

# eSATA CONNECTORS

## OVERVIEW

FCI's eSATA products are aimed at external storage application that require a single-lane Serial ATA cable connection up to approximately two metres in length. The connectors comply with the Serial ATA Specification issued by the Serial ATA International Organization (SATA-IO).

A typical application is the connection between a desktop or mobile PC and an external storage drive, similar to existing USB or 1934 cable connections but at significantly higher data rates. The eSATA connectors support both Gen 1 (1.5Gb/s) and Gen 2 (3Gb/s) SATA data rates.

The available connector range includes individual eSATA connectors, 2-in-1 combination connector designs capable of accepting either an eSATA or a USB cable plug, and stacked configurations that provide a USB port in addition to a 2-in-1 eSATA/USB port.



## FEATURES & BENEFITS

- Compliant with eSATA requirements in Serial ATA Specification
- Up to five times faster than USB 2.0 or FireWire 400 external storage solutions
- Supports Gen 1 (1.5Gb/s) and Gen 2 (3Gb/s) data rates
- Provide external data backup and protection at up to 3Gb/s data transfer rate
- High-durability design supports 2500 cycles
- RoHS-compliant and compatible with lead-free processing temperatures
- Available range includes eSATA, eSATA/USB (2-in-1), and eSATA/USB (2-in-1) + USB combo types

## TARGET MARKETS/APPLICATIONS

- Desktop/Notebook PC
- Set top box
- Gaming equipment
- External portable storage
- USB related applications product/equipment
- External direct attached storage for notebooks, notebooks, desktop, consumer electronics and entry servers



## TECHNICAL INFORMATION

### MATERIALS

- Housing: Glass filled LCP (UL94V-0), black
- Contact/shell: Brass
- Plating:
  - Underplate finish: Nickel
  - Contact area: Gold
  - Solder area: Tin
  - Shell: Nickel over all

### ELECTRICAL PERFORMANCE

- Insulation resistance:
  - Initial 1000M $\Omega$  min.
  - After test 1000M $\Omega$  min.
- Current rating: 1.5A per contact
- Contact resistance:
  - Initial 30M $\Omega$  max.
  - After test 45M $\Omega$  max.
- Voltage rating: 12V AC max.

### PART NUMBERS

Description	Base Number
eSATA 2-in-1 right-angle plug, through-hole solder	10074703
eSATA 2-in-1 reversed right-angle plug, through-hole solder	10069848
USB over eSATA 2-in-1 right angle combo plug, reversed, through-hole solder	10081268

### MECHANICAL PERFORMANCE

- Durability: 2500 cycles
- Mating force: 40 N max.
- Unmating force: 10 N min.
- Temperature range: -40°C to +105°C

### SPECIFICATIONS

- eSATA product specification: GS-12-386
- eSATA/USB combo product specification: GS-12-402

### PACKAGING

- eSATA: Tape-on-reel
- eSATA 2-in-1/ USB: Tray or tape-on-reel

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