

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)

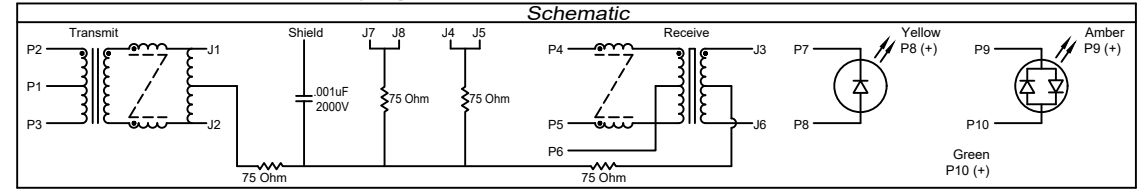
Insulation Resistance:
 500 Megohms Min.
 Dielectric Withstanding Voltage:
 1000 Volts RMS,
 for 1 minute
 Contact Resistance:
 20 milliohms Max.
 Contact Current Rating
 1.5 Amps
 Durability Rating:
 750 mating cycles min.

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.) |
|---|-----------------------------|--------------------------|-----------------|-------------------|----------------------------|----------------------------|----------------------------------|
| | | 1-100 MHz | 1-30 MHz | | | | |
| @ 100 KHz, 100m Vrms 8 mA DC Bias | -1 | -20 | @ 60 MHz -17 | @80 MHz -15 | 100 KHz- 100 MHz -30 | 100 KHz- 100 MHz -30 | 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



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

RoHS COMPLIANT
 EU Directive 2002/95/EC



| REV. | DATE | DESCRIPTION | REV. BY | CHK. BY | DRAWN BY | DATE |
|------|----------|-----------------|-------------|-------------|----------|---------|
| A0 | 08/07/09 | New Drawing | S. Vien | C. Kelleher | S. Vien | 7/14/09 |
| A1 | 09/03/09 | Release Drawing | C. Kelleher | N/A | | |
| A2 | 04/26/10 | ECO #10-021 | S. Vien | H. MA | | UNITS |
| A3 | 12/10/12 | ECO #12-062 | S. Vien | P. DalCanto | | |
| A4 | 2/8/13 | Update Drawing | D. Gih | P. DalCanto | | |
| A5 | 08/06/18 | Update Address | D. Shehan | N/A | | mm |

GSPX-B-S2-GG-9100-R1

Magnetic Filtered RJ45, RoHS Compliant

over 2 Stacked USB A-type Jacks



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