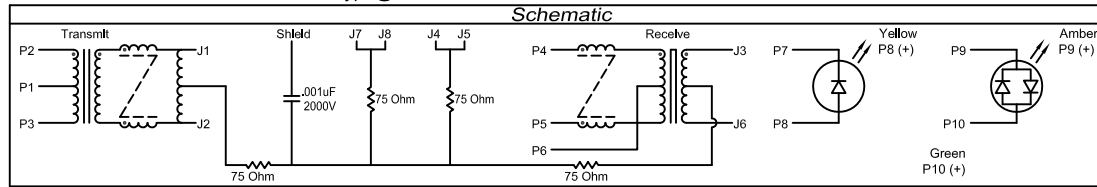


**Electrical Performance of 10/100 Base-T @ 25°C**

OCL (µH Min.)	Insertion Loss (dB Max.)	Return Loss (dB Min.)		CMRR (dB Min.)	CMD (dB Min.)	Turns Ratio (± 5 %)	Crosstalk (dB Min.)
		@ 30 MHz	@ 60 MHz				
@ 100 KHz, 100m Vrms 8 mA DC Bias	1-100 MHz	1-30 MHz	@ 60 MHz	@ 80 MHz	100 KHz-100 MHz	100 KHz-100 MHz	1-100 MHz
350	-1	-20	-17	-15	-30	-30	Xmit - Rcv 1CT:1/1CT:1CT -30

**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.

Isolation: 1500 Vrms LEDs: Vf=2.1V Typ. @ 20mA



**Material and Finish (USB)**

Body: PA66, glass filled  
UL94V-0 rated  
color: black

Shield: 0.25mm thick  
Copper alloy,  
Tin plated

**Mechanical Specifications (USB)**

Mating Force: 3.6kg Max.  
Unmating Force: 1.0kg Min.  
Durability Rating:  
1500 mating cycles min.

**Electrical Specifications (USB)**

Rated Voltage:  
30V AC (rms)  
Contact Current Rating:  
1A Max.  
Contact Resistance:  
30 milliohms Max.  
Insulation Resistance:  
1000 Megohms Min.  
Dielectric Withstanding Voltage:  
750V AC

**Material and Finish (GSP)**

Body: PA66, glass filled  
UL94V-0 rated  
color: black

Shield: 0.20mm thick  
Copper alloy,  
Nickel plated  
Tin plated solder tabs

Contact: Phosphor Bronze  
Nickel underplate on  
entire contact, tin  
on termination end,  
gold flash on contact  
area

**Electrical Performance (10/100 Base-T)**

Category 5 100MHz Bandwidth Performance  
Performance meets near end crosstalk (NEXT)  
Requirements of -35dB @ 100MHz per  
EIA/TIA 568A in applications where UL Approved  
Category 5 cable (GA27-3773-1) is used

**Electrical Specifications (RJ45)**

Insulation Resistance:  
500 Megohms Min.  
Dielectric Withstanding Voltage:  
1000 Volts RMS,  
for 1 minute  
Contact Resistance:  
20 milliohms Max.  
Contact Current Rating  
1.5 Amps  
Durability Rating:  
750 mating cycles min.



Tolerances
X.X ± 0.25
X.XX ± 0.15
Unless Stated Otherwise

REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A0	08/07/09	New Drawing	S. Vien	C. Kelleher		
A1	09/03/09	Release Drawing	C. Kelleher	N/A	S. Vien	7/14/09
A2	04/26/10	ECO #10-021	S. Vien	H. MA		
A3	12/10/12	ECO #12-062	S. Vien	P. DalCanto		
A4	2/8/13	Update Drawing	D. Gih	P. DalCanto		

**GSPX-B-S2-GG-9100-R1**

Magnetic Filtered RJ45, RoHS Compliant

over 2 Stacked USB A-type Jacks

