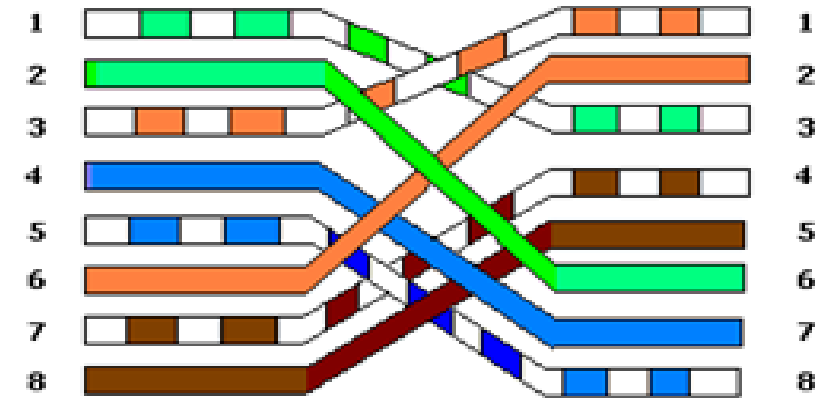


Pengkabelan UTP

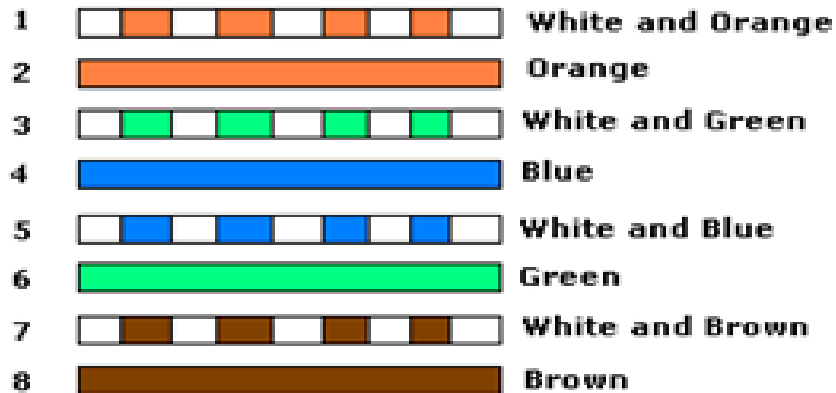
TIA/EIA 568A Wiring



TIA/EIA 568A Crossed Wiring



TIA/EIA 568B Wiring



TIA/EIA 568B Crossed Wiring

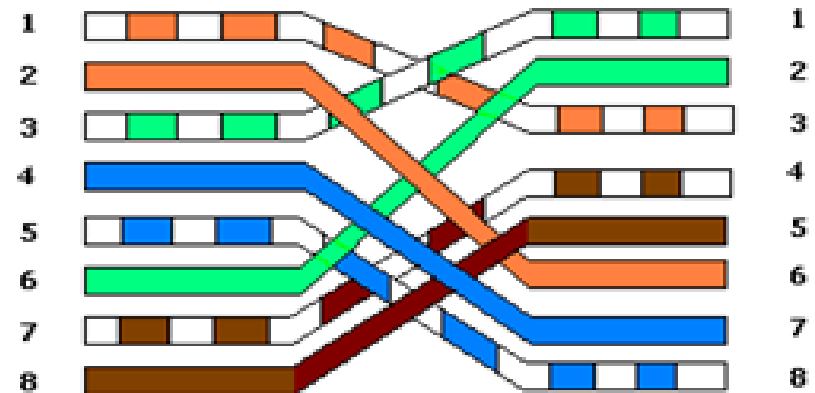


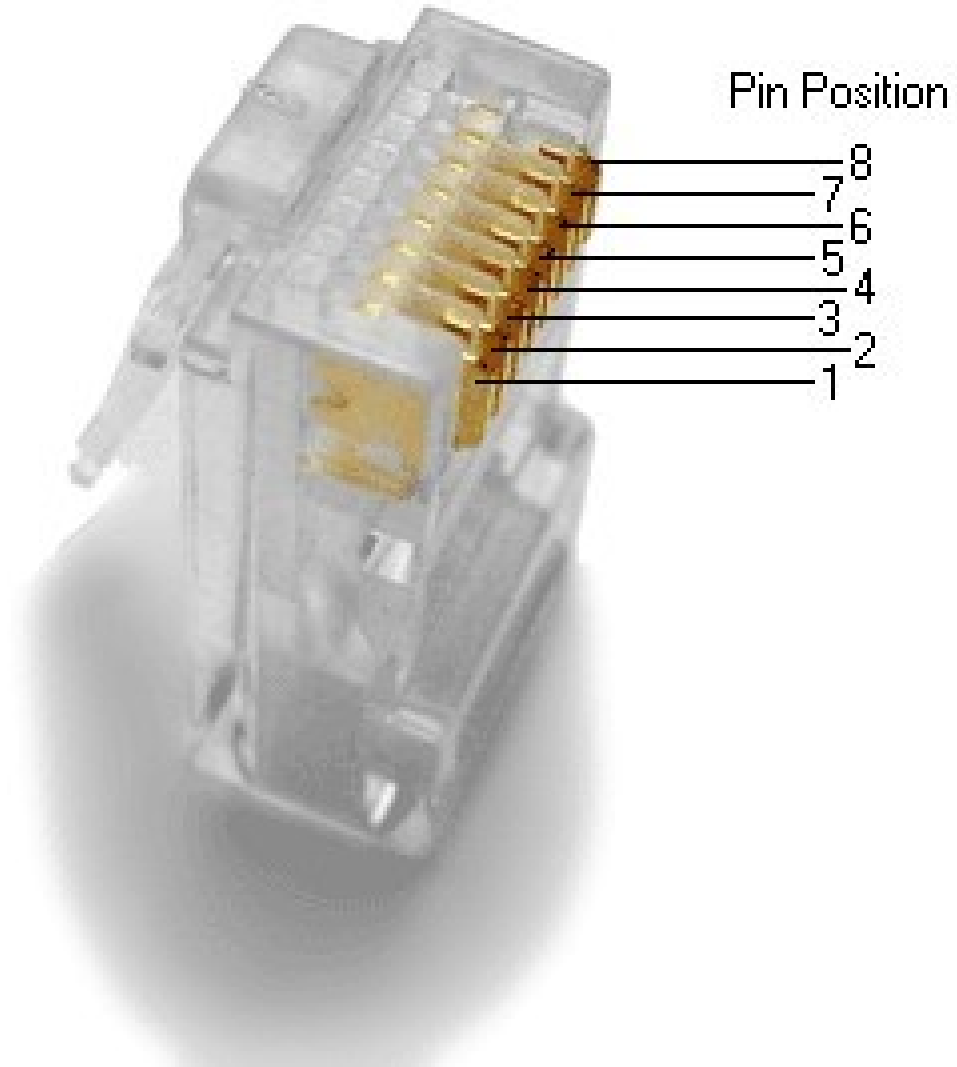
Figure A

Shows the Pin Out of Straight through Cables

Figure B

Shows the Pin Out of Crossover Cables

RJ 45



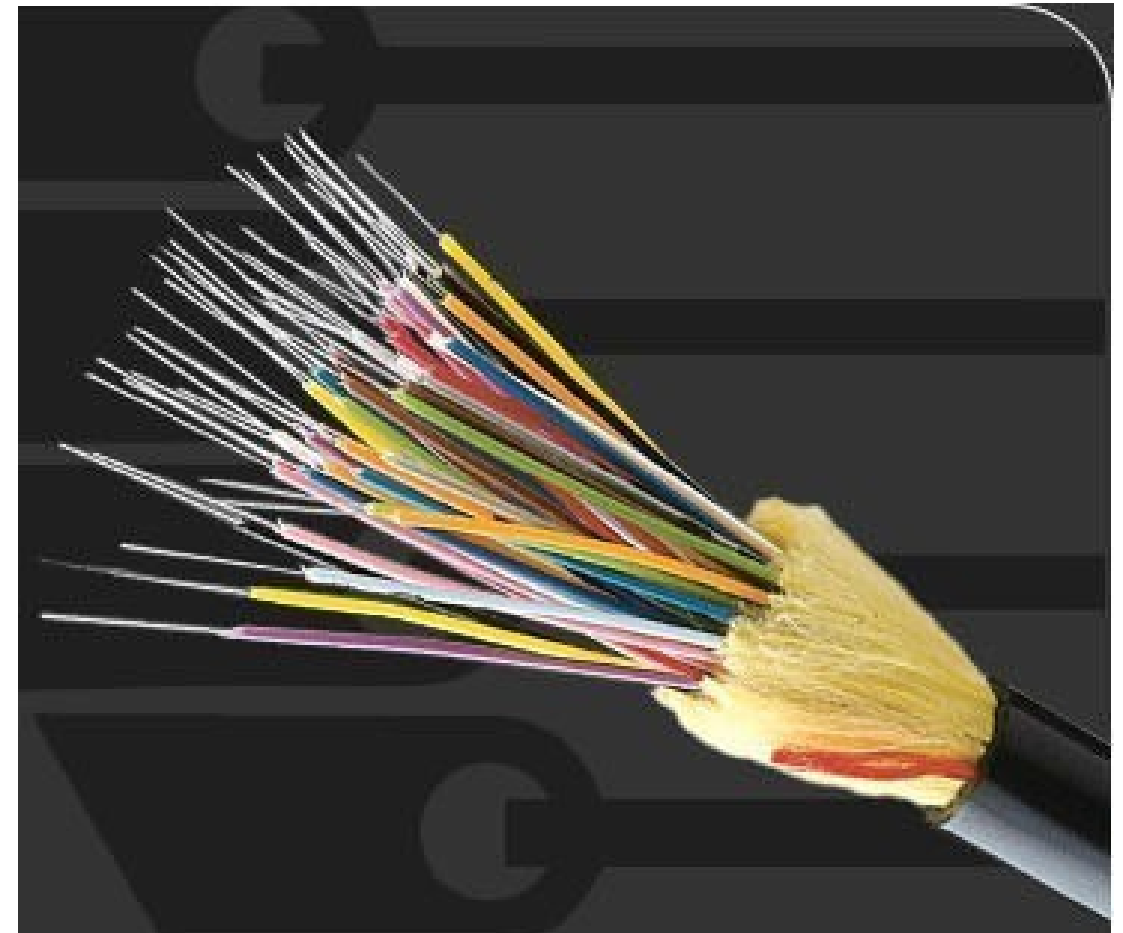
Tester LAN



Media Penghubung

Fiber Optic Cable

- Cahaya yg dibangkitkan oleh LED (light-emitting diode) atau laser dikirim melalui gelas tipis atau fiber plastik
- Mempunyai kapasitas yg sangat tinggi, ideal utk broadband
- Bekerja lebih baik dlm lingkungan yg 'berat'
- Ringan tidak berat;
- Lebih tahan thd korosi, api, dll.,





Jalan Mandor Basar Nomor 54, RT. 01/001,
Rangkapanjaya, Pancoran Mas, Kota Depok
16435



[www.petik.or.i](http://www.petik.or.id)

d



021 7788 6691



[info@petik.or.](mailto:info@petik.or.id)

id