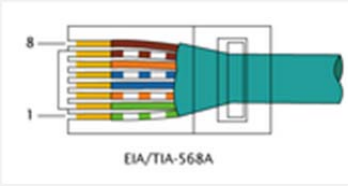
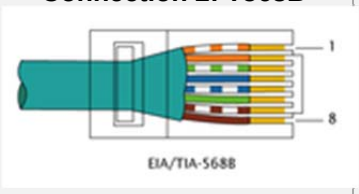
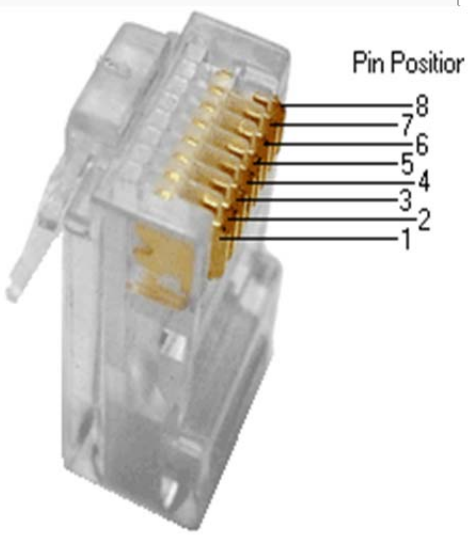
Ethernet Crossover Cable Usage

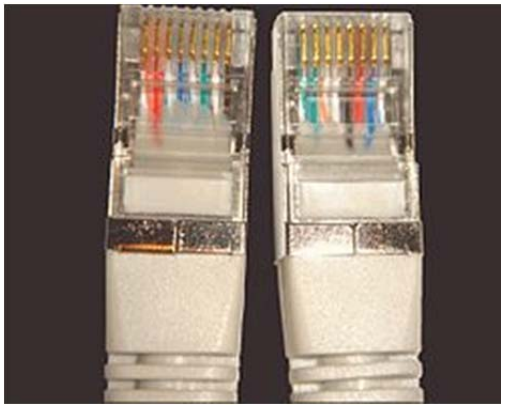
Most modern Ethernet ports are Auto MDIX. When connecting a DLI wired-Ethernet device to an Auto-MDIX port, a crossover cable isn't needed. If you can access a DLI power controller (see the web page for the product), you **don't** need a crossover cable.

If you are connecting to an older port, or a device such as a router or switch that doesn't support AutoMDIX, you may need a crossover cable.

The table below shows the wiring of a crossover cable. DLI products are 10/100BT so the pairs on pines 4+2 and 7+8 are unused. It doesn't matter how they're wired.

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	BI_DA+	3	white/green stripe	BI_DB+	2	white/orange stripe	
2	BI_DA-	3	green solid	BI_DB-	2	orange solid	
3	BI_DB+	2	white/orange stripe	BI_DA+	3	white/green stripe	
4		1	blue solid		1	blue solid	

5		1	white/blue stripe		1	white/blue stripe	
6	BI_DB-	2	orange solid	BI_DA-	3	green solid	
7		4	white/brown stripe		4	white/brown stripe	
8		4	brown solid		4	brown solid	

You can identify a crossover cable by looking at the connectors.