FlatFAST FOLDABLE 32G RIBBON CABLE SOLUTION

TECHNICAL INFORMATION

Material

Conductors: Annealed Copper

Insulation: Polyolefin

Shielding: Aluminum foil

Outer non-conductive layer: PET

Mechanical

Foldable: >5x 90 degree bends with negligible change in Return Loss

Thickness: .775mm (use 2 cables per SlimSAS cable assembly)

Electrical

Voltage (max): 60 VAC

Current (max): 0.5A per conductor

Environmental

Storage Temperature: -30°C to 80°C

Operating Temperature: -30°C to 80°C

Flammability Rating: VW-1

Certifications: UL, RoHS compliant

Genesis has developed FlatFAST cables to meet the demand for thin highly routable twinax cable assemblies for high speed internal server and storage applications. Fully compliant to 16G PCIe Gen4, 24G SAS4.0, and proposed 32G PCIe Gen5 / SAS5.0 standards, this cable technology can be folded multiple times without impact to Return Loss or Impedance. With a thickness close to 1/3 that of bundled twinax, FlatFAST cables are the perfect solution for routing high speed signals through the narrow pathways of today's densely packed servers, JBOD/JBOFs, and wireless base stations/radios. Available in pitches from 1.0mm down to 0.4mm, it can be used with SlimSAS, EDSFF, OCuLink, MiniSAS-HD, MiniSAS or most other popular internal cabling interconnect.

FEATURES

Can be folded multiple times with negligible (0.3 Ohm) effect to Return Loss

High speed insulated conductors wrapped with overall aluminum shield

Aluminum shield is 100% covered by non-conductive coating

Thin ribbon cable design

Available in multiple widths, wire counts, and pitches

BENEFITS

Perfect for applications that have pathways with tight bends and sharp angles

Excellent SI performance meets proposed PCIe Gen5 and SAS5.0 (32G) applications

No exposed conductive edges like 3M cable to cause grounding issues

Easy cable routing with reduced airflow restriction
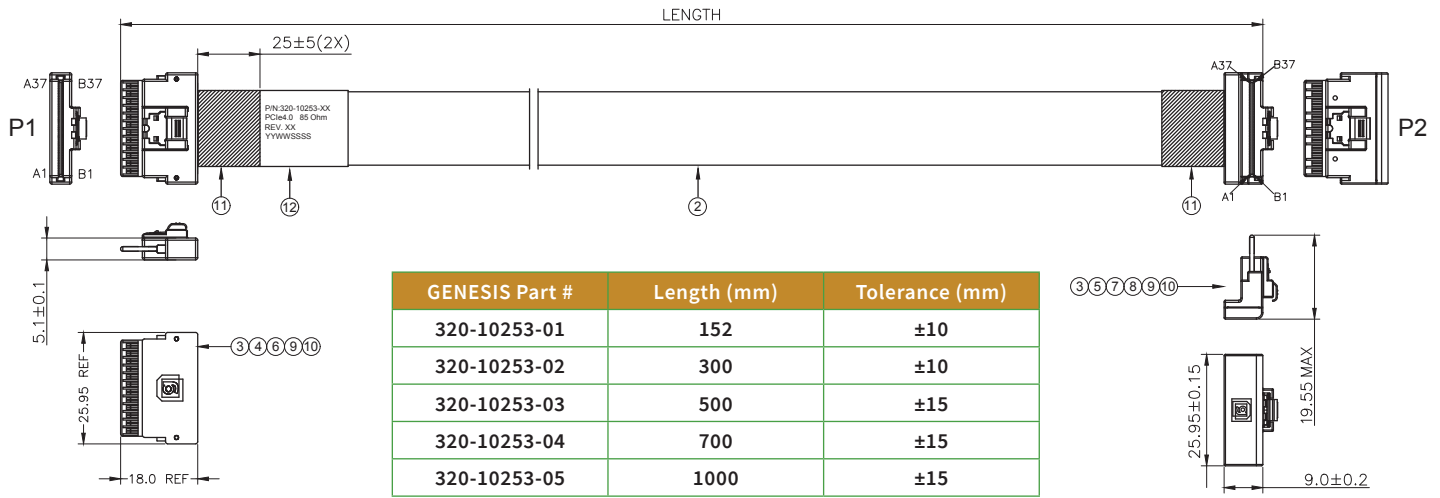
Usable with SlimSAS, OCuLink, MiniSAS-HD, and most other internal cable interconect
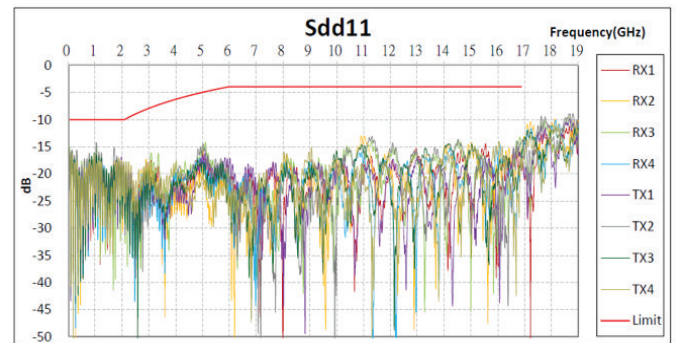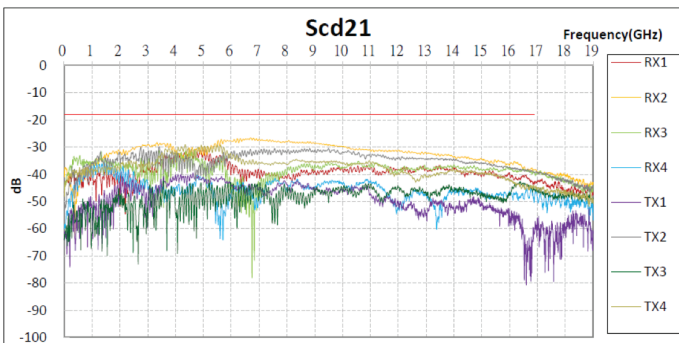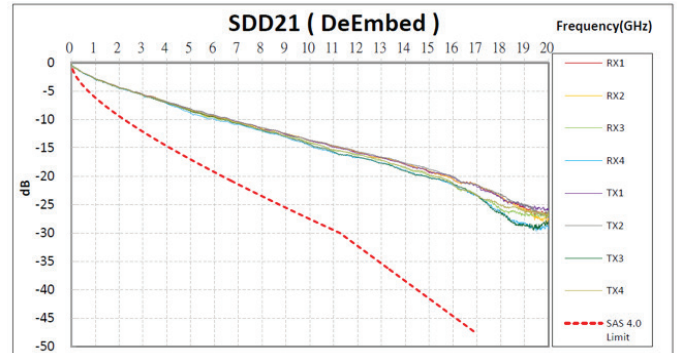
FlatFAST SlimSAS 8i Cable Assembly

Standard individual twinax SlimSAS 8i

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GENESIS Part #	Length (mm)	Tolerance (mm)
320-10253-01	152	±10
320-10253-02	300	±10
320-10253-03	500	±15
320-10253-04	700	±15
320-10253-05	1000	±15

FlatFAST SI Performance - 1m 32AWG 85 ohm SlimSAS cable