



Recommended PCB Layout  
(Top View)

**NOTE:**

Kycon connectors containing LEDs must NOT be processed using Lead-Free Infra-Red reflow soldering using JEDEC-020C (or similar) profiles. Kycon suggests to process these components using Lead-Free WAVE soldering or Post Lead-Free IR reflow insertion methods only.

**Electrical Performance**

Category 5 100MHz Bandwidth Performance  
Performance meets near end crosstalk (NEXT)  
Requirements of -40dB @ 100MHz per  
EIA/TIA 568A in applications where UL  
Approved Category 5 cable (GA27-3773-1) is used  
Shielded types offer 20dB shielding from 30MHz to 300MHz

LED Schematics									
	Pin No.	Single Color (G, R, or Y)	Pin No.	Pin No.	Bi-Color (GR)	Pin No.	Pin No.	Bi-Color (GY)	Pin No.
LED 1	12	+	11	-	Green Red	12	11	Green Yellow	12
LED 2	10	+	9	-	Green Red	10	9	Green Yellow	10

LED Characteristics				
LED Color	Forward DC Current (units: mA)	Forward Voltage (units: V)	Reverse Voltage (units: V)	Power Dissipation (units: mW)
green	25	2.2 Typ. (2.5 Max.)	5	105
red	30	2.0 Typ. (2.5 Max.)	5	105
yellow	30	2.1 Typ. (2.5 Max.)	5	105

**Materials and Finish**

Housing: PBT Thermoplastic  
UL 94V-0 Rated  
Color: Black

Shield: Brass, Nickel Plated

Contact Material:  
Phosphor Bronze

Plating Options:  
Standard: Nickel Underplating,  
Gold Flash Plating on Contact Area,  
Tin Plated on Solder Area

50 Option: Nickel Underplating,  
Contact Area Plated with 50u" Gold  
to Comply with ANSI/TIA-1096-A,  
Tin Plated on Solder Area

**Electrical Characteristics**

Rated Current: 1.5A  
Rated Voltage: 125V DC  
Insulation Resistance:  
500 Megohms Min.  
Contact Resistance:  
20 milliohms Max.

**Mechanical Characteristics**

Durability Rating:  
500 Mating Cycles Min.  
Operating Temperature:  
-40°C to +85°C

**Part Number / Ordering Information**

Complete P/N Example:	GWL	G	-	S1	4	8	8	GR	/	Y	50
P/N Breakdown:	Series	Type	dash	Shield Type	No. of Ports	No. of Positions per Port	No. of Contacts per Port	LED 1 Color	slash	LED 2 Color	Contact Area Plating
Available Options:	GWL = right angle modular jack w/integrated LED's	G = ganged	dash	S1 = fully shielded w/top & side spring shield grounding tabs	4 = 4 ports	8 = 8 contact positions per port	8 = 8 contacts per port	G = green R = red Y = yellow GR = bi-color green/red GY = bi-color green/yellow	slash	G = green R = red Y = yellow GR = bi-color green/red GY = bi-color green/yellow	blank = standard 50 = 50u" option



Tolerances
X.X ± 0.38
X.XX ± 0.25
Unless Stated Otherwise

REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A3	07/13/06	Release Drawing	H. MA	N/A	R. Aguirre	07/06/05
A4	07/20/07	ECO #07-023	A. Frederick	H. MA		
A5	03/04/08	ECO #08-030	R. Aguirre	H. MA		
A6	05/13/10	ECO #10-025	S. Vien	H. MA		
A7	09/23/13	ECO #13-063	D. Gih	P. DalCanto	UNITS	mm
A8	07/28/15	ECO #15-001	H. MA	C. Furumasa		

**GWLGX-S1488x/x**  
x = LED color

Right Angle Thru-Hole Ganged Modular Jack w/ LEDs, RoHS Compliant

4 Port, Fully Shielded w/ Grounding Tabs

