USB Connectors

All USB connectors must be overmoulded - rewireable connectors are not available, and if they were available they would not be approved, authorised or tested for us with USB. This makes it rather difficult to obtain short run custom length USB cables because the cost of setting up a moulding machine is excessive. Leads Direct can have longer runs (typically 1,000 pieces plus) made in the far east where a customer wants cables in a non-standard length.

There are two standard connectors, the A and the B. A third 'mini B' connector is used for small devices such as digital cameras, telephones, and MP3 players. The standard A and B plugs have four contacts, and the standard mini B has five.

Even though the system uses only four cores in the cable, there are also a number of 'non-standard' mini B connectors with up to 16 contacts which are proprietary and most often created and used by camera manufacturers such as Nikon, Olympus, etc.

USB Standard Pinout

Pin #	Pin Description	Colour	Function
1	+ 5v	Red	Power
2	Data -	Blue	Negative signal
3	Data +	Yellow	Positive signal
4	Ground	Brown	Ground

USB Mini / Micro Connector Pinout

Pin #	Pin Description	Colour	Function
1	+5V	Red	Power
2	Data-	White	Negative Signal
3	Data+	Green	Positive Signal
4	ID	None	Permits distinction between Micro A and Micro B connectors - A connected to ground, B not connected
5	Ground	Black	Signal Ground

USB Receptacle Shapes and Pin Locations

