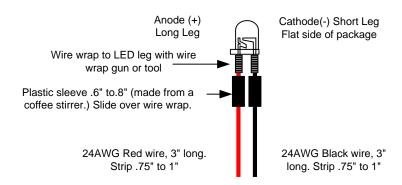


Ground Sync point to make a Master Circuit
To Sync to another circuit, take to pin you
desire to start the sequence on.
Sequence starts on a Low.

See page 2 for details.

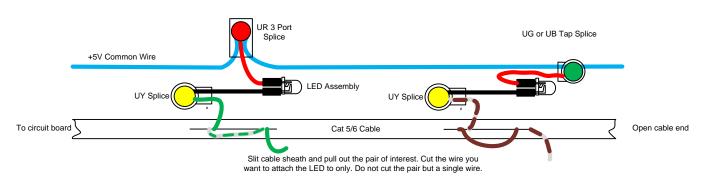
Dec 17, 2016 Dec 2, 2017 Dec 2, 2017	Revision/Addition/ Note Updated and redrawn from original 11/25/2001 Use Software Runways!2.hex KE5VDV (Son in law) had an idea for making n syncing them together somehow. Reworked s. Now using 16F76 processor and Runways!2.h. Added details on wiring and connecting LED's The PIC16F76 is being phased out and getting (\$4.60). After looking at newer PIC chips, have 16F722 and is running about \$1.50 this date. S pin compatible to the 16F76 and is in the list o for my new programmer. 16F722 works with software change. Runways Updated details on wiring and connecting LED Various splice details called out. Found the ca intermittent on the LED's, so added details on LED's DC and Sync now spaced for .2" terminal bloc boards can be used to interface to CAT 5 cable	nultiple runs and oftware to that end. ex software very expensive ordered 10, eems to be pin for available chips l5.hex. 's to cat 5 cables. use of my modifying wiring on ks. RJ45 Break out ess.	By: GSC GSC GSC GSC GSC GSC GSC GSC GSC	Anode (+) Cathode(-) Long Leg Short Leg Flat side of package	Print Check .5"x.5"
Docianod	erald Crenshaw WD4BIS	Date: Jan. 2, 20		From the bench of: Amateur Radio Station WD4BIS	Page 1
By: G	erald Crenshaw WD4BIS anet Crenshaw WB9ZPH	Date: Jan 2, 20 Date: Jan.2, 20		Title: Runway Lights	Scale:

Anode (+) Long Leg Butt splice, 22-26 AWG Red wire, 2" long Strip and Crimp Cathode(-) Short Leg Flat side of package Black wire, 2" long Strip and Crimp

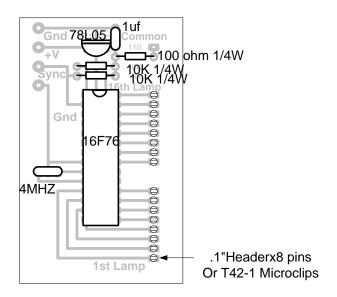


The square legs of the LED's do not connect well into an Insulation Displacement Connector (IDC) style splice. The IDC splices are meant for a round wire. Leaves you with an intermittent connection in time. This assembly removes that problem and color codes the legs. Round wires wrapped on to the square post of the LED make a solid connection as the square leg corners cuts into the wire 4 times per wrap.

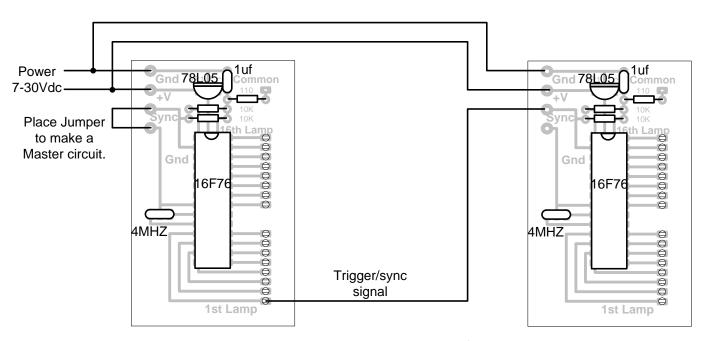
Examples of how to connect LEDS to multi-pair cables.



Date: Dec.4, 2016 Dec.12, 2016 Dec.2, 2017 Dec.2, 2017			By: GSC GSC GSC GSC	Anode (+) Long Leg	Cathode(-) Short Leg Flat side of package	UY (Yellow) 2 port splice UR (Red) 3 port splice UG (Green) 2 port tap splice UB (Blue) 2 port tap splice		Print Check .5"x.5"
Dy.	By: Gerald Crenshaw WD4BIS Dec 4, 20		16	From the bench of:		Page	2	
Designed Gerald Crenshaw WD4BIS Date: Dec 4		Dec 4, 20	16	Amateur Radio Station WD4BIS Title:		Station WD4BIS	Of Scal	le: None
Checked Janet Crenshaw WB9ZPH Date: Dec 4, 2		16	ritie:	LED As:	sy for Runway Lights	Scal	6. 140HE	



Master Slave



As shown, slave unit will trigger off of the 1st LED fired. Slave unit may take up to a minute to catch and see the trigger pulse. Patience!

Drawn By:	Gerald Crenshaw WD4BIS	Date: Jan. 2, 2007	From the bench of: Page Amateur Radio Station WD4BIS of	3		
Designed By:	Gerald Crenshaw WD4BIS	Date: Jan 2, 2007	Title: Scale:	끅		
Checked By:	Janet Crenshaw WB9ZPH	Date: Jan.2, 2007	Runway Lights. PWB Component Placement			

