0.8mm Pitch

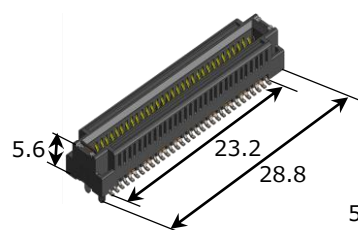# SpeedEdge – High Speed, Card Edge Connector

High-Speed   Card Edge   P= 0.8mm
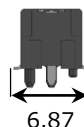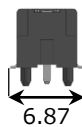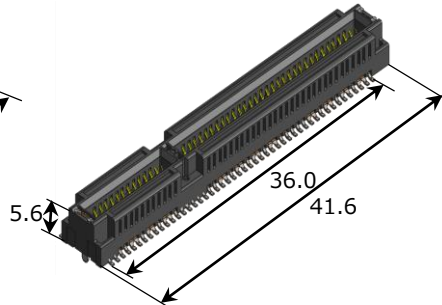
P= 0.8 mm

Features

1 **Molex "SpeedEdge" Licensed Second Source**

2 **25⁺Gbps per differential pair (Supports PCIe Gen.4)**

3 **Impedance design suitable for both 85Ω and 100Ω systems (92Ω Impedance Target)**

4 **0.8mm Pitch High Density Mounting**

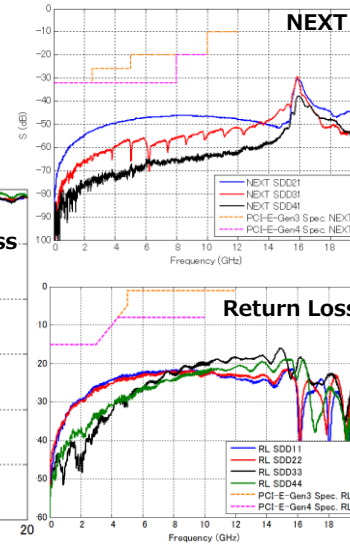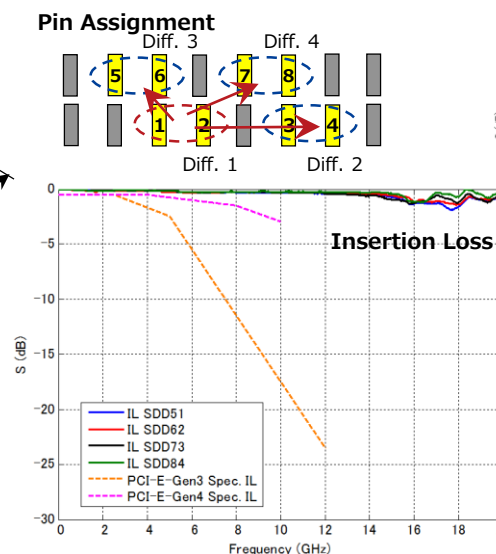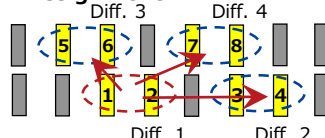| Dimensions	SI Performance	Specifications

Dimensions

60pos. : IT12M1-60S-0.8SV

5.6
23.2
28.8
6.87

82pos. : IT12M1-82S-0.8SV

5.6
36.0
41.6
6.87

(mm)

SI Performance

Pin Assignment

Diff. 3   Diff. 4

5 6   7 8

1 2   3 4

Diff. 1   Diff. 2

Insertion Loss

S (dB)

- IL SDD51
- IL SDD62
- IL SDD73
- IL SDD84
- PCI-E-Gen3 Spec. IL
- PCI-E-Gen4 Spec. IL

Frequency (GHz)

NEXT

S (dB)

- NEXT SDD21
- NEXT SDD31
- NEXT SDD41
- PCI-E-Gen3 Spec. NEXT
- PCI-E-Gen4 Spec. NEXT

Frequency (GHz)

Return Loss

- RL SDD11
- RL SDD22
- RL SDD33
- RL SDD44
- PCI-E-Gen3 Spec. RL
- PCI-E-Gen4 Spec. RL

Frequency (GHz)

Specifications

Rated Current	1A
Rated Voltage	29.9V AC/DC
Operating Temperature	-40 to +65℃
Contact Resistance*	20mΩ Max.
Withstanding Voltage	500V AC for 1 min.
Insulation Resistance	1000MΩ Min. (100V DC)
Mating Durability	25 times
Impedance	92Ω

*Includes conductor resistance.
-Halogen-free product
 (900ppm maximum chlorine,
  900ppm maximum bromine,
  and 1,500ppm maximum total of
  chlorine and bromine.)
-Cross mates with Molex's SpeedEdge.
-No. of Pos. : 60, 82

HRS HIROSE ELECTRIC CO.,LTD.