

**Material and Finish (USB)**

Body: PBT, glass filled  
 UL94V-0 rated  
 color: black  
 Shield: 0.30mm 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: PBT, glass filled  
 UL94V-0 rated  
 color: black  
 Shield: 0.30mm 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)**

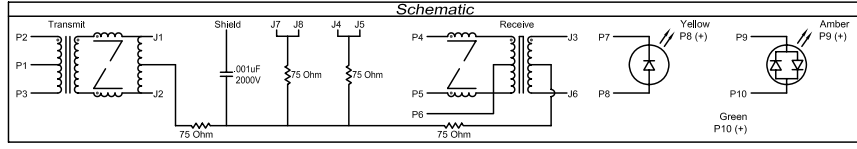
Insulation Resistance:  
 500 Megohms Min.  
 Dielectric Withstanding Voltage:  
 1000 Volts RMS,  
 for 1 minute  
 Contact Resistance:  
 20 milliohms Max.  
 Contact Current Rating  
 1.5 Amps  
 Durability Rating:  
 750 mating cycles min.

**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.)
		1-30 MHz	@ 60 MHz				
@ 100 KHz, 100m Vrms 8 mA DC Bias	1-100 MHz	-30 MHz	@ 60 MHz	100 KHz- 100 MHz	100 KHz- 100 MHz		1-100 MHz
350	-1	-20	-18	-12	-30	Xmit/Rcv 1CT:1/1CT:1CT	Xmit - Rcv -35

**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 componets  
 using Lead-Free WAVE soldering  
 or Post Lead-Free IR reflow  
 insertion methods only.

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



**RoHS COMPLIANT**  
 EU Directive 2002/95/EC

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

REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A1	11/22/05	New Drawing	R. Aguirre	H. MA	R. Aguirre	11/21/05
A2	07/23/07	ECO #07-023	A. Frederick	H. MA		
A3	02/26/08	ECO #08-030	R. Aguirre	H. MA		
A4	04/26/10	ECO #10-021	S. Vlen	H. MA		

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

Magnetic Filtered RJ45, RoHS Compliant  
 over 2 Stacked USB A-type Jacks

