Računarske mreže – treći razred

CrossOver kabl

CrossOver kabl

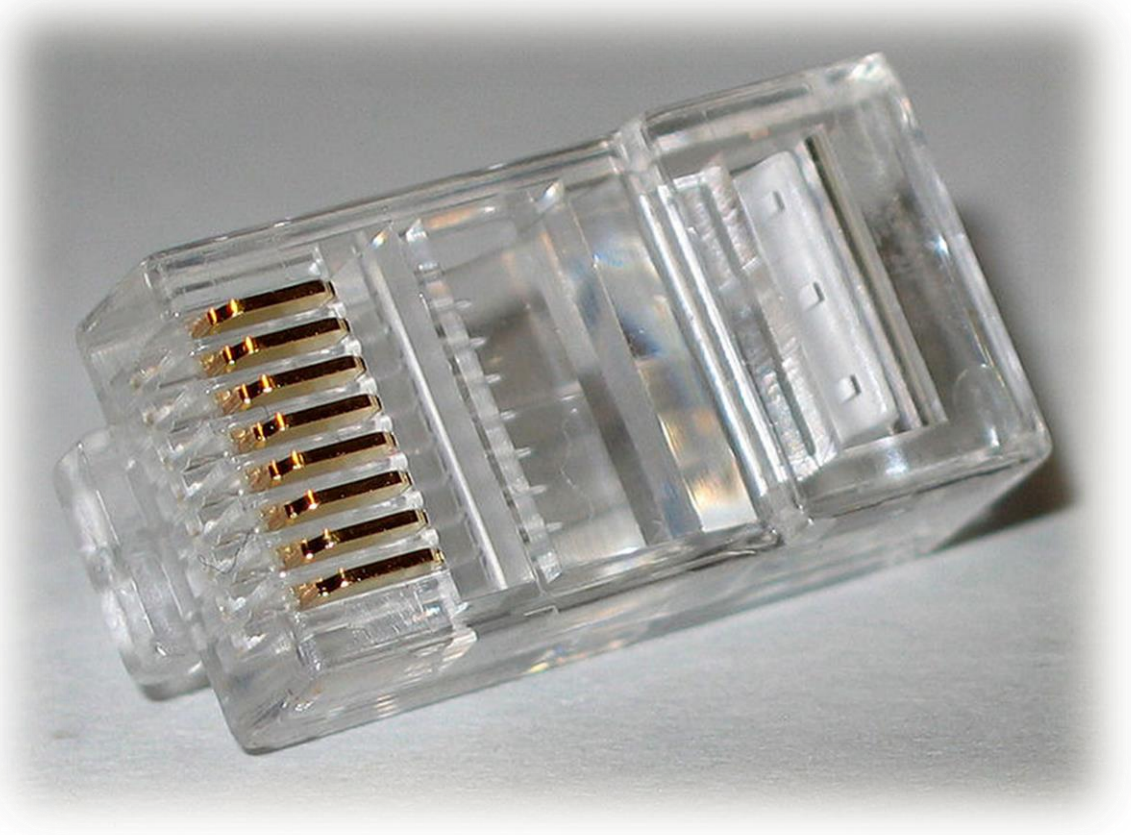
Osim streight mrežnih kablova postoji i crosover kabel koji se koristi za spajanja tipa:

- Računar na računar
- Switch na switch
- Hub na hub

Korisnici svakodnevno koriste crosover da spoje dva računara u mrežu a da izbegnu korišćenje Switch-a.

CrossOver kabl

Da bi napravili mrežni kabl potrebno je posedovati RJ-45 konektore:

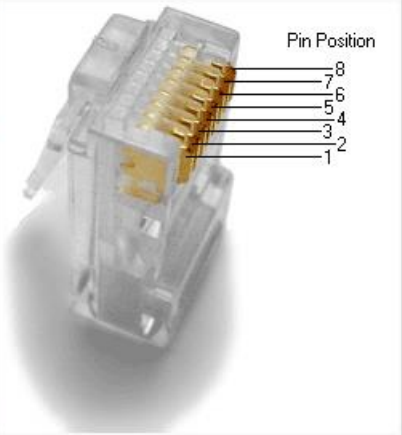


CrossOver kabl

Prikaz načina vezivanja CrossOver kablova po standardima:

Two pairs crossed, two pairs uncrossed
10BASE-T or 100BASE-TX crossover

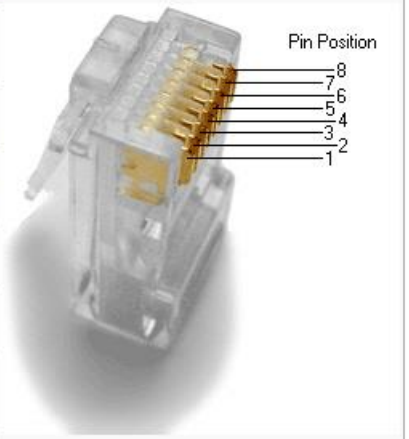
Pin	Connection 1: T568A			Connection 2: T568B			Pins on plug face
	signal	pair	color	signal	pair	color	
1	Bl_DA+	3	white/green stripe	Bl_DB+	2	white/orange stripe	
2	Bl_DA-	3	green solid	Bl_DB-	2	orange solid	
3	Bl_DB+	2	white/orange stripe	Bl_DA+	3	white/green stripe	
4		1	blue solid		1	blue solid	
5		1	white/blue stripe		1	white/blue stripe	
6	Bl_DB-	2	orange solid	Bl_DA-	3	green solid	
7		4	white/brown stripe		4	white/brown stripe	
8		4	brown solid		4	brown solid	



CrossOver kabl

Prikaz načina vezivanja CrossOver kablova po standardima:

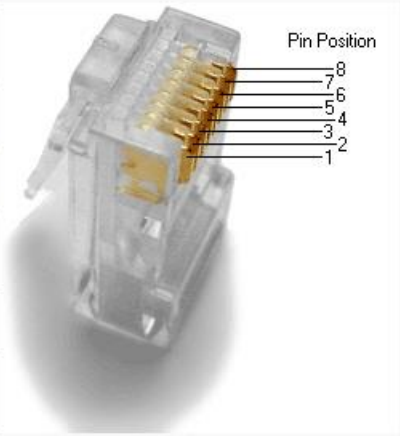
All four pairs crossed
10BASE-T, 100BASE-TX, 100BASE-T4 or 1000BASE-T crossover (shown as T568A)

Pin	Connection 1: T568A			Connection 2: T568A Crossed			Pins on plug face
	signal	pair	color	signal	pair	color	
1	Bl_DA+	3	white/green stripe	Bl_DB+	2	white/orange stripe	
2	Bl_DA-	3	green solid	Bl_DB-	2	orange solid	
3	Bl_DB+	2	white/orange stripe	Bl_DA+	3	white/green stripe	
4	Bl_DC+	1	blue solid	Bl_DD+	4	white/brown stripe	
5	Bl_DC-	1	white/blue stripe	Bl_DD-	4	brown solid	
6	Bl_DB-	2	orange solid	Bl_DA-	3	green solid	
7	Bl_DD+	4	white/brown stripe	Bl_DC+	1	blue solid	
8	Bl_DD-	4	brown solid	Bl_DC-	1	white/blue stripe	

CrossOver kabl

Prikaz načina vezivanja CrossOver kablova po standardima:

All four pairs crossed
10BASE-T, 100BASE-TX, 100BASE-T4 or 1000BASE-T crossover (shown as T568B)

Pin	Connection 1: T568B			Connection 2: T568B Crossed			Pins on plug face
	signal	pair	color	signal	pair	color	
1	Bl_DA+	2	white/orange stripe	Bl_DB+	3	white/green stripe	
2	Bl_DA-	2	orange solid	Bl_DB-	3	green solid	
3	Bl_DB+	3	white/green stripe	Bl_DA+	2	white/orange stripe	
4	Bl_DC+	1	blue solid	Bl_DD+	4	white/brown stripe	
5	Bl_DC-	1	white/blue stripe	Bl_DD-	4	brown solid	
6	Bl_DB-	3	green solid	Bl_DA-	2	orange solid	
7	Bl_DD+	4	white/brown stripe	Bl_DC+	1	blue solid	
8	Bl_DD-	4	brown solid	Bl_DC-	1	white/blue stripe	

Više detalja na:

http://en.wikipedia.org/wiki/Ethernet_crossover_cable

CrossOver kabl

Video prikaz realizacije mrežnog kabla

Napomena:

Na snimku je prikazana realizacija „običnog“ mrežnog kabla a ne crossOver. Tehnika realizacije je identična, razlika je u rasporedu provodnika):

CrossOver kabl

Alat potreban za realizaciju mrežnih kablova i testiranje: